Pre-bid meeting queries received through mail			
RFP Document Reference(s) (Section & Page Number)	**Clause (in brief) of RFP requiring clarification(s)**	**Brief details/ Query in reference to the clause**	**LIC Response**
1. Backup Appliance/Storage technical specifications Page# 66	1. The proposed Storage Appliances for each site should be capable of being directly mounted (at each sites) as a partition on Exadata server by directly connecting Storage Appliance to Exadata Primary Database servers (Exadata X7-2servers) and Standby Database Servers(Exadata X9M-2 HC servers) through point-to-point fiber-channel network connection without connecting thru current Dell unified switch (Please see proposed network connection diagram under schedule-3)	Oracle restricts direct connectivity of Exadata with other hardware, systems or network. This clause favour single OEM and restricting other industry leading data protection OEM's to participate in the RFP	Direct mounting thru point-to-point connectivity is required for following reasons : - Not having additional space for placing extra switches - Not having sufficient ports on existing switches. - Not having Bandwidth available on existing Switch for NFS. - for faster backup completion. Please be guided by RFP and corrigendum issued.
1. Backup Appliance/Storage technical specifications Page# 66	9. The storage system should provide hybrid storage architecture - combining Read and/or Write Flash Accelerators (SSDs) with SAS-3 HDD.	Pl suggest bidder can propose purpose built backup appliance for backup? As traditional storage and backup appliance has architecture level difference. Traditional Storage Designed for a wide range of applications, including file storage, databases, and virtual machines and requires media server in data movement Whereas PBBA specifically designed for data backup and recovery, to deliver the performance	The requirement as per this RFP is -- Backup Appliance/Storage .
1. Backup Appliance/Storage technical specifications Page# 67	5. The storage system must support 22TB SAS-3 7.2K RPM hard disk drive	Pl allow bidder to quote 4/8/22TB SAS 7.2K RPM hard disk drive	The specification is modified as follows: The storage system must support 22 TB or higher SAS-3 hard disk drive. Please refer to the Corrigendum issued.
7. Performance and Efficiency: Page 72	5. A backup speed of 12 TB / hour should be achieved . (Please refer to Section B, Clause 6 – SLA requirements on Backup performance requirements	Achieving the desired backup throughput relies on the performance capabilities of both the primary system and the network infrastructure, in conjunction with the proposed backup appliance. Based on our understanding, the primary system can deliver the required throughput to meet the performance demands of the backup appliance. Therefore, bidders can quote an appliance that meets the performance requirements specified in the RFP.	Please refer to Corrigendum issued regarding change in backup speed
13. Backup Software-Other Specifications Page 74	The proposed backup software should support data-masking strategies for Oracle database table columns to hide sensitive data in a non-production environment, such as a test or development system.	This clause favour single OEM and restricting other industry leading data protection OEM's to participate in the RFP. Request to remove this clause	Please refer to Corrigendum
g) Other Features Page # 70	3. Storage Capacity 340 TB Usable RAID(1/0) Or Mirror	As the RFP requests backing up primary database servers on the backup appliance using the native RMAN utility on a directly mounted partition, and other Oracle database servers and staging servers using backup software on the backup appliance, please provide the capacity bifurcation for Production DB backups on locally mounted disks and the backup capacity for other DB/staging/media servers.	The current Database size of each database and size required for flat files from staging server is published in RFP. The expected Year on Year growth for Production database is also mentioned in RFP
1. Backup Appliance/Storage technical specifications Page# 66	4. Proposed backup appliance/storage should have scalability with respect capacity expansion and proportional cache in future.	Most of the industry standard storage platforms do support scalability. However, each platform will have a limit to scalability. Please provide details about upper limit of scalability. Moreover cache scalability is a function of required performance. Kindly provide the performance scalability expected from the proposed storage	Capacity should be scalable upto 1 PB. Cache should be scalable up to 92 TB.
1. Backup Appliance/Storage technical specifications Page# 66	5. It should be possible to configure and schedule backups of backup sets from Backup Appliance to LTO tapes	While Backup to LTO tape is technically possible. Disk-to-Disk backup solutions provide unmatched efficiency in terms of performance, capacity utilization and restore operation. These features/options may not be available with LTO (tape) based backup. Request to remove this clause and standardize the backup solution to be Disk-to-Disk	The requirement specified in RFP is Disk-to-Disk-to-Tape. Please be guided by RFP

1. Backup Appliance/Storage technical specifications Page# 66	14. The storage system can fully utilize the entire DRAM for IO activity by using technologies Adaptive I/O Staging.	Storage system utilize DRAM cache for IO management and performance. Data is written from host to storage cache and later destagedfrom storage cache to SSD/HDD drives. Please elaborate on this point if there is any specific functionality required from storage array beyond this functionality.	Storage System should use DRAM flash and discs to maximize performance.
1. Backup Appliance/Storage technical specifications Page# 66 & 67	16. The storage system should be available as both an on-premises appliance and a cloud image that can be installed on a compute instance to provide storage in cloud environment with up to 1PB of Automated capacity.	Please elaborate on the point of use case of deploying storage as a cloud image on cloud environment. Moreover, 1PB is a significant capacity and deploying it as a virtual image may not be suitable from performance & data efficiency perspective. Request to modify this clause to a lower capacity (say 128TB / 256 TB) or remove this clause altogether.	Capability required for future need. No change in requirement. Please be guided by RFP.
b) Reliability, Availability and Serviceability Page# 67	4. The storage system should support simple software upgrade maintaining older copies of the operating system and can revert to them should newer versions present a problem.	Please elaborate on this point. Usually storage software upgrades are performed after all necessary technical compatibility pre-check are completed. Rolling back a storage software may be complex and may be destructuve. Request to remove the "revert to older version clause"	This Technical specification is removed. Please refer to corrigendum issued.
b) Reliability, Availability and Serviceability Page# 67	9. The storage system must not have battery to reduce maintenance task and increase system reliability.	Please elaborate on the point "must not have battery". Battery backed cache is used to prevent data loss in case of unplanned power supply disruption to storage, with battery providing power to cache for destaging the in-transit data to persistent drives.	No change in requirement.Please be guided by RFP
c) Scalability and Connectivity Page# 67	1. The storage system must be highly scalable to support rapid growth in storage capacity.	While the proposed storage will be scalable, there is a limit to max capacity and performance that a particular storage model can deliver. Kindly specify the upper limit for scalability.	Storage system capacity should be scalable upto 1 PB.
c) Scalability and Connectivity Page# 67	3. The storage system should provide at least 24 CPU cores and 1 TB DRAM per controller	Request to allow OEM to size storage as per the capacity, performance and scalability requirements. This clause restricts fair competition	No change in requirement. Please be guided by the RFP.
c) Scalability and Connectivity Page# 67	5. The storage system must support 22TB SAS-3 7.2K RPM hard disk drive.	Request to allow OEM to size storage as per the capacity, performance and scalability requirements. Please remove this clause. 22TB 7.2K RPM drives are 3.5" form factor, these cannot be mixed with 2.5" form factor drives within the same drive enclosure - a) General Features:point # 15 (contradiction in specification asked in RFP)	Please be guided by the RFP. Also , please refer to the Corrigendum issued for this specification .
c) Scalability and Connectivity Page# 67	6. The storage system should support 7.68TB SSD.	Request to allow OEM to size storage as per the capacity, performance and scalability requirements. Please remove this clause.	7.68 TB ot higher SSDs can be proposed. Please refer to the corrigendum issued.
c) Scalability and Connectivity Page# 67 & 68	8. The storage system should support at least 20 10Gb/25Gb/40Gb/100Gb Ethernet (twinax/optical) ports	Request to allow OEM to size storage as per capacity, performance and scalability requirements. As per Network Connectivity Schedule 3 in RFP Page# 92 - we need 2 x 25G Ethernet for existing Exadata connectivity, 4 x 10G Ethernet & 4 x32G FC connectivity & 2 x 25G/100G Ethernet for future Exadata connectivity. total host connectivity required = 4 x 25G Eth, 4x 10G Eth, 4 x 32G FC	No Change in requirement. Please be guided by RFP. Requirements specified for future connectivity and scalability
c) Scalability and Connectivity Page# 68	11. The storage system must have redundant HBA cards for tape backup (each 16Gb/32Gb dual-port FC HBA).	Request to allow OEM to size storage as per capacity, performance and scalability requirements. Please remove this clause	No Change in requirement. Please be guided by RFP. This is required for future connectivity and scalability
d) Software Features and Backup Services requirements Page# 68	7. The storage system must support Hybrid Columnar Compression technology which enables end-to-end data reduction for Oracle Database.	TDE and Hybrid Columnar Compression are Oracle specific technologies, storage device will publish file share / volume to Oracle host for storing data or RMAN backups. please elaborate what support is required from storage on these capabilities.	The requirement is that -- backup of HCC compressed tables should not get impacted .
d) Software Features and Backup Services requirements Page# 68	20. The storage system should support 10x to 50x compression of static Oracle Database data, resulting in a 3x to 5x reduction in storage footprint for data warehousing and long-term storage of information in Oracle Database databases.	with host side data encryption (like TDE) enabled compression /deduplication cannot be guaranteed. Kindly elaborate on the ask	Please refer to the corrigendum issued

f) Data Protection Features Page# 69	2. The storage system must support RAID0 (Striping), RAID1 (2 and 3 ways mirroring), Single parity RAID, Double parity RAID and Triple parity RAID.	Request to modify this clause to RAID 1 (mirror), RAID 5 (single parity), RAID 6 (dual parity)	No change in requirement. Please be guided by RFP.
f) Data Protection Features Page# 69	10. The storage system should support ability to encrypt the replication data.	Data in Flight Encryption (data replication) will require additional components like FCIP routers. Kindly elaborate on the use case for data replication at storage tier?	This Technical specification is removed. Please refer to corrigendum issued.
c) Scalability and Connectivity Page# 68	7. The storage system should be mountable on existing Exadata X7-2 rack at Primary site and Exadata X9M-2-HC rack at DR site.	Kindly share rack dimensions and power/cooling available on the Exadata rack.	The Proposed storage system should be mountable on existing Non-Exadata racks at Primary site and at DR site. The entire backup solution hardware including Backup Appliance , Media servers, Tape Library should fit in within available rack space of 24 U . Please refer to the corrigendum issued.
d) Software Features and Backup Services requirements Page# 68	11. The storage system must support file level protocols, like NFSv2, NFSv3, NFSv4, NFSv4.1, DNFS(Direct NFS), SMB1/2/2.1/3, HTTP, WebDAV, FTP, SFTP, FTPS. 12. The storage system must support Object protocol, Open Stack Swift–compatible object ingest over HTTP or HTTPS. 13. The storage system must support block level protocol like iSCSI, FC, iSER, SRP	Unified storage supports Block (iSCSI, FC) and File (NFS, CIFS/SMB) protocols. Object protocol (S3/CAS) support requires dedicated object storage product. Kindly relax this clause to File and Block support.	Please refer to the corrigendum issued.
d) Software Features and Backup Services requirements Page# 68	19. The storage system should support direct communication between storage system and Oracle database by reducing latency and improves I/O performance for Oracle workload.	Recommended to use LAN/SAN switch for manageability, resilience and performance optimization as per best practices for storage connectivity. Kindly modify this clause to enable connectivity via switch.	No change in requirements.Please be guided by RFP and corrigendum
d) Software Features and Backup Services requirements Page# 68	21. The storage should support object API for Oracle Cloud Infrastructure Object Storage that enables touse the same applications on both on-premises on the storage and in the cloud on Oracle Cloud Infrastructure Object Storage.	Proposed storage subsystem will provide APIs. Leveraging the APIs for integration will depend upon consuming application/platform	This Technical specification is removed. Please refer to corrigendum issued.
d) Software Features and Backup Services requirements Page# 68	22. The storage should support data retention policy on Oracle Cloud Infrastructure object, snapshot, and share/file retention policies for legal hold, data governance, or regulatory compliance.	Proposed storage will provide capability for file retention on premises. Data retention on OCI object storage will be part of OCI capability. Request to remove this clause as this restricts competition	Storage system should support object store in public cloud which will support retention policies for legal hold , governance policies and regulatory compliance
e) Monitoring, Notification and Management Page# 69	9. The storage system must provide or support a single management console to manage both cloud and on-prem environments that allows administrators to manage their Storage resources in the cloud along with their on-premises resources, providing a unified management platform for distributed cloud environments.	Please elaborate on the use case and functionality required. The understanding is that this is a on-prem deployment. Kindly remove this clause	Required as future requirement when we move to cloud.
Page 66 - Backup Appliance/Storage technical specifications 1	The proposed Storage Appliances for each site should be capable of being directly mounted (at each sites) as a partition on Exadata server by directly connecting Storage Appliance to Exadata Primary Database servers (Exadata X7-2servers) and Standby Database Servers(Exadata X9M-2 HC servers) through point-to-point fiber-channel network connection without connecting thru current Dell unified switch (Please see proposed network connection diagram under schedule-3)	Kindly consider this as ... "The proposed Storage / Appliances "	The requirement specified in RFP is Storage/Backup Appliance. Please be guided by RFP.
Page 66 Backup Appliance/Storage technical specifications - 2	It should be possible for other Databases on Exadata server X5-2 server VMs at primary site (like UAT Database servers and SMS database) and other independent databases like catalog databases at both sites, to be backed up through RMAN interfaced with proposed Backup software to Backup/storage appliance(Please see proposed network connection diagram under schedule-3)	Kindly consider this as ... "The proposed Storage / Appliances "	The requirement specified in RFP is Storage/Backup Appliance. Please be guided by RFP.
Backup Appliance/Storage technical specifications - 9	The storage system should provide hybrid storage architecture - combining Read and/or Write Flash Accelerators (SSDs) with SAS-3 HDD.	Kindly clarify use case . Please clarify if you want to achive caching	No change in requirement.Please be guided by RFP. Hybrid storage architecture combining Read and/or Write Flash Accelerators (SSDs) with SAS-3 HDD is required for high performance and large storage capacity

Backup Appliance/Storage technical specifications - 9	The storage system should provide hybrid storage architecture - combining Read and/or Write Flash Accelerators (SSDs) with SAS-3 HDD.	for the 12TB per Hour kind of backupspeed we will recommend end to end NVME systems as the hybrid stroage systems will take higher footprint.Current generation of NVME stoage built for backup use cases are perofrmance intensive and cost effective, LIC should do away with Hybrid system as this infr is going to be used for next 6-7 years and the hybrid systems are going to be obsolute in near future due to higher demand of NVME attributed to affordibility , lesser footprint and performance of the NVME systems	Please refer to corrigendum pertaining to Backup speed specifications.
Page 66 Backup Appliance/Storage technical specifications - 11	The storage system must be able to provide optimized storage caching hierarchy with hybrid storage pools containing DRAM, SSD and SAS-3 hard disk drives.		No change in requirements. Please be guided by RFP.
Page - 67 Backup Appliance/Storage technical specifications	The proposed Storage system should be certified by Oracle to work with Oracle Exadata systems	As we understand, required backup solution should be compatible & working as per requirement. Kindly remove certification Oracle.	The proposed Storage system should be compatible to work with Oracle Exadata systems. Please refer to the corrigendum issued
Page 66	Proposed backup appliance/storage should have scalability with respect capacity expansion and proportional cache in future.	Kindly clarify if it intends to say that cache should be expandable for the straoge system ?	No change in requirement. Specifications mentioned is clear. Please be guided by RFP.
Page 67	The storage system must not have battery to reduce maintenance task and increase system reliability.	Majority of the storage vendors use battery-backed NVRAM (non-volatile RAM) for write caching, and also has a real-time clock battery to preserve system date and time information during power outages. Requesting LIC to change this point as this could lead to dataloss during outages and this point is specific to single OEM.	No change in requirement. Please be guided by the RFP
Page 67	The storage system should be mountable on existing Exadata X7-2 rack at Primary site and Exadata X9M-2-HC rack at DR site.	Please advice on space avaialble in those rack	The Requirement is modified as below: The storage system should be mountable on existing non-Exadata racks at Primary site and at DR site. The entire backup solution hardware including Backup Appliance, Media servers, Tape Library should fit in within available rack space of 24 U. Please refer to the corrigendum issued.
Page 70	Storage Capacity 340 TB Usable RAID(1/0) Or Mirror	RAID 0/1 is inefficient way of configurating the solution in cunnret times where efficient perforamnce systems are avaialble with the help of RAID5 /RAID 6 or equivalent raid protection . Due to mirroring there is wastage of 50% of the capacity and increase footprint and overall opex . We will recommend LIC to use latest NVME based storage solution wit RAID 6/ DP or equivalent	No change in requirements. Please be guided by the specifications and requirements mentioned in RFP
Page 68	The storage should support data retention policy on Oracle Cloud Infrastructure object, snapshot, and share/file retention policies for legal hold, data governance, or regulatory compliance.	this point looks OEM specific , requesting LIC to change this , LIC can mention it as Staroge should support S3 connectivity to public cloud.	Storage system should support object store in public cloud which will support retention policies for legal hold , governance policies and regulatory compliance
Page 68	The storage should support object API for Oracle Cloud Infrastructure Object Storage that enables touse the same applications on both on-premises on the storage and in the cloud on Oracle Cloud Infrastructure Object Storage.	this point looks OEM specific , requesting LIC to cahnge this , LIC can mention it as Staroge should support S3 connectivity to public cloud.	This requirement is removed. Please refer to the Corrigendum issued.
Page 68	The storage system should support 10x to 50x compression of static Oracle Page 69 LIC-RFP for procurement of Backup solution for ODS project of LIC of India. Database data, resulting in a 3x to 5x reduction in storage footprint for data warehousing and long-term storage of informationin Oracle Database databases.	Compression and deduplicatiion will be done by backup software , requesting LIC to change this point . If the data is already compressed and deduplicated it can not be guranteed again.	Please referto the corrigendum issued.
Additional Queries	While gartners Leaders quadrant has been considered for Backup , LIC should consider same for Staoge as well.		No change in requirement. Please be guided by RFP.
Additional Queries	Anitranswomware protection is not mentioned in RFP, as futurestic solutuon LIC should ask fro Ransomware protection capabilities in Backup storage .		Anti-ransomware protection has been specified as part of Backup software requirement

Page 8, 9 4. Present Technical environment & Scope of Work	The brief scope of work is as below: Supply, installation, configuration, commissioning and maintenance of Backup Software,.....	**Clarification sought:** Based on the clause, we understand that the scope is for new backup setup. And there is no migration of backup data / Restore and backup again etc. Kindly confirm or provide inputs.	There is no Migration of old backups required from old backup system to new system
Page 9 4. Present Technical environment & Scope of Work Page 90	Supply and installation of required latest version of OS on Media servers B. Media Server Configuration and Components (One server each for Primary and DR site)	**Query**: Operating system is not mentioned in the technical specification. Does the bidder have to add O.S.	Yes. The proposed Media servers at both sites shall be loaded with required compatible latest version of operating system with support for 5 years. Please refer to corrigendum issued
Page 9 4. Present Technical environment & Scope of Work	Provide ATS support for a period of One year for Backup Appliance	**Change Request**: All leading hardware providers bundle 3 years support with hardware. We request LIC to change the clause to: Provide ATS support for a period of ~~**One**~~ **three** year**s** **f**or Backup Appliance	No change in requirement. Please be guided by RFP.
Page 38 4. Payment Terms: Page 44 7. Project schedule	**Go-Live** will be reckoned as the production implementation date backup solution after successful Installation and integration, acceptance testing and documentation of entire solution at the locations specified as per the scope of work. **Project Completion period** at DC, Mumbai. installation, commissioning, integration, testing of backup solution 6 to 10 weeks	**Clarification Sought:** We understand, dismantling of the existing setup can happen after Go Live and project completion. Kindly confirm or provide inputs.	Dismantling has to be done prior to new installation as there is rack space and port constraints.
Page 42 6.5 SLAs for Backups from Database Servers to Backup Appliance (Disk to Disk) and Disk to tapes	Backup speed is 12 TB per hour (for uncompressed backups) is to be achieved	**Clarification Sought:** We understand, the Exadata devices, network and other setup is configured to write data at 12 TB/Hr. If any changes are required on Exadata to achive this throughput, it will be effected by LIC. Kindly confirm or provide inputs.	Please refer to corrigendum regarding modifications in Backup speed
Page 52 Annexure-VI: Commercial Bid (indicative prices) Format	3 Backup Software Qty=2	**Query:** We request LIC to clarify if backup at primary and at DR will be taken independently OR Backup will be taken at primary and same will be replicated to DR backup appliance.	Both sites backups are to be taken independently. Replication between storages of both sites is not in scope of this RFP
Page 52 Annexure-VI: Commercial Bid (indicative prices) Format	6 Any Other Hardware Items	**Query**: We request LIC to clarify if SAN switches, LAN switches will be provided by LIC or the bidder has to factor the same.	At present there are Dell Unified switches available. Please refer to Schedule-3 proposed connection and layout diagram
Page 52 Annexure-VI: Commercial Bid (indicative prices) Format Page 67,68 1. Backup Appliance/Storage technical specifications c) Scalability and Connectivity	6 Any Other Hardware Items 8 The storage system should support at least 20 10Gb/25Gb/40Gb/100Gb Ethernet (twinax/optical) ports 9 The storage system should be able to seamlessly connect to Exadata X5 and X7 with 10Gb/40Gb Ethernet (twinax/optical) ports. 10 The storage system should be able to seamlessly connect to Exadata X9 with 25Gb/100Gb Ethernet (twinax/optical) ports	**Clarification Sought**: In case, the existing LAN and SAN switches are to be used, We request LIC to confirm that required, active ports with necessary transceivers are available on the LAN and SAN switches. We will factor cables accordingly.	Please refer to schedule-3 proposed connection diagram and Schedule-2 - indicative Bill of quantity . The available ports have shown in the connection diagram. Based on the available ports and transceivers , the indicative Bill of quantity has been listed.
Page 66 1. Backup Appliance/Storage technical specifications		**Query:** We request LIC to provide the required backup and retention policy to size the appliance capacity	The requirement of storage capacity is 340 TB usable space as specified in RFP. Please be guided by the RFP.

Page 68 1. Backup Appliance/Storage technical specifications c) Scalability and Connectivity	7 The storage system should be mountable on existing Exadata X7-2 rack at Primary site and Exadata X9M-2-HC rack at DR site.	**Query:** We request LIC to provide details of the Exadata racks so we can confirm against this clause.	The storage system should be mountable on existing non-Exadata racks at Primary site and at DR site. The entire backup solution hardware including Backup Appliance, Media servers, Tape Library should fit in within available rack space of 24 U. Please refer to the Corrigendum issued.
Page 72 1. Backup Appliance/Storage technical specifications 9. Backup to Virtual Tape Library (VTL):	The backup software must support Virtual Tape Libraries (VTL) for both disk-to-disk backups and restorations. Proposed Backup software shall support Virtual Tape Library for backups to disk as well as for restorations.	**Clarification Sought**: We understand, VTL licences are not to be provided. Kindly confirm or provide inputs	VTL is a Storage related feature. The technical specification asked for in this RFP is - "The proposed backup software shall support Virtual Tape Library (VTL) functionality for both backup to disk and restoration from disk". Vendor is free to propose VTL licenses , if they feel the same is required for their proposed solution.
Page 84 Schedule-1- Functional requirements and Scope of Work	28. The expected database size growth of Main database is 15% year-on-year. For the current size of Database please see Table -A, Section -B below.	**Query**: Please mention number of years for growth to be factored while sizing the solution	Number of years to be factored in - is next 5 years
Page 10 Section-B: Minimum Eligibility Criteria	3. Bidder must have supplied and configured Backup solutions involving Backup Storage (Appliance), Backup software and LTO Tape libraries to at least 5 customers, In the last 5 financial years preceding the date of this RFP. At least three among these should be provided to Government Departments/PSU/BFSI sector companies	**Change Request:** We request LIC to exclude the Tape libraries from the eligibility requirement. For a few years, most customers either do not use tapes or use existing tapes for many years across different environments. The POs hence do not include LTO Tape libraries Bidder must have supplied and configured Backup solutions involving Backup Storage (Appliance), Backup software ~~and LTO Tape libraries~~ to at least 5 customers	Please refer to the Corrigendum
Minimum Eligibility Criteria (MEC) [Stage I Evaluation] Page No.10	Bidder must have supplied and configured Backup solutions involving Backup Storage (Appliance), Backup software and LTO Tape libraries to at least 5 customers, In the last 5 financial years preceding the date of this RFP. At least three among these should be provided to Government Departments/PSU/BFSI sector companies.	Bidder/any of sister entities of Bidder's parent organization must have supplied and configured Backup solutions involving Backup Storage (Appliance), Backup software and LTO Tape libraries to at least 5 customers, In the last 5 financial years preceding the date of this RFP. At least three among these should be provided to Government Departments/PSU/BFSI sector companies.	Please be guided by RFP and Corrigendum
Minimum Eligibility Criteria (MEC) [Stage I Evaluation] Page No.10	Bidder must have experience in maintaining the backup solution for 3 different entities in the last three years. All should be from Govt Dept /PSU / BFSI Sector.	Request to change it to - Bidder must have experience in maintaining the backup solution for 3 different entities in the last Five years. All should be from Govt Dept /PSU / BFSI Sector.	Please be guided by RFP
Minimum Eligibility Criteria (MEC) [Stage I Evaluation] Page No.10	Bidder must have supplied and configured Backup solutions involving Backup Storage (Appliance), Backup software and LTO Tape libraries to at least 5 customers, In the last 5 financial years preceding the date of this RFP. At least three among these should be provided to Government Departments/PSU/BFSI sector companies.	Bidder must have supplied and configured Backup solutions involving Backup Storage (Appliance), Backup software and LTO Tape libraries to at least 3 customers, In the last 5 financial years preceding the date of this RFP. At least three among these should be provided to Government Departments/PSU/BFSI sector companies.	Please be guided by RFP and Corrigendum
Minimum Eligibility Criteria (MEC) [Stage I Evaluation] Page No.9	Bidder must have minimum turnover of Rs.100 Crores in each of the following three financial years i.e. 2021 2022, 2022 2023, 2023 2024. Bidder should have made profit (before tax) in each of the following three financial year's i.e. 2021 2022 and 2022 2023, 2023 2024.	Bidder must have minimum turnover of Rs.100 Crores in each of the following three financial years i.e. 2021 2022, 2022 2023, 2023 2024. Bidder should have made profit (before tax) in any of 2 years of the following three financial year's i.e. 2021 2022 and 2022 2023, 2023 2024.	Please be guided by RFP
Clause 7. Project schedule Page No.44	1 Delivery of hardware, software, licenses etc. 4 to 6 weeks 2 Project Completion period at DC, Mumbai. installation, commissioning, integration, testing of backup solution 6 to 10 weeks 3 Project Completion period at DR Site, Bangalore Colo i.e. installation, commissioning, integration, testing of backup and sync solution. 6 to 14 weeks	1 Delivery of hardware, software, licenses etc. 8 to 10 weeks 2 Project Completion period at DC, Mumbai. installation, commissioning, integration, testing of backup solution 10 to 14 weeks 3 Project Completion period at DR Site, Bangalore Colo i.e. installation, commissioning, integration, testing of backup and sync solution. 10 to 24 weeks	Please refer to corrigendum issued.

Clause 4, Payment Terms Page No.38	60% of the cost of Hardware items and 80% of Software items of the Commercial Bid Format at Annexure-VI shall be paid after delivery of entire solution (software, hardware, warranty & maintenance with OEM and peripherals as per scope) at the specified locations mentioned in the PO.	80% of the cost of Hardware items and 80% of Software items of the Commercial Bid Format at Annexure-VI shall be paid after delivery of entire solution (software, hardware, warranty & maintenance with OEM and peripherals as per scope) at the specified locations mentioned in the PO.	Please refer to corrigendum issued.
4. Payment Terms Page No.44	30% of the cost of Hardware items and 20% of the cost of software items in Annexure-VICommercial Bid shall be paid on Go-Live date	20% of the cost of Hardware items and 20% of the cost of software items in Annexure-VICommercial Bid shall be paid on Go-Live date	Please refer corrigendum
7. Project schedule Page No.44	Delivery of hardware, software, licenses etc. 4-6 Week	Request to change 8-10 weeks	Please refer corrigendum
7. Project schedule Page No.45	Project Completion period at DC, Mumbai. installation, commissioning, integration, testing of backup solution 6 to 10 weeks	Request to change 10-18 Weeks	Please refer corrigendum
7. Project schedule Page No.46	Project Completion period at DR Site, Bangalore Colo i.e. installation, commissioning, integration, testing of backup and sync solution.6 to 14 weeks	Request to change 10-24 Weeks	Please refer corrigendum
Clause 6, Sectionn 6.3 System Uptime required and its applicable penalties Page No.41	Required System-Uptime and Penalties applicable - if the desired system uptimes are not met 99.5% - nil, <99.50% up to 99% Penalty 3 % of Quarterly AMC amount, <99% up to 98% Penalty 4 % of Quarterly AMC amount, <98% up to 97% Penalty 5 % of Quarterly AMC amount and, < 97% Penalty 5 % of Quarterly AMC bill + 0.10% of AMC amount , for every additional hour of downtime thereo Penalty cap for a quarter shall be a maximum of 15% of the Total AMC Bill for a quarter.	Request to Penalty cap for a quarter shall be a maximum of 5% of the Total AMC Bill for a quarter.	Please refer corrigendum
8. Liquidated damages Page No.41	If Service Provider fails to deliver product and/or perform any or all the Services within the stipulated time, schedule as specified in this Agreement, LIC may, without prejudice to its other remedies under the Agreement, and unless otherwise extension of time is agreed upon without the application of liquidated damages, deduct from the Project Cost, as liquidated damages a sum equivalent to 12 % of total Project Cost for delay of each week or part thereof maximum up to 100 % of total Project Cost. Once the maximum deduction is reached, LIC may consider termination of the Agreement.	Pls. request to change liquidated damages a sum equivalent to 0.5 % of total Project Cost for delay of each week or part thereof maximum up to 5 % of total Project Cost	Please refer corrigendum
Clause 4, Payment Terms Page No.38	60% of the cost of Hardware items and 80% of Software items of the Commercial Bid Format at Annexure-VI shall be paid after delivery of entire solution (software, hardware, warranty & maintenance with OEM and peripherals as per scope) at the specified locations mentioned in the PO. 30% of the cost of Hardware items and 20% of the cost of software items in Annexure-VI- Commercial Bid shall be paid on Go-Live date. Go-Live will be reckoned as the production implementation date backup solution after successful Installation and integration, acceptance testing and documentation of entire solution at the locations specified as per the scope of work. 10% of the cost of Hardware items of the Commercial Bid Form at Annexure-VI shall be paid after 3 months of Go-Live date and after submitting documentation on any Configuration changes/ modifications done after Go-Live and after completion of training.	80% of the cost of Hardware items and 80% of Software items of the Commercial Bid Format at Annexure-VI shall be paid after delivery of entire solution (software, hardware, warranty & maintenance with OEM and peripherals as per scope) at the specified locations mentioned in the PO. 20% of the cost of Hardware items and 20% of the cost of software items in Annexure-VI- Commercial Bid shall be paid on Go-Live date. Go-Live will be reckoned as the production implementation date backup solution after successful Installation and integration, acceptance testing and documentation of entire solution at the locations specified as per the scope of work. Since there is already a Bank Guarantee there is no need of 10% retention after Go-Live.	Please refer corrigendum
Clause 6.5 Page No.42	Backup speed is 12 TB per hour (for uncompressed backups) is to be achieved.	Request this to be amended as follows: Backup speed of 10 TB per hour (for uncompressed backups) is to be achieved.	Please refer corrigendum
Clause 6.5 Page No.42	Table 3	Request the Table 3 be modified accordingly as per Backup speed of 10 TB per hour	Please refer corrigendum
Annexure 4 Page No.49	Annexure-IV: Manufacturer's authorization letter (i.e. MAF) from respective OEMs**	Request LIC to accept OEM Standard MAF Format rather than the one specified in the RFP. Format can be provided by each OEM	Please refer corrigendum

Annexure – XII Page No.66	Sr No 1 The proposed Storage Appliances for each site should be capable of being directly mounted (at each sites) as a partition on Exadata server by directly connecting Storage Appliance to Exadata Primary Database servers (Exadata X7-2servers) and Standby Database Servers(Exadata X9M-2 HC servers) through point-to-point fiber-channel network connection without connecting thru current Dell unified switch (Please see proposed network connection diagram under schedule-3)	Request to please change "point-to-point fiber-channel network" to "point-to-point optical fiber network" Or "QSFP28 Copper cables" in place of	Please refer corrigendum
Clause 6, Sectionn 6.3 System Uptime required and its applicable penalties Page No.41	Required Uptime of solution/service on Quarterly basis 99.50% Percentage System-up time(rounded to nearest) <99.50% up to 99% - Penalty of 3 % of Quarterly AMC amount < 99% up to 98% - Penalty of 4 % of Quarterly AMC amount < 98% up to 97% - Penalty of 5 % of Quarterly AMC amount < 97% - Penalty of 5 % of Quarterly AMC bill + 0.10% of AMC amount , for every additional hour of downtime thereof	Required Uptime of solution/service on Quarterly basis 99.50% Percentage System-up time(rounded to nearest) <99.50% up to 99% - Penalty of 0.5 % of Quarterly AMC amount < 99% up to 98% - Penalty of 1 % of Quarterly AMC amount < 98% up to 97% - Penalty of 1.5 % of Quarterly AMC amount < 97% - Penalty of 2 % of Quarterly AMC bill + 0.10% of AMC amount , for every additional hour of downtime thereof	Please refer corrigendum
Clause 6, Sectionn 6.6 SLAs for Backup failures Page No.43	100% Successful Backup Rate - No penalty 98% - 99.99% Successful Backup Rate - Penalty of 1% of Quarterly service charge 95% - 97.99% Successful Backup Rate - Penalty of 2% of Quarterly service charge 90% - 94.99% Successful Backup Rate - Penalty of3% of Quarterly service charge < 90% Successful Backup Rate - Penalty of 5% of Quarterly service charge	100% Successful Backup Rate - No penalty 98% - 99.99% Successful Backup Rate - Penalty of 0.5% of Quarterly service charge 95% - 97.99% Successful Backup Rate - Penalty of 1% of Quarterly service charge 90% - 94.99% Successful Backup Rate - Penalty of 1.5% of Quarterly service charge < 90% Successful Backup Rate - Penalty of 2% of Quarterly service charge	Please refer corrigendum
Section B Clause No :3	Bidder must have supplied and configured Backup solutions involving Backup Storage (Appliance), Backup software and LTO Tape libraries to at least 5 customers, In the last 5 financial years preceding the date of this RFP. At least three among these should be provided to Government Departments/PSU/BFSI sector companies.Copy of the concerned Purchase to be submitted and details to be submitted as per Annexure-VII. **Multiple PO will be considered of that same entity.**	Request to consider 3 Customers in last 5 financial yrs including the current Year i.e 2024-2025 . (The bid is also getting submitted April 25.	Please be guided by the terms in RFP
Section B Clause No :3	Bidder must have experience in maintaining the backup solution for **3 different entities in the last three years.** All should be from Govt Dept /PSU / BFSI Sector	Request to consider 3 different entities in last 5 yrs including current year .	Please be guided by the terms in RFP
Page 38 -payment terms	10% of the cost of Hardware items of the Commercial Bid Form at Annexure-VI shall be paid after 3 months of Go-Live date and after submitting documentation on any Configuration changes/ modifications done after Go-Live and after completion of training.	Request to consider 10% cost of Hardware to be paid after 1 month of Go Live instead of 3 months.	Please refer to Corrigendum
Page 44 -8	Liquidated damages- a sum equivalent to 12 % of total Project Cost for delay of each week or part thereof maximum up to 100 % of total Project Cost.	Request to have all penalties including delivery , SLA should be capped at 10% and remove 100% total Project cost .	Please refer to Corrigendum
Delivery page 44 6.7	Delivery of hardware, software, licenses etc -4 to 6Weeks.	Request to consider Delivery to 10 Weeks .	Please refer to Corrigendum
Page 44 -7	Project Completion period at DC, Mumbai. installation, commissioning, integration, testing of backup solution-6 to 10weeks	Request to consider Project Completion Period at DC to 14-16 Weeks	Please refer to Corrigendum
Page 44 -7	Project Completion period at DR Site, Bangalore Colo i.e. installation, commissioning, integration, testing of backup and sync solution.	Request to consider Project Completion Period at DR to 18-20 Weeks	Please refer to Corrigendum
page 41 6.3	Table 2 System Uptime Penalties applicable 3 % of Quarterly AMC amount 4 % of Quarterly AMC amount 5 % of Quarterly AMC amount 5% of Quaterly AMC bill+0.10% of AMC Amount for every additional hour of downtime thereof	Request to consider 1 % of Quarterly AMC amount 2 % of Quarterly AMC amount 3 % of Quarterly AMC amount 3% of Quarterly AMC bill+0.2% of AMC amount for additional hour of downtime thereof.	Please refer to corrigendum

6.5 SLA	SLAs for Backups from Database Servers to Backup Appliance (Disk to Disk) and Disk to tapes	Kindly alter this point to D2D2T	Disk to Disk Backups and Disk to Tape backups will be scheduled at different points in time. The SLAs mentioned are applicable to each type of backup separately
SEC F A.3	The penalty will be applied at the end of each calendar month based on reported performance	In case, bidder need to procure any additional license for any replication other than oracle, kindly help us to mention..	Bidder has to procure all licenses required for the scope of work mentioned in the RFP. For backup software licenses , Please refer to Page -77 under heading Backup software-other specifications- which states -- "Must be provided with perpetual licenses for unlimited number of hosts and must be configured with 75 TB of Front End capacity based license at each site with 5 years AMC support ". As per the scope of work Backups are to be configured at both DC and DR sites to Backup Appliance and Tape libraries installed in each location. Backup Storage to Storage replication between DC and DR storages is not to be configured under the current scope of work
SEC F A.4	There is one RMAN catalog database server at each site. The catalog database should be backed up daily.	Kindly help us to understand the existing mode/tool of taking RMAN backups.	Dell NetWorker is the existing backup software. The existing backup appliance is Dell Data Domain DD6800. Backups are scheduled through Dell NetWorker software. Oracle RMAN scripts are integrated with Dell NetWorker to take Oracle RMAN backups and store them on the Dell Data Domain DD6800 backup appliance. Both DC and DR site Databases and Staging servers have their own independent Backups scheduled through Backup software (interfaced with RMAN) to take backups to DD6800 in respective locations. Disk to Tape library backups are currently stopped due to very high backup time(running to more than 24 hours) and backup failures.
SEC F A.5	There are 2 staging servers at each site. The staging servers contain flat files which needs to be backed up	For sake of better understanding, kindly help with the schedule and retention policies applied. Also, how these files are getting replicated and by what backbone speed.	In the existing setup , for Flat files, weekly full backup is scheduled (at both DC and DR locations) . Incremental backups are scheduled daily. Total size of full backup of flat Files is approximately 4.8 TB (uncompressed) . The existing retention period is one week.
SEC F A.7	For Primary database servers at primary site on Oracle Exadata X7-2(PRODS), the Storage Appliance shall be directly mounted as a partition on database servers. Backups shall be made to the mounted partition directly through RMAN utility invoked from database servers (disk to disk). The connection shall be point-to-point direct Optical Fiber without connecting through Dell unified switch. Please see proposed connection diagram in schedule-3.	We understand the connectivity shall be P2P. For better clarity, kindly help us with the port numbers and speed of available ports.	Please refer to Page no 92 and 93 - Proposed Connection and Layout diagram for DC and DR site.
SEC F A.19	The agents/plugins/backup software pertaining to backup software deployed on Exadata database servers shall be compatible with Exadata machines and should not cause any performance issues, huge consumption of resources, file locking etc.	Primary OEMs do provide APIs for the same. For better understanding, kindly help us if we can integrate the API on existing Virtual machine or standalone machine used by the Databases.	Oracle Exadata Machines are Oracle Engineered Systems. Any third party agents/plugins that would be installed should be fully compliant with Exadata systems . The third party Agents /plugins installed on Database clients(Exadata DB nodes) should not cause any performance issues on Exadata Systems. Bidder is free to use agent-less methods if available. No spare virtual machines or standalone machines are available at both sites . Bidder has to propose for additional servers if required for agent-less installation at each site.
SEC F A.20	The backup software that would be installed on media servers and the agents on Exadata systems should be compatible and certified to work on Oracle Enterprise Linux latest version.(the existing version on Oracle Exadata systems is OEL version 8)	We believe that this system and Operating system are under valid OEM support subscription. Kindly mention, if not.	Exadata systems and Source staging servers are under OEM support. Media servers with Operating system with OEM support has to be supplied by bidder as per this RFP
SEC F C.3	Decommissioning of existing Backup appliance and backup servers in co-ordination with existing vendor	For better understanding, kindly help us to understand if the decomissioning is considered in same delivery timelines?	Yes . Decommissioning should be done prior to start of installation in the same delivery schedule. Please refer to corrigendum for change in delivery schedule. Please refer to corrigendum issued.
SEC F C.9	All works related to cabling and connectivity from Dell unified switches to Appliance, Tape libraries and servers need to be carried out by the vendor.	Please help us to understand exact model and available ports with speed.	Please refer to Page no -8 , Clause-4 - 4.Present Technical environment & Scope of Work - for the model of Dell Unified Switch. Please refer to Page no 92 and 93 - Proposed Connection and Layout diagram for DC and DR site.ch
The given Clause to be included in the RFP	The given Clause to be included in the RFP	In case the bidding Company/firm is hived off from the demerged company, the experience, eligibility etc. as per the requirement of the RFP may be considered as of the demerged company, provided the demerged company doesn't apply in the same RFP process.	Please refer to corrigendum

Section-B: Minimum Eligibility Criteria : Pg. 10	Bidder must have supplied and configured Backup solutions involving Backup Storage (Appliance), Backup software and LTO Tape libraries to at least 5 customers, In the last 5 financial years preceding the date of this RFP. At least three among these should be provided to Government Departments/PSU/BFSI sector companies.	Request for change in Clause to "(**Bidder/OEM) must have supplied and configured Backup solutions involving Backup Storage (Appliance), Backup software and LTO Tape libraries to at least 5 customers, In the last 5 financial years preceding the date of this RFP. At least three among these should be provided to Government Departments/PSU/BFSI sector companies."**	Please be guided by RFP and Corrigendum issued.
Section-B: Minimum Eligibility Criteria : Pg. 10	Bidder must have experience in maintaining the backup solution for 3 different entities in the last three years. All should be from Govt Dept /PSU / BFSI Sector.	Request for change in Clause to **"(Bidder/OEM) must have experience in maintaining the backup solution for 3 different entities in the last three years. All should be from Govt Dept /PSU / BFSI Sector."**	Please be guided by RFP .
Section-B: Minimum Eligibility Criteria (Page - 10)	Bidder must have supplied and configured Backup solutions involving Backup Storage (Appliance), Backup software and LTO Tape libraries to at least 5 customers, In the last 5 financial years preceding the date of this RFP. At least three among these should be provided to Government Departments/PSU/BFSI sector companies.	We request you to change the clause from only Bidder to **Bidder/ OEM** for the this clause.	No change. Please be guided by RFP
Section-B: Minimum Eligibility Criteria (Page - 10)	Bidder must have experience in maintaining the backup solution for 3 different entities in the last three years. All should be from Govt Dept /PSU / BFSI Sector.	We request you to change the clause from only Bidder to **Bidder/ OEM** for the this clause.	No change. Please be guided by RFP
Clause 4 (Page -38)	60% of the cost of Hardware items and 80% of Software items of the Commercial Bid Format at Annexure-VI shall be paid after delivery of entire solution (software, hardware, warranty & maintenance with OEM and peripherals as per scope) at the specified locations mentioned in the PO. 30% of the cost of Hardware items and 20% of the cost of software items in Annexure-VI- Commercial Bid shall be paid on Go-Live date. Go-Live will be reckoned as the production implementation date backup solution after successful Installation and integration, acceptance testing and documentation of entire solution at the locations specified as per the scope of work. 10% of the cost of Hardware items of the Commercial Bid Form at Annexure-VI shall be paid after 3 months of Go-Live date and after submitting documentation on any Configuration changes/ modifications done after Go-Live and after completion of training.	80% of the cost of Hardware items and 80% of Software items of the Commercial Bid Format at Annexure-VI shall be paid after delivery of entire solution (software, hardware, warranty & maintenance with OEM and peripherals as per scope) at the specified locations mentioned in the PO. 20% of the cost of Hardware items and 20% of the cost of software items in Annexure-VI- Commercial Bid shall be paid on Go-Live date. Go-Live will be reckoned as the production implementation date backup solution after successful Installation and integration, acceptance testing and documentation of entire solution at the locations specified as per the scope of work. Since there is already a Bank Guarantee there is no need of 10% retention after Go-Live.	Please refer to Corrigendum
Clause 6.5 (Page 42)	Backup speed is 12 TB per hour (for uncompressed backups) is to be achieved.	Request this to be amended as follows: Backup speed of 10 TB per hour (for uncompressed backups) is to be achieved.	Please refer to Corrigendum
Clause 6.5 (Page 42)	Table 3	Request the Table 3 be modified accordingly as per Backup speed of 10 TB per hour	Please refer to Corrigendum
Clause 7 (Page 44)	Project Schedule: 1. Delivery of hardware, software, licenses etc. - 4 to 6 weeks	Request following changes to the Project Schedule: 1. Delivery of hardware, software, licenses etc. - 8 to 12 weeks	Please refer to Corrigendum
Clause 7 (Page 44)	Project Schedule: 2. Project Completion period at DC, Mumbai. installation, commissioning, integration, testing of backup solution - 6 to 10 weeks	Project Schedule: 2. Project Completion period at DC, Mumbai. installation, commissioning, integration, testing of backup solution - **16 to 17 weeks**	Please refer to Corrigendum
Clause 7 (Page 44)	Project Schedule: 3. Project Completion period at DR Site, Bangalore Colo i.e. installation, commissioning, integration, testing of backup and sync solution. - 6 to 14 weeks	Project Schedule: 3. Project Completion period at DR Site, Bangalore Colo i.e. installation, commissioning, integration, testing of backup and sync solution. - **16 to 17 weeks**	Please refer to Corrigendum
Annexure 4 (page 49)	Annexure-IV: Manufacturer's authorization letter (i.e. MAF) from respective OEMs**	Request LIC to accept OEM Standard MAF Format rather than the one specified in the RFP. Format can be provided by each OEM	LIC may consider accepting the OEM Standard MAF format, provided that it includes all necessary undertakings and assurances required in alignment with the intent of the RFP. Please refer to corrigendum

Annexure – XII (page 66)	**Sr No 1.** The proposed Storage Appliances for each site should be capable of being directly mounted (at each sites) as a partition on Exadata server by directly connecting Storage Appliance to Exadata Primary Database servers (Exadata X7-2servers) and Standby Database Servers(Exadata X9M-2 HC servers) through point-to-point fiber-channel network connection without connecting thru current Dell unified switch (Please see proposed network connection diagram under schedule-3)	Request to please change "point-to-point fiber-channel network" to "point-to-point optical fiber network" Or "QSFP28 Copper cables" in place of	Please refer to Corrigendum
Page 71 / Primary and Standby Database Architecture:	The backup software must support Oracle Data Guard replication for primary and standby databases.	Need Clarity, is backup software should manage oracle dataguard replication or it should work while ODG is also working on the server ?	Backup software should be capable of taking Backups of physical standby databases which are in recovery mode (which are being replicated from primary site through Oracle dataguard/Active Oracle Dataguard)
Page 73 / 13. Backup Software- Other Specifications	The proposed Backup Software solution must support optimized secondary copy creation to a remote site via DASH copy, where only unique data blocks is sent over the network	Requesting LIC to remove " DASH COPY" as this is vendor specific	The specification of DASH COPY stands removed . Please refer to the corrigendum issued.
Page 74 / 13. Backup Software- Other Specifications	The proposed backup software should support data-masking strategies for Oracle database table columns to hide sensitive data in a non-production environment, such as a test or development system.	Requesting LIC to remove "data-masking strategies at backup", this is favouring specific vendor	Please refer to Corrigendum
Clause 4-Page 38	60% of the cost of Hardware items and 80% of Software items of the Commercial Bid Format at Annexure-VI shall be paid after delivery of entire solution (software, hardware, warranty & maintenance with OEM and peripherals as per scope) at the specified locations mentioned in the PO. 30% of the cost of Hardware items and 20% of the cost of software items in Annexure-VI- Commercial Bid shall be paid on Go-Live date. Go-Live will be reckoned as the production implementation date backup solution after successful Installation and integration, acceptance testing and documentation of entire solution at the locations specified as per the scope of work. 10% of the cost of Hardware items of the Commercial Bid Form at Annexure-VI shall be paid after 3 months of Go-Live date and after submitting documentation on any Configuration changes/ modifications done after Go-Live and after completion of training.	80% of the cost of Hardware items and 80% of Software items of the Commercial Bid Format at Annexure-VI shall be paid after delivery of entire solution (software, hardware, warranty & maintenance with OEM and peripherals as per scope) at the specified locations mentioned in the PO. 20% of the cost of Hardware items and 20% of the cost of software items in Annexure-VI- Commercial Bid shall be paid on Go-Live date. Go-Live will be reckoned as the production implementation date backup solution after successful Installation and integration, acceptance testing and documentation of entire solution at the locations specified as per the scope of work. Since there is already a Bank Guarantee there is no need of 10% retention after Go-Live.	Please refer to Corrigendum
Clause 6.5-page 42	Backup speed is 12 TB per hour (for uncompressed backups) is to be achieved.	Request this to be amended as follows: Backup speed of 10 TB per hour (for uncompressed backups) is to be achieved.	Please refer to Corrigendum
Clause 6.5-page 42	Table 3	Request the Table 3 be modified accordingly as per Backup speed of 10 TB per hour	Please refer to Corrigendum
Clause 7-page 44	Project Schedule: 1. Delivery of hardware, software, licenses etc. - 4 to 6 weeks	Request following changes to the Project Schedule: 1. Delivery of hardware, software, licenses etc. - 8 to 12 weeks	Please refer to Corrigendum
Clause 7-page 44	Project Schedule: 2. Project Completion period at DC, Mumbai. installation, commissioning, integration, testing of backup solution - 6 to 10 weeks	Project Schedule: 2. Project Completion period at DC, Mumbai. installation, commissioning, integration, testing of backup solution - 12 - 20 weeks	Please refer to Corrigendum
Clause 7-page 44	Project Schedule: 3. Project Completion period at DR Site, Bangalore Colo i.e. installation, commissioning, integration, testing of backup and sync solution. - 6 to 14 weeks	Project Schedule: 3. Project Completion period at DR Site, Bangalore Colo i.e. installation, commissioning, integration, testing of backup and sync solution. - 12 - 28 weeks	Please refer to Corrigendum
Annexure 4-page 49	Annexure-IV: Manufacturer's authorization letter (i.e. MAF) from respective OEMs**	Request LIC to accept OEM Standard MAF Format rather than the one specified in the RFP. Format can be provided by each OEM	LIC may consider accepting the OEM Standard MAF format, provided that it includes all necessary undertakings and assurances required in alignment with the intent of the RFP. Please refer to the corrigendum.
Annexure – XII-page 66	Sr No 1 The proposed Storage Appliances for each site should be capable of being directly mounted (at each sites) as a partition on Exadata server by directly connecting Storage Appliance to Exadata Primary Database servers (Exadata X7-2servers) and Standby Database Servers(Exadata X9M-2 HC servers) through point-to-point fiber-channel network connection without connecting thru current Dell unified switch (Please see proposed network connection diagram under schedule-3)	Request to please change "point-to-point fiber-channel network" to "point-to-point optical fiber network" Or "QSFP28 Copper cables" in place of	Please refer to Corrigendum

Section B-page 9	Bidder must have minimum turnover of Rs.100 Crores in each of the following three financial years i.e. 2021-2022, 2022-2023, 2023-2024. Bidder should have made profit (before tax) in each of the following three financial year's i.e. 2021-2022 and 2022-2023, 2023-2024	Kindly change the turnover requirement to "Average 45 crores" for the last 3 years for MSME bidders	Please refer to Corrigendum
Section B-page 10	Bidder must have supplied and configured Backup solutions involving Backup Storage (Appliance), Backup software and LTO Tape libraries to at least 5 customers, In the last 5 financial years preceding the date of this RFP. At least three among these should be provided to Government Departments/PSU/BFSI sector companies.	Kindly relax this clause for MSME bidders or reduce the number of customers from 5 to 1	No Change . Please be guided by RFP conditions
Section B-page 10	Bidder must have experience in maintaining the backup solution for 3 different entities in the last three years. All should be from Govt Dept /PSU / BFSI Sector.	Kindly relax this clause for MSME bidders or reduce the number of customers from 3 to 1. Also please allow customer letter as proof in lieu of purchase order.	No Change . Please be guided by RFP conditions and corrigendum.
Clause 4-page 38	60% of the cost of Hardware items and 80% of Software items of the Commercial Bid Format at Annexure-VI shall be paid after delivery of entire solution (software, hardware, warranty & maintenance with OEM and peripherals as per scope) at the specified locations mentioned in the PO. 30% of the cost of Hardware items and 20% of the cost of software items in Annexure-VI- Commercial Bid shall be paid on Go-Live date. Go-Live will be reckoned as the production implementation date backup solution after successful Installation and integration, acceptance testing and documentation of entire solution at the locations specified as per the scope of work. 10% of the cost of Hardware items of the Commercial Bid Form at Annexure-VI shall be paid after 3 months of Go-Live date and after submitting documentation on any Configuration changes/ modifications done after Go-Live and after completion of training.	80% of the cost of Hardware items and 80% of Software items of the Commercial Bid Format at Annexure-VI shall be paid after delivery of entire solution (software, hardware, warranty & maintenance with OEM and peripherals as per scope) at the specified locations mentioned in the PO. 20% of the cost of Hardware items and 20% of the cost of software items in Annexure-VI- Commercial Bid shall be paid on Go-Live date. Go-Live will be reckoned as the production implementation date backup solution after successful Installation and integration, acceptance testing and documentation of entire solution at the locations specified as per the scope of work. Since there is already a Bank Guarantee there is no need of 10% retention after Go-Live.	Please refer to Corrigendum
Clause 6.5-page 42	Backup speed is 12 TB per hour (for uncompressed backups) is to be achieved.	Request this to be amended as follows: Backup speed of 10 TB per hour (for uncompressed backups) is to be achieved.	Please refer to Corrigendum
Clause 6.5-page 42	Table 3	Request the Table 3 be modified accordingly as per Backup speed of 10 TB per hour	Please refer to Corrigendum
Clause 7-page 44	Project Schedule: 1. Delivery of hardware, software, licenses etc. - 4 to 6 weeks	Request following changes to the Project Schedule: 1. Delivery of hardware, software, licenses etc. - 8 to 12 weeks	Please refer to Corrigendum
Clause 7-page 44	Project Schedule: 2. Project Completion period at DC, Mumbai. installation, commissioning, integration, testing of backup solution - 6 to 10 weeks	Project Schedule: 2. Project Completion period at DC, Mumbai. installation, commissioning, integration, testing of backup solution - **6 to 10 weeks (Partner to suggest this appropriately)**	Please refer to Corrigendum
Clause 7-page 44	Project Schedule: 3. Project Completion period at DR Site, Bangalore Colo i.e. installation, commissioning, integration, testing of backup and sync solution. - 6 to 14 weeks	Project Schedule: 3. Project Completion period at DR Site, Bangalore Colo i.e. installation, commissioning, integration, testing of backup and sync solution. - **6 to 14 weeks (Partner to suggest this appropriately)**	Please refer to Corrigendum
Annexure 4-page 49	Annexure-IV: Manufacturer's authorization letter (i.e. MAF) from respective OEMs**	Request LIC to accept OEM Standard MAF Format rather than the one specified in the RFP. Format can be provided by each OEM	LIC may consider accepting the OEM Standard MAF format, provided that it includes all necessary undertakings and assurances required in alignment with the intent of the RFP. Please refer to the Corrigendum issued.

Annexure – XII-page 66	Sr No 1 The proposed Storage Appliances for each site should be capable of being directly mounted (at each sites) as a partition on Exadata server by directly connecting Storage Appliance to Exadata Primary Database servers (Exadata X7-2servers) and Standby Database Servers(Exadata X9M-2 HC servers) through point-to-point fiber-channel network connection without connecting thru current Dell unified switch (Please see proposed network connection diagram under schedule-3)	Request to please change "point-to-point fiber-channel network" to "point-to-point optical fiber network" Or "QSFP28 Copper cables" in place of	Please refer to Corrigendum
34, 2.22 insurance-page 34	Obligation to Maintain Insurance In connection with the provision of the Services, the Vendor must have and maintain for the Contract Period, valid and enforceable insurance policies for: public liability; either professional indemnity or errors and omissions; workers' compensation as required by law.	Please explain coverage area for Public Liability, Professional Indemnity Worker's Compensation.	Public Liability Insurance: Should cover liabilities arising from third-party bodily injury, property damage, or other claims occurring in connection with the services provided. Professional Indemnity (or Errors & Omissions) Insurance: Should cover claims related to professional negligence, errors, or omissions in the services delivered by the Vendor. Workers' Compensation Insurance: Should comply with applicable labor laws and provide coverage for employee injuries, medical expenses, and compensation as per statutory requirements.
4,Payment Terms	60% of the cost of Hardware items and 80% of Software items of the Commercial Bid Format at Annexure-VI shall be paid after delivery of entire solution (software, hardware, warranty & maintenance with OEM and peripherals as per scope) at the specified locations mentioned in the PO.	Please align Hardware items payment term with Software items payment terms.	Please refer to corrigendum
System Uptime required and its applicable penalties	**System Uptime required and its applicable penalti**es Penalty cap for a quarter shall be a maximum of 15% of the Total AMC Bill for a quarter. Penalty will be deducted from any amount payable to the Vendor or invoking the performance Bank Guarantee	15% Penalty cap is on higerside please revise it to 5%	Please refer to corrigendum
8. Liquidated damages page 44	**8. Liquidated damages** If Service Provider fails to deliver product and/or perform any or all the Services within the stipulated time, schedule as specified in this Agreement, LIC may, without prejudice to its other remedies under the Agreement, and unless otherwise extension of time is agreed upon without the application of liquidated damages, deduct from the Project Cost, as liquidated damages a sum equivalent to 12 % of total Project Cost for delay of each week or part thereof maximum up to 100 % of total Project Cost. Once the maximum deduction is reached, LIC may consider termination of the Agreement	12% Penalty cap is on higerside please revise it to 5%	Please refer to corrigendum
2.34 page 36	**Addition and Deletion in Inventory:** Based on the movement/ shifting/Buyback of Hardware items or due to any other reasons, there may be addition or removal of Hardware items in the AMC Inventory of the Vendor where the possibility is remote. Such changes will be affected in the Hardware Inventory will be informed to the Vendor. The AMC for such Hardware items will be calculated on pro-rata basis for the effective period. However, such situations will be remote wherein a new hardware will be added in the existing setup.	Whether the vendor has to support any additional items in the AMC other than the mentioned BOM supplied through this tender?	Bidder has to provide AMC for the items supplied by him under this RFP as per the RFP terms anc conditions mentioned .
3.1 Maintenance and servicing page 36	b) Spares, consumables and support for the hardware should be made available from Principal Vendor (OEM).	Whether all the support calls to be attended by OEM engineers?	No. Support calls will be registered with Vendor
3.1 Maintenance and servicing page 37	g) Wherever any system has to be shifted from one LIC location to another, as decided by LIC, the Vendor is required to uninstall / reinstall and maintain the system/s at the new location, without any extra cost on account of reinstallation.	Assume the shifting charges shall be borne by LIC, kindly confirm.	Shifting charges will be borne by LIC
	General Query	Any training to be provided to LIC team? Kindly share the details.	Please refer to corrigendum

Clause 4 page 38	60% of the cost of Hardware items and 80% of Software items of the Commercial Bid Format at Annexure-VI shall be paid after delivery of entire solution (software, hardware, warranty & maintenance with OEM and peripherals as per scope) at the specified locations mentioned in the PO. 30% of the cost of Hardware items and 20% of the cost of software items in Annexure-VI- Commercial Bid shall be paid on Go-Live date. Go-Live will be reckoned as the production implementation date backup solution after successful Installation and integration, acceptance testing and documentation of entire solution at the locations specified as per the scope of work. 10% of the cost of Hardware items of the Commercial Bid Form at Annexure-VI shall be paid after 3 months of Go-Live date and after submitting documentation on any Configuration changes/ modifications done after Go-Live and after completion of training.	80% of the cost of Hardware items and 80% of Software items of the Commercial Bid Format at Annexure-VI shall be paid after delivery of entire solution (software, hardware, warranty & maintenance with OEM and peripherals as per scope) at the specified locations mentioned in the PO. 20% of the cost of Hardware items and 20% of the cost of software items in Annexure-VI- Commercial Bid shall be paid on Go-Live date. Go-Live will be reckoned as the production implementation date backup solution after successful Installation and integration, acceptance testing and documentation of entire solution at the locations specified as per the scope of work. Since there is already a Bank Guarantee there is no need of 10% retention after Go-Live.	Please refer to Corrigendum
Clause 6.5 Page 42	Backup speed is 12 TB per hour (for uncompressed backups) is to be achieved.	Request this to be amended as follows: Backup speed of 10 TB per hour (for uncompressed backups) is to be achieved.	Please refer to Corrigendum
Clause 6.5 page 42	Table 3	Request the Table 3 be modified accordingly as per Backup speed of 10 TB per hour	Please refer to Corrigendum
Clause 7 page 44	Project Schedule: 1. Delivery of hardware, software, licenses etc. - 4 to 6 weeks	Request following changes to the Project Schedule: 1. Delivery of hardware, software, licenses etc. - 8 to 12 weeks	Please refer to Corrigendum
Clause 7 page 44	Project Schedule: 2. Project Completion period at DC, Mumbai. installation, commissioning, integration, testing of backup solution - 6 to 10 weeks	Project Schedule: 2. Project Completion period at DC, Mumbai. installation, commissioning, integration, testing of backup solution - 6 to 12 weeks	Please refer to Corrigendum
Clause 7 page 44	Project Schedule: 3. Project Completion period at DR Site, Bangalore Colo i.e. installation, commissioning, integration, testing of backup and sync solution. - 6 to 14 weeks	Project Schedule: 3. Project Completion period at DR Site, Bangalore Colo i.e. installation, commissioning, integration, testing of backup and sync solution. - 6 to 16 weeks	Please refer to Corrigendum
Annexure 4 page 49	Annexure-IV: Manufacturer's authorization letter (i.e. MAF) from respective OEMs**	Request LIC to accept OEM Standard MAF Format rather than the one specified in the RFP. Format can be provided by each OEM	LIC may consider accepting the OEM Standard MAF format, provided that it includes all necessary undertakings and assurances required in alignment with the intent of the RFP. Please refer to the Corrigendum issued.
Annexure – XII page 66	Sr No 1 The proposed Storage Appliances for each site should be capable of being directly mounted (at each sites) as a partition on Exadata server by directly connecting Storage Appliance to Exadata Primary Database servers (Exadata X7-2servers) and Standby Database Servers(Exadata X9M-2 HC servers) through point-to-point fiber-channel network connection without connecting thru current Dell unified switch (Please see proposed network connection diagram under schedule-3)	Request to please change "point-to-point fiber-channel network" to "point-to-point optical fiber network" Or "QSFP28 Copper cables" in place of	Please refer to Corrigendum
Clause 4 Page 38	60% of the cost of Hardware items and 80% of Software items of the Commercial Bid Format at Annexure-VI shall be paid after delivery of entire solution (software, hardware, warranty & maintenance with OEM and peripherals as per scope) at the specified locations mentioned in the PO. 30% of the cost of Hardware items and 20% of the cost of software items in Annexure-VI- Commercial Bid shall be paid on Go-Live date. Go-Live will be reckoned as the production implementation date backup solution after successful Installation and integration, acceptance testing and documentation of entire solution at the locations specified as per the scope of work. 10% of the cost of Hardware items of the Commercial Bid Form at Annexure-VI shall be paid after 3 months of Go-Live date and after submitting documentation on any Configuration changes/ modifications done after Go-Live and after completion of training.	80% of the cost of Hardware items and 80% of Software items of the Commercial Bid Format at Annexure-VI shall be paid after delivery of entire solution (software, hardware, warranty & maintenance with OEM and peripherals as per scope) at the specified locations mentioned in the PO. 20% of the cost of Hardware items and 20% of the cost of software items in Annexure-VI- Commercial Bid shall be paid on Go-Live date. Go-Live will be reckoned as the production implementation date backup solution after successful Installation and integration, acceptance testing and documentation of entire solution at the locations specified as per the scope of work. Since there is already a Bank Guarantee there is no need of 10% retention after Go-Live.	Please refer to Corrigendum
Clause 6.5 Page 42	Backup speed is 12 TB per hour (for uncompressed backups) is to be achieved.	Request this to be amended as follows: Backup speed of 10 TB per hour (for uncompressed backups) is to be achieved.	Please refer to Corrigendum

Clause 6.5 page 42	Table 3	Request the Table 3 be modified accordingly as per Backup speed of 10 TB per hour	Please refer to Corrigendum
Clause 7 page 44	Project Schedule: 1. Delivery of hardware, software, licenses etc. - 4 to 6 weeks	Request following changes to the Project Schedule: 1. Delivery of hardware, software, licenses etc. - 8 to 12 weeks	Please refer to Corrigendum
Clause 7 page 44	Project Schedule: 2. Project Completion period at DC, Mumbai. installation, commissioning, integration, testing of backup solution - 6 to 10 weeks	Project Schedule: 2. Project Completion period at DC, Mumbai. installation, commissioning, integration, testing of backup solution - **6 to 10 weeks (Partner to suggest this appropriately)**	Please refer to Corrigendum
Clause 7 page 44	Project Schedule: 3. Project Completion period at DR Site, Bangalore Colo i.e. installation, commissioning, integration, testing of backup and sync solution. - 6 to 14 weeks	Project Schedule: 3. Project Completion period at DR Site, Bangalore Colo i.e. installation, commissioning, integration, testing of backup and sync solution. - **6 to 14 weeks (Partner to suggest this appropriately)**	Please refer to Corrigendum
Annexure 4 page 44	Annexure-IV: Manufacturer's authorization letter (i.e. MAF) from respective OEMs**	Request LIC to accept OEM Standard MAF Format rather than the one specified in the RFP. Format can be provided by each OEM	LIC may consider accepting the OEM Standard MAF format, provided that it includes all necessary undertakings and assurances required in alignment with the intent of the RFP. Please refer to the Corrigendum issued.
Annexure – XII page 66	Sr No 1 The proposed Storage Appliances for each site should be capable of being directly mounted (at each sites) as a partition on Exadata server by directly connecting Storage Appliance to Exadata Primary Database servers (Exadata X7-2servers) and Standby Database Servers(Exadata X9M-2 HC servers) through point-to-point fiber-channel network connection without connecting thru current Dell unified switch (Please see proposed network connection diagram under schedule-3)	Request to please change "point-to-point fiber-channel network" to "point-to-point optical fiber network" Or "QSFP28 Copper cables" in place of	Please refer to Corrigendum
Annexure – XII: Technical Requirements for RFP for procurement of Backup solution for ODS project of LIC of India Pg 67 RFP Point -c) Scalability and Connectivity,sub-point- 5	The storage system must support 22TB SAS-3 7.2K RPM hard disk drive.	Please confirm if an 8TB disk size across the entire enclosure is acceptable. As this configuration may be vendor-specific.	The specification is modified as -- The storage system must support 22 TB or higher capacity SAS-3 hard disk drive. Please refer to the corrigendum issued.
Annexure – XII: Technical Requirements for RFP for procurement of Backup solution for ODS project of LIC of India Pg 68 RFP Point -d) Software Features and Backup Services requirements,sub-point-16	The storage system support replication on-disk compressed data as is over the write, node compression/recompression when doing replication.	Need more Clarity on the point	The specification means that storage system should be able to replicate compressed data directly in its compressed form, without needing to decompress it first during the write or replication process

Annexure – XII: Technical Requirements for RFP for procurement of Backup solution for ODS project of LIC of India Pg 69 RFP Point -d) Software Features and Backup Services requirements,sub-point-21	The storage should support object API for Oracle Cloud Infrastructure Object Storage that enables touse the same applications on both on-premises on the storage and in the cloud on Oracle Cloud Infrastructure Object Storage.	To clarify your requirement, are you expecting the backup solution to integration with OCI Object Storage strictly for backup and LTR purposes?	This requirement has been removed. Please refer to the Corrigendum.
Annexure – XII: Technical Requirements for RFP for procurement of Backup solution for ODS project of LIC of India Pg 69 RFP Point -d) Software Features and Backup Services requirements,sub-point-22	The storage should support data retention policy on Oracle Cloud Infrastructure object, snapshot, and share/file retention policies for legal hold, data governance, or regulatory compliance.	Need more Clarity on the point. Could you please clarify whether you expect the backup solution itself to manage and enforce retention, legal hold, and governance policies directly within Oracle Cloud Infrastructure services (such as object storage, snapshots, and file shares) as these features are typically handled through OCI's built-in data governance tools, which can be used in parallel with backup solution.	Storage system should support object store in public cloud which will support retention policies for legal hold , governance policies and regulatory compliance
Annexure – XII: Technical Requirements for RFP for procurement of Backup solution for ODS project of LIC of India Pg 69 RFP Point -e) Monitoring, Notification and Management,sub-point-3	The storage system must support dynamic change configuration (no downtime). For example, segment/block size change, enable/disable SSD resource, enable/disable compression & de-duplication.	Once the Deduplication or Compression is enabled, disabling may impact the backup set. **Remove enable/disable compression & deduplication.**	This requirement has been removed. Please refer to the Corrigendum.
Annexure – XII: Technical Requirements for RFP for procurement of Backup solution for ODS project of LIC of India Pg 69 RFP Point -e) Monitoring, Notification and Management,sub-point-6	The storage system should support discovery, management and configuration using the iSNS protocol.	Most of PBBA vendors does not rely on the iSNS protocol for discovery or configuration, as it is not designed to function as an iSCSI-based storage system. Instead, it provides robust storage and network management capabilities through its integrated management interface and APIs tailored for modern data protection workflows. **Requesting modification to this point to state that the storage system should support iSNS or an equivalent capability, such as an integrated management interface and APIs designed for modern data protection workflows.**	The specification is modified as below -- storage system should support iSNS or an equivalent capability, such as an integrated management interface and APIs designed for modern data protection workflows. Please refer to the corrigendum issued.
Annexure – XII: Technical Requirements for RFP for procurement of Backup solution for ODS project of LIC of India Pg 69 RFP Point -f) Data Protection Features,sub-point-4	The storage system should support multi-pathing - IP multi-pathing (IPMP) and I/O multi-pathing to Disk arrays.	Most of the Vendors supports multi-pathing ensuring high availability and path failover. This point referring to IPMP is more vendor specific (solaris). **Instead the storage appliance should offers network redundancy and load balancing through interface bonding, achieving comparable resilience for network connectivity.**	No change in requirement. Please be guided by RFP. IPMP and I/O multi-pathing is expected to be an inherent feature of Storage appliance for performance and Bandwidth utilization.

Annexure – XII: Technical Requirements for RFP for procurement of Backup solution for ODS project of LIC of India Pg 70 RFP Point -f) Data Protection Features,sub-point-8	The storage system should support independent retention policies for auto generated snapshots on Source and target.	Need more Clarity on the point	This specification means that Each storage snapshot generated should allow independent retention policies to be applied.
Annexure – XII: Technical Requirements for RFP for procurement of Backup solution for ODS project of LIC of India Pg 71 RFP Point -2. Backup software specifications,sub-point-5. Retention Policies and Backup Management:	RMAN retention policies should take precedence over backup software policies	In backup solution, backup image retention is governed by backup policies. While RMAN can specify retention expectations, the actual retention is enforced by backup solution. **To align both systems, it is recommended to configure backup retention settings to match or exceed RMAN's retention policies**	No change in requirement. Please be guided by RFP. When Oracle RMAN is interfaced with Backup software , the backup software should have configuration to allow RMAN retention policies to dominate over Backup software retention policies
Annexure – XII: Technical Requirements for RFP for procurement of Backup solution for ODS project of LIC of India Pg 71 RFP Point -2. Backup software specifications,sub-point-5. Retention Policies and Backup Management:	The backup software should support configuration for RMAN retention policies (e.g., recovery window, redundancy) to override the retention policies of backup software	In backup solution, backup image retention is governed by backup policies. While RMAN can specify retention expectations, the actual retention is enforced by backup solution. **To align both systems, it is recommended to configure backup retention settings to match or exceed RMAN's retention policies**	No change in requirement. Please be guided by RFP. When Oracle RMAN is interfaced with Backup software , the backup software should have configuration to allow RMAN retention policies to dominate over Backup software retention policies
Annexure – XII: Technical Requirements for RFP for procurement of Backup solution for ODS project of LIC of India Pg 71 RFP Point -2. Backup software specifications,sub-point-5. Retention Policies and Backup Management:	Maintenance tasks like cross-check and delete obsolete should be scheduled and configured within the backup software.	RMAN maintenance tasks such as CROSSCHECK and DELETE OBSOLETE are Oracle-specific operations and are typically managed within the Oracle environment. **Backup solution can be integrated via scheduled through Oracle tools or system-level schedulers, ensuring consistent and automated maintenance**	No change in requirements . Please be guided by RFP. In scenarios where RMAN is interfaced with Backup software , the Backup software should have the capability to configure the scheduling and execution of all RMAN backup maintenance activities like crosscheck backup , delete obsolete etc.

Annexure – XII: Technical Requirements for RFP for procurement of Backup solution for ODS project of LIC of India Pg 74 RFP Point -13. Backup Software- Other Specifications,sub-point-13. Backup Software-Other Specifications	The proposed backup software should support data-masking strategies for Oracle database table columns to hide sensitive data in a non-production environment, such as a test or development system.	Data masking is typically handled at the database layer using Oracle's Data Masking and Subsetting tools or third-party solutions. Need to remove the point.	Please refer to Corrigendum
Annexure – XII: Technical Requirements for RFP for procurement of Backup solution for ODS project of LIC of India Pg 74 RFP Point -13. Backup Software- Other Specifications,sub-point-13. Backup Software-Other Specifications	The proposed software should have a security dashboard with cyber security solution that includes: (a) Machine-learning-based prevention mechanism to prevent against cyber threats. (b) Behaviour analysis for ransomware detection and protection with encryption rollback. (c) Ransomware protection and Malware detection functionality (d) Alert mechanism in the event of detection of any anomaly	Backup solution should be focussed on rapid recovery of clean backup copies to minimize impact and restore operations securely. Hence modify the point to just :(b) Behaviour analysis for ransomware detection	No change in requirement. Please be guided by the RFP
Annexure – XII: Technical Requirements for RFP for procurement of Backup solution for ODS project of LIC of India Pg 77 RFP Point -"3. Media Server specifications - Description of Requirement" ,sub-point-Firmware security	For firmware security, system should support remote management chip creating a fingerprint in the silicon, preventing servers from booting up unless the firmware matches the fingerprint. This feature should be immutable	Most of PBBA vendors might not natively implement silicon-based firmware fingerprinting or prevent boot based on immutable firmware signatures. However, the appliance is built on enterprise-class hardware that may include platform-level security features from the OEM (e.g., secure boot, firmware verification). **Hence the point needs modification as** **For firmware security, system should support remote management chip creating a fingerprint in the silicon, preventing servers from booting up unless the firmware matches the fingerprint or eqvivalent capacility like secure boot and firmware verification. The appliance should support lockdown capaibilities.**	The requirement pertains to Media Servers, not PBBA. No change in requirement. Please be guided by specifications in RFP
Annexure – XII: Technical Requirements for RFP for procurement of Backup solution for ODS project of LIC of India Pg 78 RFP Point - "3. Media Server specifications - Description of Requirement" sub point-Server Management	Zero Touch Provisioning (ZTP) using SSDP with remote access	Need more clarity	No change in requirement. Please be guided by the specifications mentioned in RFP. ZTP is an automated process that configures a network device without requiring any interaction from the user, except for physically connecting the device to the network and powering it on.

Backup Appliance/Storage technical specifications-Page No.66,Clause No.1	The proposed Storage Appliances for each site should be capable of being directly mounted (at each sites) as a partition on Exadata server by directly connecting Storage Appliance to Exadata Primary Database servers (Exadata X7-2servers) and Standby Database Servers(Exadata X9M-2 HC servers)	The Current exadata setup intigrated with recovery appliance only or other DB also Intigrated with appliance need DBs details which intigrate with Appliance	In the existing setup , all database backups are taken to Dell appliance DD6800 which is connected through Dell unified switch . The databases being backed up are Production database, SMS database, UAT database and Catalog Database at each locations to existing local Backup Appliance DD6800
Backup Appliance/Storage technical specifications-Page No.67,Clause No.8	The proposed Storage system should be certified by Oracle to work with Oracle Exadata systems	Exact how much usable storage required for backup Solution	Please refer to RFP page no-74 -1.-Backup Appliance/Storage technical specifications-1(g)-- other features- "Storage Capacity 340 TB Usable RAID(1/0) Or Mirror"
Scalability and Connectivity,Page No.67,Clause No.7	The storage system should be mountable on existing Exadata X7-2 rack at Primary site and Exadata X9M-2-HC rack at DR site	Recovery applince will be separate rack so Space should be available in Datacenter	The entire backup solution hardware should fit in available 24 U rack space under Non-exadata rack(rack space available after decommissioning the existing Backup system components). Please refer to the Corrigendum issued.
Software Features and Backup Services requirements-Page No.68,Clause No.4	The storage system should be able to backup Transparent Data Encrypted enabled database's backup of Oracle Databases using Oracle RMAN backup	Data Backup and Restoration connectivity required SAN also	Please refer to Annexure-XII -Technical Requirements-a) General features -1. Backup Appliance/Storage technical specifications. Point 1 and 2. Please refer to corrigendum issued on point-to-point connectivity
Monitoring, Notification and Management.Page No.69,Clause No.4	The storage system should provide automated serviceability using Call Home feature	Recovery Appliance intigrate with enterprise manager for Alerting	No change in requirements. Please be guided by RFP . Automated serviciability using Call Home facility to be provided as feature in respective product
Monitoring, Notification and Management.Page No.69,Clause No.9	The storage system must provide or support a single management console to manage both cloud and on-prem environments that allows administrators to manage their Storage resources in the cloud along with their on-premises resources, providing a unified management platform for distributed cloud environments	want to know Cloud DB Runing in your environment	Currently there are no Cloud DBs. Requirement is for futuristic needs.
Recovery Appliance.Page No.70- Clause No.1	The storage system should support virus scanning and quarantine capabilities. At least should support popular anti-virus software like Symantec, McAfee, CA etc.	Recovery appliance no need to installed Anivires it has incrypted backup	This is Security audit & compliance requirement. No change in requirement.Please be guided by RFP.
Recovery Appliance,Page No.70,Clause No.2	Backup and Recovery for Oracle Database and Flat Files	File system Backup also required	Please refer to RFP for requirement on flat file backups
Primary and Standby Database Architecture:Page No.71,Clause No.3	Backup should be executed through direct Optical Fiber connections between Exadata servers and storage appliances (disk-to-disk).	Recovery Appliace connecting through Network or SAN	Please refer to Annexure-XII -Technical Requirements-a) General features -1. Backup Appliance/Storage technical specifications. Point 1 and 2. Please refer to corrigendum issued on point-to-point connectivity
Pre-bid Queries raised Pre-bid during meeting held on 28.03.2024			
RFP Document Reference(s) (Section & Page Number)	**Clause (in brief) of RFP requiring clarification(s)**	**Brief details/ Query in reference to the clause**	**LIC Response**
Section B Minimum Eligibility Criteria (MEC) [Stage I Evaluation] Point (3) Page No - 10	Bidder must have supplied and configured Backup solutions involving Backup Storage (Appliance), Backup software and LTO Tape libraries to at least 5 customers, In the last 5 financial years preceding the date of this RFP. At least three among these should be provided to Government Departments/PSU/BFSI sector companies.	Relaxation of eligibility Criteria from 5 to 3 customers.	Please be guided by the RFP.
Annexure – XII 1(d) Point No-21 Page No- 69	The storage should support object API for Oracle Cloud Infrastructure Object Storage that enables touse the same applications on both on-premises on the storage and in the cloud on Oracle Cloud Infrastructure Object Storage.	Clarification Asked	This requirement is removed. Please refer to Corrigendum.
Annexure – XII 1(d) Point No-22 Page No-69	The storage should support data retention policy on Oracle Cloud Infrastructure object, snapshot, and share/file retention policies for legal hold, data governance, or regulatory compliance.	Clarification Asked	Storage system should support object store in public cloud which will support retention policies for legal hold , governance policies and regulatory compliance
Annexure – XII 1(e) Point No-3 Page No-69	The storage system must support dynamic change configuration (no downtime). For example, segment/block size change, enable/disable SSD resource, enable/disable compression & de-duplication.	Clarification Asked	This requirement is removed. Please refer to Corrigendum.

Annexure – XII 1(e) Point No-6 Page No-69	The storage system should support discovery, management and configuration using the iSNS protocol.	Clarification Asked	The specification is modified as below -- storage system should support iSNS or an equivalent capability, such as an integrated management interface and APIs designed for modern data protection workflows. Please refer to the corrigendum issued.
Annexure – XII 1(f) Point No-4 Page No-69	The storage system should support multi-pathing - IP multi-pathing (IPMP) and I/O multi-pathing to Disk arrays.	Clarification Asked	No change in requirement. Please be guided by RFP. IPMP and I/O multi-pathing is expected to be an inherent feature of Storage appliance for performance and Bandwidth utilization.
Annexure – XII 1(f) Point No-8 Page No-70	The storage system should support independent retention policies for autogenerated snapshots on Source and target.	Clarification Asked	This specification means that Each storage snapshot generated should allow independent retention policies to be applied.
Annexure – XII 2(13) Page No- 74	(b) Behaviour analysis for ransomware detection and protection with encryption rollback.	Request to remove	No change in requirement. Please be guided by RFP.
Firmware security Point No-2 Page No- 77	Should maintain repository for firmware and drivers recipes to aid rollback or patching of compromised firmware. Should also store Factory Recovery recipe preloaded to rollback to factory tested secured firmware	Clarification Asked	No change in requirement. Please be guided by the specifications mentioned in RFP. Maintaining a repository of firmware and driver versions, along with a factory recovery recipe, ensures that compromised or outdated server components can be quickly rolled back or patched to a secure, tested state
Server Management Page No- 78	Zero Touch Provisioning (ZTP) using SSDP with remote access	Clarification Asked	No change in requirement. Please be guided by the specifications mentioned in RFP. ZTP is an automated process that configures a network device without requiring any interaction from the user, except for physically connecting the device to the network and powering it on.
Annexure – XII 1(d) Point No- 16	The storage system support replication on-disk compressed data as is over the write, node compression/recompression when doing replication.	Clarification Asked	This specification means that storage system should be able to replicate compressed data directly in its compressed form, without needing to decompress it first during the write or replication process
Annexure – XII 1(a) Point No- 16	The storage system should be available as both an on-premises appliance and a cloud image that can be installed on a compute instance to provide storage	Clarification Asked	No change in requirement. Please be guided by RFP. Capability required for future need.
Annexure – XII 1(a) Point No- 18	The proposed Storage system should be certified by Oracle to work with Oracle Exadata systems	Clarification Asked	The requirement is modified as follows: The proposed Storage system should be compatible to work with Oracle Exadata systems. Please refer to the corrigendum issued.
Schedule -1 Section - C Point No - 38 Page No-86	The solution should support backup data integrity validation through checksums and hash verification mechanisms.	Clarification Asked	Solution proposed shall have the ability to verify that the backup data is correct and hasn't been tampered with during the backup process or storage.
Annexure – XII 2(13) Point No - 3 Page No- 73	The proposed Integrated solution (Backup Software and De-Dupe Appliance) must be provided by a single OEM to ensure ownership of design and support. It must be with the single OEM support and must be implemented by Single OEM.		The requirement is modified as follows: The proposed Integrated solution (Backup Software and De-Dupe Appliance) must be provided by a single Bidder to ensure ownership of design and support. It must be with the respective OEM support and must be implemented by Single Bidder. Please refer to the corrigendum issued.
Annexure – XII 4 Scalability Page No- 79	Tape Library shall be scalable to minimum of 48 number of LTO-9 drives	Change 48 to 24	No change in requirement. Please be guided by RFP
Annexure – XII 1(13) Point No - 12 Page No-74	The proposed backup software should support data-masking strategies for Oracle database table columns to hide sensitive data in a non-production environment, such as a test or development system.		Please refer to Corrigendum
PDU Socket types	Type of sockets in PDU		The Socket currently used in DC sites is -- IEC socket PDU smaller socket C13
Section B Minimum Eligibility Criteria (MEC) [Stage I Evaluation] Point (3) Page No - 10	Bidder must have supplied and configured Backup solutions involving Backup Storage (Appliance), Backup software and LTO Tape libraries to at least 5 customers, In the last 5 financial years preceding the date of this RFP. At least three among these should be provided to Government Departments/PSU/BFSI sector companies.	Bidders want to make experience in supply and configuration of LTO Tape libraries optional.	Please refer to Corrigendum issued.