Responses to Pre Bid Queries : Supply, Installation, Commissioning and Maintenance of Servers & Storage Solution

IT Cloud Solutions/FY:2025-26/RFP/1371 Dated: 05/08/2025

Sl. No	RFP Page No	RFP Clause No	Existing Clause	Query/Suggestions	Bank's Response
1	88	N. Storage, Capacity and scalability, Quantity and Location - 5	Each storage system shall be offered in its maximum scalable configuration as per OEM design, ensuring the highest levels of performance, availability, and throughput. This includes fully populating all controller nodes/modules/enclosures, along with redundant power, fabric, cache, and other critical components.	Request to change the language to " Each stoarge system shall be offered with min required configuration as per OEM design to meet the capacity and perfromance requirements of the RFP" Asking OEMs to fully populate the storage system penalizes the OEM which is offering better scalability. They would have to populate more than required cache and controllers than requested in the RFP tilting the scale in favor of the OEM with limited scalability	No Change, as per RFP
2	88/89	N. Storage, Performance, IOPS, Throughput and Latency - 6	Each individual storage system must provide a minimum of 30 million IOPS using a 8KB block size,100%Random read hit as validated through an official datasheet or vendor web link. Accordingly, the total performance capacity per site for all storage system (DC and DR) must be no less than 120 million IOPS (SI along with OEM need to perform the test onsite after delivery with enterprise level IO test tool as part of acceptance of the solution).	The requested IOPS does not pertain to a practical scenario as an 100% random read hit is not real workload scenario. Request the bank to help with performance details (70:30 read write ratio / 60:40 Ratio with 8/16K Block size) Which is inline with earler SBI RFPs(Meghdooth)	Please refer Corrigendum No. 1
3	3	N. Storage, Performance, IOPS, Throughput and Latency - 7	Four controller HA pair should have minimum 2 TB global cache	This is very specific to a single OEM and penalizes OEMs with more caching options. Request the bank to mention the total cache per location and allow OEMs to size the solution as per their architecture meeting the capacity, cache and performance requirement per location	No Change, as per RFP
4	89	N. Storage,Number of Racks and controllers, Controllers- 10	A single storage system must support at least 12 controllers in a symmetric active-active architecture with a global cache architecture across controllers.	This is very specific to a single OEM and the point no 5 penalizes OEMs with higher controller architecture. Request the bank to specify the min requirement of controllers and allow the OEMs to size as per their architecture to meet the demands of the workload	No Change, as per RFP
5	89	N. Storage,Reliability and Availability, Availability - 2	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.	The uptime guarantee is vendor specific and request the bank to remove the same and only request for data availability	No Change, as per RFP
6	92	N. Storage , Architecture & Processing power, FC ports - 29	Each controller Storage solution must have minimum 8 (4 primary and 4 Secondary) 32Gbps SAN FC ports dedicated for serving SAN requests of Host. Additionally, these ports should also support NVME over fabric protocol	Bank is opting for 64G SAN directors and only 32G ports on storage. The industry today has moved to 64G and considering an enterprise SAN which would have a life of 7 years, it is logical to ask 64G speed. Kindly modify to 64G as it would be in the best interest of SBI	No Change, as per RFP
7	94	N.Storage, Cache requirements, maximum cache capacity - 36	The proposed Array should be configured with maximum supported Cache to its full Cache capacity on day one	Kindly request to remove this point as this penalizes the OEM with better cache scalability. The cache is to be configured based on the requirements of the RFP and the workload. This clause tilts the balance in the favor of OEM with lower scalability. Lower scalability of cache is detrimental to the bank with regards to future growth needs, but this clause is in favor of OEMs with lower scalability options	No Change, as per RFP
8	96	N.Storage, functional requirements - 52	Array should be supplied with one global hot spare disk for every 25 disks of same capacity and speed.	Dell PowerMax does not use traditional dedicated or assignable hot spares in the same way as older storage arrays or as some midrange arrays do. Instead, PowerMax implements what's termed as distributed sparing where in the spare space is distributed across all the available drives in the storage pool, Request bank to remove this point as this is not relevant to mordern all NVMe all flash arrays which use NVMe SSD where the MTBF is very high as compared to the traditinal rotating disks ,or Request the Bank to at least change the hot spare count to one drive for every fifty drives.	No Change, as per RFP
9	97	N.Storage, functional requirements - 62	The Storage array must provide capability for thin and thick provisioning of LUNs along with automatic space reclamation technology	Dell PowerMax Support thin provisioning allowing efficient space utilization and wide striping at the backend, Request bank to remove thick provisioning	Please refer Corrigendum No. 1
10	65	Rack server Category 1, 5, Memory	On Day One (with 1.5 TB installed), the memory must operate at a minimum effective speed of 4800 MT/s. After upgrading to 2 TB, the effective memory speed must not fall below 4800 MT/s. A maximum acceptable degradation from 5600 MT/s to 4800 MT/s is permitted due to system design or memory controller constraints.	The proposed category of servers is stoarge dense and hence comes with lesser scalability on DIMMs. Kindly restrict scalability to 1.5TB on RAM for wider participation or remove the clause pertaining to scalability; Due to architectural limitations, the RAM speed downgrades to 4400MT/s , kindly relax this clause for wider participation	Please refer Corrigendum No. 1
11	65	Rack server Category 1, 5, Memory	Should support scalability for at least 2 TB without having to replace the existing DIMMs	The proposed category of servers is stoarge dense and hence comes with lesser scalability on DIMMs. Kindly restrict scalability to 1.5TB on RAM for wider participation or remove the clause pertaining to scalability; Due to architectural limitations, the RAM speed downgrades to 4400MT/s , kindly relax this clause for wider participation	No Change, as per RFP
12	66	Rack server Category 1, 8, Enterprise class Internal SSD Disk	1 x 960 GB M2 SSD drives or higher	Maximum 2 x M.2 drives are possible per system. This is laready asked for under this category. Kindly confirm if this 1 x 960GB can be normal disk and not M.2	Please refer Corrigendum No. 1
13	66	Rack server Category 1, 8, Enterprise class NVMe SSD Disk	1 x 4 TB NVMe or higher enterprise class disk	NVMe are available is 3.84TB or 7.68TB; Kindly suggest if 3.84TB can be quoted for this NVMe	Please refer Corrigendum No. 1
14	67	Rack server Category 2, 5, Memory	Should support scalability for at least 2 TB without having to replace the existing DIMMs	The proposed category of servers is stoarge dense and hence comes with lesser scalability on DIMMs. Kindly restrict scalability to 1.5TB on RAM for wider participation or remove the clause pertaining to scalability; Due to architectural limitations, the RAM speed downgrades to 4400MT/s , kindly relax this clause for wider participation	No Change, as per RFP

15	69	Rack server Category 3a, 6, Raid controller	RAID Controller supporting RAID 0 and 1	As this server has only M.2 drives and NVMe drives, the M.2 drives come with their only internal raid. Kindly confirm if we can quote without additional raid controllers	No Change, as per RFP, Hardware RAID should be created for operating system for 2* 960 M2 disk only. If bidder is not able to achieve this via Internal hardware RAID they need to quote additional RAID controller.
16	70	Rack server Category 3b, 6, Raid controller	RAID Controller supporting RAID 0 and 1	As this server has only M.2 drives and NVMe drives, the M.2 drives come with their only internal raid. Kindly confirm if we can quote without additional raid controllers	No Change, as per RFP, Hardware RAID should be created for operating system for 2* 960 M2 disk only. If bidder is not able to achieve this via Internal hardware RAID they need to quote additional RAID controller.
17	72	Rack server Category 4, 6, Raid controller	RAID Controller supporting RAID 0 and 1	As this server has only M.2 drives and NVMe drives, the M.2 drives come with their only internal raid. Kindly confirm if we can quote without additional raid controllers	No Change, as per RFP, Hardware RAID should be created for operating system for 2* 960 M2 disk only. If bidder is not able to achieve this via Internal hardware RAID they need to quote additional RAID controller.
18	74	Rack server Category 5, 8, Enterprise class Internal NL SAS Disk	2 x 4 TB NL SAS or higher enterprise class disk	The latest generation of CPU requested is available with only 2.5 inch chassis and does not support 4TB drives. Kindly change the requirement to 3.84TB NVMe instead of 4TB NL-SAS for better performance and wider participation	No Change, as per RFP
19	75	Rack server Category 6, 7, Enterprise class Internal SSD Disk For Operating System with RAID	2 x 960 GB M2 SSD drives or higher having capability to be used as Mirror Disk with Above RAID controller for installing the operating system	Category 6 has been requested with 4 x M.2 drives and the system supports only 2 x M.2 drives. Kindly confirm if we can quote the remaining drives as internal disks	No Change, as per RFP
20	75	Rack server Category 6, 8,Enterprise class Internal SSD Disk	2 x 480 GB M2 SSD drives or higher	Category 6 has been requested with 4 x M.2 drives and the system supports only 2 x M.2 drives. Kindly confirm if we can quote the remaining drives as internal disks	Please refer Corrigendum No. 1
21	77	Rack server Category 7, 6, Raid controller	RAID Controller supporting RAID 0 and 1	As this server has only M.2 drives and NVMe drives, the M.2 drives come with their only internal raid. Kindly confirm if we can quote without additional raid controllers	No Change, as per RFP, Hardware RAID should be created for operating system for 2* 960 M2 disk only. If bidder is not able to achieve this via Internal hardware RAID they need to quote additional RAID controller.
22	78	Rack server Category 8, 6, Raid controller	RAID Controller supporting RAID 0 and 1	As this server has only M.2 drives and NVMe drives, the M.2 drives come with their only internal raid. Kindly confirm if we can quote without additional raid controllers	No Change, as per RFP, Hardware RAID should be created for operating system for 2* 960 M2 disk only. If bidder is not able to achieve this via Internal hardware RAID they need to quote additional RAID controller.
23	79	Rack server Category 9, 6, Raid controller	RAID Controller supporting RAID 0 and 1	As this server has only M.2 drives and NVMe drives, the M.2 drives come with their only internal raid. Kindly confirm if we can quote without additional raid controllers	No Change, as per RFP, Hardware RAID should be created for operating system for 2* 960 M2 disk only. If bidder is not able to achieve this via Internal hardware RAID they need to quote additional RAID controller.
24	81	Rack server Category 10, 6, Raid controller	RAID Controller supporting RAID 0 and 1	As this server has only M.2 drives , the M.2 drives come with their only internal raid. Kindly confirm if we can quote without additional raid controllers	No Change, as per RFP, Hardware RAID should be created for operating system for 2* 960 M2 disk only. If bidder is not able to achieve this via Internal hardware RAID they need to quote additional RAID controller.
25	83	Rack server Category 11, 6, Raid controller	RAID Controller supporting RAID 0 and 1	As this server has only M.2 drives , the M.2 drives come with their only internal raid. Kindly confirm if we can quote without additional raid controllers	No Change, as per RFP, Hardware RAID should be created for operating system for 2* 960 M2 disk only. If bidder is not able to achieve this via Internal hardware RAID they need to quote additional RAID controller.
26	84	Rack server Category 12, 4, GPU	Each Node must be configured with Nvidia 8 x B200 180 GB GPUs (SXM) connected via Nvidia Nvlink with NV Switch. Solution should come with all required licenses (including Nvidia AI enterprise / equivalent) for GPU slicing with VMware, Nvidia enterprise tech support, training, Inferencing etc.	B200 GPU is available only with liquid cooling for most leading OEMs. Kindly confirm if liquid cooling is available with SBI or kindly change this to H200 SXM or H100 SXM	Please refer Corrigendum No. 1
27	84	Rack server Category 12, 3, Server Type	AMD 9535 or Intel 6767P (64 cores each socket, dual socket-128 cores)	Most OEMs support 5th gen CPUs on this paltform. Request to kindly change this emerald rapids from granite rapids for wider participation	No Change, as per RFP
28	87		Model Consistency Within Categories: For each category of servers, the model numbers must be identical. This is required to maintain consistency in configuration, compatibility, and performance across the environment	Models would vary across categories as the servers are storage intesive, compute heavy and GPU models. The models number would vary . Kindly confirm if this is ok as long as the servers are from the same OEM and product family	No Change, as per RFP
29	87	All server categories, 7, Homogenous Make and Model	Processor Uniformity: All servers across all categories must use processors from the same manufacturer, i.e., either Intel or AMD, to ensure system-wide compatibility.	Kindly allow multiple OEM type on processors to provide best available solution to SBI.	No Change, as per RFP
30	137 & 138	Indicative Price Bid -> Table – B (Storage Solution & Manpower)	Cisco MDS & Brocade SAN Switch	As per RFP, BoQ & price for both Cisco MDS & Brocade SAN Switch is asked. Please clarify how the evaluation will happen from Commercial point of view, as Total price of all items including both the SAN switch models are asked in the RFP. Also, since the Brocade SAN Switch & Cisco SAN Switch is not compatible to each other from a production deployment standpoint, typically customers would only be deploying either one of them. Hence, request you to modify the RFP such that bidder can quote only one of these SAN Switch solution	No Change, as per RFP Bank may place order for SAN switches based on requirement.
31	65	A. Rack Servers (Category 1) 3. processor	Intel 6548Y+ or AMD EPYC 9334 (32 cores each socket, dual socket-64 cores)	We request you to change for CPU clause . Revised clause 5th Gen CPU or higher "(32 cores each socket, dual socket-64 cores)"	No Change, as per RFP

32	65	A. Rack Servers (Category 1) 3. Processor	Intel 6548Y+ or AMD EPYC 9334 (32 cores each socket, dual socket-64 cores)	Please confirm if we can offer higher generation AMD processor as well. Request to revised the clause 5th Gen CPU or higher "(32 cores each socket, dual socket-64 cores)"	No change as per RFP The specifications given are minimum. Bidders can quote equivalent or higher technical specifications to meet the Bank's requirements, provided bank accepts the same. However, no weightage would be given for higher configurations.
33	65,68, 70, 71, 73, 74, 76, 77, 79, 80,82	Category 3a to 11 3. Processor	Intel 6517P or AMD 9135 (16 cores each socket, dual socket-32 cores) / Intel 6527P or AMD 9255 (24 cores each socket, dual socket-48 cores) / Intel 6745P or AMD 9335 (32 cores each socket, dual socket-64 cores)	Curently we donot have latest genertaion CPUs make in India as on today , hence request to change all categories (3a to 11) to 5th Gen. processors	No Change, as per RFP
34	65	A. Rack Servers (Category 1) 5.Memory	On Day One (with 1.5 TB installed), the memory must operate at a minimum effective speed of 4800 MT/s. After upgrading to 2 TB, the effective memory speed must not fall below 4800 MT/s. A maximum acceptable degradation from 5600 MT/s to 4800 MT/s is permitted due to system design or memory controller constraints.	As per Intel Architecture 5600 MT/s DIMMs degrades to 4400 MT/s considering the. Hence request you to modify the clause as follows : "A maximum acceptable degradation from 5600 MT/s to 4400 MT/s is permitted due to system design or memory controller constraints."	Please refer Corrigendum No. 1
35	66	A. Rack Servers (Category 1) 8. Enterprise class Internal SSD Disk	1 x 960 GB M2 SSD drives or higher	Server supports max. 2 x M.2 drives and as per rfp, server is asked with 2 x 960 GB Boot drives. Hence this additional drives cannot be M.2. Request you to change this from M.2 to SFF drives. Revised clause "1 x 960 GB SSD drives or higher"	No Change, as per RFP
36	66	A. Rack Servers (Category 1) 10. Enterprise class Internal SSD Disk	1 x 4 TB NVMe or higher enterprise class disk	Replace 4 TB NVMe to " 3.84 TB NVMe or higher enterprise class disk "	Please refer Corrigendum No. 1
37	66	A. Rack Servers (Category 1) 11. Ethernet Controller	One (1) NIC or Remote Management of the server hardware.	One (1) NIC or Remote Management of the server hardware. Revised clause "Dedicated out of band management with encrypted virtual media "	No Change, as per RFP
38	67	A. Rack Servers (Category 2) 3. processor	Intel 6548Y+ or AMD EPYC 9334 (32 cores each socket, dual socket-64 cores)	We request you to change for vendor participation . Revised clause 5th Gen CPU or higher "(32 cores each socket, dual socket-64 cores)"	No Change, as per RFP
39	67	A. Rack Servers (Category 2) 3. Processor	Intel 6548Y+ or AMD EPYC 9334 (32 cores each socket, dual socket-64 cores)	Please confirm if we can offer higher generation AMD processor as well. Revised clause 5th Gen CPU or higher "(32 cores each socket, dual socket-64 cores)"	No change as per RFP. Bidders can quote equivalent or higher technical specifications to meet the Bank's requirements, provided bank accepts the same. However, no weightage would be given for higher configurations
40	68	A. Rack Servers (Category 2) 9.Enterprise class Internal Nvme Disk Processor	1 x 7.68 TB NVMe and 2 x 3.84 TB NVMe or higher enterprise class disk	considering the numbers of SFF with LFF drives as per the RFP , HPE can offer maximum 2 SFF 7.68TB SFF drives along with 14 LFF drives , Hence request for change	No Change, as per RFP
41	68,71,73, 80	C. Rack Servers (Category 3a) 5. Memory E. Rack Servers (Category 4) 5. Memory F. Rack Servers (Category 5) 5. Memory K. Rack Servers (Category 10) 5. Memory	Each Server should be installed with minimum 512 GB Memory DDR5 or higher. Each individual RDIMM module should have minimum memory speed of 5600 MT/s.On Day One (with 512 GB installed), the memory must operate at a minimum effective speed of 4800 MT/s. After upgrading to 1 TB, the effective memory speed must not fall below 4800 MT/s. A maximum acceptable degradation from 5600 MT/s to 4800 MT/s is permitted due to system design or memory controller constraints.	Each Server should be installed with minimum 512 GB Memory DDR5 or higher. Each individual RDIMM module should have minimum memory speed of 5600 MT/s.On Day One (with 512 GB installed) Change requested: **" Each individual RDIMM memory module speed specification from 5600 MT/s to 6400 MT/s, to leverage the full performance capability of the CPU platform"**	No Change, as per RFP
42	70	D. Rack Servers (Category 3B) 5. Memory	Each Server should be installed with minimum 1 TB Memory DDR5 or higher. Each individual RDIMM module should have minimum memory speed of 5600 MT/s. On Day One (with 1 TB installed), the memory must operate at a minimum effective speed of 4800 MT/s. After upgrading to 2 TB, the effective memory speed must not fall below 4800 MT/s. A maximum acceptable degradation from 5600 MT/s to 4800 MT/s is permitted due to system design or memory controller constraints.	Each Server should be installed with minimum 1 TB Memory DDR5 or higher. Each individual RDIMM module should have minimum memory speed of 5600 MT/s.On Day One (with 512 GB installed) Change requested : **Each individual RDIMM memory module speed specification from 5600 MT/s to 6400 MT/s, to leverage the full performance capability of the CPU platform"**	No Change, as per RFP
43	75, 76, 79, 82	G. Rack Servers (Category 6) 5. Memory H. Rack Servers (Category 7) 5. Memory J. Rack Servers (Category 9) 5. Memory L. Rack Servers (Category 11) 5. Memory	Each Server should be installed with minimum 256 GB Memory DDR5 or higher. Each individual RDIMM module should have minimum memory speed of 5600 MT/s	Each Server should be installed with minimum 256 GB Memory DDR5 or higher. Each individual RDIMM module should have minimum memory speed of 5600 MT/s . Change requested : **" Each individual RDIMM memory module speed specification from 5600 MT/s to 6400 MT/s"**	No Change, as per RFP
44	78	I. Rack Servers (Category 8) 5. Memory	Each Server should be installed with minimum 2 TB Memory DDR5 or higher. Each individual RDIMM module should have minimum memory speed of 5600 MT/s	Each Server should be installed with minimum 2 TB Memory DDR5 or higher. Each individual RDIMM module should have minimum memory speed of 5600 MT/s . Change requested : **" Each individual RDIMM memory module speed specification from 5600 MT/s to 6400 MT/s"**	No Change, as per RFP
45	86	Comman :Technical Specifications/Requirements / 3. Operating System	Should be Compatible with Latest Windows server, Red Hat Linux/Openshift andVMware ESXi Server version 8.0 U3/VCF 5.2.x and all later/upgraded/higher versions. Also, the supplied hardware should support all version upgrades coming in next 7 years. If hardware supplied by selected OEM is not compatible with these releases during 7 years from date of commissioning, bidder need to replace hardware with compatible VMware, Windows server, Red Hat Linux/Openshift release without any additional cost to the Bank.	Hardware Offered supports latest generation of Operating systems like Windows, Linux, Vmware, etc. Upgrade / higher versions of Software are released by the respective software OEMs and they must provide support and compatibility with existing hardware. Hence request you remove this clause, as software is not part of this RFP.Request to remove : " Also, the supplied hardware should support all version upgrades coming in next 7 years. If hardware supplied by selected OEM is not compatible with these releases during 7 years from date of commissioning, bidder need to replace hardware with compatible VMware, Windows server, Red Hat Linux/Openshift release without any additional cost to the Bank."	No Change, as per RFP

46	86	Comman :Technical Specifications/Requirements / 4. Manageability	Should provide unified management suite that can monitor, configure and manage all the servers from the OEM dashboard deployed in the data center. Required Licenses has to be provided.	can monitor, configure and manage all the servers from the OEM dashboard deployed in the data center. Required Licenses has to be provided. **Request to include additional points :** **a) Management Software should offer dashboard view to display health summary of Server Profiles, Server Hardware, Appliance alerts** **b) The system management software should provide role based security.** **e)The server management software should be of the OEM makes as of the server supplier** **f) Should help to proactively identify out-of-date BIOS, drivers and server management agents and enable the remote update of system software/firmware** **g) components Should help provide proactive notification of actual or impending component failure alerts on critical components like CPU, Memory and HDD.** **h) Should have dashboard for firmware baselines while performing minimum required firmware checks and highlighting out-of-compliance devices for updates with the selected firmware baseline**	No Change, as per RFP
47	86	Comman :Technical Specifications/Requirements / 5. Remote Management	Should be able to manage the server and get access to critical information about the health of the server from any remote location with the help of standard web browser Should be possible to remotely manage each server individually. Should support access rights for administrators for each server individually.	Request to add additional point for scuirty of the servers a) Server should have security dashboard : displaying the status of important security features, the Overall Security Status for the system, and the current configuration for the Security State and Server Configuration Lock features. b) Server should have storage space earmarked to be used as a repository for firmware, drivers and software components. c) Remote console sharing upto 6 users simultaneously during pre-OS and OS runtime operation, Console replay - Console Replay captures and stores for replay the console video during a server's last major fault or boot sequence. d) Microsoft Terminal Services Integration, 128 bit SSL encryption and Secure Shell Version 2 support. Should provide support for Java free graphical remote console.	No Change, as per RFP
48		Generic query	Generic query	Does SBI have provision OR can make provision for DLC (water cooled) based Servers in the DC ?	No Change, as per RFP Currently bank do not have provision for water cooling in Data Centre. All the equipments being supplied as part of this RFP should be air cooled.
49	84	Category M GPU Nodes / 4.GPU	Each Node must be configured with Nvidia 8 x B200 180 GB GPUs (SXM) connected via Nvidia Nvlink with NV Switch. Solution should come with all required licenses (including Nvidia AI enterprise / equivalent) for GPU slicing with VMware, Nvidia enterprise tech support, training, Inferencing etc	We suggest that SBI plans for the upcoming Nvidia B300 GPU (SXM) so that there will be a higher support timeline. Hence kindly change it to 'Each Node must be configured with Nvidia 8 x B300 GPUs (SXM) connected via Nvidia Nvlink with NV Switch.Each of the nodes should offered with NVAIE licenses separately OR as per RFP requirement asked elsewhere'. Also kindly remove VMware, since we do not plan to support VMWare in the current and future upcoming GPUs meant for AI Training The Industry is moving towards open source container technology for this purpose for efficiency gains.	Please refer Corrigendum No. 1
50	84	Category M GPU Nodes / 6. Memory	Should provide Advanced Memory Protection features like multi-bit error correction, memory mirroring, and memory spare for higher reliability.	Kindly change it to 'Should provide Advanced Memory Protection features like multi-bit error correction, memory mirroring, and memory spare or Advanced Memory Protection features like Advanced Memory Device Correction (AMDC) and post-package repair (PPR) capability for higher reliability'.	Please refer Corrigendum No. 1
51	84	Category M GPU Nodes / 7. RAID Controller	RAID Controller supporting RAID 0 and 1	Kindly remove since the boot disks will be configured using a compatible OS	No Change, as per RFP
52	84	Category M GPU Nodes / 8. Point	Minimum 2 x 960 GB M2 SSD drives or higher having capability to be used as Mirror Disk with Above RAID controller for installing the operating system hypervisor and 8 * 15.xx TB NVMe drives per node.	Kindly change it to 'Minimum 2 x 960 GB M2 SSD drives or higher having capability to be used as Mirror Disk for installing the operating system hypervisor. 8 * 15.xx TB NVMe drives per node can be configured using RAID using a compatible OS'	No Change, as per RFP
53	85	Category M GPU Nodes / 10 . Expansion Slots	Minimum 10 PCIe 5.0 Type based x16 Slots supporting Ethernet, .	Kindly remove and allow the Server OEM to propose the PCI slots as per the solution requirement. The qty mentioned is restrictive for some of the solution options. .	No Change, as per RFP
54	85	PCommon Specifications - Queries specifically with respect to Category M Servers / 2. Industry Standard Compliance	ACPI 5.1 Compliant, PCIe 5.0 / 4.0 Compliant;	Kindly remove and allow the Server OEM to propose as per the Standards in the Server.	No Change, as per RFP
55	85	PCommon Specifications - Queries specifically with respect to Category M Servers / 2. Industry Standard Compliance	WOL/equivalent technology Support; Microsoft/ VMware/ RHEL Certifications;	Kindly remove Microsoft and VMWare certifications.	Please refer Corrigendum No. 1
56	85	PCommon Specifications - Queries specifically with respect to Category M Servers / 3. Point	Should be Compatible with Latest Windows server, Red Hat Linux/Openshift and VMware ESXi Server version 8.0 U3/VCF 5.2.x and all later/upgraded/higher versions. Also, the supplied hardware should support all version upgrades coming in next 7 years. If hardware supplied by selected OEM is not compatible with these releases during 7 years from date of commissioning, bidder need to replace hardware with compatible VMware, Windows server, Red Hat Linux/Openshift release without any additional cost to the Bank.	Kindly change it to ' Should be Compatible with Latest Red Hat Linux/Openshift' and remove rest of the restrictive clauses. Also kindly remove the clause of Hardware support for 7 years on the future OS versions, since the choice of supporting the OS on the specific CPU / GPU platform is decided by the OS vendor.	No Change, as per RFP

57	86	PCommon Specifications - Queries specifically with respect to Category M Servers / 4. Point	Should provide unified management suite that can monitor, configure and manage all the servers from the OEM dashboard deployed in the data center. Required Licenses has to be provided.	Kindly allow Category M servers to have a separate management suite.	Please refer Corrigendum No. 1
58	85	Warranty / AMC	6 hour resolution	GPUs need Global Trade approval for any replacement, hence kindly allow 24 x 7 support on a best effort basis for any resolution for this category of servers.	No Change, as per RFP Bidder has to make ready provisions for spare parts and the entire equipment in worst case scenario.
59	87	PCommon Specifications - Queries specifically with respect to Category M Servers / 7. Point Homogenous Make and Model	Processor Uniformity: All servers across all categories must use processors from the same manufacturer, i.e., either Intel or AMD, to ensure system-wide compatibility.	**Kindly provide an exception for Servers with GPU's, as these Servers are designed as special purpose servers. Just for the GPU based Servers, CPU ("Processor") uniformity may differ.**	No Change, as per RFP
60	87	PCommon Specifications - Queries specifically with respect to Category M Servers / 8. Point	The servers should have 80 Plus Platinum certified power supplies and should provide GRID level redundancy.	Kindly remove Grid level redundancy	No Change, as per RFP
61	133	Rack for Category M Servers / 1.Color-Coding for Cables and Connectivity	Color-Coding for Cables and Connectivity	Kindly relax the colour coding for all the cables and restrict it to Ethernet (Cat5e/6), since default cables as per the standard equipment shall be supplied and there is no scope changing the colours.	No Change, as per RFP
62		Additional	Qualification cretiria	Request to add following for Industry Implementation of Cloudera on OEM hardware **"OEM hardware must have cloudera implementation in Public Sector or large Private Banks"**	No Change, as per RFP
63		Additional	OS Support	All Servers Quoted in the RFP must be certified for all Operating Systems desired. The same must also be listed on Software OEMs hardware Compatibility List.	No Change, as per RFP The provided hardware must be in the compatibility list of the mentioned Operating Systems/Hypervisor OEMs.
64		Additional	Benchmarks	All Servers Offered must have listed Spec Benchmarks like Specint & Specfp on Spec.org	No Change, as per RFP
65		Additional	Qualification cretiria	In the last 12 months, the OEM must have successfully installed a minimum of 500 servers for a single large bank or Public Sector Undertaking	No Change, as per RFP
66		Additional	Qualification cretiria	"The vendor must be part of the top three OEM server manufacturers as per the latest IDC worldwide"	No Change, as per RFP
67	61, 62	Appendix-B Bidder's Eligibility Criteria Point 9 Bidder's Project Experience for Storage:	a. The bidder must have successfully executed/completed supply of enterprise grade storage, over the last five years i.e. the current financial year and the last five financial years: - a) Three similar completed project costing not less than the Rs. 80 Cr Or Two similar completed project costing not less than the Rs. 100 Cr Or One similar completed project costing not less than the Rs. 160 Cr b. At least one client references in BFSI/PSU/Govt Sector for supply of enterprise grade IT equipment such as servers or storage or network equipment etc. of any make in above mentioned period.	Request to consider **Bidder/OEM** since Enterprise Class Storages are Managed by OEM. a. The **Bidder/OEM** must have successfully executed/completed supply of enterprise grade storage, over the last five years i.e. the current financial year and the last five financial years: Three similar completed project costing not less than the Rs. **45** Cr Or Two similar completed project costing not less than the Rs. **65** Cr Or One similar completed project costing not less than the Rs. **95** Cr b. At least one client references in BFSI/PSU/Govt Sector for supply of enterprise grade IT equipment such as servers or storage or network equipment etc. of any make in above mentioned period.	Please refer Corrigendum No. 1
68	88	Appendix-C Technical & Functional Specifications N. Storage: 1. Usable Capacity	1. Total 20 Peta Bytes (PB) (10 PB at PR site and 10 PB at DR site) usable storage space, NVMe drive based storage array for two sites. Usable storage space means storage calculated after RAID 6 or equivalent and without deduplication/compression and excluding hot-spare.	Please specify whether the usbale RAID6 capacity to be considered in PB or PiB.	No Change, as per RFP, It should be (One) Peta bytes (PB) = 1024 Tera Bytes (TB). 1 TB = 1024 GB
69	88	Appendix-C Technical & Functional Specifications N. Storage: 3. Quantity and Location	3. The bidder shall quote for a total of four (4) storage systems each at the Primary Data Center (DC) and Disaster Recovery (DR) site respectively.	Request bank to please allow bidders to quote min four or more number of storage systems to meet the asked performance and capacity requirements at the Primary Data Center (DC) and Disaster Recovery (DR) site respectively.	No Change, as per RFP
70	88	Appendix-C Technical & Functional Specifications N. Storage: 4. Quantity and Location	4.All storage systems provided must be homogenous in all aspect. Each storage system must be configured with maximum of 2.5 PB usable capacity per Storage on day one. Therefore, the bidder shall quote for 2.5 PB × 4 storage systems per site.	Request bank to please allow bidders to quote min four or more number of storage systems to meet the asked performance and capacity requirements at the Primary Data Center (DC) and Disaster Recovery (DR) site respectively.	No Change, as per RFP
71	88	Appendix-C Technical & Functional Specifications N. Storage: 6. IOPS, Throughput and Latency	6. Each individual storage system must provide a minimum of 30 million IOPS using a 8KB block size,100% Random read hit as validated through an official datasheet or vendor web link. Accordingly, the total performance capacity per site for all storage system (DC and DR) must be no less than 120 million IOPS (SI along with OEM need to perform the test onsite after delivery with enterprise level IO test tool as part of acceptance of the solution).	Request bank to kindly change the clause to" Each individual storage system **/ proposed solution** must provide a minimum of 20 million IOPS using a 8KB block size,100% Random read hit as validated through an official datasheet or vendor web link. Accordingly, the total performance capacity per site for all storage system (DC and DR) must be no less than 80 million IOPS (SI along with OEM need to perform the test onsite after delivery with enterprise level IO test tool as part of acceptance of the solution)."	Please refer Corrigendum No. 1
72	89	Appendix-C Technical & Functional Specifications N. Storage: 7. Cache Size	7. Four controller HA pair should have minimum 2 TB global cache.	Request bank to please change the clause to "Four controller HA pair should have minimum 2 TB global cache / **Min 2TB Memory** across the four controllers in single system"	No Change, as per RFP
73	89	Appendix-C Technical & Functional Specifications N. Storage: 9. RAID	9. Proposed solution must have RAID controller that support RAID 6, RAID 5 and RAID 10 or equivalent.	Since the capacity has to be provided on RAID 6, we request you to please change the clause to - Proposed solution must have support for RAID 6.	No Change, as per RFP

74	89	Appendix-C Technical & Functional Specifications N. Storage: 10. controllers	10. A single storage system must support at least 12 controllers in a symmetric active-active architecture with a global cache architecture across controllers.	Since the asked RFP clearly defines the capacity and performance and also specifies that min 04 controllers has to be provided on Day1. We reqest bank to please change the clause to "A single storage system must support at least **04 or more** controllers in a active- active architecture with a (global cache) / memory architecture across controllers where all the LUN's shall be active on the all the 04 controllers for both read and wrtite operations"	No Change, as per RFP
75	89	Appendix-C Technical & Functional Specifications N. Storage: 6. Redundancy	6. Proposed solution should have active- active host connectivity with redundant controllers. All controllers should symmetric active – active with global cache and failure of controller should not impact operations even in real time.	Request bank to please change the clause "Proposed solution should have active- active host connectivity with redundant controllers. All **04** controllers should active – active with (global cache) or **memory** and failure of controller should not impact operations even in real time.	No Change, as per RFP
76	91	Appendix-C Technical & Functional Specifications N. Storage: 17. No. of Racks	17. The proposed solution should accommodate in maximum 630U (maximum 14 racks size i.e. 35U X 14) at each site. Bidder should try to accommodate the solution in given number of racks, in case the solution mandatorily requires additional racks, upto 10% extra racks may per permitted.	As per our understanding mentioned rack space here is for each site and also for the storage solution (SAN Storage solution) excluding SAN switches. Please confirm.	No Change, as per RFP The specified rack space exclude the SAN switch.
77	92	Appendix-C Technical & Functional Specifications N. Storage: 29. FC Ports	29. Each controller Storage solution must have minimum 8 (4 primary and 4 Secondary) 32Gbps SAN FC ports dedicated for serving SAN requests of Host. Additionally, these ports should also support NVME over fabric protocol	Request to change minimum 4 (2 primary and 2 secondary) 32 Gbps SAN FC Ports per controllers.	No Change, as per RFP
78	93	Appendix-C Technical & Functional Specifications N. Storage: 31. LAN Ports / SAN Ports	31. 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 fiber LAN/ FC ports dedicated for serving data replication.	Please make this this point optional since we will propose FCIP routers for replication. We can add 2 (1 Primary and 1 secondary) 32Gb FC Port per controller dedicated for serving data replication. Please Suggest.	No Change, as per RFP
79	93	Appendix-C Technical & Functional Specifications N. Storage: 33. Flexibility	33. VMware/Windows/Linux etc. LUNs can be move to any controller within a storage Cluster without downtime. (LUN need to move from storage side)	Request to remove this specification as it is vendor specific.	No Change, as per RFP
80	94	Appendix-C Technical & Functional Specifications N. Storage: 38. Data Integrity	38. 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	Request to allow cache data protection with Battery backup or equivalent technology or all writes shall protected using persistent layer.	No Change, as per RFP
81	95	Appendix-C Technical & Functional Specifications N. Storage: 43. Reference	43. Submit minimum two (DC+DR) implementation reference configured with cross site replication between sites by the bidder. System should support cross site replication.	Request to change the clause as: Submit minimum two implementation reference configured with cross storage replication between storages by the bidder/OEM. System should support cross site replication.	No Change, as per RFP
82	95	Appendix-C Technical & Functional Specifications N. Storage: 49. Functional Requirement	49. The storage system must support synchronous and asynchronous replication over IP (FCIP or equivalent) for metro/long- distance disaster recovery. Vendors shall propose their OEM-recommended replication solution, including any required licenses, gateways, or routers, ensuring compatibility with the proposed storage architecture. The solution must meet the following criteria:	As per our understading FCIP routers are required, please confirm ?	No Change, as per RFP Bidder may provide FCIP router if required for replication.
83	97	Appendix-C Technical & Functional Specifications N. Storage: 49. Functional Requirement	56. Storage must be able to provide application consistent snapshots of Virtual machine and Oracle RAC cluster hosted on Broadcom (VMware) cloud infrastructure	Request to allow application consistent snapshot either natively or with Backup ISV Integrations.	No Change, as per RFP
84	98	Appendix-C Technical & Functional Specifications N. Storage: 65. Ransomware	65. The proposed solution should have provision to detect, protect and recover data in case of ransomware or malware attack for SAN workloads. Any license required should be provided on Day one for full capacity of system	Request to change this as "The proposed solution should have provision to protect and recover data in the case of ransomware or malware attack for SAN Workloads. Any license required should be provided on Day one for full capacity of system."	No Change, as per RFP
85	98	Appendix-C Technical & Functional Specifications N. Storage: 49. Functional Requirement	66. The storage should be capable to migrate the LUN from one controller to another controller within the cluster natively without any additional configuration or use of software	Request to remove this specification as it is vendor specific.	No Change, as per RFP
86	98	Appendix-C Technical & Functional Specifications N. Storage: 43. Reference	67. Storage should be able to take VM Snapshot backup/ VM Aware snapshots on VM hosted on Broadcom (VMware) Cloud infrastructure, any additional license required for this functionality must be provided by the OEM from day one.	Request to allow VM Aware snapshot either natively or with Backup ISV Integrations.	No Change, as per RFP
87	99	Appendix-C Technical & Functional Specifications N. Storage: 43. Reference	75. Proposed Storage must homogeneously integrate with existing Cloud incorporating Broadcom (VMware) technology stack, Commvault Backup Solution and existing storage environment. End to end integration will be responsibility of bidder and OEM. In case of noncompliance to any of the integration with the existing system, the bidder will replace/return the solution without any kind of additional cost to the bank	Request to clarify scope of Integration with Vmware and Commvault.	No Change, as per RFP To integrate with existing backup infrastructure of bank.

88	100	Appendix-C Technical & Functional Specifications N. Storage: 87. Warranty & AMC	87. Five years Warranty and 2 years AMC - 24x7 comprehensive onsite support from OEM 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 covering Half yearly Firmware analysis, and Proactive Health analysis	Request to change the point as: Five years Warranty and 2 years AMC - 24x7 comprehensive onsite support from OEM 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 covering Half yearly Firmware analysis, and Proactive Health analysis. **Along with Designated Assigned Account Team comprises of** **Onsite Account Support Manager (ASM)** **Offsite Technical Account Manager (TAM)** to carry out below activities: **Ongoing Account Support Planning (ASP)** - Developed by the ASM in conjunction with Customer IT staff and updated proactively quarterly by the ASM as required. **Ongoing Service planning and review** - The assigned account team conducts quarterly service planning and review sessions to review key topics, discuss trends and any planned **Quraterly Service planning and review** - The assigned account team conducts quarterly service planning and review sessions to review key topics, discuss trends and any planned	No Change, as per RFP
89	101	Appendix-C Technical & Functional Specifications O. Brocade SAN Switch and Line Card: 1.	1. Total 2 no. of Brocade Director Class switch. Each SAN switch should be populated with 2 * 64-port 64-Gbps Fibre Channel line card with 32 Gbps SFPs/64 Gbps SFPs on day one and ports scalable up to a maximum of 512. The switch should be able to support (or in future) 64GB FC speeds on all 512 ports at line rate without adding any component other than line card. Providing an aggregate bandwidth of 32 Tbps.	Please clarify if 32Gbps or 64Gbps SFPs are required on line card.	No Change, as per RFP, Bank may place order as per requirement.
90	101	Appendix-C Technical & Functional Specifications O. Brocade SAN Switch and Line Card: 2.	2 Total 2 no. of Brocade Director Class switch. Each SAN switch should be populated with 2 * 48-port 64-Gbps Fibre Channel line card with 32 Gbps SFPs/64 Gbps SFPs on day one and ports scalable up to a maximum of 384. The switch should be able to support (or in future) 64GB FC speeds on all 384 ports at line rate without adding any component other than line card. Providing an aggregate bandwidth of 12 Tbps.	Please clarify if 32Gbps or 64Gbps SFPs are required on line card.	No Change, as per RFP, Bank may place order as per requirement.
91	102	Appendix-C Technical & Functional Specifications O. Brocade SAN Switch and Line Card: 7.	7. All FC ports for currently being procured should able to support 8/16/32 Gbps auto-sensing Fibre Channel ports.	Both 512 and 384 port switch is clearly mentions: The switch should be able to support (or in future) 64GB FC speeds on all 512/384 ports at line rate without adding any component other than line card. With the above clause 64Gb SFP would be required to add on Day 1. 64Gb SFP wont support 8Gbps and hence request to change the clause as: All FC ports for currently being procured should able to support 16/32 Gbps auto-sensing Fibre Channel ports.	Please refer Corrigendum No. 1
92	104	Appendix-C Technical & Functional Specifications O. Brocade SAN Switch and Line Card: 31. AMC and Warranty	31. Five years Warranty and 2 years AMC - 24x7 comprehensive onsite support from OEM with maximum 2 hours response time with 6 hours Call to Resolution, Highest Level of Proactive and Reactive support covering Half yearly Firmware analysis, and Proactive Health analysis, Dedicated Account Manager.	Since Dedicated Account Manager has asked in the specification. Request to include additional details that would be required for such complex setup. Hence please ammend the clause as: 31. Five years Warranty and 2 years AMC - 24x7 comprehensive onsite support from OEM with maximum 2 hours response time with 6 hours Call to Resolution, Highest Level of Proactive and Reactive support covering Half yearly Firmware analysis, and Proactive Health analysis, Dedicated **ON-site** Account Manager who would be carrying out ongoing activities like Account Support Planning (ASP), Operational and Technical Advice with Quarterly activites like Service Planning and Review, and Support Activity Review.	Please refer Corrigendum No. 1
93		Appendix-C Technical & Functional Specifications P. Cisco SAN Switch and Line card: 1.	1. Total 2 no. of Cisco Director Class switch. Each SAN switch should be populated with 2 * 48-port 64-Gbps Fibre Channel line card with 32 Gbps SFPs/64 Gbps SFPs on day one and ports scalable up to a maximum of 768. The switch should be able to support (or in future) 64GB FC speeds on all 768 ports at line rate without adding any component other than line card. Providing an aggregate bandwidth of 49 Tbps.	Please clarify if 32Gbps or 64Gbps SFPs are required on line card.	No Change, as per RFP, Bank may place order as per requirement.
94		Appendix-C Technical & Functional Specifications P. Cisco SAN Switch and Line card: 2.	2 Total 2 no. of Cisco Director Class switch. Each SAN switch should be populated with 2 * 48-port 64-Gbps Fibre Channel line card with 32 Gbps SFPs/64 Gbps SFPs on day one and ports scalable up to a maximum of 384. The switch should be able to support (or in future) 64GB FC speeds on all 384 ports at line rate without adding any component other than line card. Providing an aggregate bandwidth of 12 Tbps.	Please clarify if 32Gbps or 64Gbps SFPs are required on line card.	No Change, as per RFP, Bank may place order as per requirement.

95	106	Appendix-C Technical & Functional Specifications P. Cisco SAN Switch and Line card: 7.	7. All FC ports for currently being procured should able to support 8/16/32 Gbps auto-sensing Fibre Channel ports.	Both 768 and 384 port switch is clearly mentions: The switch should be able to support (or in future) 64GB FC speeds on all 768/384 ports at line rate without adding any component other than line card. With the above clause 64Gb SFP would be required to add on Day 1. 64Gb SFP wont support 8Gbps and hence request to change the clause as: All FC ports for currently being procured should able to support 16/32 Gbps auto-sensing Fibre Channel ports.	Please refer Corrigendum No. 1
96	110 111	Appendix-C Technical & Functional Specifications P. Cisco SAN Switch and Line card: 16.	31. Five years Warranty and 2 years AMC - 24x7 comprehensive onsite support from OEM with maximum 2 hours response time with 6 hours Call to Resolution, Highest Level of Proactive and Reactive support covering Half yearly Firmware analysis, and Proactive Health analysis, Dedicated Account Manager.	Since Dedicated Account Manager has asked in the specification. Request to include additional details that would be required for such complex setup. Hence please ammend the clause as: 31. Five years Warranty and 2 years AMC - 24x7 comprehensive onsite support from OEM with maximum 2 hours response time with 6 hours Call to Resolution, Highest Level of Proactive and Reactive support covering Half yearly Firmware analysis, and Proactive Health analysis, Dedicated **ON-site** Account Manager who would be carrying out ongoing activities like Account Support Planning (ASP), Operational and Technical Advice with Quarterly activites like Service Planning and Review, and Support Activity Review.	Please refer Corrigendum No. 1
97	118	R. 42U Rack Specifications	4. Color-Coding for Cables and Connectivity: a. Primary and Secondary Power Cables: Primary and secondary power cables should be clearly distinguishable by color (e.g., blue for primary, red for secondary), minimizing confusion and simplifying maintenance. b. Primary and Secondary PDUs: Primary and secondary PDUs should be color-coded (e.g., blue for primary, red for secondary) to easily differentiate between the two, enhancing system identification and reducing errors. c. Primary and Secondary SAN Connectivity Cables: SAN connectivity cables should be color-coded to distinguish primary (e.g., blue) from secondary (e.g., green) connections, ensuring that correct cables are connected and preventing configuration errors.	Since the cables provided bu OEMs are with single color, request to accept all cables including power, PDU, SAN FC Cables and Ethernet cables of a single color only.	No Change, as per RFP
98	133	Appendix-F Indicative Price Bid Table – B (Storage Solution & Manpower) 3. 64 Gb Cisco 48 port	64 Gb Cisco 48 port SAN Switch Modules with fully populated 32 Gb SFP including all software, license.	Please help with more clarity as for which Cisco Director this component is required. Is it required for the same CISCO 768/384 Port Directors each populated with 2 x Blades asked in the Tender. This is required in addition to the Chassis with 2 x Blades included. Please clarify.	No Change, as per RFP. Same card should support both CISCO 768/384 Switch.
99	137	Table – B (Storage Solution & Manpower) 3 and 4	64 Gb Cisco 48 port SAN Switch Modules with fully populated 32 Gb SFP including all software, license. 64 Gb Cisco 48 port SAN Switch Modules with fully populated 64 Gb SFP including all software, license.	Request to check Quantity of Switch modules. Each should be 2 Qty. as we have 2 director switches.	No Change, as per RFP, Bank may place order as per requirement.
100	137	Appendix-F Indicative Price Bid Table – B (Storage Solution & Manpower) 3. 64 Gb Cisco 48 port	64 Gb Cisco 48 port SAN Switch Modules with fully populated 32 Gb SFP including all software, license.	Please help with more clarity as for which Cisco Director this component is required. Is it required for the same CISCO 768/384 Port Directors each populated with 2 x Blades asked in the Tender. This is required in addition to the Chassis with 2 x Blades included. Please clarify.	No Change, as per RFP, Bank may place order as per requirement.
101	137	Appendix-F Indicative Price Bid Table – B (Storage Solution & Manpower) 4. 64 Gb Cisco 48 port	64 Gb Cisco 48 port SAN Switch Modules with fully populated 64 Gb SFP including all software, license.	Please help with more clarity as for which Cisco Director this component is required. Is it required for the CISCO 768/384 Port Directors populated with 2 x Blades asked in the Tender. This is required in addition to the Chassis with 2 x Blades included. Please clarify.	No Change, as per RFP, Bank may place order as per requirement.
102	137	Appendix-F Indicative Price Bid Table – B (Storage Solution & Manpower) 5. Brocade 512 port SAN Switch Chassis	Brocade 512 port SAN Switch Chassis with required hardware and software license.	The detail specifcation for Brocade 512 port SAN Switch Chassis is as per Appendix-C Technical & Functional Specifications O. Brocade SAN Switch and Line Card: Each 512 Port Switch with 2 x 64 Port Channel Card Hope the Understanding is Correct. Please confirm.	No Change, as per RFP, Bank may place order as per requirement.
103	137	Appendix-F Indicative Price Bid Table – B (Storage Solution & Manpower) 6. Brocade 384 port SAN Switch Chassis	Brocade 384 port SAN Switch Chassis with required hardware and software license.	The detail specifcation for Brocade 384 port SAN Switch Chassis is as per Appendix-C Technical & Functional Specifications O. Brocade SAN Switch and Line Card: Each 384 Port Switch with 2 x 48 Port Channel Card Hope the Understanding is Correct. Please Confirm.	No Change, as per RFP, Bank may place order as per requirement.
104	138	Appendix-F Indicative Price Bid Table – B (Storage Solution & Manpower) 7. 64 Gb Brocade 48 port	64 Gb Brocade 48 port SAN Switch Modules with fully populated 32 Gb SFP including all software, license.	Please help with more clarity as for which Brocade Director this component is required. Is it required for the same Brocade 384 Port Directors each populated with 2 x Blades asked in the Tender. This is required in addition to the Chassis with 2 x Blades included. Please clarify.	No Change, as per RFP, Bank may place order as per requirement.

105	138	Appendix-F Indicative Price Bid Table – B (Storage Solution & Manpower) 8. 64 Gb Brocade 48 port	64 Gb Brocade 48 port SAN Switch Modules with fully populated 64 Gb SFP including all software, license.	Please help with more clarity as for which Brocade Director this component is required. Is it required for the Brocade 384 Port Directors populated with 2 x Blades asked in the Tender. This is required in addition to the Chassis with 2 x Blades included. Please clarify.	No Change, as per RFP, Bank may place order as per requirement.
106	138	Appendix-F Indicative Price Bid Table – B (Storage Solution & Manpower) 9. 64 Gb Brocade 64 port	64 Gb Brocade 64 port SAN Switch Modules with fully populated 32 Gb SFP including all software, license.	Please help with more clarity as for which Brocade Director this component is required. Is it required for the same Brocade 512 Port Directors each populated with 2 x Blades asked in the Tender. This is required in addition to the Chassis with 2 x Blades included. Please clarify.	No Change, as per RFP, Bank may place order as per requirement.
107	138	Appendix-F Indicative Price Bid Table – B (Storage Solution & Manpower) 10. 64 Gb Brocade 64 port	64 Gb Brocade 64 port SAN Switch Modules with fully populated 64 Gb SFP including all software, license.	Please help with more clarity as for which Brocade Director this component is required. Is it required for the Brocade 512 Port Directors populated with 2 x Blades asked in the Tender. This is required in addition to the Chassis with 2 x Blades included. Please clarify.	No Change, as per RFP, Bank may place order as per requirement.
108	138	Appendix-F Indicative Price Bid Table – B (Storage Solution & Manpower) 11. Cisco 768 port SAN Switch Chassis	Cisco 768 port SAN Switch Chassis with required hardware and software license.	The detail specifcation for Cisco 768 port SAN Switch Chassis is as per Appendix-C Technical & Functional Specifications P. Cisco SAN Switch and Line Card: Each 768 Port Switch with 2 x 64 Port Channel Card Hope the Understanding is Correct. Please confirm.	No Change, as per RFP, Bank may place order as per requirement.
109	138	Appendix-F Indicative Price Bid Table – B (Storage Solution & Manpower) 12. Cisco 384 port SAN Switch Chassis	Cisco 384 port SAN Switch Chassis with required hardware and software license.	The detail specifcation for Cisco 384 port SAN Switch Chassis is as per Appendix-C Technical & Functional Specifications P. Cisco SAN Switch and Line Card: Each 384 Port Switch with 2 x 48 Port Channel Card Hope the Understanding is Correct. Please Confirm.	No Change, as per RFP, Bank may place order as per requirement.
110	138	Appendix-F Indicative Price Bid Table – B (Storage Solution & Manpower) 13. Infiniband switch/Network Switch	13. Infiniband switch/Network Switch	Request to remove since no specifications are mentioned in the Tender for Infiniband switch/Network Switch.	Please refer Corrigendum No. 1
111		Generic Query	RACK for Storage	The 20PB Storage has it's own OEM RACK. The Storage OEM Rack is not compliant with all the specifications listed in 42U RACK Specification but it's preferred since Storage is factory integrated in the RACK and shipped. Should we include the Storage OEM Rack in the Storage itself OR BANK will procure 42U RACK asked as per the Specifications mentioned in the Tender and OEM needs to fit that Storage in that RACK... Please clarify	No Change, as per RFP Bidder has to supply Racks which will be mentioned in Purchase Order and should comply with specifications mentioned in RFP.
112		Generic Query	FC Cables for SAN Directors	For all the Brocade and CISCO SAN Directors and additional Line Card, number of Ports are mentioned without mentioing of FC Cables. Are we required to provide FC Cables as per the number of Ports asked in the Tender. If Yes then please do mentioned the required Length of FC Cable in details.	Please refer Corrigendum No. 1
113	65	Appendix-C Technical & Functional Specifications Rack Servers Category 1 S. No. 5 Memory	Each Server should be installed with minimum 1.5 TB Memory DDR5 or higher. Each individual RDIMM module should have minimum memory speed of 5600 MT/s.	For financial workloads requiring low-latency processing (e.g., risk modeling, fraud detection, real-time trading), memory speed and latency are critical. We propose specifying DDR5 RDIMM or LRDIMM with minimum speed grade ≥ 5600 MT/s to ensure optimal performance for SBI's core applications and virtualized environments. Request you to ammend the clause as below: Each Server should be installed with minimum 1.5 TB Memory DDR5 **(monolithic)** or higher. Each individual RDIMM module of **96GB or Higher** should have minimum memory speed of **6400 MT/s.**	No Change, as per RFP
114	66	Appendix-C Technical & Functional Specifications Rack Servers Category 1 S. No. 7 Enterprise class Internal SSD Disk For Operating System with RAID	2 x 960 GB M2 SSD drives or higher having capability to be used as Mirror Disk with Above RAID controller for installing the operating system.	As SBI's workloads include high-frequency financial transactions, large-scale database operations, and real-time analytics, the sustained and random I/O performance of SSDs directly impacts system responsiveness and transaction completion times. We propose including minimum performance requirements, e.g., Sequential Read, Sequential Write, Random Read , Random Write and Endurance (DWPD) to ensure SSDs meet enterprise banking workload demands and reduce latency in core banking applications This also brings parity in various bidder to position similar grade servers. We request you to include the following additional to the SSD capacities: **sequential read≥ 540 MB/s , sequential write ≥ 520 MB/s , and random read ≥ 95K IOPS , random writes ≥ 33K IOPS and 1.5 DWPD for OS boot. M2 Sata SSD**	No Change, as per RFP

115	66	Appendix-C Technical & Functional Specifications Rack Servers Category 1 S. No. 8 Enterprise class Internal SSD Disk	1 x 960 GB M2 SSD drives or higher	As SBI's workloads include high-frequency financial transactions, large-scale database operations, and real-time analytics, the sustained and random I/O performance of SSDs directly impacts system responsiveness and transaction completion times. We propose including minimum performance requirements, e.g., Sequential Read, Sequential Write, Random Read , Random Write and Endurance (DWPD) to ensure SSDs meet enterprise banking workload demands and reduce latency in core banking applications. This also brings parity in various bidder to position similar grade servers. We request you to include the following additional to the SSD capacities: **sequential read≥ 540 MB/s , sequential write ≥ 520 MB/s , and random read ≥ 95K IOPS , random writes ≥ 33K IOPS and 1.5 DWPD for OS boot. M2 Sata SSD**	No Change, as per RFP
116	66	Appendix-C Technical & Functional Specifications Rack Servers Category 1 S. No. 9 Enterprise class Internal NL SAS Disk	16 x 4 TB NL SAS or higher enterprise class disk	It is recommended to design the server architecture entirely around SSDs, eliminating the need for HDD integration. Replacing 16 × 4 TB HDDs with high-capacity NVMe SSDs (30 TB or 60 TB) will significantly r**educe the physical footprint, lower TCO, improve reliability, enhance data security, and enable much faster data recovery.** All SSDs will be in a consistent 2.5-inch form factor, unlike 3.5-inch HDDs, ensuring uniformity across the storage subsystem. Thi**s removes the need for hybrid server configurations that support both HDDs and SSDs, simplifying procurement, deployment, and long-term maintenance.** Kindly Ammend the clause as below: **2 x 30.72 TB NVMe or higher enterprise class with sequential read≥ 14000 MB/s , sequential write ≥ 7000 MB/s , and random read ≥ 2000K IOPS , random writes ≥ 70K IOPS and 0.3 DWPD**	No Change, as per RFP
117	66	Appendix-C Technical & Functional Specifications Rack Servers Category 1 S. No. 10 Enterprise class Internal Nvme Disk	1 x 4 TB NVMe or higher enterprise class disk	As SBI's workloads include high-frequency financial transactions, large-scale database operations, and real-time analytics, the sustained and random I/O performance of SSDs directly impacts system responsiveness and transaction completion times. We propose including minimum performance requirements, e.g., Sequential Read, Sequential Write, Random Read , Random Write and Endurance (DWPD) to ensure SSDs meet enterprise banking workload demands and reduce latency in core banking applications. **4TB capacity is not standard, industry standard capacities follows 240, 480, 960 and so on**. We request you to include the following additional to the SSD capacities: **1 x 3.84TB NVMe or higher class disk with following permorance parameters sequential read≥ 6800 MB/s , sequential write ≥ 5300 MB/s , and random read ≥ 1100K IOPS , random writes ≥ 180K IOPS and 1 DWPD**	No Change, as per RFP
118	67	Appendix-C Technical & Functional Specifications Rack Servers Category 2 S. No. 5 Memory	Each Server should be installed with minimum 1.5 TB Memory DDR5 or higher. Each individual RDIMM module should have minimum memory speed of 5600 MT/s.	For financial workloads requiring low-latency processing (e.g., risk modeling, fraud detection, real-time trading), memory speed and latency are critical. We propose specifying DDR5 RDIMM or LRDIMM with minimum speed grade ≥ 5600 MT/s to ensure optimal performance for SBI's core applications and virtualized environments. Request you to ammend the clause as below: Each Server should be installed with minimum 1.5 TB Memory DDR5 **(monolithic)** or higher. Each individual RDIMM module of **96GB or Higher** should have minimum memory speed of **6400 MT/s.**	No Change, as per RFP
119	67	Appendix-C Technical & Functional Specifications Rack Servers Category 2 S. No. 7 Enterprise class Internal SSD Disk For Operating System with RAID	2 x 960 GB M2 SSD drives or higher having capability to be used as Mirror Disk with Above RAID controller for installing the operating system.	As SBI's workloads include high-frequency financial transactions, large-scale database operations, and real-time analytics, the sustained and random I/O performance of SSDs directly impacts system responsiveness and transaction completion times. We propose including minimum performance requirements, e.g., Sequential Read, Sequential Write, Random Read , Random Write and Endurance (DWPD) to ensure SSDs meet enterprise banking workload demands and reduce latency in core banking applications This also brings parity in various bidder to position similar grade servers. We request you to include the following additional to the SSD capacities: **sequential read≥ 540 MB/s , sequential write ≥ 520 MB/s , and random read ≥ 95K IOPS , random writes ≥ 33K IOPS and 1.5 DWPD for OS boot. M2 Sata SSD**	No Change, as per RFP

120	67	Appendix-C Technical & Functional Specifications Rack Servers Category 2 S. No. 8 Enterprise class Internal NL SAS Disk	14 x 8TB NL SAS or higher enterprise class disk	It is recommended to design the server architecture entirely around SSDs, eliminating the need for HDD integration. Replacing 16 × 4 TB HDDs with high-capacity NVMe SSDs (30 TB or 60 TB) will significantly r**educe the physical footprint, lower TCO, improve reliability, enhance data security, and enable much faster data recovery.** All SSDs will be in a consistent 2.5-inch form factor, unlike 3.5-inch HDDs, ensuring uniformity across the storage subsystem. Thi**s removes the need for hybrid server configurations that support both HDDs and SSDs, simplifying procurement, deployment, and long-term maintenance.** Kindly Ammend the clause as below: **4 x 30.72 TB NVMe or higher enterprise class with sequential read≥ 14000 MB/s , sequential write ≥ 7000 MB/s , and random read ≥ 2000K IOPS , random writes ≥ 70K IOPS and 0.3 DWPD**	No Change, as per RFP
121	68	Appendix-C Technical & Functional Specifications Rack Servers Category 2 S. No. 9 Enterprise class Internal Nvme Disk	1 x 7.68 TB NVMe and 2 x 3.84 TB NVMe or Higher enterprise class disk	As SBI's workloads include high-frequency financial transactions, large-scale database operations, and real-time analytics, the sustained and random I/O performance of SSDs directly impacts system responsiveness and transaction completion times. We propose including minimum performance requirements, e.g., Sequential Read, Sequential Write, Random Read , Random Write and Endurance (DWPD) to ensure SSDs meet enterprise banking workload demands and reduce latency in core banking applications. We request you to include the following additional to the SSD capacities: **For 7.68TB: sequential read≥ 7000 MB/s , sequential write ≥ 5900 MB/s , and random read ≥ 1100K IOPS , random writes ≥ 215K IOPS and 1 DWPD** **For 3.84TB: sequential read≥ 6800 MB/s , sequential write ≥ 5300 MB/s , and random read ≥ 1100K IOPS , random writes ≥ 180K IOPS and 1 DWPD**	No Change, as per RFP
122	68	Appendix-C Technical & Functional Specifications Rack Servers Category 3a S. No. 5 Memory	Each Server should be installed with minimum 512GB Memory DDR5 or higher. Each individual RDIMM module should have minimum memory speed of 5600 MT/s.	For financial workloads requiring low-latency processing (e.g., risk modeling, fraud detection, real-time trading), memory speed and latency are critical. We propose specifying DDR5 RDIMM or LRDIMM with minimum speed grade ≥ 5600 MT/s to ensure optimal performance for SBI's core applications and virtualized environments. Request you to ammend the clause as below: Each Server should be installed with minimum 1.5 TB Memory DDR5 **(monolithic)** or higher. Each individual RDIMM module of **64GB or Higher** should have minimum memory speed of **6400 MT/s.**	No Change, as per RFP
123	69	Appendix-C Technical & Functional Specifications Rack Servers Category 3a S. No. 7 Enterprise class Internal SSD Disk For Operating System with RAID	2 x 960 GB M2 SSD drives or higher having capability to be used as Mirror Disk with Above RAID controller for installing the operating system.	As SBI's workloads include high-frequency financial transactions, large-scale database operations, and real-time analytics, the sustained and random I/O performance of SSDs directly impacts system responsiveness and transaction completion times. We propose including minimum performance requirements, e.g., Sequential Read, Sequential Write, Random Read , Random Write and Endurance (DWPD) to ensure SSDs meet enterprise banking workload demands and reduce latency in core banking applications This also brings parity in various bidder to position similar grade servers. We request you to include the following additional to the SSD capacities: **sequential read≥ 540 MB/s , sequential write ≥ 520 MB/s , and random read ≥ 95K IOPS , random writes ≥ 33K IOPS and 1.5 DWPD for OS boot. M2 Sata SSD**	No Change, as per RFP
124	69	Appendix-C Technical & Functional Specifications Rack Servers Category 3a S. No. 8 Enterprise class Internal Nvme Disk	8 x 960 GB NVMe or Higher enterprise class disk	As SBI's workloads include high-frequency financial transactions, large-scale database operations, and real-time analytics, the sustained and random I/O performance of SSDs directly impacts system responsiveness and transaction completion times. We propose including minimum performance requirements, e.g., Sequential Read, Sequential Write, Random Read , Random Write and Endurance (DWPD) to ensure SSDs meet enterprise banking workload demands and reduce latency in core banking applications. We request you to include the following additional to the SSD capacities: **sequential read≥ 6800 MB/s , sequential write ≥ 1400 MB/s , and random read ≥ 800K IOPS , random writes ≥ 85K IOPS and 1 DWPD**	No Change, as per RFP

125	70	Appendix-C Technical & Functional Specifications Rack Servers Category 3b S. No. 5 Memory	Each Server should be installed with minimum 1 TB Memory DDR5 or higher. Each individual RDIMM module should have minimum memory speed of 5600 MT/s.	For financial workloads requiring low-latency processing (e.g., risk modeling, fraud detection, real-time trading), memory speed and latency are critical. We propose specifying DDR5 RDIMM or LRDIMM with minimum speed grade ≥ 5600 MT/s to ensure optimal performance for SBI's core applications and virtualized environments. Request you to ammend the clause as below: Each Server should be installed with minimum 1.5 TB Memory DDR5 **(monolithic)** or higher. Each individual RDIMM module of **96GB or Higher** should have minimum memory speed of **6400 MT/s.**	No Change, as per RFP
126	71	Appendix-C Technical & Functional Specifications Rack Servers Category 3b S. No. 7 Enterprise class Internal SSD Disk For Operating System with RAID	2 x 960 GB M2 SSD drives or higher having capability to be used as Mirror Disk with Above RAID controller for installing the operating system.	As SBI's workloads include high-frequency financial transactions, large-scale database operations, and real-time analytics, the sustained and random I/O performance of SSDs directly impacts system responsiveness and transaction completion times. We propose including minimum performance requirements, e.g., Sequential Read, Sequential Write, Random Read , Random Write and Endurance (DWPD) to ensure SSDs meet enterprise banking workload demands and reduce latency in core banking applications This also brings parity in various bidder to position similar grade servers. We request you to include the following additional to the SSD capacities: **sequential read≥ 540 MB/s , sequential write ≥ 520 MB/s , and random read ≥ 95K IOPS , random writes ≥ 33K IOPS and 1.5 DWPD for OS boot. M2 Sata SSD**	No Change, as per RFP
127	71	Appendix-C Technical & Functional Specifications Rack Servers Category 3b S. No. 8 Enterprise class Internal Nvme Disk	12 x 7.68 TB NVMe or Higher enterprise class disk	As SBI's workloads include high-frequency financial transactions, large-scale database operations, and real-time analytics, the sustained and random I/O performance of SSDs directly impacts system responsiveness and transaction completion times. We propose including minimum performance requirements, e.g., Sequential Read, Sequential Write, Random Read , Random Write and Endurance (DWPD) to ensure SSDs meet enterprise banking workload demands and reduce latency in core banking applications. We request you to include the following additional to the SSD capacities: **For 7.68TB: sequential read≥ 7000 MB/s , sequential write ≥ 5900 MB/s , and random read ≥ 1100K IOPS , random writes ≥ 215K IOPS and 1 DWPD**	No Change, as per RFP
128	71	Appendix-C Technical & Functional Specifications Rack Servers Category 4 S. No. 5 Memory	Each Server should be installed with minimum 512GB Memory DDR5 or higher. Each individual RDIMM module should have minimum memory speed of 5600 MT/s.	For financial workloads requiring low-latency processing (e.g., risk modeling, fraud detection, real-time trading), memory speed and latency are critical. We propose specifying DDR5 RDIMM or LRDIMM with minimum speed grade ≥ 5600 MT/s to ensure optimal performance for SBI's core applications and virtualized environments. Request you to ammend the clause as below: Each Server should be installed with minimum 512 GB Memory DDR5 **(monolithic)** or higher. Each individual RDIMM module of **64GB or Higher** should have minimum memory speed of **6400 MT/s.**	No Change, as per RFP
129	72	Appendix-C Technical & Functional Specifications Rack Servers Category 4 S. No. 7 Enterprise class Internal SSD Disk For Operating System with RAID	2 x 960 GB M2 SSD drives or higher having capability to be used as Mirror Disk with Above RAID controller for installing the operating system.	As SBI's workloads include high-frequency financial transactions, large-scale database operations, and real-time analytics, the sustained and random I/O performance of SSDs directly impacts system responsiveness and transaction completion times. We propose including minimum performance requirements, e.g., Sequential Read, Sequential Write, Random Read , Random Write and Endurance (DWPD) to ensure SSDs meet enterprise banking workload demands and reduce latency in core banking applications This also brings parity in various bidder to position similar grade servers. We request you to include the following additional to the SSD capacities: **sequential read≥ 540 MB/s , sequential write ≥ 520 MB/s , and random read ≥ 95K IOPS , random writes ≥ 33K IOPS and 1.5 DWPD for OS boot. M2 Sata SSD**	No Change, as per RFP
130	72	Appendix-C Technical & Functional Specifications Rack Servers Category 4 S. No. 8 Enterprise class Internal Nvme Disk	2 x 7.68 TB NVMe or Higher enterprise class disk	As SBI's workloads include high-frequency financial transactions, large-scale database operations, and real-time analytics, the sustained and random I/O performance of SSDs directly impacts system responsiveness and transaction completion times. We propose including minimum performance requirements, e.g., Sequential Read, Sequential Write, Random Read , Random Write and Endurance (DWPD) to ensure SSDs meet enterprise banking workload demands and reduce latency in core banking applications. We request you to include the following additional to the SSD capacities: **For 7.68TB: sequential read≥ 7000 MB/s , sequential write ≥ 5900 MB/s , and random read ≥ 1100K IOPS , random writes ≥ 215K IOPS and 1 DWPD**	No Change, as per RFP

131	73	Appendix-C Technical & Functional Specifications Rack Servers Category 5 S. No. 5 Memory	Each Server should be installed with minimum512 GB Memory DDR5 or higher. Each individual RDIMM module should have minimum memory speed of 5600 MT/s.	For financial workloads requiring low-latency processing (e.g., risk modeling, fraud detection, real-time trading), memory speed and latency are critical. We propose specifying DDR5 RDIMM or LRDIMM with minimum speed grade ≥ 5600 MT/s to ensure optimal performance for SBI's core applications and virtualized environments. Request you to ammend the clause as below: Each Server should be installed with minimum 512GB Memory DDR5 **(monolithic)** or higher. Each individual RDIMM module of **64GB or Higher** should have minimum memory speed of **6400 MT/s.**	No Change, as per RFP
132	74	Appendix-C Technical & Functional Specifications Rack Servers Category 5 S. No. 7 Enterprise class Internal SSD Disk For Operating System with RAID	2 x 960 GB M2 SSD drives or higher having capability to be used as Mirror Disk with Above RAID controller for installing the operating system.	As SBI's workloads include high-frequency financial transactions, large-scale database operations, and real-time analytics, the sustained and random I/O performance of SSDs directly impacts system responsiveness and transaction completion times. We propose including minimum performance requirements, e.g., Sequential Read, Sequential Write, Random Read , Random Write and Endurance (DWPD) to ensure SSDs meet enterprise banking workload demands and reduce latency in core banking applications This also brings parity in various bidder to position similar grade servers. We request you to include the following additional to the SSD capacities: **sequential read≥ 540 MB/s , sequential write ≥ 520 MB/s , and random read ≥ 95K IOPS , random writes ≥ 33K IOPS and 1.5 DWPD for OS boot. M2 Sata SSD**	No Change, as per RFP
133	74	Appendix-C Technical & Functional Specifications Rack Servers Category 2 S. No. 8 Enterprise class Internal NL SAS Disk	2 x 4 TB NL SAS or higher enterprise class disk	It is recommended to design the server architecture entirely around SSDs, eliminating the need for HDD integration. Replacing 16 × 4 TB HDDs with high-capacity NVMe SSDs (30 TB or 60 TB) will significantly r**educe the physical footprint, lower TCO, improve reliability, enhance data security, and enable much faster data recovery.** All SSDs will be in a consistent 2.5-inch form factor, unlike 3.5-inch HDDs, ensuring uniformity across the storage subsystem. Thi**s removes the need for hybrid server configurations that support both HDDs and SSDs, simplifying procurement, deployment, and long-term maintenance.** Kindly Ammend the clause as below: **1 x 12 TB NVMe or higher enterprise class with sequential read≥ 6800 MB/s , sequential write ≥ 5600 MB/s , and random read ≥ 1M IOPS , random writes ≥ 400K IOPS and 3 DWPD**	No Change, as per RFP
134	75	Appendix-C Technical & Functional Specifications Rack Servers Category 6 S. No. 5 Memory	Each Server should be installed with minimum256 GB Memory DDR5 or higher. Each individual RDIMM module should have minimum memory speed of 5600 MT/s.	For financial workloads requiring low-latency processing (e.g., risk modeling, fraud detection, real-time trading), memory speed and latency are critical. We propose specifying DDR5 RDIMM or LRDIMM with minimum speed grade ≥ 5600 MT/s to ensure optimal performance for SBI's core applications and virtualized environments. Request you to ammend the clause as below: Each Server should be installed with minimum 256 GB Memory DDR5 **(monolithic)** or higher. Each individual RDIMM module of **64GB or Higher** should have minimum memory speed of **6400 MT/s.**	No Change, as per RFP
135	75	Appendix-C Technical & Functional Specifications Rack Servers Category 6 S. No. 7 Enterprise class Internal SSD Disk For Operating System with RAID	2 x 960 GB M2 SSD drives or higher having capability to be used as Mirror Disk with Above RAID controller for installing the operating system.	As SBI's workloads include high-frequency financial transactions, large-scale database operations, and real-time analytics, the sustained and random I/O performance of SSDs directly impacts system responsiveness and transaction completion times. We propose including minimum performance requirements, e.g., Sequential Read, Sequential Write, Random Read , Random Write and Endurance (DWPD) to ensure SSDs meet enterprise banking workload demands and reduce latency in core banking applications This also brings parity in various bidder to position similar grade servers. We request you to include the following additional to the SSD capacities: **sequential read≥ 540 MB/s , sequential write ≥ 520 MB/s , and random read ≥ 95K IOPS , random writes ≥ 33K IOPS and 1.5 DWPD for OS boot. M2 Sata SSD**	No Change, as per RFP

136	75	Appendix-C Technical & Functional Specifications Rack Servers Category 6 S. No. 8 Enterprise class Internal Nvme Disk	2 x 480GB M2 SSD drives or higher	As SBI's workloads include high-frequency financial transactions, large-scale database operations, and real-time analytics, the sustained and random I/O performance of SSDs directly impacts system responsiveness and transaction completion times. We propose including minimum performance requirements, e.g., Sequential Read, Sequential Write, Random Read , Random Write and Endurance (DWPD) to ensure SSDs meet enterprise banking workload demands and reduce latency in core banking applications. We request you to include the following additional to the SSD capacities: **sequential read≥ 540 MB/s , sequential write ≥ 520 MB/s , and random read ≥ 95K IOPS , random writes ≥ 37K IOPS and 1.5 DWPD .M2 Sata SSD**	No Change, as per RFP
137	76	Appendix-C Technical & Functional Specifications Rack Servers Category 7 S. No. 5 Memory	Each Server should be installed with minimum256 GB Memory DDR5 or higher. Each individual RDIMM module should have minimum memory speed of 5600 MT/s.	For financial workloads requiring low-latency processing (e.g., risk modeling, fraud detection, real-time trading), memory speed and latency are critical. We propose specifying DDR5 RDIMM or LRDIMM with minimum speed grade ≥ 5600 MT/s to ensure optimal performance for SBI's core applications and virtualized environments. Request you to ammend the clause as below: Each Server should be installed with minimum 256 GB Memory DDR5 **(monolithic)** or higher. Each individual RDIMM module of **64GB or Higher** should have minimum memory speed of **6400 MT/s.**	No Change, as per RFP
138	77	Appendix-C Technical & Functional Specifications Rack Servers Category 7 S. No. 7 Enterprise class Internal SSD Disk For Operating System with RAID	2 x 960 GB M2 SSD drives or higher having capability to be used as Mirror Disk with Above RAID controller for installing the operating system.	As SBI's workloads include high-frequency financial transactions, large-scale database operations, and real-time analytics, the sustained and random I/O performance of SSDs directly impacts system responsiveness and transaction completion times. We propose including minimum performance requirements, e.g., Sequential Read, Sequential Write, Random Read , Random Write and Endurance (DWPD) to ensure SSDs meet enterprise banking workload demands and reduce latency in core banking applications This also brings parity in various bidder to position similar grade servers. We request you to include the following additional to the SSD capacities: **sequential read≥ 540 MB/s , sequential write ≥ 520 MB/s , and random read ≥ 95K IOPS , random writes ≥ 33K IOPS and 1.5 DWPD for OS boot. M2 Sata SSD**	No Change, as per RFP
139	77	Appendix-C Technical & Functional Specifications Rack Servers Category 7 S. No. 8 Enterprise class Internal Nvme Disk	6 x 1.92 TB NVMe or higher enterprise class disk	As SBI's workloads include high-frequency financial transactions, large-scale database operations, and real-time analytics, the sustained and random I/O performance of SSDs directly impacts system responsiveness and transaction completion times. We propose including minimum performance requirements, e.g., Sequential Read, Sequential Write, Random Read , Random Write and Endurance (DWPD) to ensure SSDs meet enterprise banking workload demands and reduce latency in core banking applications. We request you to include the following additional to the SSD capacities: **sequential read≥ 6800 MB/s , sequential write ≥ 2700 MB/s , and random read ≥ 1000K IOPS , random writes ≥ 145K IOPS and 1 DWPD**	No Change, as per RFP
140	78	Appendix-C Technical & Functional Specifications Rack Servers Category 8 S. No. 5 Memory	Each Server should be installed with minimum 2TB Memory DDR5 or higher. Each individual RDIMM module should have minimum memory speed of 5600 MT/s.	For financial workloads requiring low-latency processing (e.g., risk modeling, fraud detection, real-time trading), memory speed and latency are critical. We propose specifying DDR5 RDIMM or LRDIMM with minimum speed grade ≥ 5600 MT/s to ensure optimal performance for SBI's core applications and virtualized environments. Request you to ammend the clause as below: Each Server should be installed with minimum 2TB Memory DDR5 **(monolithic)** or higher. Each individual RDIMM module of 96**GB or Higher** should have minimum memory speed of **6400 MT/s.**	No Change, as per RFP
141	78	Appendix-C Technical & Functional Specifications Rack Servers Category 8 S. No. 7 Enterprise class Internal SSD Disk For Operating System with RAID	2 x 960 GB M2 SSD drives or higher having capability to be used as Mirror Disk with Above RAID controller for installing the operating system.	As SBI's workloads include high-frequency financial transactions, large-scale database operations, and real-time analytics, the sustained and random I/O performance of SSDs directly impacts system responsiveness and transaction completion times. We propose including minimum performance requirements, e.g., Sequential Read, Sequential Write, Random Read , Random Write and Endurance (DWPD) to ensure SSDs meet enterprise banking workload demands and reduce latency in core banking applications This also brings parity in various bidder to position similar grade servers. We request you to include the following additional to the SSD capacities: **sequential read≥ 540 MB/s , sequential write ≥ 520 MB/s , and random read ≥ 95K IOPS , random writes ≥ 33K IOPS and 1.5 DWPD for OS boot. M2 Sata SSD**	No Change, as per RFP

142	78	Appendix-C Technical & Functional Specifications Rack Servers Category 8 S. No. 8 Enterprise class Internal Nvme Disk	3 x 1.960 GB NVMe or higher enterprise class disk	As SBI's workloads include high-frequency financial transactions, large-scale database operations, and real-time analytics, the sustained and random I/O performance of SSDs directly impacts system responsiveness and transaction completion times. We propose including minimum performance requirements, e.g., Sequential Read, Sequential Write, Random Read , Random Write and Endurance (DWPD) to ensure SSDs meet enterprise banking workload demands and reduce latency in core banking applications. We request you to include the following additional to the SSD capacities: **Capacity either should be 1.92TB or 960GB.** **sequential read≥ 6800 MB/s , sequential write ≥ 1400 MB/s , and random read ≥ 800K IOPS , random writes ≥ 85K IOPS and 1 DWPD**	No Change, as per RFP
143	79	Appendix-C Technical & Functional Specifications Rack Servers Category 9 S. No. 5 Memory	Each Server should be installed with minimum 256GB Memory DDR5 or higher. Each individual RDIMM module should have minimum memory speed of 5600 MT/s.	For financial workloads requiring low-latency processing (e.g., risk modeling, fraud detection, real-time trading), memory speed and latency are critical. We propose specifying DDR5 RDIMM or LRDIMM with minimum speed grade ≥ 5600 MT/s to ensure optimal performance for SBI's core applications and virtualized environments. Request you to ammend the clause as below: Each Server should be installed with minimum 256GB Memory DDR5 **(monolithic)** or higher. Each individual RDIMM module of **64GB or Higher** should have minimum memory speed of **6400 MT/s.**	No Change, as per RFP
144	80	Appendix-C Technical & Functional Specifications Rack Servers Category 9 S. No. 7 Enterprise class Internal SSD Disk For Operating System with RAID	2 x 960 GB M2 SSD drives or higher having capability to be used as Mirror Disk with Above RAID controller for installing the operating system.	As SBI's workloads include high-frequency financial transactions, large-scale database operations, and real-time analytics, the sustained and random I/O performance of SSDs directly impacts system responsiveness and transaction completion times. We propose including minimum performance requirements, e.g., Sequential Read, Sequential Write, Random Read , Random Write and Endurance (DWPD) to ensure SSDs meet enterprise banking workload demands and reduce latency in core banking applications This also brings parity in various bidder to position similar grade servers. We request you to include the following additional to the SSD capacities: **sequential read≥ 540 MB/s , sequential write ≥ 520 MB/s , and random read ≥ 95K IOPS , random writes ≥ 33K IOPS and 1.5 DWPD for OS boot. M2 Sata SSD**	No Change, as per RFP
145	80	Appendix-C Technical & Functional Specifications Rack Servers Category 9 S. No. 8 Enterprise class Internal Nvme Disk	3 x 7.68 TB NVMe or higher enterprise class disk	As SBI's workloads include high-frequency financial transactions, large-scale database operations, and real-time analytics, the sustained and random I/O performance of SSDs directly impacts system responsiveness and transaction completion times. We propose including minimum performance requirements, e.g., Sequential Read, Sequential Write, Random Read , Random Write and Endurance (DWPD) to ensure SSDs meet enterprise banking workload demands and reduce latency in core banking applications. We request you to include the following additional to the SSD capacities: **For 7.68TB: sequential read≥ 7000 MB/s , sequential write ≥ 5900 MB/s , and random read ≥ 1100K IOPS , random writes ≥ 215K IOPS and 1 DWPD**	No Change, as per RFP
146	80	Appendix-C Technical & Functional Specifications Rack Servers Category 10 S. No. 5 Memory	Each Server should be installed with minimum 512GB Memory DDR5 or higher. Each individual RDIMM module should have minimum memory speed of 5600 MT/s.	For financial workloads requiring low-latency processing (e.g., risk modeling, fraud detection, real-time trading), memory speed and latency are critical. We propose specifying DDR5 RDIMM or LRDIMM with minimum speed grade ≥ 5600 MT/s to ensure optimal performance for SBI's core applications and virtualized environments. Request you to ammend the clause as below: Each Server should be installed with minimum 512GB Memory DDR5 **(monolithic)** or higher. Each individual RDIMM module of **64GB or Higher** should have minimum memory speed of **6400 MT/s.**	No Change, as per RFP
147	81	Appendix-C Technical & Functional Specifications Rack Servers Category 10 S. No. 7 Enterprise class Internal SSD Disk For Operating System with RAID	2 x 960 GB M2 SSD drives or higher having capability to be used as Mirror Disk with Above RAID controller for installing the operating system.	As SBI's workloads include high-frequency financial transactions, large-scale database operations, and real-time analytics, the sustained and random I/O performance of SSDs directly impacts system responsiveness and transaction completion times. We propose including minimum performance requirements, e.g., Sequential Read, Sequential Write, Random Read , Random Write and Endurance (DWPD) to ensure SSDs meet enterprise banking workload demands and reduce latency in core banking applications This also brings parity in various bidder to position similar grade servers. We request you to include the following additional to the SSD capacities: **sequential read≥ 540 MB/s , sequential write ≥ 520 MB/s , and random read ≥ 95K IOPS , random writes ≥ 33K IOPS and 1.5 DWPD for OS boot. M2 Sata SSD**	No Change, as per RFP

148	82	Appendix-C Technical & Functional Specifications Rack Servers Category 11 S. No. 5 Memory	Each Server should be installed with minimum 256GB Memory DDR5 or higher. Each individual RDIMM module should have minimum memory speed of 5600 MT/s.	For financial workloads requiring low-latency processing (e.g., risk modeling, fraud detection, real-time trading), memory speed and latency are critical. We propose specifying DDR5 RDIMM or LRDIMM with minimum speed grade ≥ 5600 MT/s to ensure optimal performance for SBI's core applications and virtualized environments. Request you to ammend the clause as below: Each Server should be installed with minimum 256GB Memory DDR5 **(monolithic)** or higher. Each individual RDIMM module of **64GB or Higher** should have minimum memory speed of **6400 MT/s.**	No Change, as per RFP
149	83	Appendix-C Technical & Functional Specifications Rack Servers Category 11 S. No. 7 Enterprise class Internal SSD Disk For Operating System with RAID	2 x 960 GB M2 SSD drives or higher having capability to be used as Mirror Disk with Above RAID controller for installing the operating system.	As SBI's workloads include high-frequency financial transactions, large-scale database operations, and real-time analytics, the sustained and random I/O performance of SSDs directly impacts system responsiveness and transaction completion times. We propose including minimum performance requirements, e.g., Sequential Read, Sequential Write, Random Read , Random Write and Endurance (DWPD) to ensure SSDs meet enterprise banking workload demands and reduce latency in core banking applications This also brings parity in various bidder to position similar grade servers. We request you to include the following additional to the SSD capacities: **sequential read≥ 540 MB/s , sequential write ≥ 520 MB/s , and random read ≥ 95K IOPS , random writes ≥ 33K IOPS and 1.5 DWPD for OS boot. M2 Sata SSD**	No Change, as per RFP
150	84	Appendix-C Technical & Functional Specifications Rack Servers Category 2 S. No. 6 Memory	Each Server should be installed with minimum 3 TB Memory DDR5 or higher RDIMM	For financial workloads requiring low-latency processing (e.g., risk modeling, fraud detection, real-time trading), memory speed and latency are critical. We propose specifying DDR5 RDIMM or LRDIMM with minimum speed grade ≥ 5600 MT/s to ensure optimal performance for SBI's core applications and virtualized environments. Request you to ammend the clause as below: Each Server should be installed with minimum 3 TB Memory DDR5 **(monolithic)** or higher. Each individual RDIMM module of **96GB or Higher** should have minimum memory speed of **6400 MT/s.**	No Change, as per RFP
151	84	Appendix-C Technical & Functional Specifications Rack Servers Category 1 S. No. 8 Enterprise class Internal Storage	Minimum 2 x 960 GB M2 SSD drives or higher having capability to be used as Mirror Disk with Above RAID controller for installing the operating system hypervisor and 8 * 15.xx TB NVMe drives per node.	As SBI's workloads include high-frequency financial transactions, large-scale database operations, and real-time analytics, the sustained and random I/O performance of SSDs directly impacts system responsiveness and transaction completion times. We propose including minimum performance requirements, e.g., Sequential Read, Sequential Write, Random Read , Random Write and Endurance (DWPD) to ensure SSDs meet enterprise banking workload demands and reduce latency in core banking applications This also brings parity in various bidder to position similar grade servers. We request you to include the following additional to the SSD capacities: **960 GB: sequential read≥ 540 MB/s , sequential write ≥ 520 MB/s , and random read ≥ 95K IOPS , random writes ≥ 33K IOPS and 1.5 DWPD for OS boot. M2 Sata SSD** **15TB NVMe drive: sequential read≥ 7000 MB/s , sequential write ≥ 5900 MB/s , and random read ≥ 1100K IOPS , random writes ≥ 250K IOPS and 1 DWPD**	No Change, as per RFP
152	Page 130 of 269	6	Integration / Migration Requirements with existing systems	Is there any data migration in scope?	No Change, as per RFP Data migration is not in the scope of bidder.
153	Page 150 of 269	3	Delivery Delay: If the vendor fails to deliver any or all equipment within 8 weeks from the date of issuance of the Purchase Order, a penalty of 0.5% of the total equipment cost per week (or part thereof) will be imposed, up to a maximum of 10% of the total equipment cost. The total penalty amount will be deducted from the final payment after the successful delivery of hardware.	Request to increase delivery timeline from 8 week to 12 week	No Change, as per RFP
154	Page 150 of 269	4	Commissioning Delay: If the equipment is not installed, tested, and commissioned within 10 weeks from the date of issuance of the Purchase Order, an additional penalty of 0.5% of the total equipment cost per week (or part thereof) will apply, subject to a maximum of 10% of the total equipment cost. This amount of the penalty so calculated shall be deducted at the time of making final payment after successful installation and commissioning of hardware.	Request to increase Installation timeline from 10 week to 14 week	No Change, as per RFP

155	Page 126 of 269		Supply, installation, testing, commissioning, and maintenance of computer hardware (Servers) along with peripherals/software components, with warranty period for first 5 years and further 2 years AMC. The post commissioning (day-2) operations will be handled by the Bank Team or existing vendor team. Warranty and Annual Maintenance Contract will be provided by the bidders identified through this RFP consisting of but not limited to faulty part replacement, firmware updates, patches, technical support from OEM etc.	OS installation is also part of the Scope? Also bidder need to add server in existing clusters (e.g. Vmware)	No Change, as per RFP OS installation is not under scope of bidder.
156	Page 116 of 269	R. 42U Rack Specifications	2. Environmental Monitoring: a. Integrated Sensors: The rack should be equipped with integrated sensors to monitor temperature, humidity, airflow, and pressure. These sensors should be capable of real-time reporting to ensure optimal environmental conditions and enable proactive management of server health.	Please share the count of Temperature , Humidity and Airflow sensors which does real time readings to give proactive alarms to defer outages. Please confirm on nos of sensors per Rack?	No Change, as per RFP The requirement for integrated environmental monitoring sensors is intended to ensure real-time visibility and proactive management of mission-critical workloads. While we recognize that the exact number of sensors may vary depending on rack size, configuration, and OEM design, the emphasis is on comprehensive coverage to reliably detect hot spots, humidity variations, airflow issues, or pressure anomalies anywhere within the rack. Vendors are expected to provide a sensor layout and count sufficient to monitor all critical zones within the proposed rack, along with real-time reporting and alerting capabilities. The evaluation will consider the effectiveness of the monitoring solution in maintaining optimal operating conditions rather than prescribing a fixed number of sensors, allowing flexibility for different OEM designs while safeguarding system performance and reliability.
157	Page 117 of 269	R. 42U Rack Specifications	b. Real-Time Alerts: The environmental monitoring system should be able to send real-time alerts for critical conditions, such as temperature spikes or airflow issues, to minimize downtime and prevent equipment damage	Real time alerts needs to be configured on Rack Power Management software, otherwise every IPDU will have Individual IP , also IPDU doesn't record and save data. Hence request to add power management data software which will record ,save and show dashboard and reports of POwer, Temperature, Humidity , Airflow Data on Server Layout and pin point if any alerts at different Rack Location.	No Change, as per RFP
158	Page 117 of 269	R. 42U Rack Specifications	c. Daisy Chain Connectivity: PDUs should support daisy chain connectivity for network connections, allowing multiple PDUs to be interconnected, simplifying cabling and enabling centralized control.	Daisy chaining requires 2 ports of 10/100/1000 MBPS which will create Ring Topology. Kindly confirm should we consider the same.	No Change, as per RFP If required the same can be proposed.
159	Page 117 of 269	R. 42U Rack Specifications	b. Power Metering: The PDUs should include power metering capabilities to provide detailed usage data, enabling better energy management and cost control	Monitoring parameters – The IPDU should have monitoring and metering capability at the outlet level and Strip level and phase level. a. Voltage (V) b. Current (A) c. Power factor d. Active power (W) e. Apparent power (VA) f. Energy consumption (kwh)	No Change, as per RFP
160	Page 117 of 269	R. 42U Rack Specifications	b. Power Metering: The PDUs should include power metering capabilities to provide detailed usage data, enabling better energy management and cost control	Do we need to consider any output protocol to measure the power like SNMP, Modbus protocol to integrate with 3rd party or OEM Software.Also DO we consider software to measure power, temp , humidity & airflow sensor readings with reports, dashboards, alarams and predictive analysis to give proactive analysis	No Change, as per RFP
161	Page 118 of 269	R. 42U Rack Specifications	4. Color-Coding for Cables and Connectivity: a. Primary and Secondary PowerCables: Primary and secondary powercables should be clearly distinguishable by color (e.g., blue forprimary, red for secondary),minimizing confusion and simplifyingmaintenance.		No Change, as per RFP
162	Page 121 of 269	R. 48U Rack Specifications	5. Rack specifications:b) Strong and durable 9-times folded solid frame profile that can hold a load of up to 1,500 kg.	Can we consider 5 Fold times, since 9 times Folded is Properitary in nature.	No Change, as per RFP
163	Page 121 of 269	R. 48U Rack Specifications	c) 4 x 19" EIA-310 vertical mounting rails shall be made of 14gauge steel, 9 times folded for maximum rigidity.	Can we consider 5 Fold times, since 9 times Folded is Properitary in nature.	No Change, as per RFP
164	Page 122 of 269	R. 48U Rack Specifications	m) Rack OEM should follow certifications like EIA 310, CE/UL, RoHS, etc.	Rack and IPDU OEM should be same, This will helpful for better integration Brands like Schneider, Rittal, Legrand and Vertiv has both Racks and IPDU in there product portfolio	No Change, as per RFP
165	Page 120 of 269	R. 48U Rack Specifications	4.Color-Coding for Cables and Connectivity: a. Primary and Secondary Power Cables: Primary and secondary power cables should be clearly distinguishable by color (e.g., blue for primary, red for secondary), minimizing confusion and simplifying maintenance.	Alternation sockets for phase wise distribution is missing in the IPDU Specification this will be helpful for phase wise distribution with no Downtime from power failure and Better Airflow management at rear of Racks.	No Change, as per RFP

166	88	5	5. Each storage system shall be offered in its maximum scalable configuration as per OEM design, ensuring the highest levels of performance, availability, and throughput. This includes fully populating all controller nodes/modules/enclosures, along with redundant power, fabric, cache, and other critical components.	We request bank to clarify that the Storage System must be fully populated with maximum controllers & cache on day one. Future upgrades should include only drives.	No Change, as per RFP
167	95-96	49	• Encryption (e.g., AES-256) for data in flight. If the solution natively supports replication, then it should not burden the system i.e. replication should work without compromising on any feature and performance of storage system. In case of issues, bidder has to provide the FCIP Routers/external systems to achieve the same without any cost to bank.	Request bank to modify existing clause to following for the reason Encryption can be enabled through IPSEC and its achievable using FCIP router only thus mandating every participant to quote necessary FCIP router as part of solution. "If the solution natively supports replication, then it should not burden the system i.e. replication should work without compromising on any feature and performance of storage system.The bidder must provide FCIP Routers/external systems to achieve the same without any cost to bank."	No Change, as per RFP
168	100 - 101 & 106 - 107	1	Total 2 no. of Brocade Director Class switch. Each SAN switch should be populated with 2 * 64-port 64-Gbps Fibre Channel line card with 32 Gbps SFPs/64 Gbps SFPs on day one and ports scalable up to a maximum of 512. The switch should be able to support (or in future) 64GB FC speeds on all 512 ports at line rate without adding any component other than line card. Providing an aggregate bandwidth of 32 Tbps. Total 2 no. of Cisco Director Class switch. Each SAN switch should be populated with 2 * 48-port 64-Gbps Fibre Channel line card with 32 Gbps SFPs/64 Gbps SFPs on day one and ports scalable up to a maximum of 768.	We respectfully request the bank to permit participants to quote for either of the SAN switches (with only one OEM i.e. Cisco or Brocade), This will help to get commercials for Bank, rather than mandating both.	No Change, as per RFP
169	117	3	3.Intelligent power distribution units (IPDUs).	We respectfully request the bank to modify this clause to standard PDUs instead of IPDUs	No Change, as per RFP
170	121	4 - a, b, c	4.Color-Coding for Cables and Connectivity	We respectfully request the bank to modify this clause to keep standard colour	No Change, as per RFP
171	120	3 - a,b,c	2.Environmental Monitoring	We respectfully request the bank for omission of this clause as as environmental monitoring is already handled at the DC level. The inclusion of this sensor data could lead to confusion when compared to the data generated at the DC level Additionally this clause will contribute to a more favorable TCO.	No Change, as per RFP
172	121	5 (b)	b)Strong and durable 9-times folded solid frame profile that can hold a load of up to 1,500 kg	We respectfully request the bank to modify this clause to keep weight limit to 1200kg as this is calibrated considering maximum factors of storage design in OEM racks.	No Change, as per RFP
173	20	13 (ii)	Price quoted by the Bidder in Reverse auction shall remain valid for duration of 24 calendar months from the date of initial Purchase Order.	We kindly request the Bank to maintain the price validity for a period of six months, considering fluctuations in the USD exchange rate. We also propose fixing the USD value, with any variations to be adjusted—either upward or downward—based on the prevailing USD rate on the date of transaction.	No Change, as per RFP
174	150	46 & 151	If the equipment is not installed, tested, and commissioned within 10 weeks from the date of issuance of the Purchase Order, an additional penalty of 0.5% of the total equipment cost per week (or part thereof) will apply, subject to a maximum of 10% of the total equipment cost.	We request the Bank to cap the penalty to maximum of 5% of the total cost of the quipment or services which ever applicable.	No Change, as per RFP
175	129	Appendix -E (4)	Delivery of all equipment should be within 8 weeks and installation, testing, commissioning	We request the bank to proide 10 weeks of delivery time for all the equipments.	No Change, as per RFP
176	60	Appendix B: Bidder's Eligibility Criteria, Sr. 6	Bidder's Project Experience for Servers: The bidder must have successfully executed/completed supply of enterprise grade servers, over the last five years i.e. the current financial year and the last five financial years with following project cost: - a) Three similar completed project costing not less than the Rs. 100 Cr. Or Two similar completed project costing not less than the Rs. 125 Cr Or One similar completed project costing not less than the Rs. 200 Cr b. At least one client references in BFSI/PSU/Govt Sector for supply of enterprise grade servers etc of any make in above mentioned period.	We request Bank to modify the clause as below: Bidder's Project Experience for Servers: The bidder must have successfully executed/completed supply of enterprise grade servers/ **Engineered Hardware**, over the last five years i.e. the current financial year and the last five financial years with following project cost: - a) Three Similar completed project **cumulatively** costing not less than the **Rs. 50** Cr. Or Two similar completed project **cumulatively** costing not less than the Rs. **75** Cr Or One similar completed project costing not less than the Rs. **100** Cr b. At least one client references in BFSI/PSU/Govt Sector for supply of enterprise grade servers/ **Engineered Hardware** etc of any make in above mentioned period.	Please refer Corrigendum No. 1
177	60	Appendix B: Bidder's Eligibility Criteria, Sr. 9	Bidder's Project Experience for Storage: a. The bidder must have successfully executed/completed supply of enterprise grade storage, over the last five years i.e. the current financial year and the last five financial years: - a) Three similar completed project costing not less than the Rs. 80 Cr Or Two similar completed project costing not less than the Rs. 100 Cr Or One similar completed project costing not less than the Rs. 160 Cr b. At least one client references in BFSI/PSU/Govt Sector for supply of enterprise grade IT equipment such as servers or storage or network equipment etc. of any make in above mentioned period.	We request Bank to modify the clause as below: Bidder's Project Experience for Storage: a. The bidder must have successfully executed/completed supply of enterprise grade storage/ **Engineered Hardware**, over the last five years i.e. the current financial year and the last five financial years: - a) Three similar completed project **cumulatively** costing not less than the Rs. **50** Cr Or Two similar completed project **cumulatively** costing not less than the Rs. **75** Cr Or One similar completed project costing not less than the Rs. **100** Cr b. At least one client references in BFSI/PSU/Govt Sector for supply of enterprise grade IT equipment such as servers or storage or network equipment or **Engineered Hardware** etc. of any make in above mentioned period.	Please refer Corrigendum No. 1

178	20 of 269	Part - I	13. PERIOD OF BID VALIDITY AND VALIDITY OF PRICE QUOTED IN REVERSE AUCTION (RA): i. Bid shall remain valid for duration of 24 calendar months from Bid submission date.	We humbly request you to kindly relax this to 6 months instead of 24 months.	No Change, as per RFP
179	24 of 269	Part - I	**Point No. 19 Award Criteria and Award of Contract**	As there are 2 different RA for Server and Storage so kindly consider MII% of Server and Storage Separately.	No Change, as per RFP There will be separate RA for Server and Storage. Preference for MII will be considered separately for Servers and Storage.
180	63 of 269	Appendix B (Bidder's Eligibility Criteria)	**Point No. 13** Bidders and/or OEM should not be under debarment/blacklist period for breach of contract/fraud/corrupt practices by any Scheduled Commercial Bank/ Public Sector Undertaking / State or Central Government or their agencies/ departments on the date of submission of bid for this RFP.	You have asked for Appendix - A (Page No. 55 of 269) to be submitted for the same. As per RFP it is mentioned "Bidder and/or OEM should not be under debarment/blacklist period for breach of contract/fraud/corrupt practices by any Scheduled Commercial Bank/ Public Sector Undertaking / State or Central Government or their agencies/ departments on the date of submission of bid for this RFP". Being a prestigious and mission critical requirement, this document has to be submitted both by Bidder and Server OEM. We humbly request you to kindly make the necessary changes.	No Change, as per RFP The clause is applicable for both bidder and OEM.
181	65 of 269	Appendix C (Technical and Functional Specifications)	**A. Rack Servers (Category 1)** **Point No. 5. Memory** = Should support scalability for at least 2 TB without having to replace the existing DIMMs	Kindly help to remove the portion "**without having to replace the existing DIMMs**"	No Change, as per RFP
182	66 of 269	Appendix C (Technical and Functional Specifications)	**A. Rack Servers (Category 1)** **Point No. 10. Enterprise Class Internal NVMe Disk** = 1 x 4 TB NVMe or higher enterprise class disk	NVMe SSD's come with standard 3.84 TB of capacity and not 4 TB. So we humbly request you to **kindly amend 4 TB capacity to 3.84 TB**	Please refer Corrigendum No. 1
183	66 of 269	Appendix C (Technical and Functional Specifications)	**A. Rack Servers (Category 1)** **Point No. 11. Ethernet Controller** The bandwidth required for network per server is minimum 4 x 25 G per server that must be partitioned across minimum two cards to provide card level redundancy also should support RDMA over Converged Ethernet (RoCE).	The RFP does not mention any details of 25G transceivers. Kindly confirm whether we have to consider the corresponding 25G transceiver in the requirment.	No Change, as per RFP, This should be part of solution
184	67 of 269	Appendix C (Technical and Functional Specifications)	**B. Rack Servers (Category 2)** **Point No. 5. Memory** = Should support scalability for at least 2 TB without having to replace the existing DIMMs	Kindly help to remove the portion "**without having to replace the existing DIMMs**"	No Change, as per RFP
185	68 of 269	Appendix C (Technical and Functional Specifications)	**B. Rack Servers (Category 2)** **Point No. 11. Ethernet Controller** The bandwidth required for network per server is minimum 4 x 25 G per server that must be partitioned across minimum two cards to provide card level redundancy. Should support RDMA over Converged Ethernet (RoCE).	The RFP does not mention any details of 25G transceivers. Kindly confirm whether we have to consider the corresponding 25G transceiver in the requirment.	No Change, as per RFP,. This should be part of solution
186	69 of 269	Appendix C (Technical and Functional Specifications)	**C. Rack Servers (Category 3a)** **Point No. 9. Ethernet Controller** The bandwidth required for network per server is minimum 4 x 25 G per server that must be partitioned across minimum two cards to provide card level redundancy. Should support RDMA over Converged Ethernet (RoCE).	The RFP does not mention any details of 25G transceivers. Kindly confirm whether we have to consider the corresponding 25G transceiver in the requirment.	No Change, as per RFP,. This should be part of solution
187	70 of 269	Appendix C (Technical and Functional Specifications)	**D. Rack Servers (Category 3b)** **Point No. 5. Memory** = Should support scalability for at least 2 TB without having to replace the existing DIMMs	Kindly help to remove the portion "**without having to replace the existing DIMMs**"	No Change, as per RFP
188	71 of 269	Appendix C (Technical and Functional Specifications)	**D. Rack Servers (Category 3b)** **Point No. 9. Ethernet Controller** The bandwidth required for network per server is minimum 4 x 25 G per server that must be partitioned across minimum two cards to provide card level redundancy. Should support RDMA over Converged Ethernet (RoCE).	The RFP does not mention any details of 25G transceivers. Kindly confirm whether we have to consider the corresponding 25G transceiver in the requirment.	No Change, as per RFP,. This should be part of solution
189	72 of 269	Appendix C (Technical and Functional Specifications)	**E. Rack Servers (Category 4)** **Point No. 9. Ethernet Controller** The bandwidth required for network per server is minimum 4 x 25 G per server that must be partitioned across minimum two cards to provide card level redundancy also should support RDMA over Converged Ethernet (RoCE).	The RFP does not mention any details of 25G transceivers. Kindly confirm whether we have to consider the corresponding 25G transceiver in the requirment.	No Change, as per RFP,. This should be part of solution
190	74 of 269	Appendix C (Technical and Functional Specifications)	**F. Rack Servers (Category 5)** **Point No. 9. Ethernet Controller** The bandwidth required for network per server is minimum 4 x 25 G per server that must be partitioned across minimum two cards to provide card level redundancy. Should support RDMA over Converged Ethernet (RoCE).	The RFP does not mention any details of 25G transceivers. Kindly confirm whether we have to consider the corresponding 25G transceiver in the requirment.	No Change, as per RFP,. This should be part of solution

191	75 of 269	Appendix C (Technical and Functional Specifications)	**G. Rack Servers (Category 6)** **Point No. 9. Ethernet Controller** The bandwidth required for network per server is minimum 4 x 25 G per server that must be partitioned across minimum two cards to provide card level redundancy. Should support RDMA over Converged Ethernet (RoCE).	The RFP does not mention any details of 25G transceivers. Kindly confirm whether we have to consider the corresponding 25G transceiver in the requirment.	No Change, as per RFP,. This should be part of solution
192	77 of 269	Appendix C (Technical and Functional Specifications)	**H. Rack Servers (Category 7)** **Point No. 9. Ethernet Controller** The bandwidth required for network per server is minimum 4 x 25 G per server that must be partitioned across minimum two cards to provide card level redundancy. Should support RDMA over Converged Ethernet (RoCE).	The RFP does not mention any details of 25G transceivers. Kindly confirm whether we have to consider the corresponding 25G transceiver in the requirment.	No Change, as per RFP,. This should be part of solution
193	78 of 269	Appendix C (Technical and Functional Specifications)	**I. Rack Servers (Category 8)** **Point No. 9. Ethernet Controller** The bandwidth required for network per server is minimum 4 x 25 G per server that must be partitioned across minimum two cards to provide card level redundancy. Should support RDMA over Converged Ethernet (RoCE).	The RFP does not mention any details of 25G transceivers. Kindly confirm whether we have to consider the corresponding 25G transceiver in the requirment.	No Change, as per RFP,. This should be part of solution
194	80 of 269	Appendix C (Technical and Functional Specifications)	**J. Rack Servers (Category 9)** **Point No. 9. Ethernet Controller** The bandwidth required for network per server is minimum 6 x 25 G per server that must be partitioned across minimum two cards to provide card level redundancy. Should RDMA over Converged Ethernet (RoCE).	The RFP does not mention any details of 25G transceivers. Kindly confirm whether we have to consider the corresponding 25G transceiver in the requirment.	No Change, as per RFP,. This should be part of solution
195	81 of 269	Appendix C (Technical and Functional Specifications)	**K. Rack Servers (Category 10)** **Point No. 9. Ethernet Controller** The bandwidth required for network per server is minimum 4 x 25 G per server that must be partitioned across minimum two cards to provide card level redundancy. Should support RDMA over Converged Ethernet (RoCE).	The RFP does not mention any details of 25G transceivers. Kindly confirm whether we have to consider the corresponding 25G transceiver in the requirment.	No Change, as per RFP,. This should be part of solution
196	83 of 269	Appendix C (Technical and Functional Specifications)	**L. Rack Servers (Category 11)** **Point No. 9. Ethernet Controller** The bandwidth required for network per server is minimum 4 x 25 G per server that must be partitioned across minimum two cards to provide card level redundancy. Should support RDMA over Converged Ethernet (RoCE).	The RFP does not mention any details of 25G transceivers. Kindly confirm whether we have to consider the corresponding 25G transceiver in the requirment.	No Change, as per RFP,. This should be part of solution
197	85 of 269	Appendix C (Technical and Functional Specifications)	**M. Rack Servers (Category 12)** **Point No. 4 GPU** Each Node must be configured with Nvidia 8 x B200 180 GB GPUs (SXM) connected via Nvidia Nvlink with NV Switch. Solution should come with all required licenses (including Nvidia AI enterprise / equivalent) for GPU slicing with VMware, Nvidia enterprise tech support, training, Inferencing etc.	Required quantity for category 12 is 10 nos along with NVAIE License for all the GPU's. Then again total 16 qty. of NVAIE License for 7 years has been asked in the Price Bid Format of Server (Page No. 136 and 137 of 269). Kindly help to confirm the usage of these additional licenses.	Please refer Corrigendum No. 1
198	85 of 269	Appendix C (Technical and Functional Specifications)	**M. Rack Servers (Category 12)** **Point No. 9 Ethernet Controller** **The bandwidth requirement is as below:** Frontend: Ethernet Controller Front end : In band + Storage Network:- 2 * 200 G Nvidia BF3 NIC per Server. The 2x200 G network should be splitable in 10/25 G network ports to accommodate the required bandwidth with existing Top of the rack switches. In case splitting is not possible, bidder must provide suitable intermediary switches to connect with Top of the Rack Switch. Backend: 8x400G per server (GPU to GPU using InfiniBand/Ethernet switches and CX7 NIC). The InfiniBand/Ethernet switches needs to be supplied by the bidder.	200G will be backward compatible to 100G and then further each 100G Port can be splitted into 4x 25G Ports. So with 2x 200G ports in Nvidia BF3 NIC it will be splitted to 8x 25G Ports per server.	No Change, as per RFP

199	85 of 269	Appendix C (Technical and Functional Specifications)	**M. Rack Servers (Category 12)** **Point No. 9 Ethernet Controller** **The bandwidth requirement is as below:** Frontend: Ethernet Controller Front end : In band + Storage Network:- 2 * 200 G Nvidia BF3 NIC per Server. The 2x200 G network should be splitable in 10/25 G network ports to accommodate the required bandwidth with existing Top of the rack switches. In case splitting is not possible, bidder must provide suitable intermediary switches to connect with Top of the Rack Switch. Backend: 8x400G per server (GPU to GPU using InfiniBand/Ethernet switches and CX7 NIC). The InfiniBand/Ethernet switches needs to be supplied by the bidder.	As per the Price Bid Format of Servers (Page No. 136 and 137 of 269), Infiniband/Ethernet Switch is no where mentioned. Kindly add the same.	Please refer Corrigendum No. 1
200	85 of 269	Appendix C (Technical and Functional Specifications)	**M. Rack Servers (Category 12)** **Point No. 9 Ethernet Controller** **The bandwidth requirement is as below:** Frontend: Ethernet Controller Front end : In band + Storage Network:- 2 * 200 G Nvidia BF3 NIC per Server. The 2x200 G network should be splitable in 10/25 G network ports to accommodate the required bandwidth with existing Top of the rack switches. In case splitting is not possible, bidder must provide suitable intermediary switches to connect with Top of the Rack Switch. Backend: 8x400G per server (GPU to GPU using InfiniBand/Ethernet switches and CX7 NIC). The InfiniBand/Ethernet switches needs to be supplied by the bidder.	Kindly confirm whether all 10 units of the Category 12 B200 GPU Servers will be deployed at a single location. If not, please share the location-wise quantity bifurcation. This information is critical, as the associated networking components for both the 400G and 200G cards will vary based on the number of servers at each delivery location.	No Change, as per RFP, Bank may place order as per requirement. Details will be shared during purchase order.
201	85 of 269	Appendix C (Technical and Functional Specifications)	**M. Rack Servers (Category 12)** **Point No. 9 Ethernet Controller** **The bandwidth requirement is as below:** Frontend: Ethernet Controller Front end : In band + Storage Network:- 2 * 200 G Nvidia BF3 NIC per Server. The 2x200 G network should be splitable in 10/25 G network ports to accommodate the required bandwidth with existing Top of the rack switches. In case splitting is not possible, bidder must provide suitable intermediary switches to connect with Top of the Rack Switch. Backend: 8x400G per server (GPU to GPU using InfiniBand/Ethernet switches and CX7 NIC). The InfiniBand/Ethernet switches needs to be supplied by the bidder.	Kindly let us know the exact model of your existing 25G TOR Switch and transceivers for compatibility.	No Change, as per RFP, The existing switches are Cisco/Juniper
202	85 and 86 of 269	Common Pointers for All Server Configurations	Should be Compatible with Latest Windows server, Red Hat Linux/Openshift and VMware ESXi Server version 8.0 U3/VCF 5.2.x and all later/upgraded/higher versions. Also, the supplied hardware should support all version upgrades coming in next 7 years. If hardware supplied by selected OEM is not compatible with these releases during 7 years from date of commissioning, bidder need to replace hardware with compatible VMware, Windows server, Red Hat Linux/Openshift release without any additional cost to the Bank.	While we are proposing latest-generation hardware, it is not technically possible to provide a full assurance that any hardware will support all future OS upgrades over a 7-year period, as OS vendors may change compatibility requirements, kernel architectures, or licensing terms. Only the respective OS vendors (Microsoft, Red Hat, VMware) can confirm long-term compatibility. We request clarification on whether compliance can be limited to currently released OS versions and their officially published upgrade roadmaps, rather than blanket assurance for all future versions. We will request you to kindly reconsider this point.	No Change, as per RFP
203	129 of 269	Appendix - E (Scope of Work and Payment Schedule)	Point No. 4 Term of the Project - Project Schedule; Milestones and delivery locations Delivery of all equipment should be within 8 weeks and installation, testing, commissioning within 10 weeks from date of placing of order.	We humbly request you to change the clause as per below "Delivery of all equipment should be within 12 weeks and installation, testing, commissioning within 15 weeks from date of placing of order.	No Change, as per RFP
204	132 to 134 of 269	Appendix - E (Scope of Work and Payment Schedule)	**Subpoint No. 5** For Category 12, 8 GPU (B200) Servers, please find below the scope of work from Rack and Power perspective:	Kindly confirm the number of 48U RDHX Cooling Racks that will be provided at each location.	No Change, as per RFP
205	132 to 134 of 269	Appendix - E (Scope of Work and Payment Schedule)	**Subpoint No. 5** For Category 12, 8 GPU (B200) Servers, please find below the scope of work from Rack and Power perspective:	Kindly clarify whether the 42kW capacity mentioned refers to the actual usable IT load available after accounting for cooling system efficiency losses, PDU derating, and overhead consumption, or if 42kW is the gross rack capacity before such deductions. This clarification is crucial for correct server power planning and ensuring that deployed hardware operates within safe thermal and electrical limits.	No Change, as per RFP

206	132 to 134 of 269	Appendix - E (Scope of Work and Payment Schedule)	**Subpoint No. 5** For Category 12, 8 GPU (B200) Servers, please find below the scope of work from Rack and Power perspective:	As per the RFP the CFM Value is 1105 per device. Kindly share total CFM Value available per rack. As per the RFP the BTU Rating is 38,557 BTU/Hr per device. Kindly share total BTU Rating available per rack.	No Change, as per RFP 5900 CFM is provisioned for the Each HPD rack of 40 kW. 136560 BTU is provisioned for the each HPD rack of 40 KW. These CFM and BTU rating details are only limited to high power density rack zone.
207	132 to 134 of 269	Appendix - E (Scope of Work and Payment Schedule)	**Subpoint No. 5** For Category 12, 8 GPU (B200) Servers, please find below the scope of work from Rack and Power perspective:	In the RDHX Cooling Racks, how many PDU's will be provided per rack and each PDU will have how many number of C19 Power Sockets ?	No Change, as per RFP Two Pair of PDU with 8 C19 Connectors per rack will be provided.
208	136 of 269	Appendix - F (Indicative Price Bid)	**Table - A (Servers)**	There is no provision to mention the pricing of Server OEM L3 Support Engineer. Kindly add the same	No Change, as per RFP There is no requirement for Server L3 Engineer.
209	161 of 269	Appendix - L (Other Terms and Conditions)	Point No. 10 Common Common Penalties for Security Obligations for both servers and storage: d. Other Penalties: 4. Maximum cap on penalties will be 10% of the project cost.	Kindly modify this clause from maximum 10% to 5% of the project cost.	No Change, as per RFP
210	60	Bidder's Eligibility Criteria Point No 6	Bidder's Project Experience for Servers: The bidder must have successfully executed/completed supply of enterprise grade servers, over the last five years i.e. the current financial year and the last five financial years with following project cost: - a) Three similar completed project costing not less than the Rs. 100 Cr. Or Two similar completed project costing not less than the Rs. 125 Cr Or One similar completed project costing not less than the Rs. 200 Cr b. At least one client references in BFSI/PSU/Govt Sector for supply of enterprise grade servers etc of any make in above mentioned period.	**Request you to change it to -** a. Bidder should have experience of Six years in supply, installation, commissioning, and maintenance of minimum 200 blade/rack Servers. (Combining all orders). b. At least one client references in BFSI/PSU/Govt Sector/Enterprise for supply of enterprise grade servers etc of any make in above mentioned period.	Please refer Corrigendum No. 1
211	61	Bidder's Eligibility Criteria Point No 9	Bidder's Project Experience for Storage: a. The bidder must have successfully executed/completed supply of enterprise grade storage, over the last five years i.e. the current financial year and the last five financial years: - a) Three similar completed project costing not less than the Rs. 80 Cr Or Two similar completed project costing not less than the Rs. 100 Cr Or One similar completed project costing not less than the Rs. 160 Cr b. At least one client references in BFSI/PSU/Govt Sector for supply of enterprise grade IT equipment such as servers or storage or network equipment etc. of any make in above mentioned period.	**Request you to change it to -** a. Bidder should have supplied min- 5 Peta Bytes of storage Solutions in the last Six financial years (Combining all order's). b. At least one client references in BFSI/PSU/Govt Sector /Enterprise for supply of enterprise grade IT equipment such as servers or storage or network equipment etc. of any make in above mentioned period.	Please refer Corrigendum No. 1
212	226	Appendix–N - NON-DISCLOSURE AGREEMENT	Appendix–N - NON-DISCLOSURE AGREEMENT	Do we need to submit this with the Technical bid or after the job is awarded? If it has to be submitted with technical bid, can we execute it on the company letterhead, or does it need to be on stamp paper? If stamp paper is required, please confirm the value.	No Change, as per RFP It has to be provided by successful bidder. Refer clause 19(v) of the RFP document.
213	235	Appendix–Q - PRE CONTRACT INTEGRITY PACT	Appendix–Q - PRE CONTRACT INTEGRITY PACT	Please confirm value of stamp paper to use	No Change, as per RFP Stamp Paper value should be Rs 500
214	267	Appendix-T - FORMAT FOR THE SOFTWARE BILL OF MATERIALS	Appendix-T - FORMAT FOR THE SOFTWARE BILL OF MATERIALS	Do we need to submit this with the bid or after the job is awarded?	No Change, as per RFP The document needs to be submitted after the job is awarded.
215	256-266	SCHEDULE 1. SCHEDULE 2 & SCHEDULE 3	SCHEDULE 1. SCHEDULE 2 & SCHEDULE 3	Do we need to submit this with the bid or after the job is awarded?	Please refer Corrigendum No. 1
216	247	Appendix-S -Data Processing Agreement	Appendix-S -Data Processing Agreement	Do we need to submit this with the bid or after the job is awarded?	Please refer Corrigendum No. 1
217	126	1 Description of Services	Supply, installation, testing, commissioning, and maintenance of computer hardware (Servers) along with peripherals/software components,	Please confirm installation includes OS installation as well or it is limited to rackmount and power on. Kindly clarify who will provide the OS/Hypervisor in case it is included?	No Change, as per RFP OS installation is not under scope of bidder.
218	127	resourse responcibility point no 3	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 and successfully demonstrate that all equipment, software and services under this RFP have been delivered.	Please confirm whether inspection can be done by bidder engineer's presence only ?	No Change, as per RFP
219	128	resourse responcibility point no 4	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 activities as per data center norms are in scope of bidder during the entire contract period.	Kindly give clearity on lift and shift part.Please let us know existing cabling layout details like distance between network rack and server racks.cabling between racks is also in bidder scope?	No Change, as per RFP The scope of work shall include lift and shift activities pertaining to the physical placement of servers, storage systems, and racks within the data center premises, strictly as advised by the Bank.
220	128	Point no 7	Bank may procure around 50% of hardware/manpower of the overall quantity mentioned in first year. The % quantity may not be uniform across categories.	We assume that Bank is likley to purchase 50% hardware/manpower of the overall quantity mentioned in first year. For rest 50% please share the timeline.	No Change, as per RFP The remaining hardware may be ordered within the price validity period of 2 years from the date of initial purchase order.
221	129	3 Third-Party Components	Should be integrated with VMware (Broadcom) software's like ESXI, vSphere etc.	Please confirm that the Installation of ESXi server and vcenter server is also under bidder scope?	No Change, as per RFP Installation of ESXi server and vcenter server is not under bidder scope.

222	129	4 Term of the Project - Project Schedule; Milestones and delivery locations	Delivery of all equipment should be within 8 weeks and installation, testing, commissioning within 10 weeks from date of placing of order.	Please clearify that installation is limited to rack and stack power on self test and assigning server management ip address on server? or OS also need to need install ?	No Change, as per RFP The bidder shall be responsible for all server-related activities including racking, stacking, powering on, testing, internal cabling, establishing management network cabling and connectivity, and providing data connectivity through patch cord placement between the servers and the Bank-provided patch panels. Installation and configuration of Operating Systems (OS) or Hypervisors shall not form part of the bidder's scope.
223	129	4 Term of the Project - Project Schedule; Milestones and delivery locations	Delivery of all equipment should be within 8 weeks and installation, testing, commissioning within 10 weeks from date of placing of order.	We request you to change- The Delivery of all equipment should be within 14 weeks and installation, testing, commissioning within 22-24 weeks from date of placing of order.	No Change, as per RFP
224	130	6 Integration / Migration Requirements with existing systems	New hardware should be integrated with existing on-premise cloud platform without any additional cost to the Bank.	Please share the details of existing on-premise cloud platform, also confirm this intigration is under bidders scope?	No Change, as per RFP The on-premises cloud environment is built on VMware and SAN storage technologies. The scope of integration under this RFP shall be limited to establishing hardware connectivity between the new infrastructure being supplied and the existing infrastructure in the Bank's data centers. This includes, but is not limited to, connecting new storage to existing SAN switches and connecting new SAN switches to existing servers etc. The bidder shall ensure all required cabling and physical connectivity is completed as part of this scope. No integration or configuration is required at the VMware or hypervisor level.
225	131	13 Training	Training to minimum 25 Bank officials for 5 days regarding daily operations, troubleshooting and Management of Hardware supplied. No additional cost will be borne by Bank on this training.	Kindly clarify the training will be on premise or virtual at a single location or multi locations.	No Change, as per RFP Training can be provided on premise/online as desired by bank.
226	85	9 Ethernet Controller	Frontend: - In band + Storage Network:- 2 * 200 G Nvidia BF3 NIC per Server. The 2x200 G network should be splitable in 10/25 G network ports to accommodate the required bandwidth with existing Top of the rack switches. In case splitting is not possible, bidder must provide suitable intermediary switches to connect with Top of the Rack Switch.	Please share the details of the existing TOR switches to check the compatability.	No Change, as per RFP The existing switches are from Cisco and Juniper.
227	85	9 Ethernet Controller	Backend: - 8x400G per server (GPU to GPU using InfiniBand/Ethernet switches and CX7 NIC). The InfiniBand/Ethernet switches needs to be supplied by bidder.	Please share the quantities of the switches required.	No Change, as per RFP
228	101 & 106	O. Brocade SAN Switch and Line Card: & P. Cisco SAN Switch and Line card -	Technical Specifications – SAN Switches	Please let us know if we can propose same OEM for both type of SAN switches for better managibility	No Change, as per RFP
229	134		The bidder is responsible for providing a complete infrastructure solution. The bank will provide the racks, power, and cooling for the equipment only for Category 12 servers. Racks for rest of the categories will be need to be supplied by bidder. All other items, including servers, SFPs (transceivers), cables (end to end network cabling, SAN cabling with material and effort) etc. must be supplied, installed, and make ready for use by the bidder.	Please ealborate the requirement of cabling. Kindly share the details of LAN & SAN cabling required in the project.	Please refer Corrigendum No. 1
230	131	Payment schedule	1. 50% + taxes of the Servers, Storage, GPUs, SAN Switches, Modules (hardware, software and warranty) will be released on delivery of hardware. 2. The remaining 50% + taxes of the Servers (hardware, software and warranty) will be released on commissioning, verification of bill of material by Bank/CDAC/Third party and submission of PBG. No payment will be made on part delivery of ordered hardware. 3. Payment for AMC will be made quarterly in arrears. 4. Payment for onsite manpower will be made quarterly in arrears.	Request you to change it to – 1. 70% + taxes of the Servers, Storage, GPUs, SAN Switches, Modules (hardware, software and warranty) will be released on delivery of hardware. 2. 20% + taxes of the Servers (hardware, software and warranty) will be released on implementation and commissioning, verification of bill of material by Bank. 3. Remaining 10% on submission of PBG. 4. Payment for AMC will be made in advance. 5. Payment for onsite manpower will be made in advance.	No Change, as per RFP
231	41	43. LIQUIDATED DAMAGES:	If Service Provider fails to deliver Product and/or perform any or all the Services within the stipulated time, schedule as specified in this RFP, the Bank may, without prejudice to its other remedies under the RFP, and unless otherwise extension of time is agreed upon without the application of liquidated damages, deduct from the Project Cost, as liquidated damages a sum equivalent to 0.5% of total Project Cost for delay of each week or part thereof maximum up to 5% of total Project Cost.	Request you to change it to – If Service Provider fails to deliver Product and/or perform any or all the Services within the stipulated time, schedule as specified in this RFP, the Bank may, without prejudice to its other remedies under the RFP, and unless otherwise extension of time is agreed upon without the application of liquidated damages, deduct from the Project Cost, as liquidated damages a sum equivalent to 0.25% of total Project Cost for delay of each week or part thereof maximum up to 2.5% of total Project Cost.	No Change, as per RFP
232	152	(g) Penalties for SLA uptime shall be as under	Penalties for SLA uptime shall be as under; **Uptime** **Penalty** **1.99.98% to 99.99%** 5% of Total Project Cost 2. 99.00% to 99.98% 7% of Total Project Cost 3. <99% 10% of Total Project Cost.	**Request you to change it to –** **Penalties for SLA uptime shall be as under;** **Uptime** **Penalty** 1.99.98% to 99.99% 1% of Total Project Cost 2. 99.00% to 99.98% 2% of Total Project Cost 3. <99% 3% of Total Project Cost.	No Change, as per RFP

233	151	7. Penalties Specifically for Servers: Point c	**Response Time** **Penalty** **Within two hours** Nil Beyond two hours up to six hours Rs. 10,000 per instance Beyond six hours up to twelve hours Rs. 25,000 per instance Beyond twelve hours up to twenty-four hours Rs. 1,00,000 per instance Beyond 24 hours Bank may take suitable action.	**Request you to change it to –** **Response Time** **Penalty** **Within Four hours** Nil Beyond Four hours up to Eight hours Rs. 2500 per instance Beyond Eight hours up to twelve hours Rs. 5000 per instance Beyond twelve hours up to Fourty Eight hours Rs. 20,000 per instance Beyond 48 hours Bank may take suitable action.	No Change, as per RFP
234	152	7. Penalties Specifically for Servers: Point d	**Resolution Time** **Penalty** Within four hours Nil Beyond four hours up to twelve hours Rs. 50,000 per instance Beyond twelve hours up to twenty four hours Rs. 1,00,000 per instance Beyond 24 hours Bank may take suitable action.	**Request you to change it to –** **Resolution Time** **Penalty** Within Tweleve hours Nil Beyond Twelve hours up to Fourty eight hours Rs. 10,000 per instance Beyond Foourty hours up to Seventy two twenty hours Rs. 2,0,000 per instance Beyond 72 hours Bank may take suitable action.	No Change, as per RFP
235	152 & 153	7. Penalties Specifically for Servers: Point h	**Response Time** **Penalty** **Within 30 minutes** Nil Beyond 30 minutes up to one hour Rs. 50,000 per instance Beyond one hour Rs. 1,00,000 per hour	**Request you to change it to –** **Response Time** **Penalty** **Within 30 minutes** Nil Beyond 30 minutes up to one hour Rs. 50,000 per instance Beyond one hour Rs. 1,00,000 per hour	No Change, as per RFP
236	153	7. Penalties Specifically for Servers: Point j (For performance and support)	**Performance and Support service level Penalty for breach in Rs.** RCA for any incident should be submitted to Bank in maximum 3 working days.- Rs.10,000 for every additional working day Incomplete documentation - Penalty of Rs. 10,000 if documentation not found to be created/updated/low quality for each instance If server is not performing as per specifications and performance requirements given in the RFP - Rs. 10,000/- per instance. Redundancy not functioning.- Rs 50,000/- per instance. Software/Bug fixes not provided within three months from the date of detection - Rs 1,00,000/- per month till a fix is provided.	**Request you to change it to –** **Performance and Support service level Penalty for breach in Rs.** RCA for any incident should be submitted to Bank in maximum 3 working days.- Rs.2,500 for every additional working day Incomplete documentation - Penalty of Rs. 2,500 if documentation not found to be created/updated/low quality for each instance If server is not performing as per specifications and performance requirements given in the RFP - Rs. 2,500/- per instance. Redundancy not functioning.- Rs 100,000/- per instance. Software/Bug fixes not provided within three months from the date of detection - Rs 25,000/- per month till a fix is provided.	No Change, as per RFP
237	67	Rack server Category 2, 5, Memory	On Day One (with 1.5 TB installed), the memory must operate at a minimum effective speed of 4800 MT/s. After upgrading to 2 TB, the effective memory speed must not fall below 4800 MT/s. A maximum acceptable degradation from 5600 MT/s to 4800 MT/s is permitted due to system design or memory controller constraints. Should support scalability for at least 2 TB without having to replace the existing DIMMs	The proposed category of servers is stoarge dense and hence comes with lesser scalability on DIMMs. Kindly restrict scalability to 1.5TB on RAM for wider participation or remove the clause pertaining to scalability; Due to architectural limitations, the RAM speed downgrades to 4400MT/s , kindly relax this clause for wider participation	Please refer Corrigendum no. 1
238	150	Appendix L - Other Terms and Penalties	Maximum cap on penalties will be 10% of the project cost	Request bank to kindly relax the overall capping of penalty upto 5%	No Change, as per RFP
239	88	N. Storage, Capacity and scalability, Quantity and Location - 5	Each storage system shall be offered in its maximum scalable configuration as per OEM design, ensuring the highest levels of performance, availability, and throughput. This includes fully populating all controller nodes/modules/enclosures, along with redundant power, fabric, cache, and other critical components.	Request to change the language to " Each stoarge system shall be offered with min required configuration as per OEM design to meet the capacity and perfromance requirements of the RFP" Asking OEMs to fully populate the storage system penalizes the OEM which is offering better scalability. They would have to populate more than required cache and controllers than requested in the RFP tilting the scale in favor of the OEM with limited scalability	No Change, as per RFP
240	67	Rack server Category 2, 5, Memory	On Day One (with 1.5 TB installed), the memory must operate at a minimum effective speed of 4800 MT/s. After upgrading to 2 TB, the effective memory speed must not fall below 4800 MT/s. A maximum acceptable degradation from 5600 MT/s to 4800 MT/s is permitted due to system design or memory controller constraints. Should support scalability for at least 2 TB without having to replace the existing DIMMs	The proposed category of servers is stoarge dense and hence comes with lesser scalability on DIMMs. Kindly restrict scalability to 1.5TB on RAM for wider participation or remove the clause pertaining to scalability; Due to architectural limitations, the RAM speed downgrades to 4400MT/s , kindly relax this clause for wider participation	Please refer Corrigendum no. 1
241	88	N. Storage SN:1, Capacity and scalability, Quatity and location	3. The bidder shall quote for a total of four (4) storage systems each at the Primary Data Center (DC) and Disaster Recovery (DR) site respectively. 4.All storage systems provided must be homogenous in all aspect. Each storage system must be configured with maximum of 2.5 PB usable capacity per Storage on day one. Therefore, the bidder shall quote for 2.5 PB × 4 storage systems per site.	Kindly allow OEM to configure the no of storage required for the desired capacity of 10 PB each and meet the performance and availability requested in the RFP	No Change, as per RFP

242	89	N. Storage SN:2, Performance, Disk Size	8. Maximum size of each NVMe storage drive should be less than 18.xx TB with TLC (Triple Level 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	No Change, as per RFP
243	89	N. Storage SN:4, Number of Racks and controllers, Controllers	10. A single storage system must support at least 12 controllers in a symmetric active-active architecture with a global cache architecture across controllers.	This point is specific to a particular OEM. Kindly allow the OEM to propose the storage to meet the performance and availabilty asks	No Change, as per RFP
244	89	N. Storage SN:5, Reliability and Availability Controllers, Redundancy	6. Proposed solution should have active- active host connectivity with redundant controllers. All controllers should symmetric active – active with global cache and failure of controller should not impact operations even in real time.	Kinldy modify the RFP point to " Proposed solution should have active- active host connectivity with redundant controllers. All controllers should be active – active and failure of a controller should not impact operations and perfromance even in real time".	No Change, as per RFP
245	91	N. Storage SN:8, Number of Racks , Raid	19. NVMe disk Raid should be formed with maximum 18 drives in Single RAID Group (16D+2P).	Kindly allow the Drive raid group size as per the recommended best practise sizing of the Storage OEM to meet the perfromance and availability asks	No Change, as per RFP
246	96	N. Storage SN:12, Functional requirement , Raid	52. Array should be supplied with one global hot spare disk for every 25 disks of same capacity and speed.	Kindly allow Equivalent of Spare disk or Reserve spare capacity on the system .	No Change, as per RFP
247	116	R. 42U Rack Specifications	1. 42U OEM Rack: a. Dual Power Supply: Includes dual power supply units (PSUs) with independent circuits, each featuring digital ammeters to provide real-time power consumption data. b. Accessories and Mounting: The rack should include all necessary accessories, such as mounting rails, screws, and cable management components, to properly mount and organize all proposed servers and other equipment. c. Rack Sizing: The solution must ensure optimized rack sizing, with an emphasis on high availability and operational efficiency, reducing the number of racks required for the deployment while ensuring sufficient space for airflow and maintenance. d. Minimum Power Limit: The Minimum power limit of each chassis should be 10 kVA to accommodate the power needs of the equipment, ensuring that the rack can handle the required load. e. Cable Management: A fully integrated cable management system should be provided to ensure neat and efficient organization of power, data, and SAN cables, reducing potential cable clutter and improving airflow.	It is recommended to use 42u x800x 1200mm panels for better space management for power and cooling .	No Change, as per RFP
248	117	R. 42U Rack Specifications	3. Intelligent power distribution units (IPDUs). a. Real-Time Monitoring: PDUs should provide real-time monitoring of power usage at the outlet level, enabling precise tracking of power consumption per device. b. Power Metering: The PDUs should include power metering capabilities to provide detailed usage data, enabling better energy management and cost control. c. Daisy Chain Connectivity: PDUs should support daisy chain connectivity for network connections, allowing multiple PDUs to be interconnected, simplifying cabling and enabling centralized control.	Outlet level monitoring 3phase PDU'S will be considered for this requirement.	No Change, as per RFP
249	118	R. 42U Rack Specifications	4. Color-Coding for Cables and Connectivity: a. Primary and Secondary Power Cables: Primary and secondary power cables should be clearly distinguishable by color (e.g., blue for primary, red for secondary), minimizing confusion and simplifying maintenance. b. Primary and Secondary PDUs: Primary and secondary PDUs should be color-coded (e.g., blue for primary, red for secondary) to easily differentiate between the two, enhancing system identification and reducing errors. c. Primary and Secondary SAN Connectivity Cables: SAN connectivity cables should be color- coded to distinguish primary (e.g., blue) from secondary (e.g., green) connections, ensuring that correct cables are connected and preventing configuration errors. d. Primary and Secondary Network Connectivity Cables: Network cables should also be color-coded (e.g., blue for primary, yellow for secondary) for easy identification of connections, reducing the risk of network misconfigurations. e. Bidder to ensure that racks being provided are compatible with the data centre infrastructure including power cooling and other necessary environmental factors. f. The weight bearing capacity per rack should be at-least 1000 kg for 42U racks.	The load carrying capacity of the racks is recommended to be @ 1500kgs Static load . All PDU'S primary and secondary will have colour coded as per technical specifications which also includes the interconnect power cords of 2 colours for easy identifications .	No Change, as per RFP

250	119	R. 48U Rack Specifications	1. 48U OEM Rack: a. Dual Power Supply: Includes dual power supply units (PSUs) with independent circuits, each featuring digital ammeters to provide real-time power consumption data. b. Accessories and Mounting: The rack should include all necessary accessories, such as mounting rails, screws, and cable management components, to properly mount and organize all proposed servers and other equipment. c. Rack Sizing: The solution must ensure optimized rack sizing, with an emphasis on high availability and operational efficiency, reducing the number of racks required for the deployment while ensuring sufficient space for airflow and maintenance. d. Minimum Power Limit: The Minimum power limit of each chassis should be 10 kVA to accommodate the power needs of the equipment, ensuring that the rack can handle the required load. e. Cable Management: A fully integrated cable management system should be provided to ensure neat and efficient organization of power, data, and SAN cables, reducing potential cable clutter and improving airflow.	It is recommended to use 48u x800x 1200mm panels for better space management for power and cooling .	No Change, as per RFP
251	120	R. 48U Rack Specifications	3. Intelligent power distribution units (IPDUs). a. Real-Time Monitoring: PDUs should provide real-time monitoring of power usage at the outlet level, enabling precise tracking of power consumption per device. b. Power Metering: The PDUs should include power metering capabilities to provide detailed usage data, enabling better energy management and cost control. c. Daisy Chain Connectivity: PDUs should support daisy chain connectivity for network connections, allowing multiple PDUs to be interconnected, simplifying cabling and enabling centralized control.	Outlet level monitoring 3phase PDU'S will be considered for this requirement.	No Change, as per RFP
252	120	R. 48U Rack Specifications	4. Color-Coding for Cables and Connectivity: a. Primary and Secondary Power Cables: Primary and secondary power cables should be clearly distinguishable by color (e.g., blue for primary, red for secondary), minimizing confusion and simplifying maintenance. b. Primary and Secondary PDUs: Primary and secondary PDUs should be color-coded (e.g., blue for primary, red for secondary) to easily differentiate between the two, enhancing system identification and reducing errors. c. Primary and Secondary SAN Connectivity Cables: SAN connectivity cables should be color- coded to distinguish primary (e.g., blue) from secondary (e.g., green) connections, ensuring that correct cables are connected and preventing configuration errors. d. Primary and Secondary Network Connectivity Cables: Network cables should also be color-coded (e.g., blue for primary, yellow for secondary) for easy identification of connections, reducing the risk of network misconfigurations. e. Bidder to ensure that racks being provided are compatible with the Bank's data centre infrastructure including power cooling and other necessary environmental factors.	All PDU'S primary and secondary will have colour coded as per technical specifications which also includes the interconnect power cords of 2 colours for easy identifications .	No Change, as per RFP
253	121	R. 48U Rack Specifications	5. Rack specifications: a) Rack should be of 48U height x 600 or 800mm width / 1200mm depth (for servers & Network devices). b) Strong and durable 9-times folded solid frame profile that can hold a load of up to 1,500 kg. c) 4 x 19" EIA-310 vertical mounting rails shall be made of 14- gauge steel, 9 times folded for maximum rigidity. Full depth adjustable EIA310 standard equipment mounting rails mounted on heavy duty side supports. The U markings are printed on both (front & rear) side on each EIA rails. d) Perforated doors for optimal front-to-rear air flow, 75% and above open high perforated doors (front and rear). e) Convenient tool-less mounting slots for vertical PDUs and tool-less design for installation of cable and air flow management. f) 4 nos of Heavy-duty caster wheels for easy movement and 4 Fast deployment leveling feet. g) Side panel with latches and key lock. Split design (top & bottom) for easy handling and installations. h) Single flat front perforated door with Swing Handle, Split flat perforated rear door with swing Handle. Door Opening of 135deg and Lift off hinges for easy removal. i) Roof top with cable entry plates and 3-part bottom cover, flexible to meet cable entry	The load carrying capacity of the racks is recommended to be @ 1500kgs Static load Perforated doors Convex shape recommended for functional reasons , all cable entries to be sealed with brush panels and skirting panels tp be used on all the sides to prevent cold air getting mixed with hot air.	No Change, as per RFP
254	131	Payment schedule	50% + taxes of the Servers, Storage, GPUs, SAN Switches, Modules (hardware, software and warranty) will be released on delivery of hardware. 2. The remaining 50% + taxes of the Servers (hardware, software and warranty) will be released on commissioning, verification of bill of material by Bank/CDAC/Third party and submission of PBG. No payment will be made on part delivery of ordered hardware. 3. Payment for AMC will be made quarterly in arrears. 4. Payment for onsite manpower will be made quarterly in arrears.	80% on Delivery of Hardware & 20% on CDAC/PBG	No Change, as per RFP

255	89	2 Performance - Disk Size	8. Maximum size of each NVMe storage drive should be less than 18.xx TB with TLC (Triple Level Cell) drives only	Requested Change: "Maximum size of each NVMe storage drive should be less than 20.xx TB with TLC (Triple Level Cell) drives only. QLC drives having additional enterprise class features for improving reliability and meeting all performance and reliability features of this RFP may also be proposed"	No Change, as per RFP
256	65	Rack Servers (Cat 1) Memory	Each Server should be installed with minimum 1.5 TB Memory DDR5 or higher. Each individual RDIMM module should have minimum memory speed of 5600 MT/s. On Day One (with 1.5 TB installed), the memory must operate at a minimum effective speed of 4800 MT/s. After upgrading to 2 TB, the effective memory speed must not fall below 4800 MT/s. A maximum acceptable degradation from 5600 MT/s to 4800 MT/s is permitted due to system design or memory controller constraints. Should support scalability for at least 2 TB without having to replace the existing DIMMs	Intel processors support high-performance and scalable memory configurations through up to 32 DIMM slots. For high performance:Up to 16 DIMM slots: Intel-based servers support memory speeds of up to 5200 MT/s.Beyond 16 DIMM slots: Memory speeds are supported up to 4400 MT/s.We request that the memory speed for the upgrade from 1.5 TB to 2 TB be revised to 4400 MT/s, with Intel's supported specifications for expanded memory configurations	Please refer Corrigendum No. 1
257	66	Rack Servers (Cat 2) Memory	Each Server should be installed with minimum 1.5 TB Memory DDR5 or higher. Each individual RDIMM module should have minimum memory speed of 5600 MT/s. On Day One (with 1.5 TB installed), the memory must operate at a minimum effective speed of 4800 MT/s. After upgrading to 2 TB, the effective memory speed must not fall below 4800 MT/s. A maximum acceptable degradation from 5600 MT/s to 4800 MT/s is permitted due to system design or memory controller constraints. Should support scalability for at least 2 TB without having to replace the existing DIMMs	Intel processors support high-performance and scalable memory configurations through up to 32 DIMM slots. For high performance:Up to 16 DIMM slots: Intel-based servers support memory speeds of up to 5200 MT/s.Beyond 16 DIMM slots: Memory speeds are supported up to 4400 MT/s.We request that the memory speed for the upgrade from 1.5 TB to 2 TB be revised to 4400 MT/s, with Intel's supported specifications for expanded memory configurations	Please refer Corrigendum No. 1
258	68	Rack Servers (Cat 3a) Memory	Each Server should be installed with minimum 512 GB Memory DDR5 or higher. Each individual RDIMM module should have minimum memory speed of 5600 MT/s	Latest generation processors support memory speeds @ 6400 MT/s.Suggest each individual RDIMM module should have memory speed of 6400MT/s.	No Change, as per RFP
259	70	Rack Servers (Category 3b) Memory	Each Server should be installed with minimum 1 TB Memory DDR5 or higher. Each individual RDIMM module should have minimum memory speed of 5600 MT/s	Latest generation processors support memory speeds @ 6400 MT/s.Suggest each individual RDIMM module should have memory speed of 6400MT/s.	No Change, as per RFP
260	77	Rack Servers (Cat 8) Processor	Intel 6745P or AMD 9335 (32 cores each socket, dual socket-64 cores)	Phyical parameters like clock speeds, Cache alone do not deliver system performance . Purpose-built, integrated Intel® Accelerator Engines on Intel® Xeon® Scalable processors support today's most demanding workloads, spanning AI, security, HPC, networking, analytics, and storage.Along with enhanced capabilities like high bandwidth memory speeds, faster CPU interconnect links Intel processors deliver significantly high performance for application specific workloads. We request if Intel® Xeon® 6730P Processor considered in lieu of current Intel 6745P Processor	No Change, as per RFP
261	78	Rack Servers (Cat 8) Memory	Each Server should be installed with minimum 2 TB Memory DDR5 or higher. Each individual RDIMM module should have minimum memory speed of 5600 MT/s On Day One (with 2 TB installed), the memory must operate at a minimum effective speed of 4800 MT/s.	Latest generation processors support memory speeds @ 6400 MT/s.Suggest each individual RDIMM module should have memory speed of 6400MT/s. On Day One (with 2 TB installed), suggest change memory must operate at a minimum effective speed of 5200 MT/s. No memory scalability asked . Suggest server should scalaibility for at least 3 TB without having to replace the existing DIMMS	No Change, as per RFP
262	79	Rack Servers (Cat 9) Processor	Intel 6745P or Amd 9335 (32 cores each socket, dual socket-64 cores)	Phyical parameters like clock speeds, Cache alone do not deliver system performance . Purpose-built, integrated Intel® Accelerator Engines on Intel® Xeon® Scalable processors support today's most demanding workloads, spanning AI, security, HPC, networking, analytics, and storage.Along with enhanced capabilities like high bandwidth memory speeds, faster CPU interconnect links Intel processors deliver significantly high performance for application specific workloads. We request if Intel® Xeon® 6730P Processor be considered in lieu of current Intel 6745P Processor	No Change, as per RFP
263	79	Rack Servers (Cat 9) Memory	Each Server should be installed with minimum 256 GB Memory DDR5 or higher. Each individual RDIMM module should have minimum memory speed of 5600 MT/s On Day One (with 256 GB installed), the memory must operate at a minimum effective speed of 4800 MT/s.	Latest generation processors support memory speeds @ 6400 MT/s.Suggest each individual RDIMM module should have memory speed of 6400MT/s. On Day One (with 256 GB installed), suggest change memory must operate at a minimum effective speed of 5200 MT/s.	No Change, as per RFP
264	4	**Earnest Money Deposit**	Rs. 2.00 Crore Amount should be deposited in	Plesae amend this clause as a Rs. 1.00 Crore Amount should be deposited in	No Change, as per RFP

265	**60**	**Eligiblity criteria**	Bidder's Project Experience for Servers: The bidder must have successfully executed/completed supply of enterprise grade servers, over the last five years i.e. the current financial year and the last five financial years with following project cost: - a) Three similar completed project costing not less than the Rs. 100 Cr. Or Two similar completed project costing not less than the Rs. 125 Cr Or One similar completed project costing not less than the Rs. 200 Cr b. At least one client references in BFSI/PSU/Govt Sector for supply of enterprise grade servers etc of any make in above mentioned period	A bidder with an annual turnover of ₹250 Cr is unlikely to have executed Bidder's Project Experience for Servers mentioned here, as such projects would normally require a much higher turnover capacity. We would request you to please consider as per following * we suggest considering project qualification based on the quantity of enterprise-grade servers supplied rather than only the project cost. This approach would ensure that bidders with relevant large-scale technical experience — even if the project values differ due to varied configurations or market pricing — are able to qualify, thereby increasing competition without compromising capability. **Please consider Total 500 servers in last 5 years (maximum 3 PO's)** OR **Please consider private cloud setup project of 100 Cr (single PO) in past 3 years** **OR** **Please consider Three similar completed project costing not less than the Rs. 30 Cr. (Including GST)** This condition narrows the scope of eligible	Please refer Corrigendum No. 1
266	**61**	**Eligiblity criteria**	Bidder's Project Experience for Storage: a. The bidder must have successfully executed/completed supply of enterprise grade storage, over the last five years i.e. the current financial year and the last five financial years: - a) Three similar completed project costing not less than the Rs. 80 Cr Or Two similar completed project costing not less than the Rs. 100 Cr Or One similar completed project costing not less than the Rs. 160 Cr b. At least one client references in BFSI/PSU/Govt Sector for supply of enterprise grade IT equipment such as servers or storage or network equipment etc. of any make in above mentioned period.	A bidder with an annual turnover of ₹200 Cr is unlikely to have executed Bidder's Project Experience for Servers mentioned here, as such projects would normally require a much higher turnover capacity. We would request you to please consider as per following * we suggest considering project qualification based on the quantity of storage supplied in PB rather than only the project cost. This approach would ensure that bidders with relevant large-scale technical experience — even if the project values differ due to varied configurations or market pricing — are able to qualify, thereby increasing competition without compromising capability. Please consider Total 10 PB in last 5 years (maximum 3 PO's) OR Please consider Three similar completed project costing not less than the Rs. 30 Cr. (Including GST) OR Please consider 2 similar completed project costing not less than the Rs. 40 Cr. (Including GST)	Please refer Corrigendum No. 1
267	**131**	**Payment schedule**	1. 50% + taxes of the Servers, Storage, GPUs, SAN Switches, Modules (hardware, software and warranty) will be released on delivery of hardware. 2. The remaining 50% + taxes of the Servers (hardware, software and warranty) will be released on commissioning, verification of bill of material by Bank/CDAC/Third party and submission of PBG. No payment will be made on part delivery of ordered hardware. 3. Payment for AMC will be made quarterly in arrears. 4. Payment for onsite manpower will be made quarterly in arrears.	Please amend this clause as a 1. 70% + taxes of the Servers, Storage, GPUs, SAN Switches, Modules (hardware, software and warranty) will be released on delivery of hardware. 2. The remaining 30% + taxes of the Servers (hardware, software and warranty) will be released on commissioning, verification of bill of material by Bank/CDAC/Third party and submission of PBG. No payment will be made on part delivery of ordered hardware. 3. Payment for AMC will be made quarterly in arrears. 4. Payment for onsite manpower will be made quarterly in arrears.	No Change, as per RFP
268	129	Term of the Project - Project Schedule; Milestones and delivery locations	Delivery of all equipment should be within 8 weeks and installation, testing, commissioning within 10 weeks from date of placing of order.	Plesae amend this clause as a Delivery of all equipment should be within 8 weeks and installation, testing, commissioning within 14 weeks from date of placing of order.	No Change, as per RFP
269	130	Integration / Migration Requirements with existing systems	Yes, New hardware should be integrated with existing on-premise cloud platform without any additional cost to the Bank.	Can you please share the details of the existing on-premise cloud platform	No Change, as per RFP The on-premises cloud environment is built on VMware, X86 servers and SAN storage technologies.
270	61	Appendix-B. 8	Server OEM Experience - Turnover - Turnover - Average turnover of minimum Rs. 400 Crore during last 03 (three) financial year(s) Prior Experience- minimum 3 years of supplying enterprise grade servers Project Experience: a. In last five years should have supplied servers amounting to minimum Rs. 200 Cr in a maximum of total three orders. b. At least one client references in BFSI/PSU/Govt Sector for supply of enterprise grade servers in last five years	We hereby requesting that allow global references for the Servers.	No Change, as per RFP For the purpose of meeting the eligibility criteria under this RFP, the bidder may cite and submit proof of having executed similar projects either within the country or outside the country. Projects executed in both domestic and international locations shall be considered valid for eligibility evaluation.

271	61	Appendix-B. 9	Bidder's Project Experience for Storage: a. The bidder must have successfully executed/completed supply of enterprise grade storage, over the last five years i.e. the current financial year and the last five financial years: - a) Three similar completed project costing not less than the Rs. 80 Cr Or Two similar completed project costing not less than the Rs. 100 Cr Or One similar completed project costing not less than the Rs. 160 Cr b. At least one client references in BFSI/PSU/Govt Sector for supply of enterprise grade IT equipment such as servers or storage or network equipment etc. of any make in above mentioned period	We hereby requesting that allow global references for the storage.	Please refer Corrigendum No. 1
272	20	13 (i)	Bid shall remain valid for duration of 24 calendar months from Bid submission date.	It is requested to change this clause as " Bid shall remain valid for duration of 6 calendar months from Bid submission date".	No Change, as per RFP
273	20	13 (ii)	Price quoted by the Bidder in Reverse auction shall remain valid for duration of 24 calendar months from the date of initial Purchase Order.	It is requested to change this clause as "Price quoted by the Bidder in Reverse auction shall remain valid for duration of 1 calendar month from the date of Reverse auction ".	No Change, as per RFP
274	49	49	TERMINATION FOR CONVENIENCE	It is requested to delete this clause	No Change, as per RFP
275	130	9 of Appendix -E	Scalability Requirements- To be scalable as per Bank's future requirement	It is requested to delete this clause	No Change, as per RFP
276	131	14 of Appendix -E	1. 50% + taxes of the Servers, Storage, GPUs, SAN Switches, Modules (hardware, software and warranty) will be released on delivery of hardware. 2. The remaining 50% + taxes of the Servers (hardware, software and warranty) will be released on commissioning, verification of bill of material by Bank/CDAC/Third party and submission of PBG. No payment will be made on part delivery of ordered hardware	It is requested to change this clause as 1. 100% + taxes of the Servers, Storage, GPUs, SAN Switches, Modules (hardware, software and warranty) will be released on delivery of hardware. 2. 100% + taxes of the Installation & commissioning of Servers & storage solution will be released on commissioning, verification of bill of material by Bank/CDAC/Third party and submission of PBG.	No Change, as per RFP
277	150	3 of Appendix -L	Delivery Delay: If the vendor fails to deliver any or all equipment within 8 weeks from the date of issuance of the Purchase Order, a penalty of 0.5% of the total equipment cost per week (or part thereof) will be imposed, up to a maximum of 10% of the total equipment cost. The total penalty amount will be deducted from the final payment after the successful delivery of hardware.	It is requested to change this clause as "Delivery Delay: If the vendor fails to deliver any or all equipment within 8 weeks from the date of issuance of the Purchase Order, a penalty of 0.5% of the total equipment cost per week (or part thereof) will be imposed, up to a maximum of 5% of the total equipment cost. The total penalty amount will be deducted from the final payment after the successful delivery of hardware".	No Change, as per RFP
278	150	4 of Appendix -L	Commissioning Delay: If the equipment is not installed, tested, and commissioned within 10 weeks from the date of issuance of the Purchase Order, an additional penalty of 0.5% of the total equipment cost per week (or part thereof) will apply, subject to a maximum of 10% of the total equipment cost. This amount of the penalty so calculated shall be deducted at the time of making final payment after successful installation and commissioning of hardware.	It is requested to change this clause as "Commissioning Delay: If the equipment is not installed, tested, and commissioned within 10 weeks from the date of issuance of the Purchase Order, an additional penalty of 0.5% of the total equipment cost per week (or part thereof) will apply, subject to a maximum of 5% of the total equipment cost. This amount of the penalty so calculated shall be deducted at the time of making final payment after successful installation and commissioning of hardware".	No Change, as per RFP
279	161	10 (d) of Appendix -L	4. Maximum cap on penalties will be 10% of the project cost.	It is requested to change this clause as "Maximum cap on penalties will be 5% of the project cost".	No Change, as per RFP
280	34	29 VII	Backup of system software/ Configuration	Who is responsible for Backup TCS/customer? Which backup policy to be followed.	No Change, as per RFP The system being supplied under this RFP shall have the capability to perform backups and restores, including configuration backups, to facilitate recovery in the event of an issue or disaster. For servers, the bank will be responsible for data backup, the onsite managed services team will be responsible for data backup and restoration.
281	35-36	33	RIGHT TO AUDIT:	Any external auditor must sign TCS NDA before the start of the audit.	No Change, as per RFP
282	39	40 V	Service Provider is responsible for activities of its personnel or sub-contracted personnel (where permitted) and will hold itself responsible for any misdemeanours.	In case of subcontracting post customer approval, all contractual obligation between TCS & SBI must be passed on to the subcontract as well.	No Change, as per RFP
283	39	40 VIII	viii. The Service Provider agrees to comply with the obligations arising out of the Digital Personal Data Protection Act, 2023, as and when made effective. Any processing of Personal Data by the Service Providers in the performance of this Agreement shall be in compliance with the above Act thereafter. The Service Provider shall also procure that any sub-contractor (if allowed) engaged by it shall act in compliance with the above Act, to the extent applicable. The Service Provider understands and agrees that this agreement may have to be modified in a time bound manner to ensure that the provisions contained herein are in compliance with the above Act.	Is TCS responsible for processing customer data or storage of customer data?	No Change, as per RFP The scope is only limited to supply, installation, commissioning & maintenance of hardware.
284	3	1. Schedule of Events - 6	Last date and time for Bid submission Up to 17:00 on 05/09/2025	Request Bank to extend the Bid Submission date post 15th Sep 2025	No Change, as per RFP

285	4	1. Schedule of Events - 12	Rs. 2.00 Crore amount should be deposited in given account details **OR** EMD should be in the form of a bank guarantee	Request bank to clarify whether bidder should issue a common EMD (of 2 Cr) for both Server as well as Storage bid. Also in case of only one single bid(either Server / Storgae) what should be the EMD value	No Change, as per RFP The EMD value will be Rs 2 Crore irrespective of participation in one or both categories.
286	5	1. Schedule of Events - 13	Bank Guarantee - 3% of Order Value. Performance Security in form of BG should be valid for Seven year(s) and three months from the effective date of the Contract	Our undretsanding is that the 3% BG of order value will be on the Bid that we chose (either Server / Storage) or both put together.	No Change, as per RFP The Performance Bank Guarantee (PBG) of 3% of the order value shall be applicable on the bid awarded to the bidder, whether it pertains to Servers, Storage, or both combined.
287	11	3. . DISCLAIMER:	clause no. iii.	Our understanding as per the given clause is that the for both the Server as well as Storage bidding, the Bid submission should be one single with different commercial bids and experience related documents. Incase of one bid (either Server / Storage) only the commercial bid of one of the products is not to be submitted and rest all docs to be furnished. Request bank to provide clarity on the same and confirm.	No Change, as per RFP The bidder has to clearly indicate which category he is bidding for. The bid shall be submitted as a single package, containing separate commercial bids and relevant experience documents for Servers and/or Storage, as applicable. In the event a bidder chooses to participate in only one category (either Servers or Storage), the commercial bid for the other category need not be submitted; however, all other required documents must be furnished.
288	60	5	Bidder should have experience of minimum 3 years in providing the supplying enterprise grade servers and/or storage.	Our understanding on supply of enterprise grade servers and/or storage is supply of Servers & storage of any OEM meeting the Criteria and is not restricted to specific OEM. Reques Bank to provide confiramtion on this.	No Change, as per RFP Understanding is correct. Bidder can quote servers and storage of any Make/Brand, complying to the RFP requirements.
289	60	6	Bidder's Project Experience for Servers: The bidder must have successfully executed/completed supply of enterprise grade servers, over the last five years i.e. the current financial year and the last five financial years with following project cost: - a) Three similar completed project costing not less than the Rs. 100 Cr. Or Two similar completed project costing not less than the Rs. 125 Cr Or One similar completed project costing not less than the Rs. 200 Cr b. At least one client references in BFSI/PSU/Govt Sector for supply of enterprise grade servers etc of any make in above mentioned period.	**Request Bank to revise the Clause as -** Three Clients with cumilativey completed project costing not less than Rs 80 Cr, **OR** **Revise the clause to -** 200 number of servers experience with 2 client references.	Please refer Corrigendum No. 1
290	60	9	Bidder's Project Experience for Storage: The bidder must have successfully executed/completed supply of enterprise grade storage, over the last five years i.e. the current financial year and the last five financial years with following project cost: - a) Three similar completed project costing not less than the Rs. 80 Cr. Or Two similar completed project costing not less than the Rs. 100 Cr Or One similar completed project costing not less than the Rs. 160 Cr b. At least one client references in BFSI/PSU/Govt Sector for supply of enterprise grade IT equipment such as servers or storage or network equipment etc. of any make in above mentioned period.	**Request Bank to revise the Clause as -** Three Clients with cumilativey completed project costing not less than Rs 50 Cr, **OR** **Revise the clause to** - 5 PB storage experience with 2 client reference. .	Please refer Corrigendum No. 1
291	88	Appendix C - Technical & Functional Specifications	N.Storage - 2 Performance	Request bank to change the performance requirement to Maximum size of each NVMe storage drive should be **more** than 18.XX TB with TLC drive	No Change, as per RFP
292	95	Appendix C - Technical & Functional Specifications	12 Functional Requirement --> 43.	Request Bank to relax the clause to "implementation reference configured with cross site replication between sites by the **bidder/OEM** .System should support cross site replication"	No Change, as per RFP
293	106	Appendix C - Technical & Functional Specifications	O. Brocade SAN Switch and Line Card P. Cisco SAN Switch and Line card	Request Bank to confirm if the bidder can use the Product (San Switche & Line Card) of either of the OEMS out the two given in the point no. O & P. Request Bank to modify the clause and allow the bidder to use the San Switch of any one OEM out of the two given in the RFP (Brocade / Cisco)	No Change, as per RFP
294	129	Appendix E : Scope of Work and Payment Schedule	4 - Term of the Project - Project Schedule; Milestones and delivery locations	Request Bank to change delivery timeline in the clause as Delivery of all equipment should be within **10 weeks** and installation, testing, commissioning within **16 weeks** from date of placing of order.	No Change, as per RFP
295	130	Scope of Work and Payment Schedule	Point 9	Request Bank to revise the rate discovery validity for 1 year instead of 2 years as the rate for the 2nd year may vary.	No Change, as per RFP
296	131	14 - Payment schedule	Payment Schedule for Manpower	Request Bank to revise the payment for onsite manpower to monthly payment in arrears.	No Change, as per RFP
297	137	Table B - Storage & Manpower Commercial Bid	Point No. 17, 18, 19	We understand from the commercial bid format that the Manpower requirement is only meant for Storage Bid and is not a part of commercial bid for Servers. Request bank to provide confirmation whether the manpower is not required for Servers support.	No Change, as per RFP Managed services is not required for Server support
298	161	D - 4	Maximum cap on penalties will be 10% of the project cost	Request Bank to capp the penalties to 5% of the Total Project Cost. Also request bank to mention the time period for which the capping is applicable (e.g, capping % is for each year or entire contract period etc)	No Change, as per RFP Penalty is capped on project cost.

299	88	N. Storage SN:1, Capacity and scalability, Quatity and location	3. The bidder shall quote for a total of four (4) storage systems each at the Primary Data Center (DC) and Disaster Recovery (DR) site respectively. 4.All storage systems provided must be homogenous in all aspect. Each storage system must be configured with maximum of 2.5 PB usable capacity per Storage on day one. Therefore, the bidder shall quote for 2.5 PB × 4 storage systems per site.	Kindly allow OEM to configure the no of storage required for the desired capacity of 10 PB each and meet the performance and availability requested in the RFP	No Change, as per RFP
300	89	N. Storage SN:2, Performance, Disk Size	8. Maximum size of each NVMe storage drive should be less than 18.xx TB with TLC (Triple Level 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	No Change, as per RFP
301	89	N. Storage SN:4, Number of Racks and controllers, Controllers	10. A single storage system must support at least 12 controllers in a symmetric active-active architecture with a global cache architecture across controllers.	This point is specific to a particular OEM. Kindly allow the OEM to propose the storage to meet the performance and availabilty asks	No Change, as per RFP
302	89	N. Storage SN:5, Reliability and Availability Controllers, Redundancy	6. Proposed solution should have active- active host connectivity with redundant controllers. All controllers should symmetric active – active with global cache and failure of controller should not impact operations even in real time.	Kinldy modify the RFP point to " Proposed solution should have active- active host connectivity with redundant controllers. All controllers should be active – active and failure of a controller should not impact operations and perfromance even in real time".	No Change, as per RFP
303	91	N. Storage SN:8, Number of Racks , Raid	19. NVMe disk Raid should be formed with maximum 18 drives in Single RAID Group (16D+2P).	Kindly allow the Drive raid group size as per the recommended best practise sizing of the Storage OEM to meet the perfromance and availability asks	No Change, as per RFP
304	96	N. Storage SN:12, Functional requirement , Raid	52. Array should be supplied with one global hot spare disk for every 25 disks of same capacity and speed.	Kindly allow Equivalent of Spare disk or Reserve spare capacity on the system .	No Change, as per RFP
305	60	Bidder's Eligibility Criteria	Bidder's Project Experience for Servers: The bidder must have successfully executed/ completed supply of enterprise grade servers, over the last five years i.e. the current financial year and the last five financial years with following project cost: - a) Three similar completed project costing not less than the Rs. 100 Cr. Or Two similar completed project costing not less than the Rs. 125 Cr Or One similar completed project costing not less than the Rs. 200 Cr b. At least one client references in BFSI/PSU/Govt Sector for supply of enterprise grade servers etc of any make in above mentioned period.	Bidder's Project Experience for Servers: The bidder must have successfully executed/ completed supply of enterprise grade servers, over the last five years i.e. the current financial year and the last five financial years with following project cost including GST: - a) Three similar completed project costing not less than the Rs. 50 Cr. Or Two similar completed project costing not less than the Rs. 70 Cr Or One similar completed project costing not less than the Rs. 100 Cr b. At least one client references in BFSI/PSU/Govt Sector for supply of enterprise grade servers etc of any make in above mentioned period.	Please refer Corrigendum No. 1
306	61	Bidder's Eligibility Criteria	Bidder's Project Experience for Storage: a. The bidder must have successfully executed/ completed supply of enterprise grade storage, over the last five years i.e. the current financial year and the last five financial years: - a) Three similar completed project costing not less than the Rs. 80 Cr Or Two similar completed project costing not less than the Rs. 100 Cr Or One similar completed project costing not less than the Rs. 160 Cr b. At least one client references in BFSI/PSU/Govt Sector for supply of enterprise grade IT equipment such as servers or storage or network equipment etc. of any make in above mentioned period.	Bidder's Project Experience for Storage: a. The bidder must have successfully executed/ completed supply of enterprise grade storage, over the last five years i.e. the current financial year and the last five financial years including GST: - a) Three similar completed project costing not less than the Rs. 40 Cr Or Two similar completed project costing not less than the Rs. 50Cr Or One similar completed project costing not less than the Rs. 80 Cr b. At least one client references in BFSI/PSU/Govt Sector for supply of enterprise grade IT equipment such as servers or storage or network equipment etc. of any make in above mentioned period.	Please refer Corrigendum No. 1
307	131	Appendix-E, Payment schedule	1. 50% + taxes of the Servers, Storage, GPUs, SAN Switches, Modules (hardware, software and warranty) will be released on delivery of hardware. 2. The remaining 50% + taxes of the Servers (hardware, software and warranty) will be released on commissioning, verification of bill of material by Bank/CDAC/Third party and submission of PBG. No payment will be made on part delivery of ordered hardware. 3. Payment for AMC will be made quarterly in arrears. 4. Payment for onsite manpower will be made quarterly in arrears.	For better cashflow, we request you to revise this clause 1. 70% + full taxes of the Servers, Storage, GPUs, SAN Switches, Modules (hardware, software and warranty) will be released on delivery of hardware. 2. The remaining 30% of the Servers (hardware, software and warranty) will be released on commissioning, verification of bill of material by Bank/CDAC/Third party and submission of PBG. 3. Payment for AMC will be made yearly in advance. 4. Payment for onsite manpower will be made quarterly in arrears.	No Change, as per RFP
308	88	N. Storage, Capacity and scalability, Quantity and Location - 5	Each storage system shall be offered in its maximum scalable configuration as per OEM design, ensuring the highest levels of performance, availability, and throughput. This includes fully populating all controller nodes/modules/enclosures, along with redundant power, fabric, cache, and other critical components.	Request to change the language to " Each stoarge system shall be offered with min required configuration as per OEM design to meet the capacity and perfromance requirements of the RFP" Asking OEMs to fully populate the storage system penalizes the OEM which is offering better scalability. They would have to populate more than required cache and controllers than requested in the RFP tilting the scale in favor of the OEM with limited scalability	No Change, as per RFP

309	59/269	Eligibility Criteria Page 60 . Clause Nos 06	Eligibility Clause : Nos 06 Bidder's Project Experience for Servers: The bidder must have successfully executed/completed supply of enterprise grade servers, over the last five years i.e. the current financial year and the last five financial years with following project cost: - a) Three similar completed project costing not less than the Rs. 100 Cr. Or Two similar completed project costing not less than the Rs. 125 Cr Or One similar completed project costing not less than the Rs. 200 Cr b. At least one client references in BFSI/PSU/Govt Sector for supply of enterprise grade servers etc of any make in above mentioned period.	Request Bank to Change the Clause 1 Bidder should have experience of five years in supply, installation, commissioning, and maintenance of minimum 250 blade/rack Servers. (Combining all orders). Justiification : As the scope of the RFP is similar to Ref: IT Cloud Solutions/FY:2024-25/RFP/1310 Dated: 31/03/2025 , request the same eligibility clause to be maintained .	Please refer Corrigendum No. 1
310	59/269	Eligibility Criteria Page 60 . Clause Nos 06	Eligibility Clause : Nos 06 Bidder's Project Experience for Servers: The bidder must have successfully executed/completed supply of enterprise grade servers, over the last five years i.e. the current financial year and the last five financial years with following project cost: - a) Three similar completed project costing not less than the Rs. 100 Cr. Or Two similar completed project costing not less than the Rs. 125 Cr Or One similar completed project costing not less than the Rs. 200 Cr b. At least one client references in BFSI/PSU/Govt Sector for supply of enterprise grade servers etc of any make in above mentioned period.	Request Bank to Change the Clause 1 Three similar completed project costing not less than the Rs. 100 Cr.((Combining all orders).)	Please refer Corrigendum No. 1
311	59/269	Eligibility Criteria Page 60 . Clause Nos 06	Eligibility Clause : Nos 06 Bidder's Project Experience for Servers: The bidder must have successfully executed/completed supply of enterprise grade servers, over the last five years i.e. the current financial year and the last five financial years with following project cost: a) Three similar completed project costing not less than the Rs. 100 Cr. Or b)Two similar completed project costing not less than the Rs. 125 Cr or c) One similar completed project costing not less than the Rs. 200 Cr b. At least one client references in BFSI/PSU/Govt Sector for supply of enterprise grade servers etc of any make in above mentioned period.	Request Bank to clarify Points a) or b) or c) in the eligibility clause can be Submitted as Cumulative PO values .	Please refer Corrigendum No. 1
312	61	8	Server OEM Experience - Turnover - Turnover - Average turnover of minimum Rs. 400 Crore during last 03 (three) financial year(s) Prior Experience- minimum 3 years of supplying enterprise grade servers a. In last five years should have supplied servers amounting to minimum Rs. 200 Cr in a maximum	Turnover : Requesting you to Kindly Amend the clause Average turnover of minimum Rs. 200 Crore during last 03 (three) financial year(s) a. Requesting you to Kindly Amend the clause in last five years have supplied servers amounting minimum Rs. 50 Cr in a maximum of total three orders. b. Requesting you to Kindly Amend the Clause At least one client references in BFSI/PSU/Govt Sector/Enterprises/Private Sector as well for supply of enterprise grade servers in last five years	No Change, as per RFP
313		Additional	Qualification cretiria	Request to add following for Industry Implementation of Cloudera on OEM hardware "OEM hardware must have cloudera implementation in Public Sector or large Private Banks"	No Change, as per RFP
314		Additional	OS Support	All Servers Quoted in the RFP must be certified for all Operating Systems desired. The same must also be listed on Software OEMs hardware Compatibility List.	No change as per RFP All Servers Quoted in the RFP must be certified for all Operating Systems desired. The same must also be verifiable and listed on Software OEM's Hardware Compatibility List (HCL)
315		Additional	Benchmarks	All Servers Offered must have listed Spec Benchmarks like Specint & Specfp on Spec.org	No Change, as per RFP
316		Additional	Qualification cretiria	In the last 12 months, the OEM must have successfully installed a minimum of 500 servers for a single large bank or Public Sector Undertaking	No Change, as per RFP
317		Additional	Qualification cretiria	"The vendor must be part of the top three OEM server manufacturers as per the latest IDC worldwide"	No Change, as per RFP

318	61, 62	Appendix-B Bidder's Eligibility Criteria Point 9 Bidder's Project Experience for Storage:	a. The bidder must have successfully executed/completed supply of enterprise grade storage, over the last five years i.e. the current financial year and the last five financial years: - a) Three similar completed project costing not less than the Rs. 80 Cr Or Two similar completed project costing not less than the Rs. 100 Cr Or One similar completed project costing not less than the Rs. 160 Cr b. At least one client references in BFSI/PSU/Govt Sector for supply of enterprise grade IT equipment such as servers or storage or network equipment etc. of any make in above mentioned period.	Request to consider Bidder/OEM since Enterprise Class Storages are Managed by OEM. a. The Bidder/OEM must have successfully executed/completed supply of enterprise grade storage, over the last five years i.e. the current financial year and the last five financial years: Three similar completed project costing not less than the Rs. 45 Cr Or Two similar completed project costing not less than the Rs. 65 Cr Or One similar completed project costing not less than the Rs. 95 Cr b. At least one client references in BFSI/PSU/Govt Sector for supply of enterprise grade IT equipment such as servers or storage or network equipment etc. of any make in above mentioned period.	Please refer Corrigendum No. 1
319	100	Appendix-C Technical & Functional Specifications N. Storage: 87. Warranty & AMC	87. Five years Warranty and 2 years AMC - 24x7 comprehensive onsite support from OEM 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 covering Half yearly Firmware analysis, and Proactive Health analysis	Request to change the point as: Five years Warranty and 2 years AMC - 24x7 comprehensive onsite support from OEM 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 covering Half yearly Firmware analysis, and Proactive Health analysis. Along with Designated Assigned Account Team comprises of Onsite Account Support Manager (ASM) Offsite Technical Account Manager (TAM) to carry out below activities: Ongoing Account Support Planning (ASP) - Developed by the ASM in conjunction with Customer IT staff and updated proactively quarterly by the ASM as required. Ongoing Service planning and review - The assigned account team conducts quarterly service planning and review sessions to review key topics, discuss trends and any planned changes. Quraterly Service planning and review - The assigned account team conducts quarterly service planning and review sessions to review key topics, discuss trends and any planned changes. Quarterly Operational and technical advice -	No Change, as per RFP
320		Generic Query	RACK for Storage	The 20PB Storage has it's own OEM RACK. The Storage OEM Rack is not compliant with all the specifications listed in 42U RACK Specification but it's preferred since Storage is factory integrated in the RACK and shipped. Should we include the Storage OEM Rack in the Storage itself OR BANK will procure 42U RACK asked as per the Specifications mentioned in the Tender and OEM needs to fit that Storage in that RACK... Please clarify	No Change, as per RFP
321		Generic Query	FC Cables for SAN Directors	For all the Brocade and CISCO SAN Directors and additional Line Card, number of Ports are mentioned without mentioing of FC Cables. Are we required to provide FC Cables as per the number of Ports asked in the Tender. If Yes then please do mentioned the required Length of FC Cable in details.	Please refer Corrigendum No. 1
322	4	10	Reverse Auction	~~Reverse Auction~~Request to evaluate the bid by LCBS (L1) to derive the succesfull bidder	No Change, as per RFP
323	**129**	**Appendix-E**	Term of the Project - Project Schedule; Milestones and delivery locations Delivery of all equipment should be within 8 weeks and installation, testing, commissioning within 10 weeks from date of placing of order. Delivery Location: • Rabale, Navi Mumbai • Mahape, Navi Mumbai • Gachibowli, Hyderabad • Any other data centres in any other city without any additional cost Bank will confirm the quantities being supplied at each site through the Purchase order.	**Request to Amend-** **Term of the Project - Project Schedule; Milestones and delivery locations** **Delivery of all equipment should be within 8 24 weeks and installation, testing, commissioning within 10 32 weeks from date of placing of order.** **Delivery Location:** **• Rabale, Navi Mumbai** **• Mahape, Navi Mumbai** **• Gachibowli, Hyderabad** **• Any other data centres in any other city without any additional cost Bank will confirm the quantities being supplied at each site through the Purchase order**	No Change, as per RFP
324	**131**	**Appendix-E**	Payment schedule 1. 50% + taxes of the Servers, Storage, GPUs, SAN Switches, Modules (hardware, software and warranty) will be released on delivery of hardware. 2. The remaining 50% + taxes of the Servers (hardware, software and warranty) will be released on commissioning, verification of bill of material by Bank/CDAC/Third party and submission of PBG. No payment will be made on part delivery of ordered hardware. 3. Payment for AMC will be made quarterly in arrears. 4. Payment for onsite manpower will be made quarterly in arrears	Request to Amend- Payment schedule 1. 50% 80%+ taxes of the Servers, Storage, GPUs, SAN Switches, Modules (hardware, software and warranty) will be released on delivery of hardware. 2. The remaining 50% 20% + taxes of the Servers (hardware, software and warranty) will be released on commissioning, verification of bill of material by Bank/CDAC/Third party and submission of PBG. No payment will be made on part delivery of ordered hardware. 3. Payment for AMC will be made quarterly in arrears. 4. Payment for onsite manpower will be made quarterly in arrears	No Change, as per RFP

325	**41**	**Liquidate Damages**	If Service Provider fails to deliver Product and/or perform any or all the Services within the stipulated time, schedule as specified in this RFP, the Bank may, without prejudice to its other remedies under the RFP, and unless otherwise extension of time is agreed upon without the application of liquidated damages, deduct from the Project Cost, as liquidated damages a sum equivalent to 0.5% of total Project Cost for delay of each week or part thereof maximum up to 5% of total Project Cost. Once the maximum deduction is reached, the Bank may consider termination of the Agreement.	Request to Amend- If Service Provider fails to deliver Product and/or perform any or all the Services within the stipulated time, schedule as specified in this RFP, the Bank may, without prejudice to its other remedies under the RFP, and unless otherwise extension of time is agreed upon without the application of liquidated damages, deduct from the Project Cost, as liquidated damages a sum equivalent to 0.5% of undelivered portion on pro rata total Project Cost for delay of each week or part thereof maximum up to 5% 4% of total Project Cost. Once the maximum deduction is reached, the Bank may consider termination of the Agreement	No Change, as per RFP
326	**v**	**Debarment/Banning**	Repeated non-performance or performance below specified standards (including after sales services and maintenance services etc.);	Request to Delete this Clause and consider the below clauses in subject of non -performance 1.Forfeit of PBG 2.Termination of Contract 3.Imposing Penalty as per rfp terms	No Change, as per RFP
327	31 & 32	28. Services	v. Service Provider shall obtain a written permission from the Bank before applying any of the patches/ upgrades/ updates. Service Provider has to support older versions of the OS/firmware/middleware etc in case the Bank chooses not to upgrade to latest version.	v. Service Provider shall obtain a written permission from the Bank before applying any of the patches/ upgrades/ updates. Service Provider has to support older versions of the OS/firmware/~~middleware~~ etc in case the Bank chooses not to upgrade to latest version provided the Software is supported by the application vendor.	No Change, as per RFP
328	33	29. WARRANTY AND ANNUAL MAINTENANCE CONTRACT	vii. In the event of system break down or failures at any stage, protection available, which would include the following, shall be specified.	vii. In the event of system break down or failures at any stage, protection available, which would include the following, shall be specified. (d) Backup of system software/ Configuration clause to be removed or else additional data protection software and hardware systems to be provided by SBI to bidder.	No Change, as per RFP
329	129	Appendix -E - Scope of Work and Payment Schedule	4. Term of the Project - Project Schedule; Milestones and delivery locations - Delivery of all equipment should be within 8 weeks and installation, testing, commissioning within 10 weeks from date of placing of order.	4. Term of the Project - Project Schedule; Milestones and delivery locations - Delivery of all equipment should be within 12 weeks and installation, testing, commissioning within 16 weeks from date of placing of order.	No Change, as per RFP
330	161	Appendix-L - Other Terms & Penalties	c.. Independent Security Assessment - 1 OEM shall conduct annual third-party vulnerability assessments or penetration testing of its hosted services (or provide a recent independent audit report such as SOC 2 Type II or ISO 27001 certification).	Please confirm if the OEM provides a vulnerability assessment or penetration testing report for the quoted products from an independent audit report agency. Will it suffice? Kindly confirm.	No change as per RFP Yes, OEM should provide a vulnerability assessment or penetration testing report for the quoted products from an independent audit report agency.
331	59	Eligibility Criteria	Server: The Bidder must have an average turnover of minimum Rs. 250 Crore during last 03 (three) financial year(s) i.e. FY21-22 FY22-23 and FY23-24. Storage: The Bidder must have an average turnover of minimum Rs. 200 Crore during last 03 (three) financial year(s) i.e. FY21-22 FY22-23 and FY23-24.	Request you to kindly relax this clause as - The Bidder must have an average turnover of minimum Rs. 100 Crore during last 03 (three) financial year(s) i.e. FY21-22 FY22-23 and FY23-24.	No Change, as per RFP
332	62	Eligibility Criteria	The bidder must have successfully executed/completed supply of enterprise grade servers, over the last five years i.e. the current financial year and the last five financial years with following project cost: - a) Three similar completed project costing not less than the Rs. 100 Cr. Or Two similar completed project costing not less than the Rs. 125 Cr Or One similar completed project costing not less than the Rs. 200 Cr	Kindly Relax this clause as- The bidder must have successfully executed/completed supply of enterprise grade servers, over the last seven years i.e. the current financial year and the last five financial years with following project cost: - Two similar completed project costing not less than the Rs. 25 Cr Or One similar completed project costing not less than the Rs. 20 Cr	Please refer Corrigendum No. 1
333	59	Eligibility Criteria	Server: The Bidder must have an average turnover of minimum Rs. 250 Crore during last 03 (three) financial year(s) i.e. FY21-22 FY22-23 and FY23-24. Storage: The Bidder must have an average turnover of minimum Rs. 200 Crore during last 03 (three) financial year(s) i.e. FY21-22 FY22-23 and FY23-24.	Request you to kindly relax this clause as - The Bidder must have an average turnover of minimum Rs. 100 Crore during last 03 (three) financial year(s) i.e. FY21-22 FY22-23 and FY23-24.	No Change, as per RFP
334	60	Eligibility Criteria	The bidder must have successfully executed/completed supply of enterprise grade servers, over the last five years i.e. the current financial year and the last five financial years with following project cost: - a) Three similar completed project costing not less than the Rs. 100 Cr. Or Two similar completed project costing not less than the Rs. 125 Cr Or One similar completed project costing not less than the Rs. 200 Cr	Kindly Relax this clause as- The bidder must have successfully executed/completed supply of enterprise grade servers, over the last seven years i.e. the current financial year and the last five financial years with following project cost: - Two similar completed project costing not less than the Rs. 25 Cr Or One similar completed project costing not less than the Rs. 20 Cr	Please refer Corrigendum No. 1
335	62	Eligibility Criteria	a. The bidder must have successfully executed/completed supply of enterprise grade storage, over the last five years i.e. the current financial year and the last five financial years: - a) Three similar completed project costing not less than the Rs. 80 Cr Or Two similar completed project costing not less than the Rs. 100 Cr Or One similar completed project costing not less than the Rs. 160 Cr	Kindly Relax this clause as- a. The bidder must have successfully executed/completed supply of enterprise grade storage, over the last five years i.e. the current financial year and the last five financial years: - Two similar completed project costing not less than the Rs. 25 Cr Or One similar completed project costing not less than the Rs. 200 Cr	Please refer Corrigendum No. 1
336	64	Appendix-B BIDDER'S ELIGIBILITY CRITERIA	Eligibility criteria mentioned at Sl No 3 to 5 in table above are relaxed for Startups subject to their meeting of quality and technical specifications, Bidder to note the followings: ii. Bidder who solely on its own, fulfils each eligibility criteria condition as per the RFP terms and conditions and who are having Start-up company status, can claim exemption for eligibility criteria mentioned at Sl No 3 to 5 in table above.	Eligibility criteria mentioned at Sl. No. 3 to 5 in the table above are relaxed for Startups subject to their meeting of quality and technical specifications.However, since the eligibility criteria at Sl. No. 6 to 8 also pertain to experience requirements, kindly clarify whether any relaxation or exemption is applicable to these clauses as well.	No change as per RFP There is no exemption to startups apart from sr no 3 -5 of the eligibility criteria.

337	61	Appendix-B BIDDER'S ELIGIBILITY CRITERIA Point no. 8	Server OEM Experience - Turnover - Turnover - Average turnover of minimum Rs. 400 Crore during last 03 (three) financial year(s) Prior Experience- minimum 3 years of supplying enterprise grade servers a. In last five years should have supplied servers amounting to minimum Rs. 200 Cr in a maximum of total three orders. b. At least one client references in BFSI/PSU/Govt Sector for supply of enterprise grade servers in last five years	If the OEM is registered as an MSME or a Startup under Government of India guidelines, will there be any relaxation or exemption in the above. Kindly clarify.	No change as per RFP There is no exemption to startups apart from sr no 3 -5 of the eligibility criteria.
338	61	Appendix-B - Bidder's Eligibility Criteria - Sr. No. 8 - Server OEM Experience	**Server OEM Experience - Turnover - Turnover - Average** **turnover of minimum Rs. 400 Crore during last 03 (three) financial year(s) Prior Experience- minimum 3 years of supplying enterprise grade servers**	Vantageo is an Indian indigenous Server OEM, founded in 2020 and headquartered in Mumbai (Thane), with manufacturing facilities in Shirwal, near Pune, Maharashtra. As a startup, with commercial sales commencing in 2023, we are in the early stages of scaling operations and have not yet reached the average turnover of ₹400 Crores as stipulated in the eligibility criteria. Despite being a young company, Vantageo servers are fully tested, certified products and have already been successfully supplied to 100+ customers across Public Sector Undertakings, Government departments, PSU Banks, ITIES and Manufacturing enterprises. In the last three years alone, we have supplied over 1,000 servers in the Indian market. We are also proud to have designed and built India's first 1-Petaflops supercomputer "Param Vikram 1000" for ISRO's Chandrayaan III mission, ranking 14th among the top supercomputers. Given our Startup India recognition, proven technical capability, and track record of delivering mission-critical computing infrastructure, we respectfully request SBI to permit Vantageo's participation through its potential bidding partner. This will enable SBI to leverage cutting-edge, Made-in-India server solutions in alignment with the Government's "Make in India" and "Atmanirbhar Bharat" vision, while meeting all technical product	No Change, as per RFP
339	61	Appendix-B - Bidder's Eligibility Criteria - Sr. No. 8 - Server OEM Experience	Project Experience: a. In last five years should have supplied servers amounting to minimum Rs. 200 Cr in a maximum of total three orders. b. At least one client references in BFSI/PSU/Govt Sector for supply of enterprise grade servers in last five years	This is a very high benchmark for an Indian indigenous OEMs to participate with a proven capability. Vantageo, as a 100% Indian OEM, has consistently demonstrated the ability to design, manufacture, and deliver high-value, mission-critical servers infrastructure to major Government, PSU, BFSI, and enterprise customers. Our track record includes successful execution of large single-value orders and complex deployments, backed by rigorous quality assurance and nationwide support. We therefore request SBI to allow participation with reasonable order size thresholds and demonstrable high-value order execution experience. The bidder we nominate will fully meet the turnover and experience requirements stipulated for bidders, ensuring compliance with SBI's procurement standards while enabling inclusion of capable Indian manufacturers.	No Change, as per RFP
340	60	3	Server: The Bidder must have an average turnover of minimum Rs. 250 Crore during last 03 (three) financial year(s) i.e. FY21-22 FY22-23 and FY23-24. Storage: The Bidder must have an average turnover of minimum Rs. 200 Crore during last 03 (three) financial year(s) i.e. FY21-22 FY22-23 and FY23-24.	Our Understanding is that, if the Bidder has a turnover of 250 Crores, then he is eligible to bid for both Server & Storage. Kindly Confirm	No change as per RFP Yes, if the bidder has turnover of Rs. 250 Cr, then he can participate for both bids.
341	60	4	The Bidder should be profitable organization on the basis of profit before tax (PBT) for at least 02 (two) out of last 03 (three) financial years mentioned in para 3 above.	Kindly change this to - The Bidder should be profitable organization on the basis of profit before tax (PBT) for all 03 (three) last financial years mentioned in para 3 above.	No Change, as per RFP
342	60	6	Bidder's Project Experience for Servers The bidder must have successfully executed/completed supply of enterprise grade servers, over the last five years i.e. the current financial year and the last five financial years with following project cost: '- a) Three similar completed project costing not less than the Rs. 100 Cr. Or Two similar completed project costing not less than the Rs. 125 Cr Or One similar completed project costing not less than the Rs. 200 Cr b. At least one client references in BFSI/PSU/Govt Sector for supply of enterprise grade servers etc of any make in above mentioned period.	Request for change to - The bidder must have successfully executed/completed supply of enterprise grade servers / Appliance and Storage, over the last five years i.e. the current financial year and the last five financial years with following project cost: '- a) Three similar completed project costing not less than the Rs. 80 Cr. Or Two similar completed project costing not less than the Rs. 100 Cr Or One similar completed project costing not less than the Rs. 175 Cr b. At least one client references in BFSI/PSU/Govt Sector for supply of enterprise grade servers etc or Appliance (which in turn has multiple server & storage within it) & storage of any make in above mentioned period.	Please refer Corrigendum No. 1

343	60	9	Bidder's Project Experience for Storage: a. The bidder must have successfully executed/completed supply of enterprise grade storage, over the last five years i.e. the current financial year and the last five financial years: '- a) Three similar completed project costing not less than the Rs. 80 Cr Or Two similar completed project costing not less than the Rs. 100 Cr Or One similar completed project costing not less than the Rs. 160 Cr b. At least one client references in BFSI/PSU/Govt Sector for supply of enterprise grade IT equipment such as servers or storage or network equipment etc. of any make in above mentioned period.	Request for change to - The bidder must have successfully executed/completed supply of enterprise grade servers / Appliance and Storage, over the last five years i.e. the current financial year and the last five financial years with following project cost: '- a) Three similar completed project costing not less than the Rs. 80 Cr. Or Two similar completed project costing not less than the Rs. 100 Cr Or One similar completed project costing not less than the Rs. 175 Cr b. At least one client references in BFSI/PSU/Govt Sector for supply of enterprise grade servers etc or Appliance (which in turn has multiple server & storage within it) & storage of any make in above mentioned period.	Please refer Corrigendum No. 1
344	3	Schedule of Events	Point no 6 Last date and time for Bid submission	We request you to please extend the bid submission date for 2 weeks i.e. 19/09/2025 because of price threshold it will required additional layer of internal approvals.	No Change, as per RFP
345	60	Bidder's Eligibility Criteria	Point no 4 Server: The Bidder must have an average turnover of minimum Rs. 250 Crore during last 03 (three) financial year(s) i.e. FY21-22 FY22-23 and FY23-24. Storage: The Bidder must have an average turnover of minimum Rs. 200 Crore during last 03 (three) financial year(s) i.e. FY21-22 FY22-23 and FY23-24.	Please clarify - Is this criteria for OEM or for the Lead bidder?	No Change, As per RFP as mentioned in the clause itself, the criteria is for bidder.
346		Bidder's Eligibility Criteria	Point no 5 B idder should have experience of minimum 3 years in providing the supplying enterprise grade servers and/or storage.	Please clarify - Is this criteria for OEM or for the Lead bidder?	No Change, As per RFP as mentioned in the clause itself, the criteria is for bidder.
347	88-89	2. Performance IOPS, Throughput and Latency	6. Each individual storage system must provide a minimum of 30 million IOPS using a 8KB block size,100% Random read hit as validated through an official datasheet or vendor web link. Accordingly, the total performance capacity per site for all storage system (DC and DR) must be no less than 120 million IOPS (SI along with OEM need to perform the test onsite after delivery with enterprise level IO test tool as part of acceptance of the solution).	Request SBI Bank to provide performance benchmark figures based on a representative read/write workload ratio, as a 100% read scenario may not reflect typical operational patterns. This will help ensure that proposed solutions are designed to meet actual performance needs while optimizing cost, rather than relying solely on metrics derived from idealized 100% read cache-hit conditions.	No Change, as per RFP
348	89	2. Performance Cache Size	7. Four controller HA pair should have minimum 2 TB global cache.	Modern HA architectures are well designed for virtualization & cloud environments and provide edge over monolithic architectures which are ideal for physical workload environments. Request SBI Bank to encourage broader participation and allow consideration of multiple architectural approaches, while still ensuring compliance with the stated performance and availability objectives by dropping the clause four controller HA pair and Global Cache.	No Change, as per RFP
349	89	4. Number of Racks and Controllers Controllers	10. A single storage system must support at least 12 controllers in a symmetric active active architecture with a global cache architecture across controllers.	The requirement for symmetric active-active and global cache appears to be aligned with older design philosophies aimed at mitigating latency in spinning media environments. Considering advancements in storage technology like NVMe, where modern systems achieve high performance and low latency through varied architectural approaches, retaining this clause may unintentionally limit competitive participation. We recommend revising this requirement to focus on meeting the intended performance, availability, and reliability outcomes without prescribing a specific global cache or symmetric active - active design architecture, thereby encouraging a wider range of compliant solutions.	No Change, as per RFP
350	89-90	5. Reliability and Availability Redundancy	6. Proposed solution should have active active host connectivity with redundant controllers. All controllers should symmetric active – active with global cache and failure of controller should not impact operations even in real time.	The requirement for symmetric active-active and global cache appears to be aligned with older design philosophies aimed at mitigating latency in spinning media environments. Considering advancements in storage technology, where modern systems achieve high performance and low latency through varied architectural approaches, retaining this clause may unintentionally limit competitive participation. We recommend revising this requirement to focus on meeting the intended performance, availability, and reliability outcomes without prescribing a specific cache architecture, thereby encouraging a wider range of compliant solutions.	No Change, as per RFP
351	92	9. HA and RAID Implementation	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) attached to the storage solution must be fully operational during system level or maintenance upgrade procedures and be able to access the storage in full capacity	Request bank to revise this clause as "The storage solution must support non disruptive upgrade of core software, firmware, snapshot, clone, remote mirroring, ad management software without shutting down the storage system. All hosts attached to the storage solution must be operational during system level or maintenance upgrade procedures and be able to access the storage."	No Change, as per RFP

352	93	10. Architecture and processing power Performance Optimization	32. Adaptive Performance Optimization The storage system should include intelligent, performance optimization features, such as caching, and load balancing across controllers, without manual intervention or disruption. The system should adapt dynamically to changing workloads to maximize throughput and minimize latency.	Request bank to revise this clause as "The storage system should include intelligent, performance optimization features, such as caching, and load balancing across HA Pair controllers, without manual intervention or disruption. The system should adapt dynamically to changing workloads to maximize throughput and minimize latency."	No Change, as per RFP
353	94	10. Architecture and processing power Connectivity between HA Pairs	34. Scale out architecture should have at least 100 Gbps bandwidth per controller for backend interconnect switches / InfiniBand switches / PCI-e based multilane connectivity between all HA pair. It is required for quick migration of datastore from One HA pair to another HA pair.	Request bank to remove this clause to allow maximum participation with differing system designs while ensuring functional requirements are met without any disruption or impact in service.	No Change, as per RFP
354	**61**	**Appendix B . 9**	**Bidder's Project Experience for Storage: a. The bidder must have successfully executed/completed supply of enterprise grade storage, over the last five years i.e. the current financial year and the last five financial years: - a) Three similar completed project costing not less than the Rs. 80 Cr Or Two similar completed project costing not less than the Rs. 100 Cr Or One similar completed project costing not less than the Rs. 160 Cr b. At least one client references in BFSI/PSU/Govt Sector for supply of enterprise grade IT equipment such as servers or storage or network equipment etc. of any make in above mentioned period.**	Alternatively Please allow 5 Petabytes of storage supplied and installed in multiple orders in last five years	Please refer Corrigendum No. 1
355	**15**	**3**	Delivery of all equipment should be within 8 weeks and installation, testing, commissioning within 10 weeks from date of placing of order.	**Change Request:** Delivery of all equipment should be within 16 weeks and installation, testing, commissioning within 20 weeks from date of placing of order.	No Change, as per RFP
356	**131**	**14**	Payment for onsite manpower will be made quarterly in arrears.	Request you to change it to quarterly in advance.	No Change, as per RFP
357	**46**	**49**	**49. TERMINATION FOR CONVENIENCE: i. The Bank, by written notice of not less than 90 (ninety) days, may terminate the Contract, in whole or in part, for its convenience, provided same shall not be invoked by the Bank before completion of half of the total Contract period (including the notice period). ii. In the event of termination of the Agreement for the Bank's convenience, Service Provider shall be entitled to receive payment for the Services rendered (delivered) up to the effective date of termination.**	This is not a service contract rather it is a capex contract wherein all the equipment are delivered immediately on order and warranty/ AMC support is provided.Due to this this clause is not applicable and so request you to drop this clause .	No Change, as per RFP
358	**31**	**iii**	Service Provider shall be willing to transfer skills to relevant personnel of the Bank, by means of training and documentation	Need clarity at Bank premises or Bidder defined location , Traning will be given by OEM or bidder .	No Change, as per RFP
359	**31**	**iv**	- Service Provider shall provide and implement patches/ upgrades/ updates for Products (software/ firmware/ OS) as and when released by Service Provider/ OEM free of cost. Service Provider should bring to notice of the Bank all releases/ version changes	OS supply and installation is not part of the scope so request you to please confirm.	No Change, as per RFP
360	**134**		All devices should have dual power sources and also connected through different color Power Cables to easily identify that the devices are connected to both sources. The bidder is responsible for providing a complete infrastructure solution. The bank will solely provide the space, power, and cooling for the equipment. All other items, including servers, PDUs (power distribution units), **SFPs (transceivers)**, racks, cables (end to end network cabling, SAN cabling with material and effort) etc. must be supplied, installed, and make ready for use by the bidder. Power requirements need to be submitted by the bidder in the format below for all required racks.	Request SBI Bank to provide clarity on following (a) Top of the rack switch fully populated with required SFP is to be provided by Bank (b) All required SAN switch fully populated with required SFP is to be provided by Bank (c) All required management switch with required port connected to SBI network will be provided by the Bank (d) All required power supply up to RACK /PDU will eb provided by the Bank (e) In above para asked for SFPs- understand these are for server side – yes Bidder (TCPL) will factor (f) Also confirm that all required Operating System, middleware will be provided by the BANK	No Change, as per RFP
361	**127**	**2**	2. To provide all necessary hardware and software required to make the solution work strictly as per technical specifications. The specifications given are minimum. Bidders can quote equivalent or higher technical specifications to meet the Bank's requirements. However, no weightage would be given for higher configurations	Any other software or instalaltion of that is out of scope please confirm.	No Change, as per RFP
362	**130**	**6**	**Integration / Migration** Requirements with existing systems Yes, New hardware should be integrated with old platform without any additional cost to the Bank.	Any migration of data will be taken care by bank and is not part of the current RFP scope.Bank has to ensure upgradation of any firmware or related hardware from which the migration has to happen if so rquired.	No Change, as per RFP