Bid Number: GEM/2022/B/1849240 Dated: 17-01-2022 - Purchase of Backup software Solution for Backup of Data at GSDC
Final Clarifications/ Corrigendum 3 (7.02.2022)

S. N.	RFP Clause detail	Amendment Sought / Suggestion by bidder	Clarification/Corrigendum
1	13. Backup solution should provide capability from a web portal to allow search & restore a single file from complete backup and single table from DB backup.	Please modify the clause as " 13. Backup solution should provide capability from a web portal to allow search of backup images & also provide granular file and DB level recovery feature" **Justification:** Please note this clause is vendor specific. Backup software allows online DB recovery and table level recovery is done using DB tools and respective query language. Request department to modify the clause so that most of vendors can qualify and department will receive many comitative bids.	No change.
2	Ports - 4 x 10 G, FC (16/32 gbps) - 08, Should support LACP/aggregation of LAN ports	Ports - 4 x 10 G, FC (16/32 gbps) - 06, Should support LACP/aggregation of LAN ports **Justification:** Please note this clause is vendor specific. Most of the enterprise Backup PBBA/VTL comes with 6 FC cards at max and there is no real benefit of increasing the FC cards as most of the backup happens over 1/10Gbps LAN and FC cards are used for Tape-out for which 4-6 FC cards are enough to achieve any possible configuration. Request department to modify the clause so that most of vendors including us can qualify and department	**Revised -** Ports - 4 x 10 G, FC (16/32 gbps) - 06, Should support LACP/aggregation of LAN ports
3	Cache / RAM - Min. 256 GB / Controller	Cache / RAM - Min. 256 GB / Controller or Min 512 GB per Device. **Justification:** Please note RAM is per PBBA appliance and not per controller. Please allow both configurations as overall both provide 512GB as minimum as required by the department. Request department to modify the clause so that most of vendors including us can qualify and department	RAM 256 GB per controller/ 512 GB per appliance (for 2 controller appliance). If appliance having more than 2 controller then it should be in multiple of that. In case of controller failure, the asked performance should not be impacted.
4	New clause suggested	Proposed backup Device should provide Ransomware resiliency. It must provide secure immutable and indelible storage to protect data against cybercriminal intrusion and ransomware attacks. It should also have intrusion detection and prevention system (IDS and IPS) to protect a system from any attacks. **Justification:** Request department to include this clause as discussed and accepted during the pre-bid meeting. Security of backup images is a major concern as backup's are considered as last line of defence from ransomware attacks, so it should be fully protected from any deletion or updation.	No change.
5	Disk type and Size Min. 8 TB	We request to kindly remove the same, as Gil has already asked for capacity & performance requirement, so restricting to use minimum individual size of disk will give favour to few particular OEM and will be restrictive in nature.	No change.

6	Ports 4 x 10 G, FC (16/32 gbps) - 08, Should support LACP/aggregation of	We request to kindly remove the same , as GIL has already asked for performance and capacity, and also as per architecture SAN/Ethernet switch can be used in between the storage and host. Moreover the ports at controller level are in redundancy, hence LACP is not required	No change.
7	Cache / RAM Min 256 GB / Controller	We request to kindly change the same to 64 GB per controller, as GIL has already mentioned the capacity and desired performance along with required connectivity, hence we request to kindly reduce the cache requirement as with the new emerging technologies, it is possible to deliver desired capacity and performance with optimized sizing.	No change.
8	Minimum Specification for Backup Software solution, clause#18, page#4	Proposed backup software should be used on multiple Backup Servers. Please help understand if servers or VMs, Operating system etc. require to run backup software solution will be provided by Gujrat SDC.	As per Point 1 of specification, All hardware, Software, Licenses, rack, iPDU etc should be provided by Bidder only.