Bid Number: GEM/2022/B/1849240 Dated: 17-01-2022 - Purchase of Backup software Solution for Backup of Data at GSDC

#	Clause /Page no.	Existing Clause/Specification	Clarification sought with Justification	Final Clarifications
1.	1	The Proposed solution should having VTL/PBBA/storage and Backup software for usable size for backup of Source/frontend Data of 400 TB. License should be include all licenses for all backup/restore operations with 400 TB capacity based licenses. Purpose solution (backup appliance and backup software) should offered with 24x7- 5 years onsite warranty support. Selected Bidder has to supply all hardware, software, licenses, Rack with iPDU, cables and related accessories.	The Proposed solution should **be** having VTL **&** PBBA **capabilities with backup** storage and Backup software for usable size for backup of Source/frontend Data of 400 TB. (*General storage based solution is not acceptable*). License should be include all licenses for all backup/restore operations with 400 TB capacity based licenses. Purpose solution (backup appliance and backup software) should offered with 24x7- 5 years onsite warranty support. Selected Bidder has to supply all hardware, software, licenses, Rack with iPDU, cables and related accessories. Understand that GSDC is looking for the data protection solution with backup appliance and software. The current specification allows the general purpose storage as a part of backup solution. Hence request you to incorporate the proposed change so that only purpose built backup appliances are offered as a part of the solution.	No change. As per RFP
2.	5	The SI must submit the sizing certificate/detail report on OEM's letter head with seal & sign from the authorized signatory at the time of bid. Any additional capacity of any other component apart from 400 TB source/frontend data minimum usable capacity must be offered by the OEM/ bidder at the time of bid.	The proposed solution should be sized appropriately for 400 TB front end (60% DB & 40% FS) with 2% daily change rate and 10% YOY growth. Considering the below retention policies: a)　　　　Daily/Weekly:　　　　6　　　　Weeks b)　　　　Monthly:　　　　13　　　　Weeks c)　　　　Yearly:　　　　5　　　　years The SI must submit the sizing certificate/report on OEM's letter head with seal & sign from the authorized signatory at the time of bid. Any additional capacity of any other component apart from 400 TB minimum usable capacity must be offered by the OEM/bidder at the time of bid. Understand that GSDC is looking to buy the capacity considering the future data growth. Hence request you to incorporate the proposed change so that required capacities can be calculated and offered along with sizing certificate.	As per RFP Spec. Point No. 4,5 and parameter Already written existing retention policy, sizing certificate, and De-Sup ratio, so sizing should be done accordingly.
3.	8	Solution should support retention lock-Write Once Read Many feature which ensures that data is not deleted accidently or deliberately. Only super user (Even backup admin should not be capable) can delete/modify the data once retention is locked.	Solution Should support retention lock-Write Once Read Many feature which ensures that data is not deleted accidently or deliberately. Even administrator should not be capable to delete/modify the data once retention is locked. Understand that GSDC will be protecting the state critical data with the backup solution. Considering the various malicious attacks currently happening in the industry it is recommended to not allow a single user with data disruption	No change. As per RFP

			capabilities as it can impact the production as well as backup environment in the time of attack. Hence request you to incorporate the proposed change so a secure solution can be offered for state data center	
4.	16	Proposed backup software should include file archival feature to move historical data based on file attributes for long term retention	Proposed backup **Solution** should include **backup data** archival feature to move historical **backup** data based on **backup** file attributes for long term retention This specification is currently limiting. Hence request you to incorporate the propose change for wider participation.	Proposed backup **Solution** should include **backup data** archival feature to move historical **backup** data based on **backup** file attributes for long term retention
5.	19	Proposed backup software license should integrate with the offered backup appliance and also work with any other OEM storage with all the software functionality mentioned.	Proposed backup software license should integrate with the offered backup appliance **for** all the **solution** functionality mentioned. This specification is currently limiting. Hence request you to incorporate the propose change for wider participation.	Proposed backup software license should integrate with the offered backup appliance and also work with any other OEM storage with all the **solution** functionality mentioned.
6.	Protocol	(VTL , CISF/SMB, NFS, OST)/FC	VTL , CISF/SMB, NFS, OST**, FC, NDMP** Understand that GSDC is looking for the data protection solution with backup appliance and software. The current specification allows the general purpose storage as a part of backup solution. Hence request you to incorporate the proposed change so that only purpose built backup appliances are offered as a part of the solution.	Refer the corrigendum
7.	Price Bid Schedule (Sr. No 2)	Per 1 TB cost with backup software licenses (optional for future expansion)	**Request GSDC to please delete this clause** We request GSDC to please delete this clause. To give a single price for 1TB is not possible for Hardware & Software combined as the solution depends on several factors and also all OEM's have a different licensing policy.	Refer the corrigendum

8.	Deliver y Days	60 Days	**120 Days:** We request GSDC to please extend the delivery period to 120 days in place of currently asked 60 days. Currently all hardware's are on a very high lead time due to severe shortage of components.	Refer the corrigendum
9.	Min. Specs. Pg n. 4	2. Proposed solution should support leading backup software like EMC-Networker, HP-Data Protector, Veritas-Netbackup, Commvault, Veeam etc	Please modify as "Proposed solution should support **any of** leading backup software like EMC-Networker, HP-Data Protector, Veritas-Netbackup, Commvault, Veeam etc"	Please modify as "Proposed solution should support **any of** leading backup software like EMC-Networker, HP-Data Protector, Veritas-Netbackup, Commvault, Veeam "
10.	Min. Specs. Pg n. 4	4. Existing Retention Policy and current sizing on VTL: a) 37 days retention - Full back up on weekend - approx. 120 TB of data and Daily incremental - approx. 6-8 TB	Please motion what type of data is this 120TB (File unstructured Data , VM data or DB structured Data type)? Do you maintain Monthly Full backup copies also, how many and what are their retention? What is the yearly Data Growth for each type of data. Can we take some approx like 15 or 20% yearly?	120 TB is DB structured data For retention, refer point 4 of RFP
11.	Min. Specs. Pg n. 4	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 recovery feature"	No change. As per RFP
12.	Min. Specs. Pg n. 4	15. Backup software should be available on OS Windows, Linux. The backup server should be compatible to run on both OS Windows & Linux.	Please modify the clause as "15. Backup software should be available on OS Windows, Linux. The backup Software should be compatible to run on both OS Windows & Linux. The Proposed backup solution should also be able to integrate with existing Veritas Netbackup Software currently implemented in the department"	No change. As per RFP
13.	Min. Specs. Pg n. 4	16. Proposed backup software should include file archival feature to move historical data based on file attributes for long term retention	Please modify the clause as "16. Proposed backup software should include backup archival feature and should move backup images on Tape devices and cloud storage for long term retention"	Already covered in # 4
14.	Param eter	Deduplication Ratio - Min 20x	Request department to remove this parameter as Deduplication ratio completely depends on a data tytpe and cannot be a fix unit. It varies between structured,	Refer the corrigendum

	Page no. 4		unstructures and other data formats. Most of the vendors get almost similar dedupliocation ratio and	
15.	Param eter Page no. 5	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	No change. As per RFP
16.	Param eter Page no. 5	Cache / RAM - Min 512 GB / Controller	Cache / RAM - Min 512 GB	Refer the corrigendum
17.	Param eter Pg n. 5	Protocol - (VTL , CISF/SMB, NFS, OST)/FC	Protocol - CISF/SMB, NFS, OST/FC	Refer the corrigendum
18.	Min. Specs. Pg n. 4	Solution should support retention lock-Write Once Read Many feature which ensures that data is not deleted accidently or deliberately. Only super user (Even backup admin should not be capable) can delete/modify the data once retention is locked.	As per this clause, proposed solution shall have capability to ensure that data is not deleted accidently or deliberately. The functionality can be achieved without requiring the WORM feature, therefore requesting to change the clause as below, "Solution should support feature which ensures that data is not deleted accidently or deliberately. Only super user (Even backup admin should not be capable) can delete/modify the data once retention is locked."	No change. As per RFP
19.	Param eter, page# 5	Cache/RAM - Min 512 GB / Controller	The backup jobs are sequantial in nature and having higher cache/RAM does not improve the performance as it is mostly bypassed. Therefore requesting to reduce the cache requrement as below, "DRAM Cache/RAM - 384 GB/controller"	Refer the corrigendum
20.	Param eter, page# 5	Management - a) Single Console	Kindly change the requirement for single console with Web/GUI console as backup software and storage device will have different consoles. Therefore, requesting to change the clause as, "Management - a) Web/GUI Console"	For Backend device separate console is accepted (but should, be with GUI and CLI)
21.	Param eter, page no. 4	2. Proposed solution should support leading backup software like EMC-Networker, HP-Data Protector, Veritas-Netbackup, Commvault, Veeam etc	Please modify as "Proposed solution should support **any of** leading backup software like EMC-Networker, HP-Data Protector, Veritas-Netbackup, Commvault, Veeam etc"	Already covered in # 9

22.	Param eter, page no. 4	4. Existing Retention Policy and current sizing on VTL: a) 37 days retention - Full back up on weekend - approx. 120 TB of data and Daily incremental - approx. 6-8 TB	Please motion what type of data is this 120TB (File unstructured Data , VM data or DB structured Data type)? Do you maintain Montly Full backup copies also, how many and what are their retention? What is the yearly Data Growth for each typoe of data. Can we take some approx like 15 or 20% yearly?	Already covered in # 10
23.	Param eter, page no. 4	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 recovery feature"	No change. As per RFP
24.	Param eter, page no. 4	15. Backup software should be available on OS Windows, Linux. The backup server should be compatible to run on both OS Windows & Linux.	Please modify the clause as "15. Backup software should be available on OS Windows, Linux. The backup Software should be compatible to run on both OS Windows & Linux. The Proposed backup solution should also be able to integrate with existing Veritas Netbackup Software currently implemented in the department"	No change. As per RFP
25.	Param eter, page no. 4	16. Proposed backup software should include file archival feature to move historical data based on file attributes for long term retention	Please modify the clause as "16. Proposed backup software should include backup archival feature and should move backup images on Tape devices and cloud storage for long term retention"	Already covered in # 4
26.	Param eter, page no. 4	Deduplication Ratio - Min 20x	Request department to remove this parameter as Deduplication ratio completely depends on a data tytpe and cannot be a fix unit. It varies between structured, unstructures and other data formats. Most of the vendors get almost similar detupliocation ratio and	Refer the corrigendum
27.	Param eter - pg. no. 5	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	No change. As per RFP
28.		Cache / RAM - Min 512 GB / Controller	Cache / RAM - Min 512 GB	Refer the corrigendum
29.		Protocol - (VTL , CISF/SMB, NFS, OST)/FC	Protocol - CISF/SMB, NFS, OST/FC	Refer the corrigendum