			Responsed to Pre Bid Que PROCUREMENT, INSTALLATION, COMMISSIONING	ry : RFP/1264 - Storage AND MAINTENANCE OF STORAGE SOLUTION	
SI. No	RFP Page No	RFP Clause No	Existing Clause	Query/Suggestions	Banks Response
1	61	4. Number of Racks- Controllers	Number of Racks Controller s7. The proposed solution model should have at least 40-40 (PR-UR) Storage Controllers or maximum 10% more at each site in scale out architecture on day one which should be divided in not more than 4 storage clusters per site.	Different vendors have different technology to mate the performance and the controllin count to support, include that and anoty defined the number of controlling required, ultimitips and/of be OEM specific, where a particular OEM have an advantage. There should not be any limit to cluster count as long as we are meeting the number of controlline count, performance and note space original. We request Bank to remove the number of cluster count or increase the cluster count to 6.	Please refer corrigendum No. 3
2	68	Print No 65	65. The proposed solution should have provision to protect and recover data in case of ranzomware or makeuse attack for SAN & NAS workbacks. Any license required should	Bank has asked for Enterprise storage with less than 1 ms response time. We can't get less than 1 ms response in any of the NFS env. Hence this req is contradictory to the performance claim req and	No change, as per RFP. Combining file and block storage enhances efficiency, as it eliminates the need to declare the size of individual requirements on day one. This interportability offers flowbility while improving efficiency and return on investment (PD).
3	00	PolitiN0.65	be provided on pay one of full capacity of system	would request user to sequetate une block a mere worknows. Regarding Gbps/IOPS numbers are not matching in forward and reverse, and out of bandwidth and controller count, which parameter bank will prefer and can it be amended to a smaller number of	TVDC clarified that bidder to consider throughout or CPS which was in bights for
			Client references and contact details (emai/ landline/ mobile) of customers for whom the Bidder has executed similar projects in India.		supply.
4	56	Annexure B, SI No 7	(Start and End Date of the Project to be meniconed) in the part (A least 2 client required) Client references and contact details	PI clarify if we have to provide references of multiple (2 or more) customers with aggregate total installed base of 5 patietytes. Kindy elaborate.	No change, as per RFP. References from Minimum 2 customers required for total 5 PB)
5	56	Annexure B, SI No 7	(email uncline' mobile) or customers to whom the Bolte that executed (Start and End Date of the Project to be mentioned) in the part (A least 2 client references of total 5 Pets Bytes are required)	We request you to reduce this criteria to 3PB instead of 5PB.	No change as per RFP.
6	84	1 Description of Services	In the event of Bank engaging the services of CDAC/any other party for inspection and testing of the supplied material, the bidder should ensure the presence of OEM engineer.	Please share the testing criteria	No change, as per RFP. The hardware should comply with technical specifications mentioned in Appendix-C of this RFP
7	84	1 Description of Services	The bidder has to rope-in expert team from OEM for designing, planning and documenting the storage implementation (it should include, migration plan from existing setup, optimal configurations, performance incinent design. SAN switch zoning and configuration in consultation with hank	Please share the existing setup from which migration to be done so that we can identify the tool required for micration	No change, as per RFP. The existing setup is VMware and migration will be within VMware setup
8			Bidder has to get the complete initial implementation, commissioning including management, monitoring and integration with existing solution done through OEM		No change, as per RFP. The existing setup is VMware and migration
9	84	1 Description of Services	engineers. Bidder has to ensure a neat, labelled and high standard implementation. All works related to implementation like cable laying, tagging, lifting, shifting and all relevant	please share the existing setup details which need to be integrated with storage system	will be within VMware setup. No change, as per RFP.
-	84	1 Description of Services	activities as per data centre norms are in scope of bidder during the entire contract period.	Please confirm it is a one time activity or need to be done later as well if yes please confirm the occurrence of the activity	This will be one time activity. No Change, as per RFP
10	84	1 Description of Services	In case if movement of racks (new/existing), cabling etc. to be done, Bidder has to take the responsibility of end to-end implementation.	Please confirm it is a one time activity or need to be done later as well if yes please confirm the occurrence of the activity, as bidder is not aware of existing rack's network connectivity, requesting to remove the existing word from the clause.	Generally it is one time activity, however in case of rack movement bidder has to arrange for cabling. No change, as per RFP.
11	85	1 Description of Services	Bidder should arrange yearly review from OEM's SME on efficiency, operations, utilization and areas of improvement.	Please share the testing criteria and parameter	This will be as per OEMs standards and oncoing operations No change, as per RFP
12	85	1 Description of Services	Flash Wear warranty: Flash read/write wear out should be covered under warranty.	Please let us know the Flashwear cerformance acceptable values of the carameters.	Any damage or malfunction caused by normal wear and tear of flash memory should be included in the warrantv
13					No change, as per RFP. Bank may order remaining hardware within
	85	1 Description of Services	Bank will procure minimum 40% of the quantity mentioned in first year.	please share the timelines for procurement of remaining 60% quantity	three years from the date of Purchase order No change, as per RFP.
14	85	2 Description of Deliverables	Eight onsite manpower resources on all days of the week for management, maintenance and support on 24x7x365 basis.	please confirm eight resources required everyday, also confirm the shift timings and resources required in per shift	Eight resources required everyday, with two each in Morning, General, Evening and Night shifts. No change, as per REP
15	86	2 Description of Deliverables	All FC cables, Ethernet cables & any other accessories required to establish connectivity between Storage, SAN Switch and respective hosts, LAN switches to be provisioned by bidder, FC Patch panel work need to be done by Bidder.	FC Patch panel also need to be given by bidder and cabling will be within rack or between different racks. What about LAN switches it will be crovided by banks or bidder have to crovide	Networking switches will be provided by Bank. No Change, as per RFP
16	86	2 Description of Deliverables	Bidder has to arrange for evaluation of the proposed storage setup through OEM SME on yearly basis and submit a whitepaper providing performance benchmarking, optimization measures etc.	What will be the performance benchmarking criteria and parameter	Generally it is one time activity, however in case of rack movement bidder has to arrange for cabling. No change, as per RFP.
17	86	3 Third-Party Components	New storage solution should be integrated with existing cloud setup without any additional cost to the Bank.	Please share the details of existing cloud setup, is their any requirement for any tool for integration wit existing cloud	The existing setup is VMware and migration will be within VMware setup.
18	87	6 Integration / Migration Requirements with existing systems	Bidder has to arrange for migration of storage from existing setup to new hardware as quided by the Bank.	Please share the details of existing setup from where migration is to be done so that we can plan for the tools and skills required for migration	No cnange, as per RFP. The existing setup is VMware and migration will be within VMware setup.
19	85	2 Description of Deliverables	Bidder must arranne for delivery installation nower on necessary rabilion at-	Clarification is required : Arranange for "power on". Whether bidder has to provide UPS with power clarification is required : Arranange for "power on". Whether bidder has to provide UPS with power clarification is required : Arranange for "power on". Whether bidder has to provide UPS with power clarification is required : Arranange for "power on". Whether bidder has to provide UPS with power clarification is required : Arranange for "power on". Whether bidder has to provide UPS with power clarification is required : Arranange for "power on". Whether bidder has to provide UPS with power clarification is required : Arranange for "power on". Whether bidder has to provide UPS with power clarification is required : Arranange for "power on". Whether bidder has to provide UPS with power clarification is required : Arranange for "power on "	No change, as per RFP. Bank will provide standard data centre fitouts like space, power, cooling, overhead cable trays, DC network connectivity etc. Bidder has to nower on and confinue the setun
20	00	2 Description of Deriverables	Double most an imperior owners, missionianou, jowes ut, recessing valuming, etc. clause pgr85 "Eight nosite manpower resources on all days of the week for management, maintenance and support on 24x7x365 basis." - Pad87	Leaning in case of power connector of pairs will provide stat.	No change, as per RFP.
	86	2 Description of Deliverables	*Minimum 6 Manpower resources on daily basis to be onboarded within 10 weeks of PO.Remaining manpower can be onboarded within 14 weeks.*	Please clarify	Timelines provided for onboarding of Manpower No change as per RFP.
21	86	2 Description of Deliverables	Bank may place higher or lower quantities or manpower order as per requirement.	We are ok provide higher or lower daily resources.How ever we resquest you to provide the upper & lower limit of the number of additional people by +/- percentage.	
22	107	For performance and support: pt 5	If any production LUNVolume went offline any point of time due to any Human error /monitoring Negligence/Software bug	Kindly confirm whether only bidder's support engineer will get the admin contgrol for the entire storage Mgm? As its mnetioned that flac per incident penalty will be imposed if LUN issue occurred by Human error We request you to remove this penalty clause.	No change as per RFP.
23	-	Appendix-C, A: Production Storage (Category	 The proposed solution model should have at least 80+80 (PR+DR) Storage Controllers or maximum 10% more at each site in scale out architecture on day one which should be divided in not more than 8 storage clusters per 	Different vendor has different technology to meet the performance and the contoller count to support. since bank has alreday define the number of controllers required, Limiting to only 8 cluster would be OEM specific, where a praticiour OEM has an advantage. There should not be any limit to cluster count as long was are meeting the number of controller count, performance and rack space criteria. We	No change as per RFP.
24	60	1):	site. 5. Maximum size of each NVMe storage drive should be less than 30.xx TB with TLC or QLC	Irequest Bank to remove the number of cluster count or increase the cluster count to 12. Sione Bank is asking for huge capacity, we feel using 30TB Drives will lead to longer re-build time and in case of multiple drive failure there are chances of RAD groups going to de-grade mode which might leads to higher latency, impact in the performance and chance of rata task. Hence was request hand to have bank to the second secon	No change as per RFP.
25	61	B. Non-production Storage (Category 2): Object Storage Specifications(Category 3):	drives. Total 10.5 Peta Bytes (PB) (5.25 PB at PR site and 5.25 PB at DR site) usable storace	limit the drive size to 18 TB or lesser like production storage.	No change as per RFP.
	71	Capacity	space, 80% NLSAS and 20% NVMe TLC drive based Object Storage for two sites.	Please change the clause to allow both NL-SAS/SATA and drive type as both TLC/QLC. For sequential workloads like backup and archival, average object size is generally larger and a higher	
26	71	Object Storage Specifications(Category 3): Throughout	Sustained Read Throughput: 30 GB/s (Gigabytes per second) or higher per site for object size of 4 MB. Sustained Write Throughput: 20 GB/s or higher per site for object size of 4 MB.	object size like 10 MB to 2000 MB can yield better performance numbers. Is there a specific reason for the 4MB object size, if not can a higher object size be considered say 100 MB/29 h this throughput aggregated throughput of NMWa and NLSASSATA or the throughput tasked is all from high performance drivers? Generally the wither throughput in one based architectures is approximately half of read throughputs, since a higher throughput in one based architectures is approximately half of new through or can a lower with throughput of white is asked, please specify if this throughput is based on workload or can a lower with throughput of house be considered?	No change as per RFP.
27	71	Object Storage Specifications(Category 3): Latency (Response Time)	Latency for Small Objects (<1MB): < 10 milliseconds (ms) for both read and write operations per site. Latency for Large Objects (>100MB): < 100 ms for read operations.	Most of the unstructured object based workloads are throughput based and so is the benchmarking/sizing. Proving the latency numbers for object storage other than a TPS or MB/sec is not trainght forward. This is more of a block storage concept for OLTP workloads. For smaller objects a Trainsaction per second its a better parameter to measure the performance. Trainsactions Per Second (TPS) is a better measure for baject storage. OPS is more of a block	No change as per RFP.
28	71	Object Storage Specifications(Category 3): IOPS (Input/Output Operations Per Second)	Small Object IOPS (e.g., 4KB): 5,00,000 IOPS or higher for mixed read/write workloads. Large Object IOPS (e.g., 1MB): 00,000 IOPS or higher for sequential read/write workloads.	storage/FC basedcriteria for OLTP workloads. Can this be interpreted as TPS for 4 KB Object size? For mixed workloads, please specify the read write ratio. 50000 (DFS of 1 MB = 50000 MB/ace = 50 GB/ace. Is this read or write number?? Also, this doesnt match with the throughput number asked above. Which number should the bidder be complying with?	No change as per RFP.
29	71	Object Storage Specifications(Category 3): Disk Size	Each data drives should have a maximum capacity of 16.xx TB 7.2k RPM NL-SAS HDD and maximum of 16.xxTB capacity drive in SSD.	Denser Capacity drives are available with many OEMs, this can help reduce the data center footprint of the solution still providing capacity and peformance asked. Can we allow higher capacity drives to be quoted?	No change as per RFP.
30	71	Object Storage Specifications(Category 3): Resiliency	The object storage must be enterprise class object storage that provides no single point of failure, high resiliency, and redundant components with 99.9999% data availability and uptime guaranteed on yearly basis.	Please help to relax this to 5 9's of availability as that is the published number for the bidder. Both node and disk level failure is taken care with 5 9's of availability.	No change as per RFP.
31	72	Object Storage Specifications(Category 3): 10	Erasure coding algorithm provided must support data protection against 3 or more simultaneous nodes / disks failures across the storage nodes.	A node based multi-controller EC based architecture should be able to mitigate both node and disk level failures. Also, lower level of failure protection for higher number of nodes will not match the availability criterion stated in previous clause. Hence request to amend the clause to both node and disk level protection	No change as per RFP.

32	72	Object Storage Specifications(Category 3): 12	Erasure coded data must be encoded efficiently, regardless of object size. Object Storage shall allow any object to be accessed from any node at any site with most recent version of data alwavs available.	We recommend to mention strongly consistent architecture in this clause as some legacy object architectures orefers availability over consistency.	No Change, as per RFP No Change, as per RFP
33	72	Object Storage Specifications(Category 3): 16	The object storage platform shall support data disks with all SSD for performance required application.	Please explain what this clause means as the first clause asks for 20% NVMe and 80% NLSAS/SATA. With 3 disk failure asked along with egasure corting, minimum pumper of nodes required in each NVMe	NVMe will be needed for applications requiring performance
34		Ohiert Storane Sparifications(Category 3)-	Proposed Object based storage should be fully distributed, symmetrical and scale-out architecture. Minimum 28 nodes per site should be provided for user data access with minimum <i>a</i> numbers of 25/Check JAN ports on acch pode Schot Node schuld be a	and SATA/NLSAS nodes is 4, this sums upto minimum 8 nodes. What is the rationale behind asking 28 nodes? If a vendor can meet availability and performance with less number of nodes and higher capacity drives and having models with more number of drives, that can considerably help to reduce data center footprint and power consumption as well. There is no bifurcation given for minimum number of nodes in NUMer and NLSAS/SATA as well C ans water mention minimum 5 nodes in set hune at no drives in NUMer and NLSAS/SATA as well C ans water mention minimum 5 nodes in set hune is a	
25	73	28 Object Storage Specifications(Category 3):	Separate appliance or physical servers Two Load Balancers of 25Gbps x 4 throughput should be provided for each Cluster	NVMe and NLSAS/SATA? The LB should be compatible with storage throughput asked. Hence LB throughput should also be	No Change, as per RFP
35		36	Data Center in HA mode + 50% + taxes of the storage solution (hardware, software and warranty) will be released	mentioned.	No Change, as per RFP
36			on delivery of hardware. • Remaining 50% + taxes of the storage solution (hardware, software and warranty) will be released on verification of bill of material, storage capacity and performance as given	*80% + taxes of the storage solution (hardware, software and warranty) will be released on delivery of hardware. *Remaining 20% + taxes of the storage solution (hardware, software and warranty) will be released on	
	89	Appendix-E - Scope of Work and Payment Schedule- Payment schedule- 89	in the RFP by Bank/CDAC/Third party and commissioning of storage solution as well as submission of PBG.	verification of bill of material, storage capacity and performance and year in the RFP by Bank/CDAC/Third party and commissioning of storage solution as well as submission of PBG.	No Change, as per RFP
37		Site readvness	Sonata Dependencises	2) Network Swicthed should be in active state. 3) Confirmation of Cabelino readvness	No Change, as per RFP
38	64	6. Architecture & Processing	FC Ports : 29. Each controller Storage solution must have minimum 8 (4 primary and 4 Secondary) 326bps SAN FC ports dedicated for serving SAN requests of Host. Artifitingity: these ports should also support NUME cover should never perform	We request bank to clarify if each controller with primary 4 and secondary 4 refer to the HA pair or single controller.	No change, as per RFP Each Controller must have minimum 8 ports(4
39	60	Performance Disk Size	Maximum size of each NVMe storage drive should be less than 18.xx TB with TLC (Trinle I avel Cell) drives only	Kindly allow the Drive size as per the recommended best practise sizing of the Storage OEM to meet the performance and availability asks	primary and 4 secondary)
40	61	Performance Disk Size	 Maximum size of each NVMe storage drive should be less than 30.xx TB with TLC or OLC drives. Client references and contact details (email/landline/mobile) of customers for whom 	Kindly allow the Drive size as per the recommended best practise sizing of the Storage OEM to meet the perfromance and availability asks	No change, as per RFP.
41	56	Appendix-B Bidder's Eligibility Criteria	the Bidder has executed similar projects in India. (Start and End Date of the Project to be mentioned) in the past (At least 2 client	"We hereby request you to confirm whether we can submit multiple POs for the same customer with the	Yes but total quantity should be minimum 5
42	56	Appendix-B Bidder's Eligibility Criteria	Reterances of total 5 Peta Evices are required) 8.At least 2 Client references along with contact details (email/ landline/ mobile) with install base of minimum 10 Peta Bytes storage total in India of the storage OEM, whose	Same OEW and upgrade PO. "We hereby request you to confirm whether we can submit multiple POs for the same customer with the	No change, as per RFP.
43	72	C. Object Storage Specifications(Category 3):	products being proposed as part of this RFP.	same OEM and upgrade PO."	Yes.
		Point 23	Five years Warranty and 2 years AMC - 24x7 comprehensive onsite support from OEM	To be enabled via the SAML authentication provider	No change, as per RFP.
44	74	SI No.39	with maximum 6 nours response time including part replacement, access to UEM support portal. OEM technical support on 24X7X365 basis. Highest Level of Proactive and Reactive support covering Half yearly Firmware analysis, and Proactive Health analysis.	6 hours response time	No change, as per RFP.
45	73	Object Storage Specifications(Category 3): 25 Direct Storage Specifications(Category 3):	Object storage must be supplied with ability to tier objects from local disk to external cheaper storage tier like S3 compliant storage. Public Cloud.	The object storage is being used for archive workload, which is generally the last tier in data movement for long term retention. Please channe the word tiering to copy or replication.	No Change, as per RFP
46	73	26 26	Tiering should be able to set based on Object Size or policy on age of data. Five years Warranty and 2 years AMC - 24x7 comprehensive onsite support from OFM	The uppex storage is being used for archive workload, which is generally the last tier in data movement for long term retention. Please change the word tiering to copy or replication.	No Change, as per RFP
47		Object Storage Specifications/Category 21-	with maximum 2 hours response time with 6 hours Call to Resolution including part replacement, access to OEM support portal, OEM technical support on 24X7X365 basis. Highest Level of Proactive and Reactive support covariant Jell's wardy Einstein		
<u> </u>	74	39	analysis, and Proactive Health analysis.	6 hours response time Kindly modify the clause as " SEPs pronosed along with switches should be compatible with one	No Change, as per RFP
48	77	D. SAN Switch Specifications	SFPs proposed along with switches should be compatible with any generation of SAN	generation of SAN switches for investment protection. Also the SAN switches proposed as part of this RFP should integrate with the existing SAN Switches at SBI environment seamlessly"	
	-		switches for investment protection.	Kindly amend the RFP point to support interoperability with the existing SAN switches at SBI environment.	
		Appendix-E	Term of the Project - Project Schedule; Milestones and delivery locations	Change Request:	INO Change, as per RFP.
49	86	Scope of Work and Payment Schedule 4.	Delivery of total hardware and software should be completed within 6 weeks.	Term of the Project - Project Schedule; Milestones and delivery locations	No. 1
50		Appendix-B Bidder's Eligibility Criteria		Delivery of total naroware and software should be completed within 10 weeks.	No chande, as ber REP.
50	55	6.	The Bidder (including its OEM, if any) should either be Class-I or Class-II local supplier as defined under this RFP.	Please Remove this Clause	No change, as per RFP.
51	55	3	(three) financial year(s) i.e. FY2021-22, FY2022-23 and FY2023-24.	year(s) from the business of IT / ITeS i.e. FY2021-22, FY2022-23 and FY2023-24. Client references and contact details(email/ landline/ mobile) of customers for whom the Bidder has	No change, as per RFP.
52	56	7	the Bidder has executed similar projects in India. (Start and End Date of the Project to be mentioned) in the past (At least 2 client references of total 5 Peta Bytes are required)	executed similar projects in India. (Start and End Date of the Project to be mentioned) in the past (At least <u>2 Projects</u> with client references of total 5 Peta Bytes are required) <u>The Client should Be Govt /</u>	No shares on es DED
53	56	8	At least 2 Client references along with contact details (email/ landline/ mobile) with install base of minimum 10 Peta Bytes storage total in India of the storage OEM, whose	Request to remove point of specific proposed OEM from experience clause and change to Bidder	No change, as bei Krin.
			 solver table and a source of this RFP. solver table and table and the storage solution (hardware, software and warranty) will be released 	опочно пакто сидентелно и почтати на облавнит реферсио от цалкое од нео ранти.	No change, as per RFP.
54	89	14	on derivery of naroware. • Remaining 50% + taxes of the storage solution (hardware, software and warranty) will be released on verification of bill of material, storage capacity and performance as given in the RFP by Bank/CDAC/Third party and commissioning of storage solution as well as eutomission of PBC	Request to change payment terms as below- 1) 70% + Taxes of the storage solution (hardware, software and warranty) will be released on delivery of hardware. 2) 30% + Taxes taxes of the storage solution (hardware, software and warranty) will be released on	
			No payment will be made on part delivery of ordered hardware. The product should be under warranty for 5(Five) years. Post warranty period, AMC will be for 2 (two) years. AMC charges will be paid on a quarterly basis in arrears only. Manpower charges will be paid on actuals on monthly basis in arrears.	verification of bill of material, storage capacity and performance as given in the RFP by Bank/CDAC/Third party and commissioning of storage solution as well as submission of PBG.	No change as per RFP
			All milestones/dates are from the date of purchase order • Delivery of total hardware and software should be completed within 6 weeks.	All milestones/dates are from the date of purchase order • Delivery of total hardware and software should be completed within 8 weeks.	in analysis as parter to
55	86	4	Bidder to arrange planning and documentation within 10 weeks. Installation and commissioning should be completed within 10 weeks of purchase order. Delivery locations will be in Navi Mumbai and Hyderabad	Bidder to arrange planning and documentation within 12 weeks. Installation and commissioning should be completed within 12 weeks of purchase order. Delivery Incations will be in Navi Mumbai and Hyderabad	
			Minimum 6 Manpower resources on daily basis to be onboarded within 10 weeks of PO. Remaining manpower can be onboarded within 14 weeks.	Minimum 6 Manpower resources on daily basis to be onboarded within 12 weeks of PO. Remaining manpower can be onboarded within 14 weeks.	No change, as per RFP.
56	63	4. Number of Racks	 The proposed solution should accommodate in maximum 630U (maximum 18 racks size i.e. 35U X 18) at each site. 	We request bank to clarify if 630U limited to production storage and non production only at each site.	Please reler comgenoum No. 3
		6. Architecture &	Architecture & Processing power : Data Integrity 28. Each controller operating in an active- active cluster environment should have	Use of battery is a legacy way as the battery may be damaged with time. The technology has evolved over the period and now there are better ways to meet data integrity. 72 Hours battery backup is OEM	
57	64	Processing power	mirroring support for the system's write cache must be battery protected with unwritten data in write cache protected for up to 72 hours in event of power failure. Data interception must be trained in a use cache.	specific request bank to change this clause with Must have either Cache battery backup or better technology for fully automatic de- stage of cache to disks during power failure to prevent possible data loce.	Please refer corrigendum No. 3
			www.innuginy muol be relained iff dify Cable.	We request bank to clarify if each controller requires 4 ports of 10 Gbps / 2 ports of 25 Gbps each for	
58	64	6. Architecture & Processing	LAN Port 1 :30. Each controller must have minimum 4 (2 primary and 2 secondary) x 10 Gbps fiber LAN ports or minimum 2 (1 primary and 1 secondary) 25 Gbps or higher bend AN extended internet device the secondary secondary in the secondary secondary in the secondary	ISCSI and NF-S, which is almost 80 – 10Gbps /40 – 25Gbps ports per cluster for Production Storage as per banks calculation. Since bank has already asked for almost 160 FC Ports of 32 Gbps per cluster these many LAN ports requirement seems to be very high and favouring single vendor. Hence we	Please refer corrigendum No. 3
		powel	nivercerve ports deducated for serving ISCSI and INES.	request bank to please share the workload would be running on NFS and ISCSI or reduce the number of ports recruitment to 4 ports of 10CBps or 2 ports of 25 Gbps per HA pair.	
59	64	6. Architecture & Processing	LAN Port 2:31. Each controller must have minimum 4 (2 primary and 2 secondary) x 10 Ghos fiber I AN ports or minimum 2 (1 primary and 1 proportion) 25 Chor or bishor	vrve requess usarik to ciamy ir each controller requires 4 ports of 10 Gbps / 2 ports of 25 Gbps each for replication, which is almost 80 – 10Gbps /40 – 25Gbps ports per cluster for production stoarge only dedicated for replication, as per banks calculation. Where in bank is considering only 60% of capacity	Please refer corrigendum No. 3
		power	fiber LAN ports dedicated for serving data replication.	for replication. Hence ports requirement for replication seems to be very high and favouring single vendor. Hence, we request bank to please reduce the number of ports recruitment to 4 ports of 10Gbps or 2 ports of 25 Gbps per HA pair.	
60	65	6. Architecture & Processing	Connectivity between HA Pairs :34. Scale out architecture should have at least 100 Gbps bandwidth per controller for backend interconnect switches / InfiniBand switches / pcie-based multilane connectivity between all HA pair. It is reouried for ouick minration	We request bank to clarify the need of 100Gbps bandwidth, which is OEM specific and helping particular vendor, Request bank either change and reduce the bandwidth to 50Gbps per controller as it is sufficient for data migration or please share the sizing for 100 Gbos bandwidth requirements ner	Please refer corrigendum No. 3
		power	of datastore from One HA pair to another HA pair. Cache Requirements -Data Integrity :37. The storage should dynamically allocate Read	controller for backend connectivity. Use of battery is a legacy way as the battery may be damaged with time. The technology has evolved	
61	65	6. Architecture & Processing power	Cache and Write Cache from the available cache to accommodate the I/O. The storage architecture should provide battery backup to the entire write cache in case of a disaster i.e. Data in cache should be protected against unexpected power failures for 72 hours of time.	over the period and now there are better ways to meet the data integrity. 72 Hours battery backup is OEM specific request bank to change this clause with Must have either Cache battery backup or better technology for fully automatic de-stage of cache to disks during power failure to prevent possible data loss	Please refer corrigendum No. 3
62	71	1	Total 10.5 Peta Bytes (PB) (5.25 PB at PR site and 5.25 PB at DR site) usable storage space, 80% NLSAS and 20% NVMe TLC drive based Object Storage for two sites.	We request you to kindly consider NL-SAS/SATA and QLC/TLC.	No change as nor PEP
63	71	2	Sustained Read Throughput: 30 GB/s (Gigabytes per second) or higher per site for object size of 4 MB. Sustained Write Throughput: 20 GB/s or higher per site for object	It is suggested that for object storage object size of 8/16/24MB recommended . However, object size of a mb is generally used for NAS storage. Therefore it is requested to around the datuse second in the	nio chalige, as per Krrf.
64	71	3	size of 4 MB. Latency for Small Objects (<1MB): < 10 milliseconds (ms) for both read and write	The is guidely used to read storage. Therefore it is requested to anteria the clause accordingly . Defining latency depends on workload underlying infra These values are stean for philes strong celution	No change, as per RFP.
		-	operations per site. Latency for Large Objects (>100MB): < 100 ms for read operations.	Control of the second s Second second secon second second sec	No change, as per RFP.
65	71	4	Small Object IOPS (e.g., 4KB): 5,00,000 IOPS or higher for mixed read/write workloads. Large Object IOPS (e.g., 1MB): 50,000 IOPS or higher for sequential read/write workloads.	Transactions Per Second (TPS) is a better measure for object storage. IOPS is an incorrect parameter for measuring performance in object environment	No cnange, as per RFP IOPS is a critical metric in evaluating the performance of storage systems, especially when addressing mixed read/write workloads
66	71	e	Each data drives should have a maximum capacity of 16.xx TB 7.2k RPM NL-SAS	Bidder should be allowed to quote any capacity size drive. Denser Capacity drives are available. this	and ensuring responsiveness for small and large object operations.
00	11	0	HDD and maximum of 16.xxTB capacity drive in SSD.	can help reduce the footprint of the solution	No change, as per RFP. No change, as per RFP.
67	72	10	Erasure coding algorithm provided must support data protection against 3 or more simultaneous nodes / disks failures across the storage nodes.	28 Nodes with 3 disks/node failure and 6 9's availability is mathematically inaccurate. This needs to be updated to safeguard data as an entity.	OEM can provide additional node if they are not able to meet the prescribed avalability requirements.
					No change, as per RFP.
68	73	25	Object storage must be supplied with ability to tier objects from local disk to external cheaper storage tier like S3 compliant storage, Public Cloud.	Please guide on the purpose of tiering.Generally the Movement of data/copy to cloud can be considered here.	I he purpose of tiering is to optimize storage costs and performance by keeping frequently accessed (hot) data on high-performance, local storage, while moving infrequently accessed (cold) data to more cost-effective
					external storage, such as on premise NLSAS or Public cloud solutions.

69	70		Proposed Object based storage should be fully distributed, symmetrical and scale-out architecture. Minimum 28 nodes per site should be provided for user data access with		
	73	28	minimum 4 numbers of 25Gbps LAN Ports on each node. Each node should be a separate appliance or physical servers	Request consider If the other parameters are met, so we request minimum note count kindly be omitted.	No change, as per RFP.
					No change, as per RFP.
70	87	6	Integration / Migration Requirements with existing systems , Bidder has to arrange for	 Request you to share data volume which is required to be migrated. Ii) Please confirm existing platform including make and model and also confirm that it is covered under OEM B2B support incase 	The migration of data will be performed from
	-		migration of storage from existing setup to new hardware as guided by the Bank.	of any upgradation and support to be required during the migration.	VMware end, however if any issues are encountered on account of storage, then
					bidder need to arrange support from OEM.
					No change, as per RFP.
					Bank will provide standard data centre fitouts like space, power, cooling, overhead cable
71	0		General	We understand from the RFP all the Rack and within rack connectivity will be provided by the bidder please confirm all the required space, fiber runner path way, civil work will be provided by the bank.	trays, DC network connectivity etc will be provided by Bank. The distance between two
				We request the bank to allow the bidder to undertake site survey before submission of bid.	racks will not exceed 100 meters. Bidder has
					cables, within rack connectivity cables within
					(installed by bidder)
72	0		General	No capacity for the migration we need to know how much data we have to migrate, Older hardware	Approximately 6 PR to start with it is an
					ondoind process
73	0		General	Data migration kindly guide us on existing data size	Approximately 5 DD to start with this as
				On the time of data migration application team support with OEM support.	ongoing process
				Kindly modify the clause as " SFPs proposed along with switches should be compatible with any generation of SAN switches for investment protection. Also the SAN switches proposed as part of this	
74	77	D	SAN Switch Specifications:SFPs proposed along with switches should be compatible with any generation of SAN switches for investment protection.	RFP should integrate with the existing SAN Switches at SBI environment seamlessly"	
				Kindly amend the RFP point to support interoperability with the existing SAN switches at SBI environment.	No observe on easy DED
75	22	00	Appendix-L	OEMs engineering team should be available within one day on call in case of any issues or upon	No change, as bei RFF.
/5	33	96	Outer Fermis and Penaltes 4. Altice Diddee who excite the evolution process shell have to posticize to in the	intimation of bank.	No change, as per RFP.
76	21	17.ii	All the Bidders who quality in the evaluation process shall have to participate in the online reverse auction to be conducted by Bank's authorized service provider on behalf of the Derste	Descured Deals to confirm Webcas in Life Effective Indiana before DA 2	No change, as per RHP.
			Client references and contact details (email/ landline/ mobile) of customers for whom	Request Bank to commit in there is AT Elimination before RA ?	No change, as per RFP.
77	55	7	the Bidder has executed similar projects in India. (Start and End Date of the Project to be mentioned) in the past (At least 2 client		Bidder can give References of 2 or More
			references of total 5 Peta Bytes are required)	Can we understand/Interpret this clause : As Bidder can give References of 2 or More clients with Install base of Storage Totalling to 5 PB ?	of 5 PB or more.
78	55	7	Client reterences and contact details (email/ landline/ mobile) of customers for whom the Bidder has executed similar projects in India.	Can Bidder submit References with HCI Deployed solutions(with Install Base totaling to 5 PB) as HCI	No change, as per REP.
			(Start and End Date of the Project to be mentioned) in the past (At least 2 client references of total 5 Peta Bytes are required)	Technology is being adopted by many clients and Standalone SAN is now being replaced by HCI at many clients ?	HCI reference will not be considered as this RFP is for SAN storage.
	_	_	At least 2 Client references along with contact details (email/ landline/ mobile) with		No change, as per RFP.
79	0	8	install base of minimum 10 Peta Bytes storage total in India of the storage OEM, whose products being proposed as part of this RFP.	Request clarification : if this Clause and supporting PO will be given by OEM proposed by the Bidder ?	This clause pertains to OEM establishing
					setup of total 10 PB storage running in India. No change, as per RFP.
80	66	43	Submit minimum two (DC+DR) implementation reference configured with cross site replication between sites by the hinder		The proposed solution should have cross site
				Request this clause to be changed to OEM /Bidder	replication capability and reference of same should be submitted.
			The bidder has to rope-in expert team from OEM for designing, planning and documenting the storage implementation (it should include migration plan from		No change, as per RFP.
81	84	1	existing setup, optimal configurations, performance oriented design, SAN switch zoning and configuration) in consultation with back	Request clarity On :, migration plan from existing setup, optimal configurations, performance oriented design, SAN switch zoning and configuration ? Is Data Migration required by the Bank ? Pls suggest	Data needs to be moved from VMware side from existing Netapp storage to the new
			and configuration) in consultation with bank.	existing Storage Platform from where data to be migrated ?	storace.
					No change, as per RFP.
82	32	32.ix	Service Provider shall be agreeable for on-call/on-site support during peak weeks (last and first week of each month) and at the time of switching over from PR to DR and vice-		Bank will give the Remote Acess for Trouble shooting only to Technical Support of OEM.
			versa.	For OnCall Support : Will Bank give the Partner Remote Acess for Trouble shooting ?	The frequency of switching over from PR toDR and viceversa is periodic as well as on
				What is the frequency of switching over from PR toDR and viceversa ?	demand, as and when requried.
	05			Request the Point of Valid for the Entire State Bank Group top be Deleted (Because : The Price	
03	65	Description of Services - I	 The price discovered through this RPP will be valid for State Bank Group (SBG) 	discovered in this RFP Is basis the Qty And is very specific to this RFP) We request this cannot be applied to Group companies of SBI which may have smaller atv of Servers Requirement	No change, as per RFP.
			Delivery of all equipment should be within 6 weeks and installation testing		
84	86		commissioning within 10 weeks from date of placing of order	Request Delivery of 12 Weeks and Implementation of 5 Weeks across Sites	No change, as per RFP.
84	86		commissioning within 10 weeks from date of placing of order The rate determined through this RFP will be applicable to other departments of the	Request Delivery of 12 Weeks and Implementation of 5 Weeks across Sites	No change, as per RFP.
84	86	Description of Services	commissioning within 10 weeks from date of placing of order The rate determined through this RFP will be applicable to other departments of the bank, as well as its subsidiaries. They init ventures, officies, and foreign subsidiaries. These entities may place separate purchase orders for additional quantities beyond the 125% these subsidiaries in DFD Enterthet will be fore the total the 125%.	Request Delivery of 12 Weeks and Implementation of 5 Weeks across Sites Request the Point of Valid for the Entire State Bank Group top be Deleted (Because : The Price	No chance, as per RFP.
84	86	Description of Services	commissioning within 10 weeks from date of placing of order The rate determined through this RFP will be applicable to other departments of the bank, as well as its subsidiaries, junt ventures, offices, and foreign subsidiaries. These entities may place separate purchase orders for additional quantities beyond the 125% limit specifical in this RFP. Each entity will have its own Service Level Agreement (SLA) and payment cycle based on this RFP & SLA.	Request Delivery of 12 Weeks and Implementation of 5 Weeks across Sites Request the Point of Valid for the Entire State Bank Group top be Deleted (Because : The Price discovered in this RFP Is basis the City And is very specific to this RFP). We request this cannot be accided to Group comparies of SBW which may have smaller dur of Servers Requirement	No chance, as cer RFP.
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84 85 86 87	86 85 89 3	Description of Services 13. Training Tender Fees	commissionina within 10 weeks from date of clacino of order The rate determined through this FPP will be applicable to other departments of the bank, as well as its subsidiaries, joint ventures, officies, and foreign subsidiaries. These entities may place separate purchase orders for additional quantities beyond the 125% limit specifical in this RFP. Each entity will have its own Service Level Agreement (SLA) and payment cycle based on this RFP A SLA. Bidder need to arrange for CEM manufacturing unit visial, cost of which will be borne by the Bank. Bidder need to arrange for Training and certification from OEM for 5 Bank. Bidder need to arrange for DEM manufacturing unit visial cost of which will be borne by the Bank. Bidder need to arrange for Training and certification from OEM for 5 Bank ficialis. Bidder provide effective Training or yearly to basis on daily operations, performance optimization, troubleshooting and management of storage solution. Re 2,5000-	Request Delivery of 12 Weeks and implementation of 5 Weeks across Sites Request the Point of Valid for the Entire State Bank Group top be Deleted (Because : The Price discovered in this RFP is basis the City And is very specific to this RFP) We request this cannot be acolied to Group comparised of SBI which mun have smaller div of Servers Requirement Can this Training be Virtual Training ? faces Onset: "Will bits training be at GTC Belgour Request bank to Remove the Tender Faes	No chanoe, as oer RFP. No chanoe, as oer RFP. No change, as per RFP. The training will be in Bidder/OEM's Labidfice. Howeve bank may ask for virtual or on premsie training. No chanoe, as oer RFP.
84 85 86 87 88 89	86 85 89 3 4 5	Description of Services 13. Training Tender Fees EMD Bank Guarantee	commissionina within 10 weeks from date of clacino of order The rate determined through this FPP will be applicable to other departments of the bank, as well as its subsidiaries, joint ventures, officies, and foreign subsidiaries. These entities may place separate purchase orders for additional quantities beyond the 125% limit spoofiad in this RFP. Each entity will have its own Service Level Agreement (SLA) and payment cycle based on this RFP & SLA. Bidder need to arrange for CEM manufacturing unit visit, cost of which will be borne by the Bank. Bidder need to arrange for training and certification from OEM for 5 Bank. Bidder need to arrange for Taining and certification from OEM for 5 Bank ficialis. Bidder provide enferben? Training or yearby hass on daily operations, performance optimization, troubleshooting and management of storage solution. Re 2, 5000- Re 3, 2000.000-/IRE Three Cross only Performance Guarantee	Request Delivery of 12 Weeks and Implementation of 5 Weeks across Sites Request the Point of Valid for the Entire State Bank Group top be Deleted (Because : The Price discovered in this RFP Is basis the City And is very specific to this RFP) We request this cannot be acelied to Group companies of SBI which may have smaller div of Servers Requirement Can this Training be Virtual Training ? Request bank to Remove the Tander Fees Request bank to Relative the PG union Core with 7 Years & 3 months Validity ceriod	No chanoe, as oer RFP. No chanoe, as oer RFP. No change, as per RFP. The training will be in Bidder/OEM's Laboffice. Howeve bank may ask for virtual or on premsie training. No change, as per RFP. No change, as per RFP.
84 85 86 87 88 89 90	86 85 89 3 4 5 19	Description of Services 13. Training Tender Fees EMD Renk Guarantee PERIOD OF BID VALIDITY AND VALIDITY OF PRICE QUOTED IN REVENSE AUCTION	commissionica within 10 weeks from date of clacino of order The rate determined through this RFP will be applicable to other departments of the bark as well as its subsidiaries, joint ventures, officies, and foreign subsidiaries. These entities may place separate purchase orders for additional quantilies beyond the 125% limit specified in this RFP. Each entity will have its own Service Level Agreement (SLA) and payment cycle based on this RFP & SLA. Bidder need to arrange for CEM manufacturing unit visit, cost of which will be borne by the Bank. Bidder need to arrange for training and certification from OEM for 5 Bank folialis. Bidder provide effecteber Training or yearly basis on daily operations, performance optimization, troubleshooting and management of storage solution. Rs 2 5000. Rs 2 0000. (Rs Three Crore only) Performance Guarantee ii. Price quoted by the Bidder in Reverse auction shall remain valid for duration of 36 celeradar months from the date OF Unchase order.	Request Delivery of 12 Weeks and Implementation of 5 Weeks across Sites Request the Point of Valid for the Entire State Bank Group top be Deleted (Because : The Price discovered in this RFP is basis the Qty And is very specific to this RFP) We request this cannot be applied to Group comparised of SBI which may have smaller dry of Servers Requirement Can this Training be Virtual Training ? Request bank to Remove the Tender Fees Request bank to Relative the PSG unto I. Cray with 7 Years & A monthe Validity period Request bank to Modify the clause " Price quoted by the Bidder in Reverse auction shall remain valid for duration of 12 candwar months from the date of Purchase order."	No chanoe, as per RFP. No chanoe, as per RFP. No change, as per RFP. The training will be in Bidder/OEM's Laboffore. Howeve bank may ask for virtual or on premsie training. No change, as per RFP. No change, as per RFP. No change, as per RFP.
84 85 86 87 88 89 90 91	86 85 89 <u>3</u> 4 5 19 55	Description of Services 13. Training Tender Fees. EMD Bank Guarantee PERIOD OF BID VALIDITY AND VALIDITY OF PRICE QUOTE IN REVERSE AUCTION IRAI: Eligibility Clause - Point 6	commissionica within 10 weeks from date of clacino of order Then taid obtermined though this RP will be appliedbied to other departments of the metric and the subscriptions, priori ventores, officios, and foreign subscriptions. These entities may place separate purchase orders for additional quantities beyond the 125%. Init specified in this RPP, Each entity will have its own Service Level Agreement (SLA) and payment cycle based on this RPP & SLA. Bidder need to arrange for CEM manufacturing unit visit, cost of which will be borne by the Bank. Bidder need to arrange for training and certification from CEM for 5 Bank. Bidders Level to privide effetberfb. Training on yearly basis on daily operations, performance optimization, troubleshooting and management of storage solution. Rs 2 5000- Rs 2 0000-/Rs Three Crore only Performance Guarantee ii. Price quited by the Bidder in Reverse auction shall remain valid for duration of 36 calendar months forn the date of Purchase order. The Bidder (including its CEM, if any) should either be Class-I local supplier	Request Delivery of 12 Weeks and Implementation of 5 Weeks across Sites Request the Point of Valid for the Entire State Bank Group top be Deleted (Because : The Price discovered in this RPF Is basis the City And is very specific to this RFP) We request this cannot be asolied to Group companies of SBI which may have smaller dry of Servers Requirement Can this Training be Virtual Training ? Request bank to Remove the Tander Eess Request bank to Modify the clause "Price quoted by the Bidder in Reverse auction shall remain valid for duration of 12 calendar momths from the date of Purchase order." Request bank to Kindly remove the Clause	No chanoe, as oer RFP. No chanoe, as oer RFP. No change, as per RFP. The training will be in Biddon/DEM's Labortice, However bank may ask for virtual bording, as per RFP. No change, as per RFP. No change, as per RFP. No change, as per RFP. No change, as per RFP.
84 85 86 87 88 89 90 91 92	86 85 89 <u>3</u> 4 5 55 91	Description of Services 13. Training Tander Faes EMD Bank Guarantee PERIOD OF BID VALIDITY AND VALIDITY OF PRICE QUETE IN REVERSE AUCTION (IRA). Eligibility Clause - Point 6 Commercial Bid	commissionica within 10 weeks from date of dation of order Then tade determined through this RFP will be appliedbied to other departments of the bank, as well also subardiar positions of the softward bank to other departments of the bank, as well also subardiar positions of the softward bank to other departments of the bank, as well also subardiar positions of the softward bank to be the softward in the specified in this RFP. Each entity will have its own Service Level Agreement (SLA) and payment cycle based on this RFP & SLA. Bidder need to arrange for CEM manufacturing unit Visit, cost of which will be borne by the Bank. Bidder need to arrange for training and certification from OEM for 5 Bank folicials. Bidder provide effecters Training on yearly basis on daily operations, performance optimization, troubleshooting and management of storage solution. Rs 2 5000. Rs 2 0000. Crore Rs 2 0000. Ox01: Rs. Three Crore only Performance Guarantee i. Price quived by the Bidder in Reverse auction shall remain valid for duration of 36 calendar months from the date of Purchase order. The Bidder (including its CEM, if any) should either be Class-I or Class-II local supplier a defined under this RFP.	Request Delivery of 12 Weeks and Implementation of 5 Weeks across Sites Request the Point of Valid for the Entire State Bank Group top be Deleted (Because : The Price discovered in this RPF Is basis the Qhy And is very specific to this RPF) We request this cannot be acolied to Group companies of SBI which may have smaller dry of Servers Requirement Can this Training be Virtual Training ? facase Onster. Will this training be at GTC Belapur Request bank to Bernove the Tander Ensi. Request bank to Modify the clause ? Price gotded by the Bidder in Reverse auction shall remain valid for duration of 12 calendar months from the date of Purchase order? Request you to knodly remove this Clause Request you to knodly the datawe? This cost should be in the range upto 12 % p.a. of the Product cost?.	No chanoe, as oer RFP. No chanoe, as oer RFP. No chanoe, as per RFP. The training will be in Bidder/OEM's Lab/dfice. However bank may ask for virtual of on premise training. No chanoe, as per RFP. No chanoe, as per RFP. No chanoe, as per RFP. No chanoe, as per RFP. No chanoe, as per RFP.
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84 85 87 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106	88 3 3 4 5 9 19 55 91 66 87 7 105 77 59 63 63 73 91 63 92 65 63 73 91 62 65 65 66 60		commissionica within 10 weeks from date of date of order The rate determined through this RFP will be applicable to other departments of the bank, as well as its subsidiaries, joint ventures, offices, and foreign subsidiaries. These entities may place separate purchase orders for additional quantifies beyond the 125% limit specified in this RFP. Each entity will have its oon Service Level Agreement (SLA) and payment cycles based on this RFP. 8 SLA. Bidder need to arrange for OEM manufacturing unit visit, cost of which will be borne by the Bank. Bidder to provide entersheer Training and entitistication from CEM for S Bank, officials, Bidder to provide entersheer Training and entitistication from CEM for S Bank, officials, Bidder to provide entersheer Training and entitistication from CEM for S Bank, officials, Bidder to provide entersheer Training and entitistication from CEM for S Bank, officials, Bidder to provide entersheer Training and entitistication from CEM for S Bank, officials, Bidder to provide entersheer Training and entitistication from CEM for S Bank, officials, Bidder to provide entersheer Training and entitistication B is 2.00 Crose B is 3000.000/. IRs These Cores onlyl Performance Guarantee I . Price guided by the Bidder in Reverse auction shall meminix valid for duration of 36 calendar months from the date of Purchase order. The Bidder (including its OEM, If any) should either be Class-I or Class-II local supplier a defined under this RFP. Point 15: 019 - Comprehensive annual Maintainos - This cost should be in the range of Bits to 12% ba. at the Product cost. Point 4 - Delivery of total hardware and software should be completed within 6 weeks. Scope of Work and Payment Schedule (Point 4) - Term of the Project - Minimum 6 Mappower resources on classified with 1 4 weeks. The maximum response time for a maintenance compless to report to the installations after a request call / fax I-email is made of relets is within 31 not exceed 2 (two) hours. Under shall massa t	Request belivery of 12 Weeks and implementation of 5 Weeks across Sites Request the Point of Valid for the Entire State Bank Group top be Deleted (Because : The Price discovered in this RFP is basis the City And is very specific to this RFP) We request this cannot be acolled to Cross connexises of SBI which mus have smaller dev d Barvess Resumment. Can this Training be virtual Training ? ? Request bank to Bernove that Tander Field. Request bank to Bernove that Tander Field. Request bank to Medity the dature ? This cost thould be in the range upto 12 % p.a. of the Product cost? Request bank to Modify the dature ? This cost should be in the range upto 12 % p.a. of the Product cost? Request bank to Modify the dature ? This cost should be in the range upto 12 % p.a. of the Product cost? Request bank to Modify the dature ? This cost should be in the range upto 12 % p.a. of the Product cost? Request bank to Modify the delever upto 10 weeks Bank has requested total 4Nos.13 & 4 Nos-12 Enginners i.e Total 8 Nos engineers, Kindy clarify do bank request by tota kindy removes the should be in the range upto 12 % p.a. of the Product cost? Request bank to Modify the delever upto 10 weeks Bank has requested total 4Nos.13 & 4 Nos-12 Enginners i.e Total 8 Nos engineers on daily basis (247) as per shit. Request by to b kindly modify the response time upto 4 hours Request bank to kindly un modify the resolution time upto 6 hours Kindly modify the alteruse as "SFP propoced along with switches should be compatible with any generation of SAN switches to support interoperability with the existing SAN switches at SBI environment. Request bank to change this clause to usable PIB instead of PB as it will provide the exact usable spoce as sen by the application. PIB is less than PIB in terms of actual usable space consumed by th application. Request bank to change this clause to Usable PIB instead of PB as it will provide the exact usable spoce as sen by the application. PIB is less than PIB in terms of actual usable space consumed by t	No change as per RFP. No change, as per RFP. The training will be in Bidden/OEM's Laboffice. Rever bank may ask for virtual or on premise training. No change, as per RFP. No change as per RFP. No chan

109	71	Object Storage Capacity	Total 10.5 Peta Bytes (PB) (5.25 PB at PR site and 5.25 PB at DR site) usable storage space, 80% NLSAS and 20% NVMe TLC drive based Object Storage for two sites.	Suggestion - As each Storage OEM have their own architecture It is requested that Technical Committee to amend this clause to use SAS SSD TLC drive instead of NVMe SSD TLC. Using NVMe interface for drive doesn add any performance benefits as VVMe is not used and user drivedoca & in Object storage the protocol used in S3 so this point is vendor specific and should be considered for modification as adved.	No change, as per RFP.
110	71	Object Storage Throughput	Sustained Read Throughput: 30 GB/s (Gigabytes per second) or higher per site for object size of 4 MB.	With the sustained throughput asked storage will be filled within a two days time. With 30GB's throughput can with 2.5PB data per dy thus filling the entire storage within two days. Is this realistic throughput required. Considering the 7 years support and planning would request technical committee to adjust the throughput to 7 GB/s With the sustained throughput to 7 GB/s	
			Latency for Small Objects (<1MB) < 10 milliseconds (ms) for both read and write	throughput can read 1.8PB data per day. Is this realistic throughput required. Considering the 7 years support and planning would request technical committee to adjust the throughput to 3 GB/s	No change, as per RFP.
111	71	Object Storage Latency (Response Time)	operations per site.	Latency is the measured used with Block storage the right measure would be TTFB - time to first byte - request technical committee to adjust it to 15ms.	No change as per REP
112	71	Object Storage IOPS (Input/Output Operations	Small Object IOPS (e.g., 4KB): 5,00,000 IOPS or higher for mixed read/write workloads.	IOPs are measure of Block storage performance & not related to object storage rather TPS is the measure used in it. Even considering IOPs formula which is IOPs = throughout / object size there is	
		Per Second)	Large Object IOPS (e.g., 1MB): \$0,000 IOPS or higher for sequential read/write workloads. Proposed Object based storage should be fully distributed, symmetrical and scale-out	discrepancy in the throughput asked versus object size given and IOPs asked in as per point 2 vs ask in point in 4.	No change, as per RFP.
113	73	Object Storage	architecture. Minimum 28 nodes per site should be provided for user data access with minimum 4 numbers of 25Gbps LAN Ports on each node. Each node should be a secarate apoliance or physical servers.	Every OEM has different solution architecture. It is requested that Technical Committee to reduce minimum nodes quantify to 10 All OEMs manufacture enterprise storage products outside of India.	No change, as per RFP.
114	22	Object Storage AWARD CRITERIA AND AWARD OF CONTRACT:	Applicability of Preference to Make in India, Order 2017 (PPP-MII Order)	The SAN4 whitches required for quoting as part of the solution in the tender are also produced outside of India. However, certain services, such as product support and professional services, which are integral to the overall storage solution, are being provided and consumed in India.	
115	61	Performance IOPS, Throughput and Latency	Storage solution per site should handle minimum 80 lacs front end IOPS (8 KB block size, 60% read & 40% write) with maximum 2 ms Server side (initiator) latency with 70% cache hit while having capacity optimization features including angated. Replication, deduplication, compression and encryption enabled. (SI along with OEM need to perform the test on site after delivery with nettreprise level 10 bet to da s part of	Therefore, we kindly request the removal of this clause from the tender document.	No change, as per RFP.
116	63	Number of Racks RAID	accectance of the solution). 19. NVMe disk Raid should be formed with maximum 18 drives in Single RAID Group (16D+2P).	Pl allow Lateorv allowance of 2-4 ms for the QLC NVMe option. Kindly allow the Drive raid group size as per the recommended best practise sizing of the Storage OEM to meet the performance and availability asks	No change, as per RFP.
117	63	Protocols -23	Storage should be enterprise class (declared in publicly available documentation) high end storage		No change, as per RFP. Storage class details should be mentioned on
110	66	Europianal Requirement -62	Array should be supplied with one global hot spare disk for every 25 disks of same	Is analyst reference allowed to be quoted for this point.	publicly available documentation on OEM website.
119	67	Functional Requirement	capacity and speed 62. The Storage array must provide capability for thin and thick provisioning of LUNs along with automatic space reclamation technology	Kindlv allow Equivalent of Soare disk or Reserve soare capacity on the system . Kindly allow Thin/Thick LUN	No change, as per RFP.
120	68	Spares	69. System must have capability to designate global hot spares that can automatically be used to replace a failed disk/drive		Please refer corrigendum No. 3
404	60	Operating During 1.21	75. Proposed Storage must homogeneously integrate with existing Cloud incorporating	In nory allow Equivalent of designate global hot spare disk or Reserve spare capacity on the system .	No change, as per RFP.
121	69	Operating System and Clustering support	Broadcom (VMware) technology stack, Commvault Backup Solution and existing storage environment.	Kindly expand on the integration with existing storage enevironment	existing storage envirement means data should move with help from vmware from existing storage to new storage
122	70	Storage Based Replication	86. RPO for storage-based replication must be near Zero. Proposed storage should support synchronous replication with support for Near Zero RPO and RTO	True Sync replication solution is Zero RPO and RTO, near zero doesn't qualify as Sync but semi-sync / continous replication. is semi-sync/continous replication required instead of Synchronous?	No change, as per RFP.
123	71	Capacity	Total 10.5 Peta Bytes (PB) (5.25 PB at PR site and 5.25 PB at DR site) usable storage space, 80% NLSAS and 20% NVMe TLC drive based Object Storage for two sites	Kindly allow High capacity, High density QLC drives instead of NL-SAS drive as well for the solution to have better perfromance and efficiency.	No change, as per RFP.
124	71	Disk Size	Each data drives should have a maximum capacity of 16.xx TB 7.2k RPM NL-SAS HDD and maximum of 16.xxTB capacity drive in SSD. The Storage podes in the object storage must be provided with redundant physical	Kindly allow High capacity, High density QLC drives for the solution to have better performance ,TCO and efficiency, while delivering the asked resiliency availability and Performance.	No change, as per RFP.
125	71	Ports	The stratege house in the object aidingle must be provided with reducing physical controllers. Minimum 4 numbers of 25Gbps LAN Ports on each node should be provided. Each node should be a separate appliance or physical servers.	Kindly allow OEM to size the required bandwidth at the system/cluster level to deliver the asked throughput/Performance,instead of limiting toper node port/s.	No change, as per RFP.
126	72	Ports	Erasure coded data must be encoded efficiently, regardless of object size. Object Storage shall allow any object to be accessed from any node at any site with most recent version of data always available	the RFP ask-'Object Storage shall allow any object to be accessed from any node at any site with most recent version of data always available' points to inter site/global erasure coding that is not applicable here as the deploymet is for less than 3 sites- here there are only 2Sites in RFp ask- which points to	No change as per RFP.
127	72	Ports	The Object storage proposed should be integrable solution with scale out architecture. Entire solution should be from Single OEM and must provide single point of support for	reolication. Kindry clarify. Kindly expand on the details and level of integration required, also Please allow bidder to quote best of breed solution for Primary as well as Object storage by relaxing the clause of Single OEM for Primary	There will be minimum four sites.
			all levels of issues/escalations for Object Storage.	and Object storage solution.	No change, as per RFP. No change, as per RFP.
128	73	Ports	Tiering should be able to set based on Object Size or policy on age of data.	Is the bank looking to teir data to Hyperscaler cloud, kinIdy share details of the Hyperscaler cloud solution.	Bank may setup integration with AWS, AZURE. Gooole. oracle cloud etc in future.
129	73	Ports	Proposed Object based storage should be fully distributed, symmetrical and scale-out architecture. Minimum 28 nodes per site should be provided for user data access with minimum 4 numbers of 25Gbps LAN Ports on each node. Each node should be a	 Kindly allow nomenclature as -Nodes/blade/controllers. Please allow OEM to size the required bandwidth at the system/cluster level to deliver the asked throughput/Pentomance,instead of limiting to per node port/s. S.Each node definition should be relaxed to allow latest generation future proff storage 	N
130	73	Ports	separate apoliance or physical servers. Two Load Balancers of 25Gbps x 4 throughput should be provided for each Cluster Data Contraction 1.14 mode.	design and architecture's. Latest generation Object storage architecture may not need additional third party external load	No change, as per REP. Please refer corrigendum No. 3
4.24	40		Data Center III PA mode	Detailed, Middle and Market Representation of this clause for architecture solutions and for require external load balancers. Bid Submisson for the subjective RFP is on GEM Portal. & As per GEM GTC - Bidder/vendor who have Turaneware the s 600 servers the subjective RFP is and GEM servers of the State	
131	45			All OEMs produce their enterprise storage products outside of India. Similarly, the SAN switches requiring for inclusion in the tender solution are also manufactured outside of India.	No Change, as per RFP
132	22	AWARD CRITERIA AND AWARD OF CONTRACT:	Applicability of Preference to Make in India, Order 2017 (PPP-MII Order)	However, key services such as product support and professional services, which are crucial to the overall storage solution, are delivered and utilized in India.	No chance as nor REP
133	71	Capacity	Total 10.5 Peta Bytes (PB) (5.25 PB at PR site and 5.25 PB at DR site) usable storage space, 80% NLSAS and 20% NVMe TLC drive based Object Storage for two sites.	Is in equested that the Technical Committee amend this clause to specify the use of SAS SSD TLC drives instead of NVMe SSD TLC as each Storage OEM has its own architecture. The use of the NVMe interface does not provide any performance benefit, as NVMe is not employed as an end-to-end protocol, and in object storage, the protocol used is S3. Therefore, this point is vendor-specific and and abuld be revised as requested	No change, as per RFP.
134	71	Throughput	Sustained Read Throughput: 30 GB/s (Gigabytes per second) or higher per site for object size of 4 MB.	With a 30GB/s throughput, 2.5PB of data can be written per day, which would fill the entire storage within two days. Is such a high throughput realistically required? Considering the 7 years of support and long-term planning, we request that the Technical Committee adjust the throughput to 7GB/s.	
			Sustained Write Throughput: 20 GB/s or higher per site for object size of 4 MB.	Similarly, with the requested sustained throughput of 20GB/s, 1.8PB of data can be read per day, which raises the same concern about the realism of this requirement. In light of the 7-year support period and planning considerations, we request that the Technical Committies edited the throughput to 20P/n	No change, as per REP
135	71	IOPS (Input/Output Operations Per Second)	Small Object IOPS (e.g., 4KB): 5,00,000 IOPS or higher for mixed read/write workloads. Large Object IOPS (e.g., 1MB): 50,000 IOPS or higher for sequential read/write workloads.	IOPs are a measure of block storage performance and are not relevant to object storage, where TPS (Transactions Per Second) is the appropriate metric. Even if we apply the IOPs formula (IOPs = throughput, (object size), there is a discrepancy between the requested throughput, the given object size, and the OPS secolified in coil of years the request in coil 4	No change, as per RFP.
136	60	Cache size	Per controller cache must be minimum of 1 TB in case of 2 controller HA pair	It is requested that the Technical Committee modify the clause to specify a minimum of 512GB cache per array/node/HA pair, as each Storage OEM has its own architecture, and the amount of cache does not impact the performance provided by the storage. Limiting the cache to a specific amount would restrict natringiants from leafing astrongo OEMs and reducibility for carbin of Detections.	No change as per REP
137	77	D. SAN Switch Specifications:	SFPs proposed along with switches should be compatible with any generation of SAN switches for investment protection.	Kindly modify the clause as "SFPs proposed along with switches should be compatible with any generation of SAN switches for investment protection. Also the SAN switches proposed as part of this RFP should integrate with the existing SAN Switches at SBI environment seamlessly"	
138	80	F. Rack Enclosure	Rack Sizing	randy anteria ure n' r point la sopport menoperaaminy mui tre existing unit amornes a dur anvironment.	No change, as per RFP. No change, as per RFP, Bidder has to provide sufficient racks to install all supplied equipment and should be
139	81	F. Rack Enclosure	Environmental Monitoring	rnese suear ne umension of the Kack & dy	standard size of 42U. No change, as per RFP. Bidder can propose both controller based or IPDU based environmental monitoring
140	81	F. Rack Enclosure	Intelligent Power Distribution Units (PDUs)	Please specify controller based or IPDU based environmental monitoring solution	solution No change, as per RFP.
141	81	F. Rack Enclosure	Intelligent Power Distribution Units (PDUs)	Please let us know type of the PDU need to consider Single Phase or three phase iPDU	IPDU should be three phase. No change, as per RFP.
142	71	C. Object Storage Specifications(Category 3):	Total 10.5 Peta Bytes (PB) (5.25 PB at PR site and 5.25 PB at DR site) usable storage	Switching with outlet level monitoring or only outlet level monitoring required Total 10.5 Peta Bytes (PB) (5.25 PB at PR site and 5.25 PB at DR site) usable styrage sname 90%	
143	71	C. Object Storage Specifications(Category 3):	space, 80% NLSAS and 20% NVMe TLC drive based Object Storage for two sites. Sustained Read Throughput: 30 GB/s (Gigabytes per second) or higher per site for object size of 4 MB. Sustained With Throughput: 90 GB/s of binder on site is third	NLSAS/SATA and 20% /W/Me TLC/CLC drive based Obiect Storace for two sites.	No change, as per RFP.
144	71	I hroughput C. Object Storage Specifications(Category 3):	size of 4 MB. Latency for Small Objects (<1MB): < 10 milliseconds (ms) for both read and write	above 4 MB. Sustained Create S3 Bandwidth of 10 GR/s orbite pro state to object size above 4 MB. Latency for Small Objects (<1MB) < 10 milliseconds (me) for both and and wide consider a milliseconds (me) for both and and wide consider a milliseconds (me) for both and and wide consider a millisecond (me) for both and and wide consider a millisecond (me) for both and and wide consider a millisecond (me) for both and and wide consider a millisecond (me) for both and and wide consider a millisecond (me) for both and and wide consider a millisecond (me) for both and and wide consider a millisecond (me) for both and and wide consider a millisecond (me) for both and and wide consider a millisecond (me) for both and and wide consider a millisecond (me) for both and and wide consider a millisecond (me) for both and and wide consider a millisecond (me) for both and and wide consider a millisecond (me) for both and and wide consider a millisecond (me) for both and and wide consider a millisecond (me) for both and and wide consider a millisecond (me) for both and and wide consider a millisecond (me) for both and and wide consider a millisecond (me) for both and and wide consider a millisecond (me) for both and and wide consider a millisecond (me) for both and and wide consider a millisecond (me) for both and and wide consider a millisecond (me) for both and and wide consider a millisecond (me) for both and and wide consider a millisecond (me) for both and and wide consider a millisecond (me) for both and and wide consider a millisecond (me) for both and and wide consider a millisecond (me) for both and and wide consider a millisecond (me) for both and and wide consider a millisecond (me) for both and and wide consider a millisecond (me) for both and and and millisecond (me) for both and (me) f	No change, as per RFP.
		Latency (Response Time)	operations per site. Latency for Large Objects (>100MB): < 100 ms for read operations. Small Object IOPS (e.g., 4KB): 5,00,000 IOPS or higher for mixed read/write workloads.	Latency for Large Objects (>100MB): < 100 ms for read operations.	No change, as per RFP.
145	71	IOPS (Input/Output Operations Per Second)	Large Object IOPS (e.g., 1MB): 50,000 IOPS or higher for sequential read/write workloads.	Small Object S3 TPS (e.g.1 MB): 50000 or higher for mixed read/write workloads. Large Object S3 TPS (e.g. 200MB): 60000 or higher for sequential read/write workloads.	No change, as per RFP.
1.40	71	C. Object Storage Specifications(Category 3): Disk Size	Each data drives should have a maximum capacity of 16.xx TB 7.2k RPM NL-SAS HDD and maximum of 16.xxTB capacity drive in SSD.	Each data drives should have a capacity of 16.xx TB or higher, 7.2k RPM NL-SAS/SATA HDD and maximum of 16 xxTB or higher capacity drive in SSD	No change as per REP

147	71	C. Object Storage Specifications(Category 3): Resiliency	The object storage must be enterprise class object storage that provides no single point of failure, high resiliency, and redundant components with 99.9999% data availability and untime quaranteed on yearly basis:	The object storage must be enterprise class object storage that provides no single point of failure, high resiliency, and redundant components with 99.999% data durability and uptime guaranteed on yearly basis	No change, as per REP
148	72	C. Object Storage Specifications(Category 3): Point 10	Erasure coding algorithm provided must support data protection against 3 or more simultaneous nodes / disks failures across the storage nodes.	Erasure coding algorithm provided must support data protection against 3 or more simultaneous disks or sincle node failures arrows the storage nodes	No change, as per REP
149	72	C. Object Storage Specifications(Category 3): Point 12	Erasure coded data must be encoded efficiently, regardless of object size. Object Storage shall allow any object to be accessed from any node at any site with most constructions of data given a weighted	Erasure coded data must be encoded efficiently, regardless of object size. Object Storage shall allow any object to be accessed from any node at any site with most recent version of data always available with stores eventstates.	
150	73	C. Object Storage Specifications(Category 3): Point 25	recent version of data always available. Object storage must be supplied with ability to tier objects from local disk to external charace storage tier like S3 compliant storage. Public Cloud	with strong consistency Object storage must be supplied with ability to copy objects from local disk to external cheaper storage	No change, as per RFP.
151	73	C. Object Storage Specifications(Category 3):	Tiering should be able to set based on Object Size or policy on age of data.	like S3 comoliant storage. Public Cloud.	No change, as per REP.
150	70	C. Object Storage Specifications(Category 3):	Proposed Object based storage should be fully distributed, symmetrical and scale-out architecture. Minimum 28 nodes per site should be provided for user data access with	Copy of object to cloud should be able to set based on Object Size or policy on age of data. Proposed Object based storage should be fully distributed, symmetrical and scale-out architecture.	No change, as per RFP.
152	73	Point 28	minimum 4 numbers of 25Gbps LAN Ports on each node. Each node should be a separate appliance or physical servers.	Minimum 4 numbers of 25Gbps LAN Ports must exist on each node Each node should be a separate appliance or physical servers.	No change, as per RFP.
153	74	C. Object Storage Specifications(Category 3): Point 39	with maximum 2 hours response time with 6 hours Call to Resolution including part replacement, access to OEM support portal, OEM technical support on 24X7X365	Five years Warranty and 2 years AMC - 24x7 comprehensive onsite support from OEM with maximum 6 hours response time including part replacement, access to OEM support portal, OEM technical support or 0.4YTY/0.5 here is lifeware and of meaning and the support including the support of the su	
			basis. Highest Level of Proactive and Reactive support covering Hair yearly Firmware analysis, and Proactive Health analysis. 50% + taxes of the storace solution (hardware, software and warranty) will be released	on 2477Abb basis. Fightest Level or Productive and Reactive support covering hair yearly Printware analysis, and Proactive Health analysis.	No change, as per RFP.
			on delivery of hardware. * Remaining 50% + taxes of the storage solution (hardware, software and warranty) will be released on writestation of bill of material, storage capacity and performance as always		
154	89	Payment Scheudle	in the RFP by Bank/CDAC/Third party and commissioning of storage solution as well as submission of PBG.		
			 No payment will be made on part delivery or ordered nardware. The product should be under warranty for 5(Five) years. Post warranty period, AMC will be for 2 (two) years. AMC charges will be paid on a quarterly basis in arrears only. 		
155	55	SI. No. 3 of Bidder's Eligibility Criteria	Manpower charges will be paid on actuals on monthly basis in arrears. The Bidder must have an average wmover of minimum BE 2500 Crose during last 03 (three) financial year(s) is EY2021.	80% on delivery. 10% on PBG & 10% on Sian off. To increase the participation, request you to please change the clause to "The Bidder must have an average turning region of the state of the state of thread financial year(c) is EV2021-22.	No change, as per RFP.
135	56	SI. No. 7 of Bidder's Eligibility Criteria	22. FY2022-33 and FY2023-24. Client references and contact details (email/landine/mobile) of customers for whom	we have one PO (Purchase Order) of 6 PB Storage and second PO of 4.9 PiB storage. We request you	No change, as per RFP.
156			the block has executed similar projects in mola claim and the base of the region of the past of the past (At least 2 client references of total 5 Peta Bytes are required)	to consider these POs as a compliance of this clause.	Yes, as total comes to 10PB
157	66	Point 8	43. Submit minimum two (DC+DR) implementation reference configured with cross site reolication between sites by the bidder. Total 10.5 Peta Bytes (PB) (5.25 PB at PR site and 5.25 PB at DR site) usable storage	?	No change, as per REP.
158	71	SI No.1 Capacity	space, 80% NLSAS/SATA and 20% NVMe TLC/QLC drive based Object Storage for two sites.	Please update this to reflect : NL-SAS/SATA and QLC/TLC	No change, as per REP. No change, as per REP.
159	71	SI No.2 Throughput	Sustained Read S3 bandwidth of 30 GB/s (Gigabytes per second) or higher per site for object size above 4 MB. Sustained Create S3 Bandwidth of 10 GB/s or higher per site for object size above 4 MB.	Higher object size is advantageous. Is there a specific reason for the 4MB object size based on workload ?	The choice of a 4 MB object size is based on optimizing throughput and latency for our
160	71	SI No.3 Latency (Response Time)	Latency for Small Objects (<1MB): < 10 milliseconds (ms) for both read and write operations per site. Latency for Latency Objects (<100MB): < 100 ms for read economics	Defining latency depends on workload, underlying infra. These values are steep for object storage solutions for archive and tertiary workloads	specific workloads.
161	72	SI No.10	Erasure coding algorithm provided must support data protection against 3 or more simultaneous disks or single node failures across the storage nodes.	28 Nodes with 3 disks/incde failure and 6 9's availability is mathematically inaccurate. This needs to be updated to safeguard data as an entity and not individual disks.	No change, as per RFP.
162	72	SI No.12	Erasure coded data must be encoded efficiently, regardless of object size. Object Storage shall allow any object to be accessed from any node at any site with most recent version of data always available with strong consistency.	Strong consistency methodology of data access	No change, as per REP
163	73	SI No.25	Object storage must be supplied with ability to copy objects from local disk to external cheaper storage like S3 compliant storage, Public Cloud.	Why would tiering be required ? The object storage is being used for archive workload, which is the last fier in data movement for long term retention. Movement of data/copy to cloud can be considered here.	No change, as per PEP
164	73	SI No.27	Proposed Object based storage should be fully distributed, symmetrical and scale-out architecture. Minimum 4 numbers of 25Gbps LAN Ports must exist on each node Each	Why specifically this number ? If the other parameters are met, and can be accomplished with less number of nodes?	No diando, ap por NTT.
165			100e should be a sebarate abbitance or brivsical servers.	We reuest you to revise this clause as "75% + taxes of the storage solution	No chande, as ber KHY.
100	89	Payment schedule	(hardware, software and warranty) will be released on delivery of hardware.	(hardware, software and warranty) will be released on delivery of hardware."	No change, as per RFP.
166			Remaining 50% + taxes of the storage solution (hardware, software and warranty) will be released on verification of bill of material, storage capacity and performance as given in the RFP by Bank/CDAC/Third party and commissioning of storage solution as well	We request you to revise this clause as "Remaining 25% + taxes of the storage solution (hardware, software and warranty) will be released on verification of bill of material. storage capacity and performance as given in the RFP by	
	81	Payment schedule	as submission of PBG	Initiation of bin maturity, service depends and personalities of great in the for the formation of storage solution as well as submission of PBG Like all thing performance, depends on various equipmental factors, hence it is technically not	No change, as per RFP.
			3. Storage solution at each site should handle minimum 300 lacs front end IOPS (8 KB	feasible to commit by a Storage vendor in isolation, For Ex. a slow host can not drive a storage to deliver low latency, or if there is synchronous replication for the Storage Volumes, the latency would directly	
167	60	SI No.2, Performance -IOPS, Throughput and	block size, 60% read & 40% white) with maximum 1 ms Server side (initiator) latency with 70% cache hit while having capacity optimization features including snapshot, Replication, deduplication, compression and encryption enabled. (SI along with OEM	aepend on the intersite R I I which can not be better than speed of light. Performance quoted should be with encryption and compression enabled. If for example vendor offers	
			need to perform the test onsite after delivery with enterprise level IO test tool as part of acceptance of the solution).	2:1 compression guarantee, the price to be paid by the customer will significantly come down while meeting stated performance requirements.	
				While the above statement are to be taken into consideration , IBM Storage can deliver consistent <1ms response time with HW based Compression/encryption without any scalability challenges.	No change, as per RFP.
				This clause should be removed as setting a low minimum value is making vendors quote lower end boxes rather than quoting the top of line storage with minimal controllers thereby	
				1) ensuring better load handling of peaks due to large size 2) less movement of data from one controller to another.	
168	60	SI No.2, Performance - Cache size	4. Per controller cache must be minimum of 1 TB in case of 2 controller HA pair. If 4 controller HA pair system is proposed, then global cache must be minimum 2 TB.	Also while above statement are to be taken in to consideration IBM Can offer building blocks with a family of enterprise class Dual redundant controllers with >1TB Cache per Node & multiple generation to be federated as a single manageable unit for ease of administration and data movement, including	
				Al assisted placement, while keeping fault domains completely isolated.	
				Removal or changes to the clause mounted as above would help more storage CEWs to pancipate thereby giving advantage to the bank with more options and better price.	
				IBM has been supplying High performance/Capacity NVMe QLC based enterprise Flash Drives called FalshCore Modules which delivers best in class performance, sustainability thanks to advance HW only	No change, as per RFP.
				data path of this computational storage. It programs dynamically programs QLC in SLC mode to maintain high performance and durability.	
169	60	SI No.2, Performance - Disk size	 Maximum size of each NVMe storage drive should be less than 18.xx TB with TLC (Triple Level Cell) drives only 	The performance requirement asked can easily be met with QLC which is already 5 years old and can offer superior price performance.	
				It would be desirable if the restriction on the spindle size and the drive type is modified as above which would help more OEMs to participate thereby giving advantage to the bank with more options and better	
-				nnne of The no of controllers being asked for is excessive considering similar requirements. In essence for 9 PB of storage, 80 controllers translates to less than 100 TR ner controller. This will lead to used on offician	No cnance, as per RFP.
170	60	SIMo 4. Number of Booling, Consultant	7. The proposed solution model should have at least 80+80 (PR+DR) Storage	low end storage, more complex SAN network, and high operational cost to manage this setup including data movement for peak loads. Today top of the line controllers support 1 PB+ with compression and concentions peaked This will under the SAN mich.	
170	ou	Grades - Controllers	which should be divided in not more than 8 storage clusters per site.	BM will be happy to present its point of view with more details on a face to face session, if bank is not	
				LOURNINGED ON INSM PLVV. SINCE the Pre bid queries are public and will be circulated to all vendors and hence it will be not appropriate to put in all the details here.	No change, as per RFP.
			3. Storage solution per site should handle minimum 80 lacs front end IOPS (8 KB block	Like all thing performance , depends on various environmental factors , hence it is technically not feasible to commit by a Storage vendor in isolation, For Ex a slow host can not drive a storage to deliver low latency or if there is synchronous replication for the Storage Volumes , the latency would directly	
171	61	SI No.2, Performance -IOPS, Throughput and	size, 60% read & 40% write) with maximum 2 ms Server side (initiator) latency with 70% cache hit while having capacity optimization features including snapshot, Replication, deduclication, compression and encomine neahled (SI along with OEM	depend on the Intersite RTT which can not be better than speed of light. Performance quoted should be with encryption and compression enabled. If for example vendor offere	
	[Latency	need to perform the test onsite after delivery with enterprise level IO test tool as part of acceptance of the rolution)	2:1 compression guarantee, the price to be paid by the customer will significantly come down while meeting stated performance requirements.	
			soluton).	While the above statement are to be taken into consideration , IBM Storage can deliver consistent <2ms response time with HW based Compression/encryption without any scalability challenges.	No electro es por DED
				This clause should be removed as setting a low minimum value is will make vendors quote lower end boxes, rather than quoting the top of line storage with minimal controllers thereby	nio change, as pel KFP.
			4. Per controller cache must be minimum of 512 GB in once of 2 controller LA * 4	 ensuring better load handling of peaks due to large size less movement of data from one controller to another. 	
172	61	SI No.2, Performance - Cache size	controller HA pair system is proposed, then global cache must be minimum 1 TB.	Also while above statement are to be taken in to consideration IBM can offer building blocks with a family of enterprise class dual redundant controllers with >512 TB Cache per Node & multiple executions the forderated are classed as a class of the statement	
				generation at the teatmand as a single manageable unit for ease of administration and data movement , including AI assisted placement, while keeping fault domains completely isolated.	No change, as per RFP.
				It would be desirable if the restriction on the spindle size and the drive type is modified as above which would help more OFMs to participate thereby giving advantance to the bank with more particle and before	
173	61	SI No.2, Performance - Disk size	 Maximum size of each NVMe storage drive should be less than 30.xx TB with TLC or QLC drives. 	Price.	
-				If uns causes is removed pank will benefit from the engineering advancements in this field to get a better cost / performance benefit & better alignment towards suitability goals. No Storage OEM can promise this. For Example. In case say for final 6 if more than 2 diske fail there	No change, as per RFP.
174	61	SI No.1, Reliability and Availability - Data Loss	1. The storage solution should support NO data loss in any case.	would be chance of data loss as the same is factor of fault tolerance of a particular R id config chosen. And not only IBM storage, any other Storage OEM in the industry will face the same situation.	
				Request to Review this point and modify it suitably for the tolerance offered for the particular Raid Level sought.	No change, as per RFP.
175	61	SI No.1, Reliability and Availability - Availability	 Storage Solution should be an enterprise storage array with 99.9999% data availability and uptime guaranteed with per HA Pair/Quad architecture on yearly basis. 	Calculating Uptime Per HA Pair / Quad Architecture is Vendor Specific term . Request bank to make it vendor neutral that will allow for more vendor to participate .	
L	1			IBM Storage with dual redundant controller does offer a 99.99999 or 7 Nine's of availability .	No change, as per RFP.

176	62	SI No.1, Reliability and Availability - Scalability	3. The Proposed solution array must allow online expansion of existing RAID Groups / Storage Disk Pods	Raid expansion of existing array would not be good practice, this would require a re-stripping of data across the whole storage and same might lead to perfissue. Request to Review this point and modify it suitably. Technically IBM Storage does support this req.	Na change, or por REP
177	62	SI No.1, Reliability and Availability - Data Durability	5. There should not be any data loss in any condition even during failures and disasters	No Vendor can promise this. For Example, in case say for Draid 6 if more than 2 disks fail there would be chance of data loss as the same is factor of fault tolerance of a particular Raid config chosen. And not only IBM storage, any other vendors in the industry will face the same situation. Request to Review this point and modify it suitably for the tolerance offered for the particular Raid Level sought.	No change, as per RFP.
178	63	Point No. 13	 Storage solution must include necessary storage plugins (CSI) and licenses for use with container and Kubernetes based workloads. This must be supported for both block- based and NFS based storage presented from the storage solution. 	Beyond block interface this req is asking for file interface too. Request bank to segregate req for Block & File (Posit, SMB) separately into File Storage requirement. The change suggested above would allow multiple OEMs to participate thereby giving advantage to the bank with more options and better price.	No channe, as per REP
179	63	Paint No.18	18. The proposed storage solution must be fully compatible with Commvault Backup and Broadcom (Mware) software's as well as other industry leading backup. witualization and cloud software's using the entire contract period. The bidder will be completely responsible for end-to-end integration of the proposed solution with the existing setup.	The Scope of the RFP is for supply and integration of the Storage with the existing setup of the ban. k For Communit backup and WMWare the BidderSystem integrator would configure the storage arrays as per the vendors best practices. The configuration charges required on Communit/WMare and other applications in the bank are to be performed by the respective Vendors. The configuration of the applications of the bank are to be performed by the respective Vendors. The configuration of VMware and any uninhom in industry standard software with storage is imagenoriate. It will be a collaborative effort, we will recommend implementation best practices however the implementation of configuration is to be done by Bank or vendor supporting deployment of those software. Kindly confirm the understanding.	
180	63	Point No.19	19. NVMe disk Raid should be formed with maximum 18 drives in Single RAID Group (16D+2P).	Many of our global clients including top banks & enterprises shares with us requirements only in terms of performance & throughput desired. They do not insist on components are used internally to attain the stated objectives. Hence requesting bank to share or request only the desired performance or throughput objectives	No change, as per REP.
181	64	Paint No.25	25. The storage solution must support non- disruptive upgrade of core software, firmware, snapshot, clone, remote mirroring, and management software without shutting down the storage system. All hosts (initiators) and NFS clients attached to the storase solution must be fully coeraind ultring system level or maintenance upgrade.	considering the variety of different storage architectures followed by divergent storage OEM's Beyond block interface this req is asking for file interface / Posix interface too. Request bank to segregate req for Block & File (Posix / SMB separately into File Storage req. The chance subcested above would allow multiple OEMs to participate thereby diving advantage to the	No chance, as per RFP.
182	64	Point No.28	procedures and be able to access the storage in full capacity 28. Each controller operating in an active- active cluster environment should have mirroring support for the system's value cache must be stately protected with unwritten data in write cache protected for up to 72 hours in event of power failure. Data integrity must be retained in any case.	bank with more options and better price. In IBM Architecture, the Write cache data is written down to a section of the pensistent boot drives (gain dual redundly using contrelevatery backup, and the nodes shouldown grandelily to help a quick restart when power returns. When full redundancy is NOT available for any reason, controller use write-through mode, disabiling write cache to reduce its, while activates full read-cache to the section of the	No change, as per RFP.
183	64	Point No.30	30. Each controllier must have minimum 4 (2 primary and 2 secondary) x 10 Gbps fiber LAN ports or minimum 2 (1 primary and 1 secondary) 25 Gbps or higher fiber LAN ports dedicated for serving iscsi and NFS.	maintain read enformance. Bank has asked for Enterprise storage with less than 1ms response time. We can't get less than 1 ms reponse in any of the NFS env. Hence this is contradictory to the performance claim req and would request bank to segregate the Block 5. Ref workbacks. The change suggested above would allow multiple OEMs to participate thereby giving advantage to the	No change, as per RFP.
184	65	Point No.34	34. Scale out architecture should have at least 100 Gbps bandwidth per controller for backend interconnect switches / InfiniBand switches / pci-e based multiliane connectivity between all HA pair. It is required for quick migration of datastore from One HA pair to another HA pair.	Bill refirms considering allest as Fashford. Flash Gold is a collection of single I/O group FlashSystem or SVC systems that locks and feel if us a high storage solution, providing single pane of glass management and non- disruptive migration BM will be happy to present its point of view with more details on a face to face session, if bank is not commiced in BM POV. Since the Pre-bid queries are public and will be circulated to all vendors and hence we cannot put in all the details here.	No change, as per KrP.
				The change suggested above would allow multiple OEMs to participate thereby giving advantage to the bank with more options and better price.	No change, as per RFP.
185	65	Point No.37	37. The storage should dynamically allocate Read Cache and Write Cache from the available cache to accommodate the I/O. The storage architecture should provide batery backup to the entite write cache in case of a disaster i.e. Data in cache should be protected against unexpected power failures for 72 hours of time.	(again dual redundant) using controller battery backup: and the nodes shoutdown gracefully to help a quick restart when power returns. When full redundancy is NOT available for any reason , controller uses write-firtogal mode, disabiling write cache to reduce risk, while activates full red-cache to maintain read performance.	
186	65	Point No.41	41. The proposed storage solution must be fully compatible with Broadcom (VMware) Virtualization porticlic and Commvault Stack. The bidder and OEM will be responsible for end-to-end integration of the proposed solution with the existing VMware setup	Request to remove low level implementation related seedfach from the RFP. The Scope of the RFP is for supply and integration of the Stonge with the existing setup of the bank. For Commwall backup and VMWare the BidderSystem integrator would configure the storage arrays as per the vendros best practices. The configuration changes required on Commwall/WMare and other applications in the bank are to be performed by the respective Vendros. The configuration changes required on Storage array would be addressed by the bidder. The end-oned configuration collaborative effort, we will recommend implementation best practices however the implementation of configuration is to be done by Bank or vendro supporting deployment of those software.	No change, as per NFP.
187	66	Paint No.52	52. Array should be supplied with one global hot spare disk for every 25 disks of same capacity and speed.	New Age Performant storages like one provided by BM use advanced RAID Distributed Raid or DRAID technologies. DRADE is advanced format as compared to traditional raid. Here a particular disk is not used as hot pare, the space required for hot space capacity is sliced across all the disks in a rargy. This helps to speed up the rebuild in case any disk laiure, so instead of writing to one disk as in traditional raid the space capacity would be written to all available disks in a rargy and rebuild much faster. The change suggested above would allow multiple OEMs to participate thereby giving advantage to the bank with more options and better price.	No change, as per RFP.
188	68	Point No.65	65. The proposed solution should have provision to protect and recover data in case of ransomware or malware attack for SAN & NAS workloads. Any license required should be provided on Dav one for full capacity of system	Bank has asked for Enterprise storage with less than 1 ms response time. We can't get less than 1 ms response in any of the NFS env. Hence this req is contradictory to the performance claim req and would reouves thank to searecate the Block & File workloads.	No change, as per RFP.
189	69	Point No.72	72. At each site minimum 15 spare disks as per the supplied type of disk, to be kept in storage area. Upon faiture of disk, replacement will be done from onsits spare. The spare will be replenished upon consumption of the spare disk by the OEM.	In New age Enterprise storages, rate of disk failure is very low. IBM offers patented & class leading FCM Flash Core Module disks that perform through the life of the storage without failure. Bank to recheck this req for req onsite spare disks	No change, as per RFP.
190	71	SI No.1 Capacity	Total 10.5 Peta Bytes (PB) (5.25 PB at PR site and 5.25 PB at DR site) usable storage space, 80% NLSAS and 20% NVMe TLC drive based Object Storage for two sites	Requesting bank to only indicate for the end performance numbers. As Every vendor would have a different design. Moreover on performance front the RPF is clearly defining the performance requirement. The Flash Drives could be either TLC, QLC or combination of TLC & QLC.	No change, as per REP.
191	71	SI No.3 Latency (Response Time)	Latency for Small Objects (<1MB): < 10 milliseconds (ms) for both read and write operations per site. Latency for Large Objects (>100MB): < 100 ms for read operations.	The Large object / Small object definition is vendors specific and its capacity definition is very low. There is contradiction the total throughput required as stated in earlier throughput required and the object size mentioned in this point, Suggest bank to recheck this req and modify as applicable.	No channe as ner RFP
192	71	SI No.8 Ports	The Storage nodes in the object storage must be provided with redundant physical controllers. Minimum 4 numbers of 25Gbps LAN Ports on each node should be provided. Each node should be a separate appliance or physical servers.	Bank should only request for the end performance no . Every vendor would have a different design. Moreover on performance front the RPF is clearly defining the performance requirement. The req stated that each node should be an appliance or Physical server. Bank should review the same to allow to allow multiple OEMs to participate thereby giving advantage to the bank with more options and better price.	119 (119 119 11 11 1 1 1 1 1 1 1 1 1 1 1
193	72	SI no. 13	Object Storage shall provide an efficient way to store small object and large object automatically	Requesting bank to only indicate for the end performance numbers. As Every vendor would have a different design. Bank should review the same to allow the allow multiple OEMs to participate thereby giving advantage to the bank with mean online.	No change, as per RFP.
194	73	SI no. 28	Proposed Object based storage should be fully distributed, symmetrical and scale-out architecture. Minimum 28 nodes per site should be provided for user data access with minimum 4 numbers of 25Gbps LAN Ports on each node. Each node should be a secarate accelence or chivicial servers.	Requesting bank to only indicate for the end performance numbers. As Every vendor would have a different design. Bank should review the same to allow to allow multiple OEMs to participate thereby giving advantage to the bank with more options and better price.	No change, as per RFP.