

RESPONSE OF PRE-BID QUERIES

Ref: SBI/GITC/ITFO/2024/2025/1145 dated: 07/06/2024

REQUEST FOR PROPOSAL FOR PROCUREMENT OF IT HARDWARE INFRASTRUCTURE WITH INSTALLATION AND SUPPORT SERVICES ON INTEL X86 ARCHITECTURE

S.No	RFP Page No	RFP Clause No.	Existing Clause	Query/Suggestions	Department View
1	54	Appendix-B.3	The Bidder must have an average turnover of minimum Rs. 400 crore during last 03 (three) financial year(s) i.e. FY 2021-2022, FY2022-2023 and FY 2023-2024.	We request bank to consider an average turnover of Rs. 325Crore during last 03 (three) Financial year(s) i.e. FY 2021-2022, FY2022-2023 and FY 2023-2024.	No Change
2	55	Appendix-B.5	Bidder should have experience of minimum 5 years in providing the Products/Services. The Bidder had	We request the bank to please consider 8 orders of aggregate value of 300 Crore. Out of these, one order should be more than 50 Crore. Please update the clause accordingly.	No Change

3	54	APPENDIX-B Point# 5	<p>Bidder should have experience of minimum 5 years in providing the Products/Services. The Bidder had minimum 3 project (in BFSI sector) executed each of 100 Crores and above in the last 5 years</p>	<p>Bidder should have experience of minimum 5 years in providing the Products/Services. The Bidder had minimum 3 project (in BFSI sector) executed cumulatively of 100 Crores and above in the last 5 years</p> <p>OR</p> <p>The bidder should have national presence and should have supplied and maintained at least 100 servers cumulatively in India during last five years as on bid submission date.</p> <p>With regard to the above:</p> <p>a) At least one work order should be for supply and maintenance of at least 50 servers</p> <p>b) At least 2 orders should be from PSU / central government organizations / BFSI / Financial Institution in India.</p>	No Change
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4	54	APPENDIX-B Point# 7	Client references and contact details (email/ landline/ mobile) of customers for whom the Bidder has executed similar projects in India. (Start and End Date of the Project to be mentioned) in the past (At least 3 client references are required)	Request to bank consider the PO and completion certificate. In place of letter as per Appendix-P	No Change
5	54	Bidder's Eligibility Criteria - Point no 3	The Bidder must have an average turnover of minimum Rs. 400 crore during last 03 (three) financial year(s) i.e. FY 2021-2022, FY2022-2023 and FY 2023-2024.	Request to modify " The Bidder must have an average turnover of minimum Rs. 340 crore during last 03 (three) financial year(s) i.e. FY 2021-2022, FY2022-2023 and FY 2023-2024.	No Change
6	54	Bidder's Eligibility Criteria - Point no 5	Copy of the audited financial statement for required financial years. (Certificate from statutory auditor for preceding/current 2023-2024 year may be submitted.)	Request bank to kindly consider the Unaudited Bal & PL for FY 23-24, Since FY 23-24 has not been Audited yet, which will be getting complete by EO September 24.	No Change

7	54	Bidder's Eligibility Criteria - Point no 5	Bidder should have experience of minimum 5 years in providing the Products/Services. The Bidder had minimum 3 project (in BFSI sector) executed each of 100 Crores and above in the last 5 years	Request to modify "Bidder should have experience of minimum 5 years in providing the Products/Services. The Bidder had minimum 3 project (in BFSI sector) executed each of 50 Crores and above in the last 5 years".	No Change
8	62	1.5	The Software should be Perpetual with ATS included back-to-back from OEM for all years. Besides this the software should be covered for Patch and security upgrades for at least 5 years from the date of implementation with no cost to the Bank.	The Software should be Perpetual/ Subscription with ATS included back-to-back from OEM for all years. Besides this the software should be covered for Patch and security upgrades for at least 5 years from the date of implementation with no cost to the Bank.	Corrigendum shall be published
9	58	3.b	Usable Capacity	Capacity/ Instance. Request to please add instance based Licenses also help with the Instance Count.	Corrigendum shall be published

10	74	4.A.2	<p>The solution should support the existing tape libraries at DC and DR site.</p> <p>The bidder has to make the necessary configuration changes for conversion of existing Backup Tapes in compliance with new backup software and provide training to Bank officials for using the Backup software. Also, the bidder is required to manage backup, restoration, other activities related to backup activity, of both new and existing tapes, during the entire contract period.</p>	<ol style="list-style-type: none"> 1. Request you to share the details of the existing Tape Libraries to validate the support for the same 2. Can you please let us know the backup software used for writing backups on the existing tapes? 3. Conversion of Existing tapes is related to services obtained from Bidder, hence can you please remove the following portion of this point from Backup Software Specifications? "The bidder has to make the necessary configuration changes for conversion of existing Backup Tapes in compliance with new backup software and provide training to Bank officials for using the Backup software. Also, the bidder is required to manage backup, restoration, other activities related to backup activity, of both new and existing tapes, during the entire contract period." 	<p>Currently, Bank is taking Disk based Backup using StoreOne on a daily, weekly, monthly, quarterly and yearly basis.</p> <p>Disk backup is getting archived on LTO-7 tape on monthly basis. However, disk based backup remains on disk as per retention policy of the Bank. The policy will be shared to the successful bidder at the time of Implementation.</p> <p>The requirement is for ensuring archived backup on existing HPE 3PAR StoreServ that Bank is already using</p> <p>Current LTO-7 Tape Drives - 700 (total at DC and DR)</p>
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11	75	4.A.3	The proposed backup solution should support heterogeneous Operating system platforms including Microsoft Windows Server 2008R2 and above Windows 10/11, Solaris OS, SUSE Linux Enterprise Server, IBM AIX, Oracle Enterprise Linux (Oracle VM), VMware, Hyper-V, Xen Server, Red Hat Linux, VDI, Ubuntu etc.	<p>1. Microsoft ended extended support for Windows Server 2008 R2 on January 14, 2020. Hence the support to the same can be on best effort basis.</p> <p>So, we request you to revise this point to, "<i>The proposed backup solution should support heterogeneous Operating system platforms including Microsoft Windows Server 2016 and above Windows 10/11, Solaris OS, SUSE Linux Enterprise Server, IBM AIX, Oracle Enterprise Linux (Oracle VM), VMware, Hyper-V, Xen Server, Red Hat Linux, VDI, Ubuntu etc.</i>"</p>	Corrigendum shall be published
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12	75	4.A.3	<p>Backup software should be able to protect the following through online agents enabling granular restores. Major DBs like Oracle, MS SQL, MySQL, Maria DB, etc. and Applications likes SAP, Oracle-Web logic, Oracle-EBS, MS Active Directory, etc. across wide range of popular Windows / Linux / AIX and Unix flavours. All Software licenses should be included in the solution</p>	<p>1. Can you please let us know the type of data to be backed up for Oracle Web Logic and Oracle E Business Suite? 2. Can I request you to rephrase "All Software licenses should be included in the solution" as "Required Backup Software licenses should be included in the solution"</p>	No Change
13	75	4.A.3	<p>The Proposed backup support VMware , Hyper Visor VM image level backup with option to granular restoration at file level, database instance level etc. It should provide Instant recoveries for any backup to VMware machine.</p>	<p>Regarding this point "<i>It should provide Instant recoveries for any backup to VMware machine.</i>" can you please confirm which which backups are required to be restored as VMware Machine?</p>	No Change

14	76	4.A.11	Backup Software must support GUI with centralized management / Single interface for management of all backup activities across the entire storage capacity supplied. <i>The backup software must have firewall support</i>	Can you please elaborate the point, "The backup software must have firewall support"?	Already responded
15	76	4.A.12	As a backup tool all audit trails must be logged for tracking any changes on backup server. Should support Log truncation of SQL/Exchange DBs either on daily, weekly or monthly basis depending on the customer's requirement. The backup software should also support purge of archive logs in case of Oracle DB. The log truncation should e supported in both agent-based and agentless backup	Request you to kindly rephrase this point as, " <i>As a backup tool all audit trails must be logged for tracking any changes on backup server. Should support Log truncation of SQL/Exchange DBs either on daily, weekly or monthly basis depending on the customer's requirement. The backup software should also support purge of archive logs in case of Oracle DB. The log truncation should be supported in agent-based Or agentless backup</i> "	Corrigendum shall be published

16	77	4.A.13	Proposed solution should support 24x7 real-time monitoring, with at-a-glance and drill-down views of health, performance and workload of the virtual hosts.	Request you to kindly remove this point, as Real time VM health and performance monitoring and VM backup are two mutually exclusive functionalities - VM Health monitoring is not a requisite functionality for a backup software and additionally this capability is vendor specific.	Already responded
17	77	4.A.13	Proposed solution should support automated action for popular alarms (automated or semi-automated), with at-a-glance and drill-down views of health, performance and workload of the virtual hosts.	Request you to kindly remove this point, as Real time VM health and performance monitoring and VM backup are two mutually exclusive functionalities - VM Health monitoring is not a requisite functionality for a backup software and additionally this capability is vendor specific.	Already responded

18	77	4.A.14	Backup software must have a feature of data validation, whereby a workload (VM with OS and application) is powered-on in a sandbox environment and tested for its recoverability.	Request Bank to kindly rephrase this point as follows, as the required feature does not require an additional sandbox environment for testing and as the current point is vendor specific, <i>"Backup software must have an inbuilt feature of backed up data validation for a VM or VM group without an explicit need of a Sandbox environment. And there should be an out of box report to provide summary information about each VM backup that is validated."</i>	Already responded
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19	78	4.A.14	The proposed backup software should be able to integrate with anti-virus software and scan before recovery of VMs and ensure that any infected VM is not restored or restore it with disabled network adapters to prevent any infection to spread through the network	Request Bank to kindly rephrase this point as follows as the current point is vendor specific,. The point suggested below will provide more clarity on this feature and ensure solution is complete. <i>"The proposed backup software should be able to scan the malware present in the backup copies with its built in capabilities in the software and if it requires third party anti virus software then the same should be provided by the bidder to scan the backup copies before recovery of VMs and ensure that any infected VM is not restored by automatically quarantining the infected backup copies"</i>	Already responded
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20	78	4.A.14	Proposed backup software should have the ability to perform staged restores to enable admins to comply to regulations by selectively deleting files / records which should not be restored from the backup copies. This will help in complying to "right to be forgotten "regulations like GDPR, where user data is deleted from restored backup copies in an auditable manner.	We recommend to rephrase this point to, <i>"Proposed backup software should have the ability to selectively delete files which should not be restored from the backup copies without restoring the backup. This will help in complying to "right to be forgotten "regulations like GDPR, where user data is deleted from restored backup copies in an auditable manner."</i>	Already responded
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21	78	4.A.15	As per Bank Policy	<p>1. Can you please share the Backup Frequency and Backup Retention policy to be followed. Because it will be required to size the Backup Server and storage infrastructure. The backup retention policy to be considered while arriving at the backup storage calculations will require following details,</p> <p>Daily - Incremental Backup - Retained for ?? days</p> <p>Weekly - Full Backup - Retained for ?? weeks</p> <p>Monthly - Full Backup - Retained for ?? Months</p> <p>Yearl - Full Backup - Retained for ?? Years</p> <p>Daily change rate to consider is ?? % and YoY growth rate to consider is ?? %</p> <p>2. Can you please mention the years of sizing to be considered while sizing the backup storage?</p>	Already responded
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22	88	2.d	Backup Software Licenses - To be quoted by bidder	Request you to kindly share the Front End capacity/ Source capacity of the data to be backed up. Also, kindly provide the count of physical and virtual machines to be backed up in DC and in DR and in NDR/ NDC	400 TB usable capacity at DC and 400 TB usable capacity at DR to be Backed up
23	57	<p>Technical & Functional Specification</p> <p>3 Storage a) Web, APP & DB</p>	<p>DC AZ1 Prod: 185 TB DC AZ2 Prod: 185 TB</p> <p>DR AZ1 Prod: 185 TB DR AZ2 Prod: 185 TB</p>	Request bank to re-confirm if the requirement is 185TB usable per AZ or it is 370TB usable per AZ since this will be configured in Active-Active Metro configuration and will have mirrored data.	Already responded

24	58	<p>Technical & Functional Specification</p> <p>3 Storage b) Backup</p>	<p>DC:500 TB DR/NDR :500TB Total: 1000 TB</p>	<p>This 500TB capacity requirement is conflicting with 700TB mentioned in page 78 (Backup Storage Specification). Request bank to clarify the capacity requirement.</p>	<p>Corrigendum shall be published</p>
25	60	<p>Rack Guidelines</p>	<p>Dimensions (Height x Width x Depth) 2000 x 600 x 1200 mm (Height should not exceed 2000mm inclusive of base/wheels/standons)</p>	<p>Our Solution/Product require 1280mm rack depth. Hence request bank to accept this request and amed the rack dimension to 1300mm depth.</p>	<p>These are standard guidelines. Bidder to configure as per best practices to ensure SLA guidelines requested by Bank are adherered to</p>

26	63	10	<p>The bidder has to ensure data replication for 3 locations i.e., DC, DR and Near Site (Near DC & Near DR). Replication between DC and DR will be asynchronous manner whereas between DC/DR and Near site will be synchronous manner to achieve zero RPO. However, Bank reserves the right to change any of the methodology and architecture any point of time or as and when required.</p>	<p>For Synchronous replication between DC/DR & nearsite, request bank to confirm the network connectivity link type available.</p>	<p>This clause is indicative only and Synchronous/ Asynchronous replication will be decided with successful bidder depending on Network link.</p>
27	65	23 (Encryption)	<p>Solution should have all data encrypted i.e. Data at Rest, Data in Motion and Data in Memory</p>	<p>Request Bank to clarify on data in memory encryption. Native memory encryption cannot be done at storage level.</p>	<p>Good to have not mandatory</p>
28	73	D. SAN Storage 2 (Cache)	<p>Global cache with minimum 256 GB Cache per controller</p>	<p>Request bank to amend the clause to Global/Metro Cache with minimum 256GB Cache per controller.</p>	<p>Corrigendum shall be published</p>

29	73	D. SAN Storage 3 (Capacity)	Storage should be configured with 150 TB usable capacity with all NVMe drive configuration. Proposed storage should be scalable to more than 1 PB usable capacity	The capacity mentioned here is conflicting with the 185 TB mentioned in page 57 (technical & functional Specifications). Request bank to clarify the exact requirement in terms of capacity.	Corrigendum shall be published
30	73	D. SAN Storage 5 (SAN Switch)	Redundant SAN Switches with at least 24 * 16 /32 Gbps ports. Required FC Cables to connect to servers should be provided by the bidde	Request bank to specify the maximum port requirement for future scalability to ensure right model is proposed in the solution. Also, request bank to specify the Lc-lc fc cable length to be considered in the solution.	Corrigendum shall be published
31	78	B. Backup Storage Specification 2 (Cache)	Global cache with minimum 64 GB Cache per controller	Request bank to amend the clause to Global/Metro Cache with minimum 64GB Cache per controller.	Corrigendum shall be published

32	78	B. Backup Storage Specification 3 (Capacity)	Storage should be configured with 700 TB usable capacity with all SATA / SSD disks. Proposed storage should be scalable to more than 5 PB usable capacity	The capacity mentioned here is conflicting with the 500 TB mentioned in page 58 (technical & functional Specifications). Request bank to clarify the exact requirement in terms of capacity. RFP mentions SATA/SSD in disk type, request bank to clarify if NL-SAS 7.2k rpm drives can be used to configure backup target storage.	Corrigendum shall be published
33	81	Scope of Work 3 (Third-Party Components)	Should be integrated with existing HPE 3PAR StoreServ 20850 (20K) Storage	Request bank to clarify/elaborate the integration of existing HPE 3PAR StoreServ 20850 with new solution.	The requirement is for ensuring archived backup on existing HPE 3PAR StoreServ that Bank is already using Current LTO-7 Tape Drives - 700 (total at DC and DR)
34	20	AWARD CRITERIA AND AWARD OF CONTRACT	i. Applicability of Preference to Make in India, Order 2017 (PPP-MII Order)	Requested Changes: Please remove this as no blade vendor can give Make in India certificate	No Change
35	32	SUBCONTRACTING	As per scope of this RFP, sub-contracting is not permitted.	Requested Changes: Please remove this as all OEMs will be working with their authorised partners / bidders	No Change

36	59	Sizing Guidelines	<p>a. Estimated count based on sizing may not exceed 17 Racks in total. NB: Considering 6 KVA consumable power/10 KVA Rated Power(Dual) three phase AMPS for each rack</p> <p>b. It may vary based on power and cooling requirement available at Data Centre.</p> <p>c. Bidder has to provide detail description based on the solution in bid submission.</p>	<p>Clarification: 6 KVA consumable power/10 KVA Rated Power(Dual) three phase AMPS for each rack looks to be very less. Power requirement of fully populated chassis (i.e. 12 blades per chassis) will be approx. 13KVA for latest 5th Generation CPU. With limited power per rack, lesser number of blades will go in each chassis which will increase rack requirement significantly. Kindly revise the clause suitably</p>	<p>These are standard guidelines. Bidder to configure as per best practices to ensure SLA guidelines requested by Bank are adhered to</p>
37	62	6	<p>a) 99.99% FO wise b) Bidder has to maintain inventory at local place to ensure uptime SLA as per Scope of this RFP</p>	<p>Requested Changes: HPE Offers 6hrs CTR with required spares at their warehouse in Tier1 cities. We would request to remove "local place" from this specification.</p>	<p>No Change</p>

38	62	10	<p>A centralized console for central management and monitoring of the proposed hardware solution at DC, DR and Near Site to be provided by the bidder. The console should have capability to monitor the Data Centre Operation in terms of availability, performance, incidences, ticketing, SLA etc (at each level, ie. OS, Network, Database, Application, Middleware etc).</p>	<p>Requested Changes: Please remove/clarify this specification in view of scope of this infrastructure supply RFP.</p>	<p>Readiness of Infrastructure environment with necessary Software installation (OS, VMware/Virtualization environment, DB,WAS/IHS etc.) by successful Bidder. This includes all required Dashboard and Configuration of various layers as per SOW.</p>
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39	63	11	<p>The bidder has to ensure data replication for 3 locations i.e., DC, DR and Near Site (Near DC & Near DR). Replication between DC and DR will be asynchronous manner whereas between DC/DR and Near site will be synchronous manner to achieve zero RPO. However, Bank reserves the right to change any of the methodology and architecture any point of time or as and when required.</p>	<p>Recommended Specification: The bidder has to ensure data replication for 3 locations i.e., DC, DR and Near Site (Near DC & Near DR). Replication between DC and DR will be asynchronous manner whereas between DC and Near site will be synchronous manner to achieve zero RPO. However, Bank reserves the right to change any of the methodology and architecture any point of time or as and when required.</p>	<p>Synchronous/ Asynchronous replication will be decided with successful bidder depending on Network link and latency.</p>
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40	63	11	<p>The bidder has to ensure data replication for 3 locations i.e., DC, DR and Near Site (Near DC & Near DR). Replication between DC and DR will be asynchronous manner whereas between DC/DR and Near site will be synchronous manner to achieve zero RPO. However, Bank reserves the right to change any of the methodology and architecture any point of time or as and when required.</p>	<p>Clarification: What kind of SFPs(4/8/16/32 Gbps or 10Gbps) are required for Synchronous replication? Long wave or Short wave? Kindly also provide bandwidth and link type between all DC , NDR and DR. Need more details about connectivity between all 3 sites including latency commitments between the sites.</p>	<p>Synchronous/ Asynchronous replication will be decided with successful bidder depending on Network link and latency.</p>
41	63	12	<p>Solution should be Vertical & Horizontally scalable to meet the future growth of the Bank.</p>	<p>Clarification: We would need to understand more on Vertical scalability required for this solution.</p>	<p>No Change</p>

42	63	13	<p>Solution should be able to integrate Internal Network within VM/stack and other applications (Ex-Active Directory, IT Asset Management,etc.) on SBI Connect.</p>	<p>Clarification: We understand scope of this RFP is infrastructure supply as per given specification. Hence any integration with SBI eco system will be out of bidder/OEM scope for this RFP and such integration will be taken care by SBI internal team. Kindly confirm.</p>	No Change
43	63	14	<p>Integrated Dashboards to Monitor Cluster and Individual VM with capability of drilling down to Application/Network/Hardware level</p>	<p>Clarification: We understand scope of this RFP is infrastructure supply as per given specification and VCF licenses will be provided bank(as per sizing guidelines on page60). Hence any integration with SBI eco system will be out of bidder/OEM scope for this RFP and such integration will be taken care by SBI internal team. Kindly confirm.</p>	No Change

44	63	16	<p>Bidder to ensure High Availability at all possible layer (App, Web, DB, Infra) and component level (H/w, S/w, Interconnection) to ensure NSPOF (No Single Point of Failure) by design and deployment</p>	<p>Clarification: We understand scope of this RFP is infrastructure supply as per given specification. Proposed Hardware will be as per RFP requirements will have NSPOF capabilities. However we understand software(OS, App,Web ,DB) supply and deployment will be taken care of SBI/ Software OEM which is not part of this RFP scope. Kindly confirm.</p>	No Change
45	63 - 64	17	<p>Automated delivery of data-center services such as</p> <ul style="list-style-type: none"> a) Compute b) Storage c) Networking d) Backup e) Replication f) Load balancing g) Fault tolerance h) Security i) Firewall j) Deployment of AV, Firmware, Patch(H/w,s/w,OS, Application) k) DR Drill 	<p>Clarification: These capabilities which are asked in this specification are basically feature of cloud management layer. Kindly confirm if supply of cloud management layer is part of RFP scope.</p>	No Change

46	64	17	Built-in replication capability which will enable efficient array-agnostic replication of virtual machine data over the LAN or WAN.	<p>Clarification:</p> <p>We understand scope of this RFP is infrastructure supply as per given specification and VCF licenses will be provided bank(as per sizing guidelines on page60). Hence any VM level replication will be out of bidder/ OEM scope for this RFP and such configuration will be taken care by Bank / Software OEM. Kindly confirm.</p>	No Change
47	64	17	I/O prioritization for virtual workloads to ensure that business critical VMs are not affected due to congestion by other VMs on the same host	<p>Clarification:</p> <p>We understand scope of this RFP is infrastructure supply as per given specification and VCF licenses will be provided bank(as per sizing guidelines on page60). Hence any VM level configuration will be out of bidder/ OEM scope for this RFP and such configuration will be taken care by Bank / Software OEM. Kindly confirm.</p>	No Change

48	64	17	The solution should support coexistence of multiple versions of application, which would be helpful during application upgrade and compatibility check	<p>Clarification:</p> <p>We understand scope of this RFP is infrastructure supply as per given specification. OS and Hypervisor supportability for multiple application versions is scope of OS / Hypervisor Vendor. Kindly remove the clause.</p>	No Change
49	64	18	<p>a) VM Level b) Storage Level c) DB Level: Through Oracle Data Guard</p>	<p>Clarification:</p> <p>We understand scope of this RFP is infrastructure supply as per given specification. Storage level replication will be part of proposed solution. However VM , DB level replication to be taken care by bank / software Vendor. Kindly confirm.</p>	No Change
50	64	20	Storage Virtualization/Metro Cluster deployment capability at Storage level for Active-Active cluster deployment with AZ (Availability Zone) to ensure Zero downtime.	<p>Clarification:</p> <p>RFP is already asking for Storage level 3 way DR solution specified in point 11 on page 63 of RFP. Hence clarify the scope of Active- Active cluster deployment</p>	No Change

51	64	21	<p>Proposed solution should provide life cycle management capabilities as below:</p> <ul style="list-style-type: none">a. Future platform upgrade and patching with single life cycle management for cloud platform solution.b. Physical firmware life cycle management.c. Certificate Management for internal cloud platform solution components	<p>Clarification: These capabilities which are asked in this specification are basically feature of Hypervisor / cloud management layer. Kindly remove this clause as bank is providing license for VCF licenses will be provided bank(as per sizing guidelines on page60).</p>	No Change
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52	64	22	<p>Solution should be capable of software defined Networking capability with following features:</p> <ul style="list-style-type: none"> a. Software defined switching and routing capability. b. Distributed Firewall/Micro-Segmentation for granular security across VMs and container PODs. c. Enterprise defined Load Balancers for App & Web VMs with application traffic analytics and Active-Active deployment capability. 	<p>Clarification: These capabilities which are asked in this specification are basically feature of Hypervisor / cloud management layer. Kindly remove this clause as bank is providing license for VCF licenses will be provided bank(as per sizing guidelines on page60).</p>	<p>This required to be configured and implemented as per SOW of this RFP.</p>
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53	64	23	<p>Solution should have all data encrypted i.e. Data at Rest, Data in Motion and Data in Memory</p>	<p>Clarification: Bank has asked for enterprise storage array which supports Data at Rest . Data in Motion and Data in memory requirement requirement will be done through OS / Hypervisor software provider. Kindly delete the reference to Data in Motion and Data in Memory as this is infrastructure supply RFP.</p>	<p>Solutions required to be implemented as per RFP requirement</p>
54	65	4	<p>Should have at least 32 DIMM slots per server and support up to 4TB of DDR5 4800 MT/s memory.</p>	<p>Recommended Specification: Should have at least 32 DIMM slots per server and support up to 4TB of DDR5 5600 MT/s memory.</p>	<p>Corrigendum shall be published</p>

55	65	4	Should be Software agnostic and Compatible with VMware ESXi Server version 7.0 U2 or later. Also, the hardware should support any version upgrade coming in next 5 years. If hardware supplied by selected OEM is not compatible VMware releases during 5 years from date of commissioning, they need to replace hardware without any additional cost to the Bank.	<p>Recommended Specification:</p> <p>Should be Software agnostic and Compatible with VMware ESXi Server version 7.0 U3 or later. Also, the hardware should support any version upgrade coming in next 5 years. If hardware supplied by selected OEM is not compatible VMware releases during 5 years from date of commissioning, they need to replace hardware without any additional cost to the Bank.</p>	Already responded
56	65	8	Should have atleast 2 * 25 Gbps ports per Blade The server should be provided with card level redundancy	<p>Requested Changes:</p> <p>Please remove this specification as bank has given bandwidth requirement per blade is in specification 14</p>	Corrigendum shall be published
57	65	9	Should provide two FC connectivity by using Converged Network Adapters or Dual port 16/32 Gbps FC HBA	<p>Recommended Specification:</p> <p>Should provide two FC connectivity by using Converged Network Adapters or Dual port 32 Gbps FC HBA</p>	No Change

58	65	14	The bandwidth required for network per server is minimum 6 x 10G per server that must be partitioned across minimum two cards to provide card level redundancy with minimum 30G bandwidth available per card.	Recommended Specification: The bandwidth required for network per server is minimum 8 x 10G per server that must be partitioned across minimum two cards to provide card level redundancy with minimum 40G bandwidth available per card.	Corrigendum shall be published
59	68	5	Should have at least 32 DIMM slots per server and support up to 4TB of DDR5 4800 MT/s memory.	Recommended Specification: Should have at least 32 DIMM slots per server and support up to 4TB of DDR5 5600 MT/s memory.	Corrigendum shall be published
60	68	6	Should have 3* 2 x Dual port 25/40G SFP+ Card.	Clarification: Please specify how many ports are required for each rack server with proper speed as there is no 25/40G card.	Corrigendum shall be published
61	69	1	Same enclosure should support 2 and 4 Processor based blade servers of latest generation of Intel Processor.	Recommended Specification: Same enclosure should support 2 based blade servers of latest generation of Intel Processor.	Corrigendum shall be published

62	70-71	3	<p>Rabale & NDR Site Each enclosure must have total 20 x 10G ports with pair of redundant network modules with 10x 10G uplink ports respectively in each. i.e. 10 x 10G uplink bandwidth must be maintained even after 50% of interconnect failure and without using multi-chassis aggregation OR In case of multi-chassis aggregation (not more than 4 chassis in one set), each master enclosure must have redundant master modules to eliminate single point of failure. The multi-chassis setup should have total 72 x 10G uplink ports with 36 x 10G uplink ports for each master enclosure i.e. 36 x 10G uplink bandwidth must be maintained even after 50% of master interconnect failure for multi-chassis set.</p>	<p>Recommended Specification: Rabale & NDR Site Each enclosure must have total 20 x 10G ports with pair of redundant network modules with 10x 10G uplink ports respectively in each. i.e. 10 x 10G uplink bandwidth must be maintained even after 50% of interconnect failure and without using multi-chassis aggregation OR In case of multi-chassis aggregation (not more than 4 chassis in one set), each master enclosure must have redundant master modules to eliminate single point of failure. The multi-chassis setup should have total 80 x 10G uplink ports with 40 x 10G uplink ports for each master enclosure i.e. 40 x 10G uplink bandwidth must be maintained even after 50% of master interconnect failure for multi-chassis set.</p>	<p>These are standard guidelines. Bidder to configure as per best practices to ensure SLA guidelines requested by Bank are adhered to</p>
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63	71	5	<p>The enclosure must have provision to support internal storage capacity of minimum 50TB usable space using up to maximum 3.84TB size for 12G SAS Mixed Use SSD Drives for capacity storage and additional 10% of Caching drives, should be considered additionally. The usable storage calculated must be using Raid 1 and without any storage efficiencies like deduplication and compression. This is required to be given in one chassis per site.</p>	<p>Clarification: We would need to understand workload for this one chassis per site. Also we would need to understand how many blades will get into this specific Chassis having disks requirement.</p>	<p>These are standard guidelines. Bidder to configure as per best practices to ensure SLA guidelines requested by Bank are adhered to</p>
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64	73		<p>* NOTE: The number of ports required per interconnect has been derived considering the setup which includes 12 servers per chassis. If OEM provides a solution with lesser number of servers per chassis the number of ports required on interconnect must be provided as per the oversubscription, bandwidth and redundancy requirements per chassis.</p>	<p>Clarification: Number of blades per chassis completely depends on how much power your data center vendor gives per rack. 5th Generation CPU, asked in this RFP, will have significant impact on power requirement. We will be able to provide 12 blades per chassis and 2 chassis per rack provided your data center vendor provides required power for that specific rack. We would like to understand if there is any specific number already defined by your data center vendor for per rack power side. Please help us with per site specific complete details of rack, power, connectors, etc so that proper power can be configured with in proposed solution.</p>	<p>These are standard guidelines. Bidder to configure as per best practices to ensure SLA guidelines requested by Bank are adhered to</p>
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65	73		<p>In addition to the count of servers, for Network 1:4 oversubscription has been used whereas for Fibre Channel traffic 1:1 oversubscription is used. OEM can consider 1:2 oversubscription ratio for Fibre Channel in case they provide dual port 32G FC card inside the blade server. The OEM must make sure that the proposed solution must provide dedicated traffic at Chassis level as per the above oversubscription values considered for network and fibre channel traffic.</p>	<p>Clarification: Need more details on these oversubscription part as already specific number of FC and network ports are specified in blade enclosure requirement. We would need to get more details on this oversubscription part.</p>	<p>These are standard guidelines. Bidder to configure as per best practices to ensure SLA guidelines requested by Bank are adhered to</p>
66	73	1 Controller	<p>Active-Active Multicontroller storage with Minimum 2 controllers scalable to 8 within the same cluster</p>	<p>Recommended Specification: Active-Active Multicontroller storage with Minimum 2 controllers scalable to 4 within the same cluster</p>	<p>Corrigendum shall be published</p>

67	73	3 Capacity	Storage should be configured with 150 TB usable capacity with all NVMe drive configuration. Proposed storage should be scalable to more than 1 PB usable capacity	<p>Clarification: As per Sizing Guideline, various capacities are mentioned per site on RFP pages no. 57 and 58. But in this specification, 150TB usable capacity is mentioned. We would need clarification on exact capacities which should be configured?</p>	Corrigendum shall be published
68	78	1 Controller	Active-Active Multicontroller storage with Minimum 4 controllers scalable to 8 within the same cluster	<p>Recommended Specification: Active-Active Multicontroller storage with Minimum 2 controllers scalable to 4 within the same cluster</p>	Corrigendum shall be published
69	78	3 Capacity	Storage should be configured with 700 TB usable capacity with all SATA / SSD disks. Proposed storage should be scalable to more than 5 PB usable capacity	<p>Recommended Specification: Storage should be configured with 700 TB usable capacity with all SATA / SSD disks. Proposed storage should be scalable to more than 2.5PB usable capacity</p>	Corrigendum shall be published

70	78	3 Capacity	Storage should be configured with 700 TB usable capacity with all SATA / SSD disks. Proposed storage should be scalable to more than 5 PB usable capacity	<p>Clarifications:</p> <p>As per Sizing Guideline, backup capacities are mentioned as 500TB per site on RFP pages no. 58. But in this specification, 700TB usable capacity is mentioned. We would need clarification on exact capacities which should be configured?</p>	Corrigendum shall be published
71	79	5 Compression / Deduplication	Storage should natively support Compression and deduplication features to have better storage efficiency for backup	<p>Recommended Specification:</p> <p>Backup solution should support Compression and deduplication features to have better storage efficiency for backup</p>	Corrigendum shall be published
72	79	7 Tape Library	Tape Library with LTO-9 or Latest tapes to be incorporated for long term backup and offsite copy in case part of the Solution offering	<p>Clarification:</p> <p>What is Long term backup and archive policy? How much of data and in how much of time to be moved? What is the expected configuration of Tape Library in terms of drives, slots etc.?</p>	Currently, Bank is taking Disk based Backup using StoreOne on a daily,weekly,monthly,quarterly and yearly basis.

73	85	INDICATIVE SUMMARY OF TEAM DEPLOYMENT	<p>L3 resources for Cloud stack (Virtualization/Cloud/K8s) and Infra Stack should be directly from OEM</p> <p>L2 resources for Infra Stack should be directly from OEM</p>	<p>Recommended Specification: L3 resources for Cloud stack (Virtualization/Cloud/K8s) and Infra Stack should be directly from OEM / bidder</p> <p>L2 resources for Infra Stack should be directly from OEM / bidder</p>	Corrigendum shall be published
74	33 and 127	37(i) and 17 (i)	<p>The maximum aggregate liability of Service Provider, subject to below mentioned sub-clause (iii), in respect of any claims, losses, costs or damages arising out of or in connection with this RFP/Agreement shall not exceed the total Project Cost.</p>	<p>Bidder requests the below modifications.</p> <p>The maximum aggregate liability <u>(including indemnities)</u> of Service Provider, subject to below mentioned sub-clause (iii), in respect of any claims, losses, costs or damages arising out of or in connection with this Agreement shall not exceed the total Project Cost <u>amount paid to the Service Provider by Bank under this Agreement during the 12 months prior to the claim date that gives rise to such liability.</u></p>	<p>Disk backup is getting archived on LTO-7 tape on monthly basis. However, disk based backup remains on disk as per retention policy of the Bank. The policy will be shared to the successful bidder at the time of Implementation.</p>

75	33 and 127	37 (ii) and 17 (ii)	Under no circumstances shall either Party be liable for any indirect, consequential or incidental losses, damages or claims including loss of profit, loss of business or revenue	<p>Bidder requests the below modifications:-</p> <p>Under no circumstances shall either Party be liable for any <i>special, exemplary, punitive</i> or indirect, consequential or incidental losses, damages or claims including loss of profit, loss of business or revenue <i>or loss of anticipated savings, loss of goodwill, business interruption, even if it has been advised of their possible existence</i></p>	No Change
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76	33 and 127	37 (iii) and 17 (iii)	<p>The limitations set forth herein shall not apply with respect to:</p> <p>(a) claims that are the subject of indemnification pursuant to infringement of third party Intellectual Property Right;</p> <p>(b) damage(s) occasioned by the Gross Negligence or Wilful Misconduct of Service Provider,</p> <p>(c) damage(s) occasioned by Service Provider for breach of Confidentiality Obligations.</p> <p>d) Regulatory or statutory fines imposed by a Government or Regulatory agency for non-compliance of statutory or regulatory guidelines applicable to the Bank, provided such guidelines were brought to the notice of Service Provider.</p>	<p>Bidder requests the below modifications</p> <p>The limitations set forth herein shall not apply with respect to:</p> <p>(a) claims that are the subject of indemnification pursuant to infringement of third party Intellectual Property Right;</p> <p>(b) damage(s) occasioned by the Gross Negligence or Wilful Misconduct of Service Provider,</p> <p>(c) damage(s) occasioned by Service Provider for breach of Confidentiality Obligations <u>except to the extent such a breach relates to, or involves, personal information or Bank (or its customer) data or privacy law obligation</u></p> <p>d)Regulatory or statutory fines imposed by a Government or Regulatory agency for non-compliance of statutory or regulatory guidelines applicable to the Bank <u>Service Provider and arising solely due to Gross Negligence of the Service Provider</u>, provided such guidelines were brought to the notice of Service Provider.</p>	<p>The requirement is for ensuring archived backup on existing HPE 3PAR StoreServ that Bank is already using</p>
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77	124	15.1	<p>15.1 Service Provider agrees and hereby keeps the Bank indemnified against all claims, actions, loss, damages, costs, expenses, charges, including legal expenses (Attorney, Advocates fees included) which the Bank may suffer or incur on account of (i) Services Provider's breach of its warranties, covenants, responsibilities or obligations; or (ii) breach of confidentiality obligations mentioned in this Agreement; or (iii) any wilful misconduct and gross negligent acts on the part of employees, agents, representatives or sub-contractors (if allowed) of Service Provider. Service Provider agrees to make good the loss suffered by the Bank.</p>	<p>Bidder requests the below modifications.</p> <p>15.1 Service Provider agrees and hereby keeps the Bank indemnified against all claims, actions, loss, damages, costs, expenses, charges, including legal expenses (Attorney, Advocates fees included) which the Bank may suffer or incur on account of (i) Services Provider's breach of its warranties, covenants, responsibilities or obligations; (ii) breach of confidentiality obligations mentioned in this Agreement <u>except to the extent such a breach relates to, or involves, personal information or Bank (or its customer) data or privacy law obligation</u>; or (iii) any wilful misconduct and gross negligent acts on the part of employees, agents, representatives or sub-contractors (if allowed) of Service Provider. Service Provider agrees to make good the loss suffered by the Bank.</p>	No Change
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78				<p>Bidder requests for the inclusion of new sub-clause 15.2.4 under clause 15 GENERAL INDEMNITY as below</p> <p><u>Each Party has a duty to mitigate the damages and any amounts payable under an indemnity that would otherwise be recoverable from the other Party pursuant to the Agreement by taking appropriate and commercially reasonable actions to reduce or limit the amount of such damages or amounts</u></p>	Current LTO-7 Tape Drives - 400 (total at DC and DR)
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79	35	40 (iv)	<p>Service Provider will abide by the job safety measures prevalent in India and will free the Bank from all demands or responsibilities arising from accidents or loss of life, the cause of which is Service Provider's negligence. Service Provider will pay all indemnities arising from such incidents and will not hold the Bank responsible or obligated.</p>	<p>Bidder requests the below modifications:-</p> <p>Service Provider will abide by the job safety measures prevalent in India and will free the Bank from all demands or responsibilities <i>arising from third party claims due to accidents resulting in bodily injury, or</i> loss of life, the cause of which is Service Provider's <i>Gross-Negligence</i>. Service Provider will pay all indemnities arising from such incidents and will not hold the Bank responsible or obligated.</p>	No Change
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80	32 & 84	34 & 2	<p>34 :SUBCONTRACTING: (Page 32) As per scope of this RFP, sub-contracting is not permitted.</p> <p>Appendix E -----ROLE AND SKILL SETS AND GENERAL STAFFING GUIDELINES (Applicable to all the individuals on boarded in the team deployed)- (Page 84) 2) No subcontracting is allowed.</p>	<p>Bidder wishes to clarify that Bank has requested resources to be deployed from OEM (Page 85 of the RFP). In line with the above point, EIT requests to modify the below clauses</p> <p>34 :SUBCONTRACTING: (Page 32) As per scope of this RFP, sub-contracting is not permitted.</p> <p>Appendix E -----ROLE AND SKILL SETS AND GENERAL STAFFING GUIDELINES (Applicable to all the individuals on boarded in the team deployed)- (Page 84) 2) No subcontracting is allowed.</p>	No Change
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81	164	Pre Contract Integrity Pact- Clause 6	<p>The BIDDER undertakes that it has not supplied/is not supplying similar product/systems or subsystems at a price lower than that offered in the present Bid in respect of any other Ministry/Department of the Government of India or PSU or any other Bank and if it is found at any stage that similar product/systems or sub systems was supplied by the BIDDER to any other Ministry/Department of the Government of India or a PSU or a Bank at a lower price, then that very price, with due allowance for elapsed time, will be applicable to the present case and the difference in the cost would be refunded by the BIDDER to the BUYER, if the contract has already been concluded</p>	<p>Bidder requests the below modifications</p> <p>The BIDDER undertakes that <i>under similar buying conditions</i>, it has not supplied/is not supplying similar product/systems or subsystems under at a price lower than that offered in the present Bid in respect of any other Ministry/Department of the Government of India or PSU or any other Bank and if it is found at any stage that similar product/systems or sub systems was supplied by the BIDDER to any other Ministry/Department of the Government of India or a PSU or a Bank at a lower price, then that very price, with due allowance for elapsed time, will be applicable to the present case and the difference in the cost would be refunded by the BIDDER to the BUYER, if the contract has already been concluded.</p>	No Change
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82				EIT requests to add the below language for the protection of Third party IP under Clause 42. <u>Any third-party IP(s) or product(s) will be provided in accordance with respective third party's terms and conditions.</u>	Already responded
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83	3	<p>1 Schedule of Event</p> <p>25. BANK GUARANTEE:</p>	<p>13 Bank Guarantee - Rs. 1,00,00,000(One Crore only) - Performance Security in form of BG should be valid for 5 year(s) and three months from the effective date of the Contract.</p> <p>25. BANK GUARANTEE: - . The Bank Guarantee is required to protect the interest of the Bank against delay in supply/installation and/or the risk of non-performance of Service Provider in respect of successful implementation of the project; or performance of the material or services sold; or breach of any terms and conditions of the Agreement, which may warrant invoking of Bank Guarantee.</p>	<p>Bidder request for below terms :</p> <ul style="list-style-type: none"> - PBG to be provided only for contract duration - Bank shall invoke the PBG only on occurrence of material breach and after the Bank provides a 30 days cure period to the bidder to rectify the material breach for which the PBG is sought to be invoked. 	No change
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84	37	43. LIQUIDATED DAMAGES:	<p>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</p>	<p>Bidder request for below terms :</p> <ul style="list-style-type: none"> • Liquidated damages should be applicable only in the event of delay in delivery solely attributable to the Bidder's scope of deliverables and should be computed at the rate of 0.5% of the value of the relevant delayed deliverables per each week of delay, subject to the maximum of 5% of the relevant undelivered deliverable values. 	No Change
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85	134	Annexure A	<p>PENALTIES AND OTHER TERMS Delivery of all equipment should be within 6 weeks from date of placing of order. In the event of the any or all equipment(s) not being delivered, installed, tested and commissioned within a period of 12 weeks from date of Purchase Order, a penalty of one (1) percent of the total cost of equipment for each week or part thereof the delay, subject to maximum amount of ten (10) percent of the total cost of equipment will be charged to vendor. This amount of penalty so calculated shall be deducted at the time of making final payment after successful installation and commissioning of hardware.</p>	<p>Bidder request for deletion of this clause since penalty for delayed deliverables is already covered in the Liquidated Damages - Clause 23 of the RFP. This clause seems redundant.</p>	No Change
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86	30 and 104	30 and Appendix L	<p>30. PENALTIES/SLA CONDITIONS: As mentioned in Appendix-L of this RFP</p> <p>APPENDIX-L - Total penalty amount in a given year will be capped to 10% of TCO (as mentioned in Appendix-F) , except clause 17.3 including sub-clause</p>	<p>Bidder request for below terms -</p> <p>- Overall cumulative penalty under this contract / RFP shall not exceed more than 5% of monthly invoice value of Total Resource cost ('TRC') as provided APPENDIX-F - Indicative Price Bid</p>	No Change
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87	83	Appendix E Point 13	<p>APPENDIX-E - 13 Payment schedule</p> <p>a) 25% of Hardware cost of with 3 years of comprehensive warranty on delivery</p> <p>b) 15% of Hardware cost of with 3 years of comprehensive warranty - on installation.</p> <p>c) 50% of Hardware cost with 3 years of comprehensive warranty - on commissioning and go live working condition and CDAC audit or any other mechanism as devised by Bank for certifying the material supplied is as per RFP terms.</p> <p>d) Balance will be paid after 90 days of full implementation.</p> <p>e) Payment for AMC will be made quarterly in arrears.</p>	<p>Bidder request for below payment terms :</p> <ul style="list-style-type: none"> - Hardware/ any other tools licenses – 100% on delivery, - Installation and Commissioning charges– 50% upfront and 50% on completion - Training cost - Bank shall provide payment for any training provided by Bidder on completion of respective training. - AMC/ATS - Payable 100% annually in advance - Ongoing Support Charges/Resource Cost - Quarterly in Advance . <p>Bank may note that the RFP doesn't mention any payment terms w.r.t the items mentioned in 4. INSTALLATION/ COMMISSIONING/SERVICES/TRAINING at Page no. 89 of the RFP.</p>	Corrigendum shall be published
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88	123	Appendix M	<p>14. FEES, TAXES DUTIES & PAYMENTS</p> <p>14.4.1 The Bank will pay properly submitted valid invoices within reasonable period but not exceeding 30 (thirty) days after its receipt thereof. All payments shall be made in Indian Rupees</p>	<p>Bidder request for below term :</p> <ul style="list-style-type: none"> - Bidder will charge interest @1% per month for any delay beyond due date for non-payment of invoices. - Invoice shall be deemed accepted by Bank unless any dispute is raised within 5 business days from date of receipt of invoice by Bank - Bidder request right to suspend the services and/or terminate the contract/SOW, in case of non payment of "Undisputed fees" within 30 days from date of invoice and will not be liable for any service credit or liquidated damages which would otherwise be payable as a result for breach of any obligation under this contract to the extent breach occurred as a result of termination right exercised by Bidder . 	No Change
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89	123	Appendix M	<p>14. FEES, TAXES DUTIES & PAYMENTS</p> <p>14.4.2 The Bank may withhold payment of any product/services that it disputes in good faith, and may set-off penalty amount or any other amount which Service provider owes to the Bank against amount payable to Service provider under this Agreement. However, before levying penalty or recovery of any damages, the Bank shall provide a written notice to Service Provider indicating the reasons for such penalty or recovery of damages. Service Provider shall have the liberty to present its case in writing together with documentary evidences, if any, within 21 (twenty one) days. Penalty or damages, if any, recoverable from Service Provider shall be recovered by the Bank through a credit note or revised invoices. In case Service Provider fails to issue credit note/ revised invoice, the Bank shall have right to withhold the payment or set-off penal amount from current invoices</p>	<p>Bidder request for deletion of this clause since Bank already has other remedy in the form of penalty, Liquidated Damages, Bank Guarantee to protect its interest</p>	No Change
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90	45	46	<p>TERMINATION FOR CONVENIENCE:</p> <p>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).</p> <p>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.</p>	<p>Bidder request for below terms :</p> <ul style="list-style-type: none"> - Bidder proposes mutual termination for convenience rights for the Bidder similar to Bank. - In addition to undisputed fees outstanding till date of termination, Bank shall also pay the any due ATS / AMC for which Bidder has already made payment to OEMs. 	No Change
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91	43	43	<p>TERMINATION FOR DEFAULT: 43.i. The Bank may, without prejudice to any other remedy for breach of Agreement, written notice of not less than 30 (thirty) days, terminate the Agreement in whole or in part: a. If the Service Provider fails to deliver any or all the obligations within the time period specified in the RFP/Agreement, or any extension thereof granted by the Bank. b. If the Service Provider fails to perform any other obligation(s) under the RFP/Agreement. c. Violations of any terms and conditions stipulated in the RFP. d. On happening of any termination event mentioned in the RFP/Agreement.</p>	<p>Bidder request for below deletion / modification in this clause: 43.i. The Bank may, without prejudice to any other remedy for breach of Agreement, written notice of not less than 30 (thirty) days, terminate the Agreement in whole or in part: a. If the Service Provider fails to deliver any or all the obligations within the time period specified in the RFP/Agreement, or any extension thereof granted by the Bank. b. If the Service Provider fails to perform any other obligation(s) under the RFP/Agreement. c. Violations of any terms and conditions stipulated in the RFP. d. On happening of any termination event mentioned in the RFP/Agreement.</p>	No Change
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92	44	46.vi	<p>46.vi - In the event of failure of the Service Provider to render the Services or in the event of termination of Agreement or expiry of term or otherwise, without prejudice to any other right, the Bank at its sole discretion may make alternate arrangement for getting the Services contracted with another vendor.</p> <p>..... During the transition phase, the existing Service Provider shall render all reasonable assistance to the new Service Provider within such period prescribed by the Bank, at no extra cost to the Bank, If existing Service Provider is breach of this obligation, they shall be liable for paying a penalty of 10% of the total Project Cost on demand to the Bank, which may be settled from the payment of invoices or Bank Guarantee for the contracted period or by invocation of Bank Guarantee.</p>	Bidder request for deletion of this clause, as Bank already has remedy in the form of LD, penalty, termination rights, etc to protect its interest	No Change
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93	128	18. CONTINGENCY PLANS & CONTINUITY ARRANGEMENTS.	<p>18. CONTINGENCY PLANS & CONTINUITY ARRANGEMENTS.</p> <p>18.2.2 During the transition phase, the existing Service Provider shall render all reasonable assistances to the new Service Provider within such period prescribed by the Bank, at no extra cost to the Bank, for ensuring smooth switch over and continuity of Services, provided where transition services are required by the Bank or New Service Provider beyond the term of this Agreement, reasons for which are not attributable to Service Provider, payment shall be made to Service Provider for such additional period on the same rates and payment terms as specified in this Agreement. If existing vendor is found to be in breach of this obligation, they shall be liable for paying a penalty of Rs. _____ (10% of the total project cost) on demand to the Bank, which may be settled from the payment of invoices or bank guarantee for the contracted period.</p>	Bidder request for deletion of this clause, as Bank already has remedy in the form of LD, penalty, termination rights, etc to protect its interest	No Change
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94	81	36 APPENDIX-E	<p>36 VALIDITY OF AGREEMENT: The Agreement/ SLA will be valid for the period of 5 year(s). The Bank reserves the right to terminate the Agreement as per the terms of RFP/ Agreement.</p> <p>APPENDIX-E - Term of the Project - Project Schedule; Milestones and delivery locations Installation and commissioning should be completed within 6 weeks of hardware delivery at each location. This Include dates for start and completion of the each phase of the Services, and for delivery of each of the Services/Deliverables with delivery locations</p>	<p>Bidder request for below clarification :</p> <ul style="list-style-type: none"> - Overall contract duration will be for 5 years plus additional period for delivery and installation of network devices as mentioned in the RFP <p>OR</p> <ul style="list-style-type: none"> - Overall contract duration will be for 5 years inclusive of delivery and installation of network devices as mentioned in the RFP 	Already responded
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95	43	46.ii	<p>46. TERMINATION FOR DEFAULT</p> <p>In the event the Bank terminates the Contract in whole or in part for the breaches attributable to Service Provider, the Bank may procure, upon such terms and in such manner as it deems appropriate, software and Services similar to those undelivered and subject to limitation of liability clause of this RFP Service Provider shall be liable to the Bank for any increase in cost for such similar Software Solution and/or Services. However, Service Provider shall continue performance of the Contract to the extent not terminated</p>	<p>Bidder request for below term :</p> <p>- Bidder's liability is limited to incremental cost capped at 10% of the cost of the undelivered systems/services. This clause can be invoked only on termination of contract and only for failure solely attributed to bidder</p>	No Change
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96	24	22. CHANGE IN ORDERS	<p>22. CHANGE IN ORDERS: i. The Bank may, at any time, by a written order given to Service Provider, make changes within the general scope of the Contract in any one or more of the following: (a) Method of shipment or packing; (b) Place of delivery; (c) Quantities to be supplied subject to 25% above or below the originally declared quantities. ii. If any such change causes an increase or decrease in the cost of, or the time required for Service Provider's performance of any provisions under the Contract, an equitable adjustment shall be made in the Contract Price or delivery schedule, or both, and the Contract shall accordingly be amended. Any claims by Service Provider for adjustment under this clause must be asserted within 15 days from the date of Service Provider's receipt of Bank's change order.</p>	<p>Bidder request for below terms : - Any alteration in quantities will be managed through a change management process</p>	No Change
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97	116	6. RESPONSIBILITIES OF SERVICE PROVIDER	6.5 To maintain the hardware for a period of 3 years warranty and further 4 years AMC, as per the terms and conditions of this Agreement.	Bidder request for below modification in this clause : - 6.5 To maintain the hardware for a period of 3 years warranty and further 4 years 2 years AMC, as per the terms and conditions of this Agreement.	Corrigendum shall be published
98	87-91	APPENDIX-F - Indicative Price Bid	* Total Resource cost for 5 Years. Bank may ask the bidder to onboard additional resources in different roles and at different level as mentioned in above table. The Bank shall pay the rates as mentioned in column B for such resources. It will be mandatory on the part of bidder to provide the resources indented for as per the above rates throughout the contract period.	Bidder request for below terms : - Rate per month for resources will vary year on year on account of inflation. Accordingly, Bidder request Bank to provide placeholder to quote yearly rates for resources in commercial Bid Annexure F - Further, any additional resources, rates will be agreed through mutually agreed change management process	No Change
99	24	22	Change in Orders:- "Quantities to be supplied subject to 25% above or below the originally declared quantities."	Bidder has observed that there are 3 clauses at various places in the RFP which talks about the rate validity for repeat order of HW/Equipment upto 25% quantity. In all the 3 clauses, the duration is different. 1. First clause is open ended	Corrigendum shall be published

100	82	8	b) Rate discovered will be valid for two year and if there are requirement Bank may place order for additional Hardware/Equipment up to 25% quantity on discovered price for which RFP is floated.	2. Second clause talks about 2 years 3. Third clause talks about 1 year Bank is requested to make it 2 year as standard.	Corrigendum shall be published
101	185		Scalability Requirements: To be scalable as per Bank's future requirement (vertical and horizontal scalability required). Rate discovered will be valid for one year and if there are requirement Bank may place order for hardware upto 25% quantity for which RFP is floated.		Corrigendum shall be published
102	26	27	Acceptance Test Plan document	Acceptance Test plan to be broadly defined as part of response mentioning that a detailed acceptance test plan will be made before contracting and will be jointly agreed	No Change

103	27	28	Services :- All products required to be deployed by the respective OEM during implementation	Bidder states that SBI should consider amending these clause as " Services :- All products required to be deployed by the SI during implementation". In our view:- 1. Bidder is well equipped & has all necessary skills to install the equipment as asked in the RFP. 2. Availing these services from OEM will unnecessarily increase the financial burden on SBI . 3. Bidder assumes that all Application including DBs, Middleware and any WAS are out of scope of this RFP	No Change
104	61	1	General- Installation and implementation of products should to be done by the respective OEMs		Corrigendum shall be published
105	28	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.	Bidder understanding is that the Operating System upgrades/updates is not in the scope of the bidder. Please confirm	No Change
106	28	v	Service Provider has to support older versions of the OS/firmware/middleware etc. in case the Bank chooses not to upgrade to latest version.	Bidder understanding is that the any OOS/firmware/middleware is not in the scope of the bidder. Please remove this point	No Change

107	30	32	<p>INSPECTION AND TESTING: The Bank reserves the right to carry out pre-shipment inspection or demand a demonstration of the Product on a representative model at Service Provider's location.</p>	<p>Bidder states that in case Bank wants to carry out pre-shipment inspection, Bank will have to specify the equipment which they would like to inspect at the time of releasing the Purchase Order to the successful bidder. Bidder will accordingly arrange this with OEM and their Authorized Distributor/Supplier. Bank may note that the inspection venue will be as per OEM and their Authorized Distributor's availability. Bank will</p>	<p>No Change</p>
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108	31	b	Inspection / pre-shipment acceptance testing of Products as per quality control formats including functional testing and burn-in tests at full load, quality control tests etc., as per the standards / specifications and may be done at factory site of Service Provider by the Bank or its authorized agency before dispatch of Products. In case of failure by Service Provider to provide necessary facility / equipment at his premises, all the cost of such inspection like travel, boarding, lodging and other incidental expenses of the Bank's representatives to be borne by Service Provider.	have to arrange necessary travel and stay arrangements.	No Change
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109	62	8	The Proposed solution should provide configuration management capability by integration with ITSM/ITAM, and any other solution deployed in Bank environment.	Bidder understands that Bank has full fledged IT Service Management , IT Operations Management and necessary automation toolsets in the existing deployment. EIT will leverage Bank's existing toolsets to deliver these mentioned functionalities. As part of the proposed solution, EIT plans to propose only the native tools which comes bundled with the equipment/hardware from the OEM side. Bank to confirm this understanding	No change
110	63	10	A centralized console for central management and monitoring of the proposed hardware solution at DC, DR and Near Site to be provided by the bidder. The console should have capability to monitor the Data Centre Operation in terms of availability, performance, incidences, ticketing, SLA etc. (at each level, i.e.. OS, Network, Database, Application, Middleware etc.).		Solutions required to be configured and implemented as per RFP requirement
111	63	17	Automated delivery of data-centre services such as - Compute, storage, networking		No change

112	64	21	<p>Proposed solution should provide life cycle management capabilities as below:</p> <ul style="list-style-type: none">a. Future platform upgrade and patching with single life cycle management for cloud platform solution.b. Physical firmware life cycle management.c. Certificate Management for internal cloud platform solution components.	No change
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113	63	11	The bidder has to ensure data replication for 3 locations i.e., DC, DR and Near Site (Near DC & Near DR). Replication between DC and DR will be asynchronous manner whereas between DC/DR and Near site will be synchronous manner to achieve zero RPO. However, Bank reserves the right to change any of the methodology and architecture any point of time or as and when required.	Bidder seeks the following clarifications:- 1. What kind of SFPs(4/8/16/32 Gbps or 10Gbps) are required for Synchronous replication? Long wave or Short wave? 2. Kindly also provide sizing of bandwidth, link type and latency commitments with ISP between DC, NDC,NDR and DR.	No change
114	65	22	Solution should be capable of software defined Networking capability with following features:	Bidder requests Bank to delete this as any network equipment or its functionality is not part of the scope of the RFP.	No change
115	84	4	Bank reserves the right to interview all of the professionals to be deployed in the project and reject if not found suitable for the project	Bidder states that Bank may interact with few senior skilled resources after they have been shortlisted and hired. Bidder will define a process and will mutually agree at the time contracting.	No Change

116	85		<p>INDICATIVE SUMMARY OF TEAM DEPLOYMENT:-</p> <ol style="list-style-type: none"> 1. L3 resources for Cloud stack (Virtualization/Cloud/K8s) and Infra Stack should be directly from OEM 2. L2 resources for Infra Stack should be directly from OEM 	<p>Bidder recommends to amend this clause. All resources (L1/L2/L3) will be from bidder and we are well equipped to deliver these services. Bank's ask for taking L2 and L3 resources from OEMs is a deterrent to the essence of this RFP and it will also increase financial burden on the Bank</p>	<p>Corrigendum shall be published</p>
117	103	Point c	<p>The maximum response time for a maintenance complaint from the site of installation (i.e. time required for Vendor's maintenance engineers to report to the installations after a request call / fax /e-mail is made or letter is written) shall not exceed 2 hours.</p>	<p>Bidder states that in Point d at Page No. 103, Bank is referring to a resolution time of 4 hours whereas in the table given on Page no. 143 , Bank asks for 1 hour of resolution time. These 2 SLAs are contradictory. Bidder recommends Bank to keep the resolution time of 6 hours as mentioned in Point (d) and the table on page 143 should be deleted.</p>	<p>Different resolution time based on criticality and ensuring uptim SLA</p>

118	103	Point d	Vendor shall ensure that faults and failures intimated by the Bank as above are set right within 4 hours of being informed of the same. In any case the Equipment should be made workable and available not later than the next working day of the Bank.		Different resolution time based on critically and ensuring uptim SLA
119	143	a) INFRASTRUCTURE SUPPORT METRICS			Different resolution time based on critically and ensuring uptim SLA

120	103	Point g	<p>Penalties for SLA uptime shall be as under:-</p> <ol style="list-style-type: none"> 1. 99.98% to 99.95% - 1% of Total Project Cost* for every occurrence 2. 99.94% to 99.90% - 2% of Total Project Cost* for every occurrence. 3. 99.89% to 99.5% - 3% of Total Project Cost * for every occurrence 4. <99.5% - 5% of Total Project Cost for every occurrence. Also Bank reserves the right to terminate the contract and invoke the PBG. 	<p>Bidder recommends Bank to amend the below Penalties for SLA uptime as follows:-</p> <ol style="list-style-type: none"> 1. 99.98% to 99.95% - 0.05 % of Monthly Resource Cost for every occurrence 2. 99.94% to 99.90% - 0.1 % of Monthly Resource Cost for every occurrence 3. 99.89% to 99.5% - 0.15% of Monthly Resource Cost for every occurrence 4. <99.5% - 0.2 % of Monthly Resource Cost for every occurrence . <p>The monthly resource cost can be derived from the Resource Table given at Page No. 87 of the RFP.</p>	No Change
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121	104	(i)	<p>Preventive maintenance: Vendor shall conduct preventive maintenance (including but not limited to inspection, testing, satisfactory execution of all diagnostics, cleaning and removal of dust and dirt from the interior and exterior of the Equipment, and necessary repair of the Equipment) once within first 15 days of the installation once within the first 15 days of every alternate month during the currency of the Contract on a day and time to be mutually agreed upon.</p>	<p>Bidder recommends that Preventive Maintenance is generally conducted twice a year as per industry standards. Bank to amend the clause accordingly. No OEM allows to interior cleaning of the equipment. Bank is requested to remove this clause</p>	No Change
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122	105	7	<p>If Bank desires to shift the Equipment to a new site and install it thereof, the Vendor shall be informed of the same. The Bank shall bear the reasonable mutually agreed charges for such shifting and Vendor shall provide necessary arrangement to the Bank in doing so. The terms of this RFP, after such shifting to the alternate site and reinstallation thereof would continue to apply and binding on Vendor.</p>	<p>Bidder recommends that any such shifting during the tenure of the contract will be handled through mutually agreed change management process.</p>	<p>No Change</p>
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123	136	(b)	Table under PENALTY NON-AVAILABILITY OF RESOURCES - Medium - No impact on shift management and services but delay in SOW delivery.	Bidder recommends Bank to remove any penalties associated with resource availability due to the following reasons :- 1. Penalizing Bidder on each and every service including SLAs, Resources etc. is a major deterrent to the essence of this RFP. 2. This is a SLA based delivery and Bidder should be measured on relevant SLAs not on the resource availability . Penalties associated with resources are relevant in Time & Material based contracts not SLA based.	No Change
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124	139		Shift supplied systems to an alternative site of its choice. Bank will pay only charges for physical shifting (including transit insurance). No charges will be paid for reconfiguration these equipment's to put in production/use at new site.	Bidder recommends that any such shifting during the tenure of the contract will be handled through mutually agreed change management process.	No Change
125	147	ANNEXURE-F	Submission of RCA(Root Cause Analysis)- >15 days - For 1st to 3rd Year of total contract period.- 0.1% of HWC3YR for each occurrence in a month and part thereof.	Bidder recommends as follows:- Submission of RCA(Root Cause Analysis)- >15 days - Penalty of Rs 200/- per week delay thereof	No Change
126	148	ANNEXURE-F	Table under PENALTY FOR EVERY ITEMS	Bidder recommends to remove this table as this table doesn't define clearly as to what kind of issues will fall under this table . Also it is contradictory to the overall availability SLAs.	Please refer INFRASTRUCTURE SUPPORT METRICS (page no 143)

127	150		Table under PENALTY FOR NON-PERFORMANCE AT HELP DESK	<p>Bidder states that we are not proposing any separate helpdesk as part of the RFP response. The L1/L2/L3 resources managing the infrastructure will be onsite at SBI premises as per RFP ask.</p> <ol style="list-style-type: none">1. Bank is requested to elaborate what is their expectation from this Service desk & its associated SLA2. Bidder recommends Bank to remove the Service Desk component and its associated SLAs and penalties.	Already responded
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128	Pg 189	Detailed Scope of Work - 2 (F) DR Implementation	Department is looking for setting up NDC (Near Site at DC) and NDR (Near Site at DR) to achieve the Zero RPO requirement. The Near Site may/mayn't be at different geographical locations. Vendor will implement the DR plan accordingly as per Bank's policy including time to time changes as applicable	Bidder requests for below clarifications:- 1. How is Data Replication envisaged across DC-NDC-DR-NDR. Kindly elaborate on the required deployment architecture? 2. Please share details of Sync and Async storage replication between sites	Synchronous/ Asynchronous replication will be decided with successful bidder depending on Network link and latency.
129	189		Table (i) & (ii) under Training	Bidder states that any arrangements related to venue, equipment will be provided by SBI in case if they decide to do it at any other place . Also both Trainings will be conducted once during the entire contract period. In case SBI wishes to conduct these trainings more than once , you are requested to specify the frequency. Commercials will be quoted accordingly	No Change

130	178	Schedule 3	Technical and Organizational Data Protection Measures	Bidder states that the clauses mentioned under this schedule are applicable only if the Contractor is delivering the services from their remote centres. In this case, the delivery has to be onsite at SBI premises so this schedule is not applicable to us. Bank is requested to remove this .	No Change
131	Pg 83	Scope of Work and Payment Schedule, Point 11	Bank will adopt Phase wise approach for the implementation instead of Limited Trial / Pilot Requirements.	Scope of this RFP is limited to Delivery and installation of the equipment. Bank is requested to remove the Phase wise approach for the implementation	No Change

132	178		Sweeping clauses in the RFP	Bidder recommends Bank to remove any sweeping clauses in the RFP like 'etc.', 'but not limited to', 'without limitation', 'no additional cost', 'industry standards- when the standards are not defined', 'best practices- where it is not defined' etc. These clauses are very subjective and uncertain. If Bank wishes to re-introduce any such sweeping clause at the time of contracting, the scope of that particular clause will be mutually quantified and agreed.	No Change
133	Pg 81	3. Third-Party Components	Should be integrated with existing HPE 3PAR StoreServ 20850 (20K) Storage	Bank is requested to kindly confirm that what kind of integration is required with existing HPE 3PAR StoreServ 20850	The requirement is for ensuring archived backup on existing HPE 3PAR StoreServ that Bank is already using

134	Pg 134	ANNEXURE-A PENALTIES AND OTHER TERMS	"Delivery of all equipment should be within 6 weeks from date of placing of order. In the event of the any or all equipment(s) not being delivered, installed, tested and commissioned within a period of 12 weeks from date of Purchase Order,....."	Bidder recommends Bank to amend this clause as follows:- " Delivery of all equipment should be within 10 weeks from date of contract signing. Further, Bidder will have 14 weeks to install the equipment . In the event of the any or all equipment(s) not being delivered, installed, tested and commissioned within a period of 24 weeks from date of Purchase Order,....."	No Change
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135	Pg 82	6. Integration / Migration Requirements with existing systems	<p>1. Readiness of Infrastructure environment with necessary Software installation by respective OEM (OS, VMware/ Virtualization environment, DB,WAS/IHS etc.) to Install the applications.</p> <p>2. Integrate with other applications such as PIMS, ITAM, etc. as per Bank requirement</p>	<p>1. The Bank has procured all the software licenses directly from the OEMs and Bank has a direct agreement.Hence OEM will not provide any installation services to the bidder. Bank is requested to arrange for the same directly from OEM.</p> <p>2. Bidder has the capability and necessary experience to install and implement the (OS, VMware/ Virtualization environment, DBs and Middleware for CBS and its associated applications). Request bank to share the detailed Architecture and instances if they want bidder to implement the same.</p>	<p>1. No change 2. Corrigendum</p>
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136	Pg 82	7. Performance Requirements	Uptime requirement is 99.99%	<p>Achieving 99.99% is purely dependent on the architecture having full high availability and no single point of failures. Bank has already provided the bill of material in the RFP which states that Bank has already zeroed down on the architecture. Bidder will have no control on this.</p> <p>99.99% can be given for hardware that is on Cluster/High Availability and not on standalone hardware. Bank is requested to amend this clause accordingly.</p>	No Change
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137	Pg 82	9. Regulatory / Compliance Requirements	<p>As per Bank's Compliance Policy.</p> <p>a) Closure of periodical Audits, security reviews, domestic and foreign regulatory examinations, vendor audit etc. including VA, PT, Application Security review, Code review, Process review, Business continuity review, Comprehensive Security Review (CSR).</p>	<p>Bank to note that the closure timelines will be mutually agreed at the time of contracting. Bank has to amend this clause accordingly.</p>	No Change
138	Pg 82	10. Security Requirements	<p>Bidder should ensure the application and infrastructure complies with Bank's Information Security Policy, Information Technology policy, Cyber Security Policy and additionally country specific policies at all times , which will be shared with the successful bidder in need to know basis.</p>	<p>As this RFP is for the supply of IT hardware and support only, EIT recommends to amend this clause by removing application.</p>	No Change

139	Pg 86	Minimum Qualifications for the Resource	L1 Resource:- Bachelor Degree in IT/Computers for L1 Resource L2/L3 :- BE/B. Tech or MCA or Any Other Equivalent Degree in IT	Bidder recommends to amend this clause as :- L1 Resource:- Any graduate degree or diploma L2/L3 :- BE/B. Tech/BCA/BSc or MCA	No Change
140	Pg 187	(A) Virtualization Stack/ Cloud Deployment and Management:	(A) Virtualization Stack/ Cloud Deployment and Management: > vSAN Deployment as part of Management Domain cluster across DC/DR/Near sites	Bank is requested to kindly confirm that vSAN Deployment is required on which Storage, As there is no hyperconverged infrastructure mentioned in the RFP	No Change
141	Pg 187	(A) Virtualization Stack/ Cloud Deployment and Management:	Virtualization Stack/ Cloud Deployment and Management	Bank is requested to kindly provide the Cluster Detail (Workload and Management), and also total number of VM (App, Web, and DB VMs), Which need to be created on each Cluster	Please refer sizing guidelines. Total no of VMs will be shared with successful bidder at the time of implementation
142	Pg 187	(B) System Integration, Testing & User Acceptance testing	The Vendor should carry out thorough system integration testing with the existing systems and policies as per requirement of the Bank .	SIT and UAT testing is not applicable for this bid as bidder is not responsible for any application deployment. Bank is requested to remove this clause	No Change

143	Pg 190	(c) System Monitoring:	<p>(c) System Monitoring:</p> <ul style="list-style-type: none">• Services Monitoring (OS/DB/APP/WAS/IHS)• Solution/Equipment Availability & Performance Monitoring• Application/DB Monitoring• Scheduled Jobs Monitoring• Backup Monitoring• Automated Custom notifications and Escalations• Reporting on status• Half Yearly Structured report on Capacity status/requirement(for each layer/server) is required for Short term/Long term capacity planning by department (1-3 year)	<p>Our understanding that bidder responsibility is restricted to Hardware Supply, deployment, Monitoring and Management. Request bank to confirm the scope to bidder.</p>	Already responded
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144	Pg 191	(e) Network management (Monitoring and Alerts):	(e) Network management (Monitoring and Alerts): <ul style="list-style-type: none">• Management of IPs.• Coordination with the Network Team.• Management of SAN/NAS/LB equipment. Raising issues with the OEM vendor and arrange for resolution in case of Hardware level failure or any other such issues.	Bidder recommends Bank to remove the below points/services as these are not related to the infrastructure and cloud stack as mentioned in the RFP.	Already responded
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145	Pg 191	(f) Administration configuration and Management of Load balancing systems:	(f) Administration configuration and Management of Load balancing systems: <ul style="list-style-type: none"> • LB configuration as per the application requirement. • Security configuration • WAF configuration • DoS Protection configuration • Cluster configuration • Deployment of AppWall Cluster + Node (Physical or Virtual) • SSL, Compression, Fastview and other such configurations. 	Bidder recommends Bank to remove the below points/services as these are not related to the infrastructure and cloud stack as mentioned in the RFP. Our understanding that bidder responsibility is restricted to Hardware Supply, deployment, Monitoring and Management. Request bank to remove this clause.	Already responded
146	Pg 65	2. HARDWARE A. Blade Server Sr. No 10	The OEM must have a management software which will manage all the servers from single GUI at physical level.	Bidder understands that this functionality can be achieved through VMWare Vcentre provided by Bank. Bank is requested to amend these features accordingly .	Already responded
147	Pg 68	B. RACK SERVER for Management Domain Point 8 - Management	The OEM must have a management software which will manage all the servers from single GUI at physical level.		This required to be configured and implemented as per SOW of this RFP.

148	Pg 134	ANNEXURE-A - PENALTIES AND OTHER TERMS	On-site comprehensive warranty and AMC: The warranty 36 months from date of First FO Go-Live and AMC for further 24 months would be on-site and comprehensive in nature and back to back support from the OEM. Vendor will warrant all the hardware and software against defects arising out of faulty design, materials and media workmanship etc. for a specified warranty period.	The Go-Live is dependent on Bank/its partner who will be doing the Deployment of application on the new Infrastructure and testing carried by Bank. Request the Bank to please change the Warranty is from the Date of supply of Hardware	No Change
149	Pg 73	Point 2 - Table D - SAN Storage Technical Specification and	Global cache with minimum 256 GB Cache per controller	Bank is requested to confirm the required IOPS per Storage also to design the storage solution	Corrigendum shall be published
150	Pg 20	19. AWARD CRITERIA AND AWARD OF CONTRACT:	i. Applicability of Preference to Make in India, Order 2017 (PPP-MII Order)	Bidder requests for a change:- Please remove this as no blade vendor can give Make in India certificate	No Change

151	Pg 59	5. Rack	<p>a. Estimated count based on sizing may not exceed 17 Racks in total. NB: Considering 6 KVA consumable power/10 KVA Rated Power(Dual) three phase AMPS for each rack</p> <p>b. It may vary based on power and cooling requirement available at Data Centre.</p> <p>c. Bidder has to provide detail description based on the solution in bid submission.</p>	<p>Clarification: 6 KVA consumable power/10 KVA Rated Power(Dual) three phase AMPS for each rack looks to be very less. Power requirement of fully populated chassis will be approx. 10KVA for latest 5th Generation CPU. With limited power per rack, lesser number of blades will go in each chassis which will increase rack requirement significantly. Kindly revise the clause suitably</p>	<p>These are standard guidelines related to number of Racks and Power. Bidder to configure as per best practices and optimum utilization of the infrastructure offered to ensure SLA guidelines requested by Bank are adhered to.</p>
152	Pg 63	1. General, Point 12	Solution should be Vertical & Horizontally scalable to meet the future growth of the Bank.	<p>Clarification: We would need to understand more on Vertical scalability required for this solution.</p>	No Change

153	Pg 63	1. General, Point 13	Solution should be able to integrate Internal Network within VM/stack and other applications (Ex-Active Directory, IT Asset Management, etc.) on SBI Connect.	<p>Clarification:</p> <p>We understand scope of this RFP is new infrastructure supply and deployment as per given specification. Hence any integration with SBI eco system will be out of bidder scope for this RFP and such integration will be taken care by SBI internal team. Kindly confirm.</p>	No Change
154	Pg 63	1. General, Point 14	Integrated Dashboards to Monitor Cluster and Individual VM with capability of drilling down to Application/Network/Hardware level	<p>Clarification:</p> <p>We understand scope of this RFP is new infrastructure supply and deployments per given specification and VCF licenses will be provided by bank(as per sizing guidelines on page60). Hence any integration with SBI eco system will be out of bidder/OEM scope for this RFP and such integration will be taken care by SBI internal team. Kindly confirm.</p>	This required to be configured and implemented as per SOW of this RFP.

155	Pg 63	1. General, Point 16	Bidder to ensure High Availability at all possible layer (App, Web, DB, Infra) and component level (H/w, S/w, Interconnection) to ensure NSPOF (No Single Point of Failure) by design and deployment	Clarification: We understand scope of this RFP is new infrastructure supply and deployment as per given specification. Proposed Hardware will be as per RFP requirements will have NSPOF capabilities. However we understand software(OS, App,Web ,DB) supply and deployment will be taken care of SBI/ Software OEM which is not part of this RFP scope. Kindly confirm.	No change
156	Pg 65	2A.Blade Server Point No 8	Should have atleast 2 * 25 Gbps ports per Blade The server should be provided with card level redundancy	In page 65 on Point no 8 RFP has asked for 2 * 25 Gbps ports per Blade server. The max bandwidth available will be 25Gbps. While we will populate 2 cards to provide card level redundancy, the total bandwidth available across 2 cards will not be	Corrigendum shall be published

157	Pg 65	2A.Blade Server Point No 14	The bandwidth required for network per server is minimum 6 x 10G per server that must be partitioned across minimum two cards to provide card level redundancy with minimum 30G bandwidth available per card.	more than 50Gbps where the ask in point no 14 here is for 6 x 10G per server which total to 60Gbps. Request you to please provide clarity on bandwidth requirement .	Corrigendum shall be published
158	Pg 68	2A.Rack Server Point no 6	Should have 3* 2 x Dual port 25/40G SFP+ Card.	Clarification: 10/25Gbps cards supports SFP+ transceivers whereas 40Gb or 100Gb cards support QSFP transceivers. Request you to please change it to dual port 10/25Gbps card. Also, confirm the number of cards to be configured per server.	Corrigendum shall be published
159	Pg 69	2C.Blade Enclosure Point 1	Same enclosure should support 2 and 4 Processor based blade servers of latest generation of Intel Processor.	Intel has launched new family of processors that doesn't support scalable processor so there is no roadmap of 4 socket blade server. Request you to remove support of 4 processor blade server	Corrigendum shall be published

160	Pg 70-71	2C.Blade Enclosure Point 1	<p>Rabale & NDR Site Each enclosure must have total 20 x 10G ports with pair of redundant network modules with 10x 10G uplink ports respectively in each. i.e. 10 x 10G uplink bandwidth must be maintained even after 50% of interconnect failure and without using multi-chassis aggregation OR In case of multi-chassis aggregation (not more than 4 chassis in one set), each master enclosure must have redundant master modules to eliminate single point of failure. The multi-chassis setup should have total 72 x 10G uplink ports with 36 x 10G uplink ports for each master enclosure i.e. 36 x 10G uplink bandwidth must be maintained even after 50% of master interconnect failure for multi-chassis set.</p>	<p>Recommended Specification: Rabale & NDR Site Each enclosure must have total 20 x 10G ports with pair of redundant network modules with 10x 10G uplink ports respectively in each. i.e. 10 x 10G uplink bandwidth must be maintained even after 50% of interconnect failure and without using multi-chassis aggregation OR In case of multi-chassis aggregation (not more than 4 chassis in one set), each master enclosure must have redundant master modules to eliminate single point of failure. The multi-chassis setup should have total 80 x 10G uplink ports with 40 x 10G uplink ports for each master enclosure i.e. 40 x 10G uplink bandwidth must be maintained even after 50% of master interconnect failure for multi-chassis set.</p>	<p>These are standard guidelines. Bidder to configure as per best practices to ensure SLA guidelines requested by Bank are adhered to</p>
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161	Pg 71	2C.Blade Enclosure Point 5	<p>The enclosure must have provision to support internal storage capacity of minimum 50TB usable space using up to maximum 3.84TB size for 12G SAS Mixed Use SSD Drives for capacity storage and additional 10% of Caching drives, should be considered additionally. The usable storage calculated must be using Raid 1 and without any storage efficiencies like deduplication and compression. This is required to be given in one chassis per site.</p>	<p>Clarification: Blade chassis can only accommodate servers, interconnect switches, PSU and fans. It cannot provide and configure any external SAN storage.</p> <p>We would need to understand workload for this one chassis per site. Also we would need to understand how many blades will get into this specific Chassis having disks requirement.</p>	<p>These are standard guidelines. Bidder to configure as per best practices to ensure SLA guidelines requested by Bank are adhered to</p>
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162	Pg 73	**Note on Blade Enclosure	<p>* NOTE: The number of ports required per interconnect has been derived considering the setup which includes 12 servers per chassis. If OEM provides a solution with lesser number of servers per chassis the number of ports required on interconnect must be provided as per the oversubscription, bandwidth and redundancy requirements per chassis. In addition to the count of servers, for Network 1:4 oversubscription has been used whereas for Fiber Channel traffic 1:1 oversubscription is used. OEM can consider 1:2 oversubscription ratio for Fiber Channel in case they provide dual port 32G FC card inside the blade server. The OEM must make sure that the proposed solution must provide dedicated traffic at Chassis level as per the above oversubscription values considered for network and fiber channel traffic.</p>	<p>Clarification: 5th Generation CPU, asked in this RFP, will have significant impact on power requirement. We would like to understand if there is any specific number of blades already defined by your data center vendor for per rack power side. Please help us with per site specific complete details of rack, power, connectors, etc. so that proper power can be configured with in proposed solution. Blade servers specifications has already asked for ports and uplinks required per chassis. Also, as RFP has asked for both options - separate ethernet or multi chassis, the number of uplinks and oversubscription will depend on solution configured. We would need to get more details on this oversubscription part.</p>	<p>These are standard guidelines. Bidder to configure as per best practices to ensure SLA guidelines requested by Bank are adhered to</p>
163	Pg 73	Hardware Technical Specification - Section D (SAN Storage)	Active-Active Multicontroller storage with Minimum 2 controllers scalable to 8 within the same cluster	Recommended Specification: Active-Active Multicontroller storage with Minimum 2 controllers scalable to 4 within the same cluster	Corrigendum shall be published

164	Pg 73	Hardware Technical Specification - Section D (SAN Storage)	Storage should be configured with 150 TB usable capacity with all NVMe drive configuration. Proposed storage should be scalable to more than 1 PB usable capacity	Clarification: As per Sizing Guideline, various capacities are mentioned per site on RFP pages no. 57 and 58. But in this specification, 150TB usable capacity is mentioned. We would need clarification on exact capacities which should be configured on each Storage?	Corrigendum shall be published
165	Pg 79	B. Backup Storage Specification Point 5	Storage should natively support Compression and deduplication features to have better storage efficiency for backup	Recommended Specification: Backup solution should support Compression and deduplication features to have better storage efficiency for backup	Corrigendum shall be published

166	Pg 79	B. Backup Storage Specification Point 7	Tape Library with LTO-9 or Latest tapes to be incorporated for long term backup and offsite copy in case part of the Solution offering	<p>Clarification: What is Long term backup and archive policy? How much of data and in how much of time to be moved? What is the expected configuration of Tape Library in terms of drives, slots etc.? Also please specify the quantity of Tape Library on each Site</p>	<p>Currently, Bank is taking Disk based Backup using StoreOne on a daily,weekly,monthly,quarterly and yearly basis.</p> <p>Disk backup is getting archived on LTO-7 tape on monthly basis. However, disk based backup remains on disk as per retention policy of the Bank. The policy will be shared to the successful bidder at the time of Implementation.</p> <p>The requirement is for ensuring archived backup on existing HPE 3PAR StoreServ that Bank is already using</p> <p>Current LTO-7 Tape Drives - 400 (total at DC and DR)</p>
167	57 & 58	Sizing Guidelines - Point 3 (Storage)	DC AZ1 & AZ2, DR AZ1 & AZ2	<p>Please elaborate on the AZ1 and AZ2. How will this be implemented. Will there be any data replication/copy/migration between AZ1 & AZ2</p>	<p>AZ1 and AZ2 are to ensure redundant infrastructure availability in active active mode.</p>

168	57 & 58	Sizing Guidelines - Point 3 (Storage)	DC AZ1 & AZ2, DR AZ1 & AZ2	Can the AZ1 & AZ2 be combined into a single FC SAN storage with 370 TB capacity (185 + 185 in one storage)?	Further details will be shared with the shortlisted bidder after RFP
169	Pg 57 & 58	Sizing Guidelines - Point 3 (Storage)	DC AZ1 & AZ2, DR AZ1 & AZ2, NDR. NDC, DC Pre-Prod, DC Non-Prod	Please elaborate on the Performance requirement for the capacity asked	Already responded
170	Pg 64	General - Technical Specifications -	Replication - a) VM Level b) Storage Level c) DB Level: Through Oracle Data Guard	Kindly share details about the data replication - - How much will be VM level replication and data changes per hour - What will be the RPO and RTO for VM level replication Similar details required for Storage replication	Ask is to have capability of replication across DB, Storage and VM level Further details will be shared with the shortlisted bidder after RFP
171	Pg 64	1. GENERAL Point no 20	Storage Virtualization/Metro Cluster deployment capability at Storage level for Active-Active cluster deployment with AZ (Availability Zone) to ensure Zero downtime.	Please share details about the deployment architecture / functional requirements. - Is there a need to deploy VMWare based Metro Cluster between DC-NDC and DR-NDR - Will the database be part of the Metro Cluster	AZ1 and AZ2 are to ensure redundant infrastructure availability in active active mode.

172	Pg 78	Hardware Technical Specification - Section B. (Backup Storage Specification)	Active-Active Multicontroller storage with Minimum 4 controllers scalable to 8 within the same cluster	Please elaborate on the requirement of an Enterprise class, Multi-Controller, Controller-Scalable storage for Backups.	No Change, please refer corrigendum
173	Pg 78	Hardware Technical Specification - Section B. (Backup Storage Specification)	Global cache with minimum 64 GB Cache per controller	Global Cache & Multi-Controller architecture are typically used for Mission Critical workloads and not for Backups. Please clarify the requirement and need to global cache and multi-controller architecture for backup.	No Change
174	Pg 78	Hardware Technical Specification - Section B. (Backup Storage Specification)	Storage should be configured with 700 TB usable capacity with all SATA / SSD disks. Proposed storage should be scalable to more than 5 PB usable capacity	The capacity asked here is 700 TB, this does not match with capacity asked earlier (page 58 : DC 500 TB, DR 500 TB total 1000 TB)	Corrigendum shall be published

175	Pg 187	Detailed Scope of Work - 2 (A) Virtualization Stack/ Cloud Deployment and Management	Workload Domain - App and Web Clusters to be deployed with internal storage and VSAN architecture across Availability Zones (Rack) within each site. Database clusters to be deployed with external storage.	Please elaborate on the capacity required using vSAN and capacity required using external storage. Please provide the breakups for DC, DR, NDC, NDR, Pre-Prod (DC Site) and Non-Prod (DC Site)	Please refer Corrigendum
176	Pg 190	(b) Storage Management:		Please share breakup of number of hosts in vSAN cluster and number of hosts connected to external storage	Please refer Corrigendum
177	Pg 57	Sizing guidelines - Blade servers	DC: 220 NDC: 35 DR/NDR: 128 Total: 383	Request you to please provide the breakup of servers for App, web and DC workload at DC, DR/NDR, NDC site.	No Change
178	Pg 57	Sizing guidelines - Blade servers	DC: 220 NDC: 35 DR/NDR: 128 Total: 383	RFP has asked to configure App and web workload on VMWare vSAN. It is suggested to configure app and web on rack form factor as blade servers can only scale to 6 drives per server whereas for vSAN configuration more number if internal drives are required per server.	No Change

179	Pg 66	Blade Servers - SAN connectivity	Should provide two FC connectivity by using Converged Network Adapters or Dual port 16/32 Gbps FC HBA	RFP has asked for ethernet cards and here the ask is for converged adapter. Request you to please confirm if we have to configure converged adapter or configure separate ethernet and FC HBA adapter	No change
180	Pg 70	Blade Chassis - Blade Server Ethernet Interconnect	Interconnect should have switching capability with at least 9000 MTU to support Jumbo Frames. Redundant network modules must be stacked over minimum of two 100G links	Chassis will be populated with required ethernet switches to provide 100Gb uplinks. Hope the understanding is correct	No Change

181	Pg 71	Blade chassis -*Blade Server FC Interconnect	The enclosure must have redundant Fiber Channel interconnect modules with minimum 6 x 32Gbps Uplink Ports to the SAN Switch i.e., 6 x 32G uplink bandwidth must be maintained even after one interconnect failure. Each module should be fully licensed to use all available ports. All required licenses to ensure interoperability with Bank's existing fabric must be provide	RFP has asked for converged switches and fiber switches both. If FC switches are configured in chassis, do we still need to provide converged switches as well	These are standard guidelines. Bidder to configure as per best practices to ensure SLA guidelines requested by Bank are adhered to
182	Pg 189		Data migration	Any data migration scope, if yes bank is requested to provide the detail on the same	No data migration

183	Pg 78	Ransomware Protection	<p>The backup stored at D2D hardware should be immutable from Ransomware or equivalent attack with below scenario- In case the Media agent is offered using Windows/ RH Linux the mount point should be protected against Ransomware attacks like file encryptions, formatting of disk etc.</p>	<p>Pl clarify if Bank needd to protect backed up from below scenario as well? Once the retention policy is enabled/defined on offered D2D hardware then system must not allow deletion/modification of backed up data even by the administrator of both Backup software and D2D system, to protect it against destructive ransomware?</p>	Please refer Corrigendum
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184	Pg 78	RPO/ RTO and Recovery Assurance	Proposed backup software should be able to Harden the Linux/OS Repository. This service will prevent backup copies of data from any corruption or ransomware attacks.	In order to prevent backup copies of data from any corruption or ransomware attack, backup solution must have mechanism to restrict any date and time change of the system. This protects against any accidental or intentional expiration of data through change in the Network Time internally or externally to the system. Kindly Clarify and request to add the same in specifications?	Please refer Corrigendum
185	Pg 78	RPO/ RTO and Recovery Assurance	Backup software should support instant file share recovery in NAS storages to allow users to access files fast after disaster.	Bidder states that this feature restricts some of the Industry leading OEMs to participate with the SI. Bank is requested to remove this	Backup software should have recovery assurance feature
186	Pg 78	Retention	As per Bank Policy	PI provide the bank retention policy with data size to be backed up to sized the solution	No Change

187		B. Backup Storage Specification	Cache - Global cache with minimum 64 GB Cache per controller	Bank has not specified any backup throughput performance ask like e.g. 50TB/hr. with public reference document for backup workload throughput, Kindly clarify	Corrigendum shall be published
188	59	Rack	a. Estimated count based on sizing may not exceed 17 Racks in total. NB: Considering 6 KVA consumable power/10 KVA Rated Power(Dual) three phase AMPS for each rack	The power consumption per chassis will depend on server configuration. The processors TDP has increased for Intel processors with latest 5th generation launch. So overall consumption will depend on processor, memory and drives configured.	These are standard guidelines. Bidder to configure as per best practices to ensure SLA guidelines requested by Bank are adhered to

189	65	23. Encryption	Solution should have all data encrypted i.e. Data at Rest, Data in Motion and Data in Memory	Bank has asked for enterprise storage array which supports Data at Rest . Data in Motion and Data in memory requirement will be done through OS / Hypervisor software provider. Bank is requested to kindly remove the reference to Data in Motion and Data in Memory as this is infrastructure supply RFP.	Already responded
190	82	appendix E point 6	Integration / Migration Requirements with existing systems	Bidder understands that the integration requirements are limited to Storage as per RFP. Bank to clarify. Bank is request to remove Migration from this scope as Migration is out of scope of this RFP	<ol style="list-style-type: none"> 1. Intigration as per SOW 2. No data migration

191	54	Appendix- B Point no 03	The Bidder must have an average turnover of minimum Rs. 400 crore during last 03 (three) financial year(s) i.e. FY 2021-2022, FY2022-2023 and FY 2023-2024. Copy of the audited financial statement for required financial years. (Certificate from statutory auditor for preceding/current 2023-2024 year may be submitted.)	Bidder request the bank to kindly change the clause as :- "The Bidder must have an average turnover of minimum Rs. 400 crore during last 03 (three) financial year(s) i.e. FY 2020-2021 FY 2021-2022 & 2022-2023. Copy of the audited financial statement for required financial years (Certificate from statutory auditor for preceding/current 2022-2023 year may be submitted.)	No Change
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192	54	Appendix- B Point no 04	<p>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</p> <p>Copy of the audited financial statement along with profit and loss statement for corresponding years and / or Certificate of the statutory auditor</p>	<p>Bidder requests the bank to kindly change the clause as 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</p> <p>Copy of the audited financial statement along with profit and loss statement for corresponding years (FY 2020-2021 FY 2021-2022 & 2022-2023) and / or Certificate of the statutory auditor</p>	No Change
193	55	Appendix- B Point no 06	<p>The Bidder (including its OEM, if any) should either be Class-I or Class-II local supplier as defined under this RFP.</p>	<p>Bidder request the bank to consider Appendix - I signed by authorised signatory for local content percentage at the time of bid submission.</p>	No Change

194	64	Appendix - C " Technical & Functional Specifications"	<p>Automated delivery of data-centre services such as</p> <ul style="list-style-type: none"> a) Compute b) Storage c) Networking d) Backup e) Replication f) Load balancing g) Fault tolerance h) Security i) Firewall j) Deployment of AV, Firmware, Patch(H/w,s/w,OS, Application) k) DR Drill 	<p>Current RFP is only for supply of infra hardware and management. Assume that SOC services are out of scope of this RFP. Please confirm</p> <p>If SOC services are in scope, please provide approximate number of users (Internal/External) who is going to access the data centre services/servers.</p> <ul style="list-style-type: none"> i. Can we assume that all environment security tools should be in HA mode pairs? ii. All in-scope Tools can be managed individually or must have central console to manage individual security tool/technology? iii. Features of Firewall that should be enabled? iv. Dedicated IPS/IDS is mandatory or firewall inbuilt IPS suffice the requirement. 	<p>These are standard guidelines. Bidder to configure as per best practices to ensure SLA guidelines requested by Bank are adhered to</p>
195	64	Appendix - C " Technical & Functional Specifications"	Sizing Guidelines	Please provide segregation of all servers based on the operating system (Windows, Linux etc.)	No Change

196	193	(H) Service delivery and control requirements:	Vendor has to carry out all the necessary testing required for IS audits, SOC alerts, VA/PT on a periodic basis and has to cooperate in the process, adhere to the recommendations and arrange for closure of findings if any raised	Current RFP is only for supply of infra hardware and management. Assume that VA/PT is out of scope. If VA/PT is in scope for the proposed Datacentre, then please confirm if any other asset/object which need to consider apart from the RFP requirement set in APPENDIX-C	These are standard guidelines. Bidder to configure as per best practices to ensure SLA guidelines requested by Bank are adhered to
197	194	(H) Service delivery and control requirements:	Log Analysis: The server log analysis would encompass the real-time monitoring of the server, logs. These logs would play an important role in the detection of malicious activities. In case of a malicious activity the same should be alerted to the Bank and intrusion management procedure would be triggered.	Is it OK to onboard SBI's security logs to leveraged SIEM instance? OR should the MSP consider a dedicated SIEM solution? Please confirm. It is assumed that hardware, including OS and its management to host the SIEM loggers will be provided by SBI according to the specs provided by MSP. Please confirm. (Logger software will be provided by MSP)	These are standard guidelines. Bidder to configure as per best practices to ensure SLA guidelines requested by Bank are adhered to

198	28	28. Services	vii. All product updates, upgrades & patches shall be provided by Service Provider free of cost during warranty and AMC/ ATS/ S&S period.	Bank is requested to remove "Upgrade" form this this clause. Anything above RFP ask will be on Change request basis	No Change
199	28	28. Services	ix. Service Provider shall keep the Bank explicitly informed the end of support dates on related Products including embedded software/ OS/ middleware etc should ensure support during warranty and AMC/ATS/S&S	The Bank has procured all the software licenses directly from the OEMs and they have a direct agreement. Bank is requested to remove this clause accordingly	No Change
200	28	29. WARRANTY AND ANNUAL MAINTENANCE CONTRACT	Service Provider shall support the Product and its associated items/components including OS/firmware during the period of warranty and AMC (if included in the RFP) as specified in Scope of Work in this RFP.	OS Support is out of scope of this RFP ,bidder requests this clause be deleted.	No Change

201	35	40. SERVICE PROVIDER'S OBLIGATIONS:	vii. Service Provider shall report the incidents, including cyber incidents and those resulting in disruption of service and data loss/ leakage immediately but not later than one hour of detection.	As this RFP is for the supply of IT hardware and support only, bidder recommends to amend this clause by removing application.	No Change
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202	36	41. TECHNICAL DOCUMENTATION:	<p>i. Service Provider shall deliver the following documents to the Bank for every hardware / firmware / software including third party software before software/ service become operational, which includes, user manuals, installation manuals, operation manuals, design documents, process documents, technical manuals, functional specification, software requirement specification, on-line tutorials/ computer based tests, system configuration documents, system/database administrative documents, debugging/diagnostics documents, test procedures etc.</p>	<p>As this RFP is for the supply of IT hardware and support only, bidder recommends to amend this clause by removing below from the scope:</p> <p>process documents, technical manuals, functional specification, software requirement specification, on-line tutorials/ computer based tests, system configuration documents, system/database administrative</p>	<p>These are standard guidelines. Bidder to deliver as per SOW.</p>
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203	65		<p>Solution should be capable of software defined Networking capability with following features:</p> <ul style="list-style-type: none">a. Software defined switching and routing capability.b. Distributed Firewall/Micro-Segmentation for granular security across VMs and container PODs.c. Enterprise defined Load Balancers for App & Web VMs with application traffic analytics and Active-Active deployment capability.	<p>Bank is requested to remove this clause because as per this RFP this clause is out of scope</p>	<p>Already responded</p>
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204	84	ROLE AND SKILL SETS AND GENERAL STAFFING GUIDELINE	Professionals have to work in 24x7x365 kind of environment (except specifically mentioned) and should be ready to work in shifts. The team should be adequate to ensure the unhindered 24x7x365 operations and support. Each shift team should have one team lead/shift in charge, it should be a L2/L3 resource.	No of resources asked by Bank will not be sufficient to manage 24x7x365 onsite support	Corrigendum shall be published
205	84	ROLE AND SKILL SETS AND GENERAL STAFFING GUIDELINE	In view of implementing new technologies and existing applications upgrade to new technologies, Bank expects professional to constantly keep upgrading their skills.	Application is not part of this RFP. Bank is requested to remove this clause.	No Change

206	92	Appendix G	2. We also undertake that in respect of licensed operating systems and other software utilities to be supplied, the same will be sourced from authorized sources and supplied with Authorized License Certificate (i.e. Product keys on Certification of Authenticity in case of Microsoft Windows Operating System)	The Bank has procured all the software licenses including OS, directly from the OEMs and they have a direct agreement. Bank is requested to remove this clause accordingly	No Change
207	102	appendix L - Other Terms and Penalties	On-site comprehensive warranty and AMC: The warranty 36 months from date of First FO Go-Live and AMC for further 24 months	The Go-Live is dependent on Bank/its partner who will be doing the Deployment of application on the new Infrastructure and testing carried by Bank. Request the Bank to please change the Warranty is from the Date of supply of Hardware	No change

208	104	appendix L - Other Terms and Penalties - Uptime Range	<p>*Shall be Calculated on Pro-rata basis, in case only selective FO is down Example: Let Total Project Cost = X Impacted FO: 2 So, in case of S.No. 2 Penalty Amount = [((X * 3 / 100) / 24) * 2] / 12 (Considering 24 FO</p>	Bidder is requested Bank to kindly explain the X*3 (Significance of 3)	Corrigendum shall be published
209	105	appendix L - Other Terms and Penalties - Uptime Range	<p>5. Any worn or defective parts withdrawn from the Equipment and replaced by Vendor shall become the property of Vendor and the parts replacing the withdrawn parts shall become the property of Bank. Notwithstanding anything contained contrary, if any hard disk or storage device is required to be replaced, the same shall not be handed over to vendor and same will continue to remain in possession of the Bank.</p>	Faulty Hard disk and other parts after replacement with new one are property of OEM. Bank is requested to remove this clause accordingly	No Change

210	116	APPENDIX-M Service Level Agreement - 6. RESPONSIBILITIES OF SERVICE PROVIDER	b. Service Provider shall ensure to filter all phishing / spamming / overflow attacks in order to ensure availability and integrity on continuous basis.	This is Out of Scope of this RFP. Bank is requested to remove this clause	No Change
211	116	APPENDIX-M Service Level Agreement - 6. RESPONSIBILITIES OF SERVICE PROVIDER	c. Service Provider shall be responsible to provide Data Dictionary in a format provided by the Bank. During the term of this Agreement, such a format may be revised by the Bank as per the requirements. Service Provider shall capture all the fields in Data Dictionary format and keep the same always updated during the term of this Agreement.	Data Dictionary is part of the Application, which is out of scope of this RFP	These are standard guidelines. Bidder to deliver as per SOW.

212	120	APPENDIX-M Service Level Agreement - 10. LIQUIDATED DAMAGES	If Service Provider fails to deliver product and/or perform any or all the Services within the stipulated time, schedule as specified in this Agreement, the Bank may, without prejudice to its other remedies under the Agreement, and unless otherwise extension of time is agreed upon without the application of liquidated damages, deduct from the Project Cost, as liquidated damages a sum equivalent to 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	If Service Provider fails to deliver product and/or perform any or all the Services within the stipulated time, schedule as specified in this Agreement, the Bank may, without prejudice to its other remedies under the Agreement, and unless otherwise extension of time is agreed upon without the application of liquidated damages, deduct from the Project Cost, as liquidated damages a sum equivalent to 0.5% of costs of undelivered portion/hardware 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	No Change
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213	136	APPENDIX-M Service Level Agreement - PENALTY NON-AVAILABILITY OF RESOURCES	PENALTY NON-AVAILABILITY OF RESOURCES	The Bank has not shared the number of resources required shift-wise and capability wise . The bidder will be able to plan , factor and deploy the resources basis the same. Kindly Confirm	Corrigendum shall be published
214	139	APPENDIX-M Service Level Agreement -	1 Supply, installation, testing, commissioning and maintenance of computer hardware along with operating system and other peripherals/software components, with warranty period of 3 years and further 2 years AMC	Please confirm whether Operating system management is part of bidder's scope	Yes, Initially part of implementation

215	189	(G) Facility Management Services & Onsite support	(a) Systems / Infrastructure Management:	Our understanding is that bidder has to do hardware management of the supplied hardware only. Request Bank to confirm the scope that is mentioned in details in this area. If the Bank wants to do all the scope mentioned in this section request to share the following <ol style="list-style-type: none">1. Detailed Baseline of all areas with the version and type2. Details technology landscape3. Request Bank to include the FMS resources inline with the support required including coverage and location	No Change
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216	54	Appendix-B.3	The Bidder must have an average turnover of minimum Rs. 400 crore during last 03 (three) financial year(s) i.e. FY 2021-2022, FY2022-2023 and FY 2023-2024.	As you are aware, the whole world was hit with Covid-19, which hit the industry very badly, resulting in lesser business across the globe. This pandemic hit our industry as well & affected many System Integrator, hence, requesting Bank to relax this clause to - The Bidder must have an average turnover of minimum 350 cr. during the last three (3) financial year(s). i.e. FY 2021-22, FY 2022-23 and FY 2023-24.	No Change
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217	55	Appendix-B.5	Bidder should have experience of minimum 5 years in providing the Products/Services. The Bidder had	2. Requesting Bank to relax the clause to - Bidder should have an experience of minimum 10 years in providing the product/services. The Bidder must have had minimum 5 projects executed in BFSI/PSU /Govt. aggregated value of 300 Cr. Out of which one order should be in BFSI worth 150 cr. in the last 5 years. Documentary evidence such as PO and work completion certificate must be submitted.	No Change
218	59	Appendix C-6	SAN switch for each of DC-AZ1, DC-AZ2, DR-AZ1, DR-AZ2, Pre-Prod, Non-Prod NDC NDR	Please explain the different setup.	Setup will be shared with successful bidder
219	62	6.UPTIME	Bidder has to maintain inventory at local place to ensure uptime SLA as per Scope of this RFP	Please confirm whether the Critical spares to keep at Bank's Premises or only at Bidders/OEM Ware house.	No change

220	81	Appendix-E.3	Should be integrated with existing HPE 3PAR StoreServ 20850 (20K) Storage	Please share the details of the Storage.	<p>Currently, Bank is taking Disk based Backup using StoreOne on a daily,weekly,monthly,quarterly and yearly basis.</p> <p>Disk backup is getting archived on LTO-7 tape on monthly basis. However, disk based backup remains on disk as per retention policy of the Bank. The policy will be shared to the successful bidder at the time of Implementation.</p> <p>The requirement is for ensuring archived backup on existing HPE 3PAR StoreServ that Bank is already using</p> <p>Current LTO-7 Tape Drives - 400 (total at DC and DR)</p>
221	82	Appendix-E.4	Installation and commissioning should be completed within 6 weeks of hardware delivery at each location.	Please provide 12 Weeks considering the requirement of VA Closure/SCD Implementation.	Already responded

222	83	Appendix-E.13	<p>a) 25% of Hardware cost of with 3 years of comprehensive warranty on delivery</p> <p>b) 15% of Hardware cost of with 3 years of comprehensive warranty - on installation.</p> <p>c) 50% of Hardware cost with 3 years of comprehensive warranty - on commissioning and go live working condition and CDAC audit or any other mechanism as devised by Bank for certifying the material supplied is as per RFP terms.</p> <p>d) Balance will be paid after 90 days of full implementation.</p> <p>e) Payment for AMC will be made quarterly in arrears.</p>	<p>Please change as</p> <p>a) 40% of Hardware cost of with 3 years of comprehensive warranty on delivery</p> <p>b) 30% of Hardware cost of with 3 years of comprehensive warranty - on installation.</p> <p>c) 20% of Hardware cost with 3 years of comprehensive warranty - on commissioning and go live working condition and CDAC audit or any other mechanism as devised by Bank for certifying the material supplied is as per RFP terms.</p> <p>d) Balance will be paid after 90 days of full implementation.</p> <p>e) Payment for AMC will be made quarterly in arrears.</p>	Corrigendum shall be published
223	85	18	L2 resources for Infra Stack should be directly from OEM	Please change as below, L2 resources for Infra Stack should be directly from OEM/Bidder.	Corrigendum shall be published

224	180	Appendix-T.E	Training	Please confirm whether the Administration and Technical/Operational Trainings can be completed with Single schedule each or multiple schedules.	Will be decided in discussion with Successful bidder
225	27	28. SERVICES:	i. Service Provider shall ensure that key personnel with relevant skill-sets are available at designated locations for installation and commissioning of the Product. All products required to be deployed by the respective OEM during implementation.	Whether bidder's engineers are allowed to do the installation?	Already responded

226	82	APPENDIX-E	<p>4. Term of the Project - Project Schedule; Milestones and delivery locations Installation and commissioning should be completed within 6 weeks of hardware delivery at each location. This Include dates for start and completion of the each phase of the Services, and for delivery of each of the Services/Deliverables with delivery locations</p>	Kindly confirm the delivery timeline for BOM.	Already responded
227	82	APPENDIX-E	6. Integration / Migration Requirements with existing systems	Kindly share the details of existing systems/ softwares / Applications to be integrated with new solution.	Already responded

228	74	4.A.2	<p>The solution should support the existing tape libraries at DC and DR site.</p> <p>The bidder has to make the necessary configuration changes for conversion of existing Backup Tapes in compliance with new backup software and provide training to Bank officials for using the Backup software. Also, the bidder is required to manage backup, restoration, other activities related to backup activity, of both new and existing tapes, during the entire contract period.</p>	<ol style="list-style-type: none"> 1. Request you to share the details of the existing Tape Libraries to validate the support for the same 2. Can you please let us know the backup software used for writing backups on the existing tapes? 3. Conversion of Existing tapes is related to services obtained from Bidder, hence can you please remove the following portion of this point from Backup Software Specifications? "The bidder has to make the necessary configuration changes for conversion of existing Backup Tapes in compliance with new backup software and provide training to Bank officials for using the Backup software. Also, the bidder is required to manage backup, restoration, other activities related to backup activity, of both new and existing tapes, during the entire contract period." 	<p>Currently, Bank is taking Disk based Backup using StoreOne on a daily, weekly, monthly, quarterly and yearly basis.</p> <p>Disk backup is getting archived on LTO-7 tape on monthly basis. However, disk based backup remains on disk as per retention policy of the Bank. The policy will be shared to the successful bidder at the time of Implementation.</p> <p>The requirement is for ensuring archived backup on existing HPE 3PAR StoreServ that Bank is already using</p> <p>Current LTO-7 Tape Drives - 400 (total at DC and DR)</p>
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229	75	4.A.3	<p>The proposed backup solution should support heterogeneous Operating system platforms including Microsoft Windows Server 2008R2 and above Windows 10/11, Solaris OS, SUSE Linux Enterprise Server, IBM AIX, Oracle Enterprise Linux (Oracle VM), VMware, Hyper-V, Xen Server, Red Hat Linux, VDI, Ubuntu etc.</p>	<p>1. Microsoft ended extended support for Windows Server 2008 R2 on January 14, 2020. Hence the support to the same can be on best effort basis.</p> <p>So, we request you to revise this point to, "The proposed backup solution should support heterogeneous Operating system platforms including Microsoft Windows Server 2016 and above Windows 10/11, Solaris OS, SUSE Linux Enterprise Server, IBM AIX, Oracle Enterprise Linux (Oracle VM), VMware, Hyper-V, Xen Server, Red Hat Linux, VDI, Ubuntu etc."</p>	<p>Corrigendum shall be published</p>
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230	75	4.A.3	<p>Backup software should be able to protect the following through online agents enabling granular restores. Major DBs like Oracle, MS SQL, MySQL, Maria DB, etc. and Applications likes SAP, Oracle-Web logic, Oracle-EBS, MS Active Directory, etc. across wide range of popular Windows / Linux / AIX and Unix flavours. All Software licenses should be included in the solution</p>	<p>1. Can you please let us know the type of data to be backed up for Oracle Web Logic and Oracle E Business Suite? 2. Can I request you to rephrase "All Software licenses should be included in the solution" as "Required Backup Software licenses should be included in the solution"</p>	No Change
231	75	4.A.3	<p>The Proposed backup support VMware , Hyper Visor VM image level backup with option to granular restoration at file level, database instance level etc. It should provide Instant recoveries for any backup to VMware machine.</p>	<p>Regarding this point "It should provide Instant recoveries for any backup to VMware machine." can you please confirm which which backups are required to be restored as VMware Machine?</p>	No Change

232	76	4.A.11	Backup Software must support GUI with centralized management / Single interface for management of all backup activities across the entire storage capacity supplied. The backup software must have firewall support	Can you please elaborate the point, "The backup software must have firewall support"?	Already responded
233	76	4.A.12	As a backup tool all audit trails must be logged for tracking any changes on backup server. Should support Log truncation of SQL/Exchange DBs either on daily, weekly or monthly basis depending on the customer's requirement. The backup software should also support purge of archive logs in case of Oracle DB. The log truncation should e supported in both agent-based and agentless backup	Request you to kindly rephrase this point as, "As a backup tool all audit trails must be logged for tracking any changes on backup server. Should support Log truncation of SQL/Exchange DBs either on daily, weekly or monthly basis depending on the customer's requirement. The backup software should also support purge of archive logs in case of Oracle DB. The log truncation should be supported in agent-based Or agentless backup"	Corrigendum shall be published

234	77	4.A.13	Proposed solution should support 24x7 real-time monitoring, with at-a-glance and drill-down views of health, performance and workload of the virtual hosts.	Request you to kindly remove this point, as Real time VM health and performance monitoring and VM backup are two mutually exclusive functionalities - VM Health monitoring is not a requisite functionality for a backup software and additionally this capability is vendor specific.	No Change
235	77	4.A.13	Proposed solution should support automated action for popular alarms (automated or semi-automated), with at-a-glance and drill-down views of health, performance and workload of the virtual hosts.	Request you to kindly remove this point, as Real time VM health and performance monitoring and VM backup are two mutually exclusive functionalities - VM Health monitoring is not a requisite functionality for a backup software and additionally this capability is vendor specific.	No Change

236	77	4.A.14	Backup software must have a feature of data validation, whereby a workload (VM with OS and application) is powered-on in a sandbox environment and tested for its recoverability.	Request Bank to kindly rephrase this point as follows, as the required feature does not require an additional sandbox environment for testing and as the current point is vendor specific, "Backup software must have an inbuilt feature of backed up data validation for a VM or VM group without an explicit need of a Sandbox environment. And there should be an out of box report to provide summary information about each VM backup that is validated."	Corrigendum shall be published
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237	78	4.A.14	The proposed backup software should be able to integrate with anti-virus software and scan before recovery of VMs and ensure that any infected VM is not restored or restore it with disabled network adapters to prevent any infection to spread through the network	Request Bank to kindly rephrase this point as follows as the current point is vendor specific,. The point suggested below will provide more clarity on this feature and ensure solution is complete. "The proposed backup software should be able to scan the malware present in the backup copies with its built in capabilities in the software and if it requires third party anti virus software then the same should be provided by the bidder to scan the backup copies before recovery of VMs and ensure that any infected VM is not restored by automatically quarantining the infected backup copies"	Corrigendum shall be published
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238	78	4.A.14	<p>Proposed backup software should have the ability to perform staged restores to enable admins to comply to regulations by selectively deleting files / records which should not be restored from the backup copies. This will help in complying to "right to be forgotten "regulations like GDPR, where user data is deleted from restored backup copies in an auditable manner.</p>	<p>We recommend to rephrase this point to,</p> <p>"Proposed backup software should have the ability to selectively delete files which should not be restored from the backup copies without restoring the backup. This will help in complying to "right to be forgotten "regulations like GDPR, where user data is deleted from restored backup copies in an auditable manner."</p>	Already responded
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239	78	4.A.15	As per Bank Policy	<p>1. Can you please share the Backup Frequency and Backup Retention policy to be followed. Because it will be required to size the Backup Server and storage infrastructure. The backup retention policy to be considered while arriving at the backup storage calculations will require following details,</p> <p>Daily - Incremental Backup - Retained for ?? days Weekly - Full Backup - Retained for ?? weeks Monthly - Full Backup - Retained for ?? Months Yearl - Full Backup - Retained for ?? Years</p> <p>Daily change rate to consider is ?? % and YoY growth rate to consider is ?? %</p> <p>2. Can you please mention the years of sizing to be considered while sizing the backup storage?</p>	<p>Currently, Bank is taking Disk based Backup using StoreOne on a daily,weekly,monthly,quarterly and yearly basis.</p> <p>Disk backup is getting archived on LTO-7 tape on monthly basis. However, disk based backup remains on disk as per retention policy of the Bank. The policy will be shared to the successful bidder at the time of Implementation.</p> <p>The requirement is for ensuring archived backup on existing HPE 3PAR StoreServ that Bank is already using</p> <p>Current LTO-7 Tape Drives - 400 (total at DC and DR)</p>
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240	88	2.d	Backup Software Licenses - To be quoted by bidder	Request you to kindly share the Front End capacity/ Source capacity of the data to be backed up. Also, kindly provide the count of physical and virtual machines to be backed up in DC and in DR and in NDR/ NDC	Corrigendum shall be published
241	79/199	B. Backup Storage Specification_Clause_7_Tape Library	Tape Library with LTO-9 or Latest tapes to be incorporated for long term backup and offsite copy in case part of the Solution offering	WRT Reference to Page 89/199	No change
242				b.Backup Storage for DC,DR/NDR, NDC	Corrigendum shall be published
243				DC 500 TB & DR/NDR 500 TB, Please clarify , Do we consider an Front End TB of 500TB (Each for DC & DR) to be managed and Air-Gapped Protection to be backed up in the Tape Library with appropriate number of LTO9 FC drives and Sufficient Slots to provide the AIR GAP tape solution ?	Corrigendum shall be published

244	79/199	B. Backup Storage Specification_Clause_7_Tape Library	Tape Library with LTO-9 or Latest tapes to be incorporated for long term backup and offsite copy in case part of the Solution offering. WRT Reference to Page 76/199. [11.] Management: Automatic scheduling for daily, weekly and monthly backup,	Question # 1) Do we consider that the Bank would deploy the Granular , GFS Industry Standard Policy of Daily Incremental ~ Retained for 1 Week, Weekly Sets ~ Retained for 2 Weeks, Monthly Sets Retained for 2 Months and Yearly Sets Retained Forever ... is this Policy the bank would deploy ?? (Question # 2) Please let us know so that , All bidders can calculate the Cartridge Count for this policy with 500TB FET data , wrt for Year 1 Consumables.	No Change
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245	79/199	B. Backup Storage Specification_Clause_7_Tape Library	Tape Library with LTO-9 or Latest tapes to be incorporated for long term backup and offsite copy in case part of the Solution offering	Requesting the bank to clarify, So that all bidders provide at-par solution , Based on FET=500TB Per Site, Please let us know , that Do you want Bidders offering D2D2T to Factor appropriate No. of LTO9 FC/SAS Tape Drives so as to offer a Native data transfer rate without Compression from Day 1 of apprx 15TB/Hr or 20TB/Hr or More especially required for Weekly & Monthly Data sets backup. (OEM Data Sheet values for Native data Transfer rate) or Let us know , would the Bank give 10 Hrs or 12 Hrs or 14 Hrs or 18 Hrs to achieve the required tape backups ??	No Change
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246	74/199	Backup Software Specification	BACKUP SERVER & MEDIA SERVERS	As the Tape Library required shall be with multiple Drives , has the bank factored The Backup server + Media Servers with FC HBA card & Required Suitable Configuration for optimum data flow for D2D2T , or should the Bidder factor the No of PHYSICAL MEDIA Servers required for this	No Change
247	54	Bidder's Eligibility Criteria	Bidder should have experience of minimum 5 years in providing the Products/Services. The Bidder had minimum 3 project (in BFSI sector) executed each of 100 Crores and above in the last 5 years.	would Bank to relax the Clause as- Bidder should have experience of minimum 5 years in providing the Products/Services. The Bidder had minimum 3 project (in BFSI sector) executed each of 50 Crores and above in the last 3 years.	Corrigendum shall be published

248	57	Technical & Functional Specifications	<p>Blade Servers</p> <p>Intel Xeon Gold 6542 Y processors (5th Gen) with 24 Core, 2.9 GHz base frequency</p>	<p>1) RFP is restricting OEMs to use only Blade Systems having Intel CPU. Not all x86 OEMs has blade systems. x86 platform family has Rack and Blade based system. Bidders must have flexibility in proposing either Rack / Blade based system having Intel / AMD based Processors</p> <p>2) RFP is specifying exact CPU Type (ie GOLD) with clock speed. With the RFP clauses, OEMs which has latest x86 technology with AMD could not participate in this RFP. Requesting Bank to have Rack / Blade systems both having either Intel / AMD CPUs</p> <p>3) As per RFP specs, 383 blades are needed, Can bidders use latest technology and reduce servers with Appliance based x86 solution with Linux OS?</p>	Already responded
249	57 - 58	Technical & Functional Specifications	<p>Storage</p> <p>a) Web, APP & DB</p> <p>b) Backup</p>	<p>Usable capacity mentioned without Raid type.</p> <p>Ra) requesting Bank to mention Raid type so that all bidders could quote same Raid type</p>	Corrigendum shall be published

250	58	Technical & Functional Specifications	Propose Balde Chassis as per RFP Terms and Conditions	Can bidders quote AMD based System with latest technology thereby providing equivalent of RFP technical specs	Already responded
251	59	Technical & Functional Specifications	SAN Switch	SAN Switch is traditional / old way of connecting Compute and Storage and is limited to max 32Gbps per port. In the industry, there are latest Appliance based solution which uses high throughput and low latency fabric with each port working at 100 Gbps. Requesting Bank to consider latest technology instead of restricting bidders to use only SAN Switch.	Already responded
252	60	Technical & Functional Specifications	Virtualization/Cloud licenses	As per RFP, "VCF licenses will be provided by the Bank" This is specific to a particular vendor. This restricts bidders to quote latest modern generation solution.	Already responded

253	66	Blade Servers	Operating System	As per RFP, "Also, the hardware should support any version of VMWare upgrade coming in next 5 years.". Need clarification if Bidders can quote Appliance based solution having KVM virtualization and heterogeneous Operating system support.	Already responded
254	69	C. BLADE ENCLOSURE	Chassis should be able to support Intel Xeon Gold 6542 Y processors and subsequent generation of Intel Blade Servers.	Need clarification if bidders can quote Appliance based solution which uses rack servers (RFP is demanding Blade Servers). These Appliance based solution uses high throughput and low latency 100Gbps fabric for increasing efficiency. Requesting Bank to consider latest technology instead of restricting bidders to use Blade enclosure / Technology.	Bidder to validate this Clause along with Corrigendum
255	95	APPENDIX I	Certifcaite for local content	Oracle servers are not manufactured locally and we will provide a different format letter	Already responded

256	55	Bidder's Eligibility Criteria	The Bidder (including its OEM, if any) should either be Class-I or Class-II local supplier as defined under this RFP.	Would request Bank on relaxation of MII Clause for the hardware	Already responded
257	57	Technical & Functional Specifications	<p style="text-align: center;">Blade Servers</p> <p style="text-align: center;">Intel Xeon Gold 6542 Y processors (5th Gen) with 24 Core, 2.9 GHz base frequency</p>	<p>1) RFP is restricting OEMs to use only Blade Systems having Intel CPU. Not all x86 OEMs has blade systems. x86 platform family has Rack and Blade based system. Bidders must have flexibility in proposing either Rack / Blade based system having Intel / AMD based Processors</p> <p>2) RFP is specifying exact CPU Type (ie GOLD) with clock speed. With the RFP clauses, OEMs which has latest x86 technology with AMD could not participate in this RFP. Requesting Bank to have Rack / Blade systems both haing either Intel / AMD CPUs</p> <p>3) As per RFP specs, 383 blades are needed, Can bidders use latest technology and reduce servers with Appliance based x86 solution with Linux OS?</p>	Already responded

258	57 - 58	Technical & Functional Specifications	Storage a) Web, APP & DB b) Backup	Usable capacity mentioned without RAID type. Requesting Bank to mention Raid type so that all bidders could quote same Raid type	Corrigendum shall be published
259	58	Technical & Functional Specifications	Propose Balde Chassis as per RFP Terms and Conditions	Can bidders quote AMD based System with latest technology thereby providing equivalent of RFP technical specs	Already responded
260	59	Technical & Functional Specifications	SAN Switch	SAN Switch is traditional / old way of connecting Compute and Storage and is limited to max 32Gbps per port. In the industry, there are latest Appliance based solution which uses high throughput and low latency fabric with each port working at 100 Gbps. Requesting Bank to consider latest technology instead of restricting bidders to use only SAN Switch.	No Change

261	60	Technical & Functional Specifications	Virtualization/Cloud licenses	<p>As per RFP, "VCF licenses will be provided by the Bank"</p> <p>This is specific to a particular vendor. This restricts bidders to quote latest modern generation solution.</p>	No Change
262	66	Blade Servers	Operating System	<p>As per RFP, "Also, the hardware should support any version of VMWare upgrade coming in next 5 years.". Need clarification if Bidders can quote Appliance based solution having KVM virtualization and heterogeneous Operating system support.</p>	No Change

263	69	C. BLADE ENCLOSURE	Chassis should be able to support Intel Xeon Gold 6542 Y processors and subsequent generation of Intel Blade Servers.	Need clarification if bidders can quote Appliance based solution which uses rack servers (RFP is demanding Blade Servers). These Appliance based solution uses high throughput and low latency 100Gbps fabric for increasing efficiency. Requesting Bank to consider latest technology instead of restricting bidders to use Blade enclosure / Technology.	Bidder to validate this Clause along with Corrigendum
264	95	APPENDIX I	Certifaite for local content	Not all x86 servers are manufactured locally and we request an exception	No Change

265	67	Ethernet controller -	<p>The bandwidth required for network per server is minimum 6 x 10G per server that must be partitioned across minimum two cards to provide card level redundancy with minimum 30G bandwidth available per card. Each of the network port must be capable of tailoring network connections and speeds based on application needs. One (1) NIC or Equivalent port dedicated for Remote Management</p>	<p>Request you to confirm , confirm if we can propose using 4 x 25G ports per server instead of 6 x 10G ports which will be partitioned across minimum two cards to provide card level redundancy with minimum 50G bandwidth available per card</p>	<p>Corrigendum shall be published</p>
266		Rack Server	<p>Depending on the node type, the server must have 6 x 3.2 TB NVMe in each server for capacity requirement.</p>	<p>request you to confirm on the drive type , mix use or read intensive Nvme drive</p>	<p>No Change</p>
267		Rack Server	<p>Network : Should have 3* 2 x Dual port 25/40G SFP+ Card.</p>	<p>Request you to confirm on the requirement for network card bandwidth. Card comes with option 10/25G or 40/100G port.</p>	<p>Corrigendum shall be published</p>

268	70	Interconnect Support	Should support simultaneous housing of Ethernet, FC, iSCSI offering Hot Pluggable & Redundancy as a feature. Enclosure should have minimum 6 Interconnect Bays.	Request you to modify the cluse for wider participation of the OEM. Request you to change the cluase " Should support simultaneous housing of Ethernet, FC, iSCSI offering Hot Pluggable & Redundancy as a feature. Enclosure should have minimum 4 Interconnect Bays." Justification: In case of Converged Network solution designed with same level of redundancy and banwidth provided with lesser number of interconnect.	Corrigendum shall be published
269	73	SAN Switch	Redundant SAN Switches with at least 24 * 16 /32 Gbps ports. Required FC Cables to connect to servers should be provided by the bidder	Request you to provide bifurcation of server count for each data center/AZ to derive the port count of the switch requirement at each site. 24 port in SAN switch may not be sufficient to connect PRD Storage, Backup Storage, Chassis , Tape Library.	Corrigendum shall be published

270	70	C. BLADE ENCLOSURE	<p>Gachibowli</p> <p>Each enclosure must have total 8 x 25G ports with pair of redundant network modules with 4 x 25G uplink ports respectively in each. i.e., 4 x 25G uplink bandwidth must be maintained even after 50% of interconnect failure and without using multi-chassis aggregation.</p> <p>OR</p> <p>In case of multi-chassis aggregation (not more than 4 chassis in one set), each master enclosure must have redundant master modules to eliminate single point of failure. The multi-chassis setup should have total 32 x 25G uplink ports with 16 x 25G uplink ports for each master enclosure i.e., 16 x 25G uplink bandwidth must be maintained even after 50% of master interconnect failure for multi-chassis set.</p>	<p>Request you to confirm ,100G uplink port with 4 x 25G splitter cable to connect TOR/Leaf Switches in each interconnect module insend of 4 x 25G port each.</p>	<p>These are standard guidelines. Bidder to configure as per best practices to ensure SLA guidelines requested by Bank are adhered to</p>
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271	71	C. BLADE ENCLOSURE	<p>Rabale & NDR Site Each enclosure must have total 20 x 10G ports with pair of redundant network modules with 10 x 10G uplink ports respectively in each. i.e. 10 x 10G uplink bandwidth must be maintained even after 50% of interconnect failure and without using multi-chassis aggregation OR In case of multi-chassis aggregation (not more than 4 chassis in one set), each master enclosure must have redundant master modules to eliminate single point of failure. The multi-chassis setup should have total 72 x 10G uplink ports with 36 x 10G uplink ports for each master enclosure i.e. 36 x 10G uplink bandwidth must be maintained even after 50% of master interconnect failure for multi-chassis set.</p>	<p>Request you to confirm on 100G uplink port with 4 x 25G splitter cable to connect TOR/Leaf Switches in each interconnect module instead of 10 x 10G port each.</p>	<p>These are standard guidelines. Bidder to configure as per best practices to ensure SLA guidelines requested by Bank are adhered to</p>
272	63	Point 10 - General requirement	<p>Installation and implementation of products should to be done by the respective OEMs.</p>	<p>Request you to change the clause to "Installation and implementation of products should to be done by the respective OEMs/ OEM certified SI".</p>	<p>Corrigendum shall be published</p>

273	54-55	5	Bidder should have experience of minimum 5 years in providing the Products/Services. The Bidder had minimum 3 project (in BFSI sector) executed each of 100 Crores and above in the last 5 years	We hereby request you to kindly modify the point as follows: Bidder should have experience of minimum 5 years in providing the Products/Services. The Bidder had minimum 1 project (in BFSI sector) executed each of 55 Crores and above in the last 5 years	Corrigendum shall be published
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274	83	13	<p>Payemnt Schedule :</p> <ul style="list-style-type: none"> a) 25% of Hardware cost of with 3 years of comprehensive warranty on delivery b) 15% of Hardware cost of with 3 years of comprehensive warranty - on installation. c) 50% of Hardware cost with 3 years of comprehensive warranty - on commissioning and go live working condition and CDAC audit or any other mechanism as devised by Bank for certifying the material supplied is as per RFP terms. d) Balance will be paid after 90 days of full implementation. e) Payment for AMC will be made quarterly in arrears. 	<p>We hereby request you to kindly modify the point as follows: Payemnt Schedule :</p> <ul style="list-style-type: none"> a) 50% of Hardware cost of with 3 years of comprehensive warranty on delivery b) 40% of Hardware cost of with 3 years of comprehensive warranty - on installation. c) 10% of Hardware cost with 3 years of comprehensive warranty - on commissioning and go live working condition and CDAC audit or any other mechanism as devised by Bank for certifying the material supplied is as per RFP terms. e) Payment for AMC will be made Yearly in advance. 	<p>Corrigendum shall be published</p>
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275	67	Ethernet controller -	<p>The bandwidth required for network per server is minimum 6 x 10G per server that must be partitioned across minimum two cards to provide card level redundancy with minimum 30G bandwidth available per card. Each of the network port must be capable of tailoring network connections and speeds based on application needs. One (1) NIC or Equivalent port dedicated for Remote Management</p>	<p>Request you to confirm , confirm if we can propose using 4 x 25G ports per server instead of 6 x 10G ports which will be partitioned across minimum two cards to provide card level redundancy with minimum 50G bandwidth available per card</p>	<p>Corrigendum shall be published</p>
276		Rack Server	<p>Depending on the node type, the server must have 6 x 3.2 TB NVMe in each server for capacity requirement.</p>	<p>request you to confirm on the drive type , mix use or read intensive Nvme drive</p>	<p>No Change</p>
277		Rack Server	<p>Network : Should have 3* 2 x Dual port 25/40G SFP+ Card.</p>	<p>Request you to confirm on the requirement for network card bandwidth. Card comes with option 10/25G or 40/100G port.</p>	<p>Corrigendum shall be published</p>

278	70	Interconnect Support	Should support simultaneous housing of Ethernet, FC, iSCSI offering Hot Pluggable & Redundancy as a feature. Enclosure should have minimum 6 Interconnect Bays.	Request you to modify the cluse for wider participation of the OEM. Request you to change the cluase " Should support simultaneous housing of Ethernet, FC, iSCSI offering Hot Pluggable & Redundancy as a feature. Enclosure should have minimum 4 Interconnect Bays." Justification: In case of Converged Network solution designed with same level of redundancy and banwidth provided with lesser number of interconnect.	Corrigendum shall be published
279	73	SAN Switch	Redundant SAN Switches with at least 24 * 16 /32 Gbps ports. Required FC Cables to connect to servers should be provided by the bidder	Request you to provide bifurcation of server count for each data center/AZ to derive the port count of the switch requirement at each site. 24 port in SAN switch may not be sufficient to connect PRD Storage, Backup Storage, Chassis , Tape Library.	Corrigendum shall be published

280	70	C. BLADE ENCLOSURE	<p>Gachibowli</p> <p>Each enclosure must have total 8 x 25G ports with pair of redundant network modules with 4 x 25G uplink ports respectively in each. i.e., 4 x 25G uplink bandwidth must be maintained even after 50% of interconnect failure and without using multi-chassis aggregation.</p> <p>OR</p> <p>In case of multi-chassis aggregation (not more than 4 chassis in one set), each master enclosure must have redundant master modules to eliminate single point of failure. The multi-chassis setup should have total 32 x 25G uplink ports with 16 x 25G uplink ports for each master enclosure i.e., 16 x 25G uplink bandwidth must be maintained even after 50% of master interconnect failure for multi-chassis set.</p>	<p>Request you to confirm ,100G uplink port with 4 x 25G splitter cable to connect TOR/Leaf Switches in each interconnect module insend of 4 x 25G port each.</p>	<p>These are standard guidelines. Bidder to configure as per best practices to ensure SLA guidelines requested by Bank are adhered to</p>
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281	71	C. BLADE ENCLOSURE	<p>Rabale & NDR Site Each enclosure must have total 20 x 10G ports with pair of redundant network modules with 10 x 10G uplink ports respectively in each. i.e. 10 x 10G uplink bandwidth must be maintained even after 50% of interconnect failure and without using multi-chassis aggregation OR In case of multi-chassis aggregation (not more than 4 chassis in one set), each master enclosure must have redundant master modules to eliminate single point of failure. The multi-chassis setup should have total 72 x 10G uplink ports with 36 x 10G uplink ports for each master enclosure i.e. 36 x 10G uplink bandwidth must be maintained even after 50% of master interconnect failure for multi-chassis set.</p>	<p>Request you to confirm on 100G uplink port with 4 x 25G splitter cable to connect TOR/Leaf Switches in each interconnect module instead of 10 x 10G port each.</p>	<p>These are standard guidelines. Bidder to configure as per best practices to ensure SLA guidelines requested by Bank are adhered to</p>
282	63	Point 10 - General requirement	<p>Installation and implementation of products should to be done by the respective OEMs.</p>	<p>Installation and implementation of products should to be done by the respective OEMs/ OEM certified SI</p>	<p>Corrigendum shall be published</p>

283	57	Sizing guidelines - Blade servers	DC: 220 NDC: 35 DR/NDR: 128 Total: 383	Request you to please provide the breakup of servers for App, web and DC workload at DC, DR/NDR, NDC site.	Please refer sizing guidelines. Total no of VMs will be shared with successful bidder at the time of implementation
284	57	Sizing guidelines - Blade servers	DC: 220 NDC: 35 DR/NDR: 128 Total: 383	RFP has asked to configure App and web workload on Vmware vSAN. It is suggested to configure app and web on rack form factor as blade servers can only scale to 6 drives per server whereas for vSAN configuration more number of internal drives are required per server.	Corrigendum shall be published

285	67	Blade servers - Ethernet Controller	The bandwidth required for network per server is minimum 6 x 10G per server that must be partitioned across minimum two cards to provide card level redundancy with minimum 30G bandwidth available per card.	RFP has asked for 2 * 25 Gbps ports per Blade server. The max bandwidth available will be 25Gbps. While we will populate 2 cards to provide card level redundancy, the total bandwidth available across 2 cards will not be more than 50Gbps where the ask here is for 6 x 10G per server which total to 60Gbps. Request you to please provide clarity on the same.	Corrigendum shall be published
286	66	Blade Servers - SAN connectivity	Should provide two FC connectivity by using Converged Network Adapters or Dual port 16/32 Gbps FC HBA	RFP has asked for ethernet cards and here the ask is for converged adapter. Request you to please confirm if we have to configure converged adapter or configure separate ethernet and FC HBA adapter	No Change

287	68	Rack servers - Network	Should have 3* 2 x Dual port 25/40G SFP+ Card.	10/25Gbps cards supports SFP+ transceivers whereas 40Gb or 100Gb cards support QSFP transceivers. Request you to please chanhe it to dual port 10/25Gbps card. Also, confirm the number of cards to be configured per server.	Corrigendum shall be published
288	70	Blade Chassis - Blade Server Ethernet Interconnect	Interconnect should have switching capability with at least 9000 MTU to support Jumbo Frames. Redundant network modules must be stacked over minimum of two 100G links	Chassis will be populated with required ethernet switches to provide 100Gb uplinks. Hope the understanding is correct	No Change

289	71	Blade chassis - Storage capacity	The enclosure must have provision to support internal storage capacity of minimum 50TB usable space using up to maximum 3.84TB size for 12G SAS Mixed Use SSD Drives for capacity storage and additional 10% of Caching drives, should be considered additionally. The usable storage calculated must be using Raid 1 and without any storage efficiencies like deduplication and compression. This is required to be given in one chassis per site	Blade chassis can only accommodate servers, interconnect switches, PSU and fans. It cannot provide and configure any external SAN storage	These are standard guidelines. Bidder to configure as per best practices to ensure SLA guidelines requested by Bank are adhered to
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290	71	Blade chassis -*Blade Server FC Interconnect	The enclosure must have redundant Fibre Channel interconnect modules with minimum 6 x 32Gbps Uplink Ports to the SAN Switch i.e., 6 x 32G uplink bandwidth must be maintained even after one interconnect failure. Each module should be fully licensed to use all available ports. All required licenses to ensure interoperability with Bank's existing fabric must be provide	RFP has asked for converged switches and fiver switches both. If FC switches are configured in chassis, do we still need to provide converged switches as well	No Change
291	69	Blade chassis	Same enclosure should support 2 and 4 Processor based blade servers of latest generation of Intel Processor.	Intel has launched new family of processors that doesn't support scalable processor so there is no roadmap of 4 socket blade server with DELL. Request you to remove support of 4 processor blade server	Corrigendum shall be published

292	73	Blade chassis	<p>* NOTE: The number of ports required per interconnect has been derived considering the setup which includes 12 servers per chassis. If OEM provides a solution with lesser number of servers per chassis the number of ports required on interconnect must be provided as per the oversubscription, bandwidth and redundancy requirements per chassis. In addition to the count of servers, for Network 1:4 oversubscription has been used whereas for Fibre Channel traffic 1:1 oversubscription is used. OEM can consider 1:2 oversubscription ratio for Fibre Channel in case they provide dual port 32G FC card inside the blade server. The OEM must make sure that the proposed solution must provide dedicated traffic at Chassis level as per the above oversubscription values considered for network and fibre channel traffic</p>	<p>Blade servers specifications has already asked for ports and uplinks required per chassis. Also, as RFP has asked for both options - separate ethernet or multi chassis, the number of uplinks and oversubscription will depend on solution configured. Need more clarity on this point</p>	<p>These are standard guidelines. Bidder to configure as per best practices to ensure SLA guidelines requested by Bank are adhered to</p>
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293	74	Rack	The Proposed solution must factor Racks for optimized sizing to achieve high availability with reduced number of racks. The Maximum Power limit of each chassis should be 10kVA.	DELL MX7000 chassis require 9Kva power which means we we can populate 1 chassis per server. But number of server getting populated per chassis will depend on server configuration.	Please refer corrigendum
294	59	Rack	a. Estimated count based on sizing may not exceed 17 Racks in total. NB: Considering 6 KVA consumable power/10 KVA Rated Power(Dual) three phase AMPS for each rack	The power consumption per chassis will depend on server configuration. The processors TDP has increased for Intel processors with latest 5th generation launch. So overall consumption will depend on processor, memory and drives configured.	These are standard guidelines. Bidder to configure as per best practices to ensure SLA guidelines requested by Bank are adhered to
295	57 & 58	Sizing Guidelines - Point 3 (Storage)	DC AZ1 & AZ2, DR AZ1 & AZ2	Please elaborate on the AZ1 and AZ2. How will this be implemented. Will there be any data replication/copy/migration between AZ1 & AZ2	AZ1 and AZ2 are to ensure redundant infrastructure availability in active active mode. Further details will be shared with the shortlisted bidder after RFP

296	57 & 58	Sizing Guidelines - Point 3 (Storage)	DC AZ1 & AZ2, DR AZ1 & AZ2	Can the AZ1 & AZ2 be combined into a single FC SAN storage with 370 TB capacity (185 + 185 in one storage)?	No Change
297	57 & 58	Sizing Guidelines - Point 3 (Storage)	DC AZ1 & AZ2, DR AZ1 & AZ2, NDR. NDC, DC Pre-Prod, DC Non-Prod	Please elaborate on the Performance requirement for the capacity asked	No Change
298	64	General - Technical Specifications -	Replication - a) VM Level b) Storage Level c) DB Level: Through Oracle Data Guard	Kindly share details about the data replication - - How much will be VM level replication and data changes per hour - What will be the RPO and RTO for VM level replication Similar details required for Storage replication	Replication and Data Changes details including RTO will be shared with Successful Bidder
299	64		Storage Virtualization/Metro Cluster deployment capability at Storage level for Active-Active cluster deployment with AZ (Availability Zone) to ensure Zero downtime.	Please share details about the deployment architecture / functional requirements. - Is there a need to deploy Vmware based Metro Cluster between DC-NDC and DR-NDR - will the database be part of the Metro Cluster	The requirement is for Active-Active Storage deployment across availability Zone.

300	73	Hardware Technical Specification - Section D (SAN Storage)	Active-Active Multicontroller storage with Minimum 2 controllers scalable to 8 within the same cluster	Request to please ammend this clause as scalable to 4 controller	Corrigendum shall be published
301	73	Hardware Technical Specification - Section D (SAN Storage)	Storage should be configured with 150 TB usable capacity with all NVMe drive configuration. Proposed storage should be scalable to more than 1 PB usable capacity	The capacity mentioned in the clause does not match with the capacity mentioned earlier (pg 57/58). Please clarify on the capacity required	Corrigendum shall be published
302	78	Hardware Technical Specification - Section B. (Backup Storage Specification)	Active-Active Multicontroller storage with Minimum 4 controllers scalable to 8 within the same cluster	Please elaborate on the requirement of an Enterprise class, Multi-Controller, Controller-Scalable storage for Backups.	to ensure HA
303	78	Hardware Technical Specification - Section B. (Backup Storage Specification)	Global cache with minimum 64 GB Cache per controller	Global Cache & Multi-Controller architecture are typically used for Mission Critical workloads. Not for Backups	No Change
304	78	Hardware Technical Specification - Section B. (Backup Storage Specification)	Storage should be configured with 700 TB usable capacity with all SATA / SSD disks. Proposed storage should be scalable to more than 5 PB usable capacity	capacity asked here is 700 TB, this does not match with capacity asked earlier (page 58 : DC 500 TB, DR 500 TB total 1000 TB)	Corrigendum shall be published

305	81	Scope of Work and Payment Schedule - point 3	Should be integrated with existing HPE 3PAR StoreServ 20850 (20K) Storage	Please elaborate on this point. What is the requirement for integration here?	The requirement is for ensuring archived backup on existing HPE 3PAR StoreServ that Bank is already using
306	82	Scope of Work and Payment Schedule - point 6 (2)	Integrate with other applications such as PIMS, ITAM, etc. as per Bank requirement	please provide details about the PIMS and ITAM that the proposed hardware needs to be integrated with	Details will be shared by the final bidder. However Bank is having industry standard enterprise PIMS and ITAM solutions being managed centrally. The requirement is to ensure the proposed solution can be integrated with these solutions
307	82	Scope of Work and Payment Schedule - point 7 Performance Requirements	Uptime requirement is 99.99%	For a Zero RPO solution, the uptime needs to be higher 99.999% or higher. Request yo make this 99.999% uptime or higher	No Change
308	187	Detailed Scope of Work - 2 (A) Virtualization Stack/ Cloud Deployment and Management	Workload Domain - App and Web Clusters to be deployed with internal storage and VSAN architecture across Availability Zones (Rack) within each site. Database clusters to be deployed with external storage.	Please elaborate on the capacity required using vSAN and capacity required using external storage	Please refer to Corrigendum

309	189	Detailed Scope of Work - 2 (F) DR Implementation	Department is looking for setting up NDC (Near Site at DC) and NDR (Near Site at DR) to achieve the Zero RPO requirement. The Near Site may/mayn't be at different geographical locations. Vendor will implement the DR plan accordingly as per Bank's policy including time to time changes as applicable	How is Data Replication envisaged across DC-NDC-DR-NDR. Kindly elaborate on the required deployment arachitecture? Please share details of Sync and Async storage replication between sites	Synchronous/ Asynchronous replication will be decided with successful bidder depending on Network link and latency.
310	190	(b) Storage Management:		Please share breakup of number of hosts in vSAN cluster and number of hosts connected to external storage	Please refer to Corrigendum

311			Additional Points that should be part of Storage specifications	For CBS environment (Mission Critical workload), request to include following points in storage solution - Zero Trust Infrastructure, Secure & Tamper Proof Audit Logs, Immutable Secure Snapshots (Cyber Resilience and Compliance), 4 Way DC-DR deployment, Quality of Service, Non Disruptive Upgrades, Data Erasure before decommissioning with certificate of data erasure to be provided, End-to-End T10-Dif (front end ports, cache, back end ports, drives) for data integrity checks at each layer	Please refer to Corrigendum
312	57 & 58	Sizing Guidelines - Point 3 (Storage)	DC AZ1 & AZ2, DR AZ1 & AZ2	Please elaborate on the AZ1 and AZ2. How will this be implemented. Will there be any data replication/copy/migration between AZ1 & AZ2	AZ1 and AZ2 are to ensure redundant infrastructure availability in active active mode. Further details will be shared with the shortlisted bidder after RFP

313	57 & 58	Sizing Guidelines - Point 3 (Storage)	DC AZ1 & AZ2, DR AZ1 & AZ2	Can the AZ1 & AZ2 be combined into a single FC SAN storage with 370 TB capacity (185 + 185 in one storage)?	No Change
314	57 & 58	Sizing Guidelines - Point 3 (Storage)	DC AZ1 & AZ2, DR AZ1 & AZ2, NDR. NDC, DC Pre-Prod, DC Non-Prod	Please elaborate on the Performance requirement for the capacity asked	Already responded
315	73	Hardware Technical Specification - Section D (SAN Storage)	Storage should be configured with 150 TB usable capacity with all NVMe drive configuration. Proposed storage should be scalable to more than 1 PB usable capacity	The capacity mentioned in the clause does not match with the capacity mentioned earlier (pg 57/58). Please clarify on the capacity required	Already responded
316	78	Hardware Technical Specification - Section B. (Backup Storage Specification)	Active-Active Multicontroller storage with Minimum 4 controllers scalable to 8 within the same cluster	Please elaborate on the requirement of an Enterprise class, Multi-Controller, Controller-Scalable storage for Backups.	Already responded
317	78	Hardware Technical Specification - Section B. (Backup Storage Specification)	Global cache with minimum 64 GB Cache per controller	Global Cache & Multi-Controller architecture are typically used for Mission Critical workloads. Not for Backups	Already responded
318	78	Hardware Technical Specification - Section B. (Backup Storage Specification)	Storage should be configured with 700 TB usable capacity with all SATA / SSD disks. Proposed storage should be scalable to more than 5 PB usable capacity	capacity asked here is 700 TB, this does not match with capacity asked earlier (page 58 : DC 500 TB, DR 500 TB total 1000 TB)	Already responded

319	81	Scope of Work and Payment Schedule - point 3	Should be integrated with existing HPE 3PAR StoreServ 20850 (20K) Storage	Please elaborate on this point. What is the requirement for integration here?	Already responded
320	82	Scope of Work and Payment Schedule - point 6 (2)	Integrate with other applications such as PIMS, ITAM, etc. as per Bank requirement	please provide details about the PIMS and ITAM that the proposed hardware needs to be integrated with	Already responded
321	85	Scope of Work and Payment Schedule Appendix E	*Onsite at Department/DC/NDC Site **Onsite at DR Site	Onsite OEM RE required at 4 locations	Already responded
322	152	Restrictions 2a	Provider appoints any Sub-Contractor (if allowed) then Service Provider may disclose confidential information to such Sub-Contractor subject to such Sub Contractor giving the Bank an undertaking in similar terms to the provisions of this clause. Any breach of this Agreement by Receiving Party's Covered Person or Sub-Contractor shall also be constructed a breach of this Agreement by Receiving Party.	L2 and L3 can be sub contracted to Dell partner?	Already responded

323		Payment for REs	We could not find in RFP	What will be payment terms for Onsite OEM engineers?	Already responded
324	82	Scope of Work and Payment Schedule, Point 6	Readiness of Infrastructure environment with necessary Software installation by respective OEM (OS, VMware/Virtualization environment, DB,WAS/IHS etc.) to Install the applications.	Please provide details about the applications required installation and integration	Already responded
325	83	Scope of Work and Payment Schedule, Point 11	Bank will adopt Phase wise approach for the implementation instead of Limited Trial / Pilot Requirements.	Kindly share how many phases will be considered and tentative duration of each phase	Already responded
326	190	2. DETAILED SCOP OF WORK G) Facility Management Services & Onsite support (n) Housekeeping and daily maintenance	Housekeeping and daily maintenance	Pls elaborate this ask	No Change
327	190	2. DETAILED SCOP OF WORK G) Facility Management Services & Onsite support (a) Systems / Infrastructure Management	Logs Review and Analysis	Initial Logs review can be done by RE, however detailed log review and analysis to be owned by support team (TAM or SAM)	No Change
328		Is there any data migration to be done in this project ?		Any data migration scope, if yes will need details	Already responded

329	189	2. DETAILED SCOP OF WORK e) Trainings	Vendor shall train designated SBI officials/partner as per (Appendix-E) for the items in scope for configuration, operation / functionalities, maintenance, support & administration, architecture and components, installation, troubleshooting processes, backup etc.	From training catalogue, customer to share which all training is required.	No Change
330	76	Ransomware Protection	The backup stored at D2D hardware should be immutable from Ransomware or equivalent attack with below scenario- In case the Media agent is offered using Windows/ RH Linux the mount point should be protected against Ransomware attacks like file encryptions, formatting of disk etc.	PI clarify Bank does Bank need to protect backed up from below scenario as well? Once the retention policy is enabled/defined on offered D2D hardware then system must not allow deletion/modification of backed up data even by the administrator of both Backup software and D2D system, to protect it against destructive ransomware?	No Change

331	78	RPO/ RTO and Recovery Assurance	Proposed backup software should be able to Harden the Linux/OS Repository. This service will prevent backup copies of data from any corruption or ransomware attacks.	In addition to prevent backup copies of data from any corruption or ransomware attack, backup solution must have mechanism to restrict any date and time change of the system to protect against any accidental or intentional expiration of data through change in the Network Time internally or externally to the system. Kindly Clarify?	Already responded
332	78	RPO/ RTO and Recovery Assurance	Backup software should support instant file share recovery in NAS storages to allow users to access files fast after disaster.	Favouring single OEM and restrict other Industry leading solution in Data Protection domain to bid. Kindly remove this clause for other Industry Leading OEM's to participate	Already responded
333	78	Retention	As per Bank Policy	PI provide the bank retention policy with data size to be backed up to sized the solution	Already responded

334	78	B. Backup Storage Specification	Cache - Global cache with minimum 64 GB Cache per controller	Bank has not specified any backup throughput performance ask like eg. 50TB/hr with public referance document for backup workload throughput, Kindly clarify	Already responded
335	31	32 , a	Service Provider shall intimate the Bank before dispatching Products for conducting inspection and testing	How many days prior notice is required and how long the inspection and testing will be performed.	Already responded

336	31	32 , b	<p>Inspection / pre-shipment acceptance testing of Products as per quality control formats including functional testing and burn-in tests at full load, quality control tests etc., as per the standards / specifications and may be done at factory site of Service Provider by the Bank or its authorized agency before dispatch of Products. In case of failure by Service Provider to provide necessary facility / equipment at his premises, all the cost of such inspection like travel, boarding, lodging and other incidental expenses of the Bank's representatives to be borne by Service Provider</p>	<p>Require clarity on how long the testing will be performed. Require clarity on what kind of tools will be used for functional testing and burn-in tests at full loads , quality control tests, what is the environment required to conduct above tests and how many bank representatives will perform this test.</p>	No Change
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337	82	APPENDIX-E, 4	<p>Installation and commissioning should be completed within 6 weeks of hardware delivery at each location.</p> <p>This Include dates for start and completion of the each phase of the Services, and for delivery of each of the Services/Deliverables with delivery locations</p>	Request to increase installation and commissioning to 12 weeks from 6 weeks	No Change
338	134	PENALTIES AND OTHER TERMS	<p>Delivery of all equipment should be within 6 weeks from date of placing of order. In the event of the any or all equipment(s) not being delivered, installed, tested and commissioned within a period of 12 weeks from date of Purchase Order</p>	<p>We request bank to change the delivery of all equipment to 8 weeks from 6 weeks</p> <p>We request bank to change the installation , commissioning and testing from 12 weeks from the date of purchase order to 20 weeks</p>	No Change
339	134	PENALTIES AND OTHER TERMS	<p>On-site comprehensive warranty and AMC: The warranty 36 months from date of First FO Go-Live and AMC for further 24 months</p>	OEM warranty starts from the date of delivery of hardware, we request with bank to change this clause	No Change

340	143	ANNEXURE-C	Requires component replacement of the defective part or arranging a substitute model.	We request bank to change the resolution time to 6 hours CTR.	No Change
341	186	DETAILED SCOP OF WORK	System Integration, Testing & User Acceptance testing	Require clarity on system integration, testing and User acceptance testing, what kind of system integration, testing, user acceptance testing is expected. Please share SOW.	Already responded
342	191	f) Administration configuration and Management of Load balancing systems:	(f) Administration configuration and Management of Load balancing systems: <ul style="list-style-type: none"> • LB configuration as per the application requirement. • Security configuration • WAF configuration • DoS Protection configuration • Cluster configuration • Deployment of AppWall Cluster + Node (Physical or Virtual) • SSL, Compression, Fastview and other such configurations. 	Is LB , WAF , DoS configuration is part of scope , require clarity. These componets are not part of BOM whereras it is mentioned in the RFP page no 191 to support. Kindly clarify.	Already responded

343	188, 189	(B) System Integration, Testing & User Acceptance testing	The System integration testing will be followed by user acceptance test(UAT). The UAT plan needs to be submitted by the Vendor to the Bank. The UAT will include Functional tests, Resilience tests, Benchmark Comparisons, Operational tests, Load tests etc. SBI staff / third Party Vendor designated by the Bank will carry out the functional testing. This necessary on-site training for this purpose should be provided by the Vendor. Vendor should also carry out other testing like resiliency/benchmarking/load etc. Vendor should submit result log for all testing to the Bank.	Require clarity on testing like resiliency/benchmarking/load etc testing since benchmarking and load testing purely depends on the applications which are going to be installed, is it bidder's responsibility to have required tools for this testing or bank's team/designated third party vendor perform the activity	Already responded
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344	193	(b) Broad Guidelines, Process & Controls to be followed , point no.8	Vendor has to carry out all the necessary testing required for IS audits, SOC alerts, VA/PT on a periodic basis and has to cooperate in the process, adhere to the recommendations and arrange for closure of findings if any raised	Is it the responsibility of bidder to perform IS audits and VAPT or only the implementation of recommendations as per IS audit or VAPT	Already responded
345	193	(b) Broad Guidelines, Process & Controls to be followed , point no.9	Implementation of encryption/decryption mechanism for sensitive information (SPI/BSI) on all the layers of the implementation in consultation with the bank	Require clarity on this point on encryption / decryption since it has to be implemented at application layer. What is expected at hardware layer, is it at the storage level, kindly clarify.	Already responded

346	193	(b) Broad Guidelines, Process & Controls to be followed , point no.11	Log Analysis: The server log analysis would encompass the real-time monitoring of the server, logs. These logs would play an important role in the detection of malicious activities. In case of a malicious activity the same should be alerted to the Bank and intrusion management procedure would be triggered.	Is it the responsibility of the bidder to implement monitoring tools for server monitoring and log analysis , require clarity. Is it the bidder's responsibility to provide those tools , is there any specific tools to be used as per bank's policy , require clarity	Already responded
347	195	(b) Broad Guidelines, Process & Controls to be followed , point no.22	Vendor has to follow standard coding/development/ scripting/customization and practices/processes with proper documentation for automation/integration of any of the services in scope. Ownership for all such software will remain with the bank. All such developments should meet the functional, security, performance & regulatory requirements of the bank	As per our understanding, there is no application coding or development, is it in bidder scope. kindly clarify	Already responded

348	83	Payment Schedule	<p>a) 25% of Hardware cost of with 3 years of comprehensive warranty on delivery</p> <p>b) 15% of Hardware cost of with 3 years of comprehensive warranty - on installation.</p> <p>c) 50% of Hardware cost with 3 years of comprehensive warranty - on commissioning and go live working condition and CDAC audit or any other mechanism as devised by Bank for certifying the material supplied is as per RFP terms.</p> <p>d) Balance will be paid after 90 days of full implementation.</p> <p>e) Payment for AMC will be made quarterly in arrears.</p>	<p>a) 70% of Hardware cost of with 3 years of comprehensive warranty on delivery</p> <p>b) 20% of Hardware cost of with 3 years of comprehensive warranty - on installation.</p> <p>c)10% against PBG submission.</p> <p>d) Payment for AMC will be made quarterly in arrears.</p>	Already responded
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349	81	Description of Services	<p>The Bank intends to procure hardware infrastructure and related software, its installation, integration, implementation and maintenance of Core Banking (Finacle Core Banking version 10.x and future version), Finacle Suite of applications and other application environment of ITFO, based on the department requirement as stated in the RFP for the contract duration of 5 years. For this purpose, bank invites quote as per Scope and Functional Specifications as mentioned in the RFP document.</p>	<p>As per our understanding Core banking application installation, migration and maintenance will be done by Core banking solution provider. Please clarify.</p>	<p>Already responded</p>
350	83	<p>Limited Trial / Pilot Requirements</p>	<p>Bank will adopt Phase wise approach for the implementation instead of Limited Trial / Pilot Requirements.</p>	<p>Kindly clarify , since phasewise approach will delay implementation timelines.</p>	<p>Already responded</p>

351	82	Integration / Migration Requirements with existing systems	Readiness of Infrastructure environment with necessary Software installation by respective OEM (OS, VMware/Virtualization environment, DB,WAS/IHS etc.) to Install the applications	We request you to change Software installtion by bidder/OEM.	Already responded
352	104	Appendix L	Total penalty amount in a given year will be capped to 10% of TCO (as mentioned in Appendix-F) , except clause 17.3 including sub-clause	We request you to change max penalty capped to 5% of TCO per year.	Already responded

353	57	Technical & Functional Specifications	<p>Blade Servers</p> <p>Intel Xeon Gold 6542 Y processors (5th Gen) with 24 Core, 2.9 GHz base frequency</p>	<p>1) RFP is restricting OEMs to use only Blade Systems having Intel CPU. Not all x86 OEMs has blade systems. x86 platform family has Rack and Blade based system. Bidders must have flexibility in proposing either Rack / Blade based system having Intel / AMD based Processors</p> <p>2) RFP is specifying exact CPU Type (ie GOLD) with clock speed. With the RFP clauses, OEMs which has latest x86 technology with AMD could not participate in this RFP. Requesting Bank to have Rack / Blade systems both having either Intel / AMD CPUs</p> <p>3) As per RFP specs, 383 blades are needed, Can bidders use latest technology and reduce servers with Appliance based x86 solution with Linux OS?</p>	Already responded
354	57 - 58	Technical & Functional Specifications	<p>Storage</p> <p>a) Web, APP & DB</p> <p>b) Backup</p>	<p>Usable capacity mentioned without Raid type.</p> <p>Ra) requesting Bank to mention Raid type so that all bidders could quote same Raid type</p>	Already responded

355	58	Technical & Functional Specifications	Propose Balde Chassis as per RFP Terms and Conditions	Can bidders quote AMD based System with latest technology thereby providing equivalent of RFP technical specs	Already responded
356	59	Technical & Functional Specifications	SAN Switch	SAN Switch is traditional / old way of connecting Compute and Storage and is limited to max 32Gbps per port. In the industry, there are latest Appliance based solution which uses high throughput and low latency fabric with each port working at 100 Gbps. Requesting Bank to consider latest technology instead of restricting bidders to use only SAN Switch.	Already responded
357	60	Technical & Functional Specifications	Virtualization/Cloud licenses	As per RFP, "VCF licenses will be provided by the Bank" This is specific to a particular vendor. This restricts bidders to quote latest modern generation solution.	Already responded

358	66	Blade Servers	Operating System	As per RFP, "Also, the hardware should support any version of VMWare upgrade coming in next 5 years.". Need clarification if Bidders can quote Appliance based solution having KVM virtualization and heterogeneous Operating system support.	No Change
359	69	C. BLADE ENCLOSURE	Chassis should be able to support Intel Xeon Gold 6542 Y processors and subsequent generation of Intel Blade Servers.	Need clarification if bidders can quote Appliance based solution which uses rack servers (RFP is demanding Blade Servers). These Appliance based solution uses high throughput and low latency 100Gbps fabric for increasing efficiency. Requesting Bank to consider latest technology instead of restricting bidders to use Blade enclosure / Technology.	Bidder to validate this Clause along with Corrigendum
360	95	APPENDIX I	Certifcaite for local content	Oracle servers are not manufactured locally and we will provide a different format letter	Already responded

361	57	<p>Technical & Functional Specification</p> <p>3 Storage a) Web, APP & DB</p>	<p>DC AZ1 Prod: 185 TB DC AZ2 Prod: 185 TB</p> <p>DR AZ1 Prod: 185 TB DR AZ2 Prod: 185 TB</p>	<p>Request bank to re-confirm if the requirement is 185TB usable per AZ or it is 370TB usable per AZ since this will be configured in Active-Active Metro configuration and will have mirrored data.</p>	<p>Already responded</p>
362	58	<p>Technical & Functional Specification</p> <p>3 Storage b) Backup</p>	<p>DC:500 TB DR/NDR :500TB Total: 1000 TB</p>	<p>This 500TB capacity requirement is conflicting with 700TB mentioned in page 78 (Backup Storage Specification). Request bank to clarify the capacity requirement.</p>	<p>Already responded</p>
363	60	<p>Rack Guidelines</p>	<p>Dimensions (Height x Width x Depth) 2000 x 600 x 1200 mm (Height should not exceed 2000mm inclusive of base/wheels/standons)</p>	<p>Our Solution/Product require 1280mm rack depth. Hence request bank to accept this request and amend the rack dimension to 1300mm depth.</p>	<p>Already responded</p>

364	63	10	<p>The bidder has to ensure data replication for 3 locations i.e., DC, DR and Near Site (Near DC & Near DR). Replication between DC and DR will be asynchronous manner whereas between DC/DR and Near site will be synchronous manner to achieve zero RPO. However, Bank reserves the right to change any of the methodology and architecture any point of time or as and when required.</p>	<p>For Synchronous replication between DC/DR & nearsite, request bank to confirm the network connectivity link type available.</p>	<p>Already responded</p>
365	65	23 (Encryption)	<p>Solution should have all data encrypted i.e. Data at Rest, Data in Motion and Data in Memory</p>	<p>Request Bank to clarify on data in memory encryption. Native memory encryption cannot be done at storage level.</p>	<p>Already responded</p>
366	73	D. SAN Storage 2 (Cache)	<p>Global cache with minimum 256 GB Cache per controller</p>	<p>Request bank to amend the clause to Global/Metro Cache with minimum 256GB Cache per controller.</p>	<p>Already responded</p>

367	73	D. SAN Storage 3 (Capacity)	Storage should be configured with 150 TB usable capacity with all NVMe drive configuration. Proposed storage should be scalable to more than 1 PB usable capacity	The capacity mentioned here is conflicting with the 185 TB mentioned in page 57 (technical & functional Specifications). Request bank to clarify the exact requirement in terms of capacity.	Already responded
368	73	D. SAN Storage 5 (SAN Switch)	Redundant SAN Switches with at least 24 * 16 /32 Gbps ports. Required FC Cables to connect to servers should be provided by the bidde	Request bank to specify the maximum port requirement for future scalability to ensure right model is proposed in the solution. Also, request bank to specify the Lc-lc fc cable length to be considered in the solution.	Already responded
369	78	B. Backup Storage Specification 2 (Cache)	Global cache with minimum 64 GB Cache per controller	Request bank to amend the clause to Global/Metro Cache with minimum 64GB Cache per controller.	Already responded

370	78	B. Backup Storage Specification 3 (Capacity)	Storage should be configured with 700 TB usable capacity with all SATA / SSD disks. Proposed storage should be scalable to more than 5 PB usable capacity	The capacity mentioned here is conflicting with the 500 TB mentioned in page 58 (technical & functional Specifications). Request bank to clarify the exact requirement in terms of capacity. RFP mentions SATA/SSD in disk type, request bank to clarify if NL-SAS 7.2k rpm drives can be used to configure backup target storage.	Already responded
371	81	Scope of Work 3 (Third-Party Components)	Should be integrated with existing HPE 3PAR StoreServ 20850 (20K) Storage	Request bank to clarify/elaborate the integration of existing HPE 3PAR StoreServ 20850 with new solution.	Already responded
372				Extend the per-bid queries submission day by "21st June 24"	Already responded

373	79/199	B. Backup Storage Specification_Clause_7_Tape Library	Tape Library with LTO-9 or Latest tapes to be incorporated for long term backup and offsite copy in case part of the Solution offering	WRT Reference to Page 89/199 b.Backup Storage for DC,DR/NDR, NDC DC 500 TB & DR/NDR 500 TB, Please clarify , Do we consider an Front End TB of 500TB (Each for DC & DR) to be managed and Air-Gapped Protection to be backed up in the Tape Library with appropriate number of LTO9 FC drives and Sufficient Slots to provide the AIR GAP tape solution ?	Already responded
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374	79/199	B. Backup Storage Specification_Clause_7_Tape Library	Tape Library with LTO-9 or Latest tapes to be incorporated for long term backup and offsite copy in case part of the Solution offering. WRT Reference to Page 76/199. [11.] Management: Automatic scheduling for daily, weekly and monthly backup,	Question # 1) Do we consider that the Bank would deploy the Granular , GFS Industry Standard Policy of Daily Incremental ~ Retained for 1 Week, Weekly Sets ~ Retained for 2 Weeks, Monthly Sets Retained for 2 Months and Yearly Sets Retained Forever ... is this Policy the bank would deploy ?? (Question # 2) Please let us know so that , All bidders can calculate the Cartridge Count for this policy with 500TB FET data , wrt for Year 1 Consumables.	Already responded
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375	79/199	B. Backup Storage Specification_Clause_7_Tape Library	Tape Library with LTO-9 or Latest tapes to be incorporated for long term backup and offsite copy in case part of the Solution offering	Requesting the bank to clarify, So that all bidders provide at-par solution , Based on FET=500TB Per Site, Please let us know , that Do you want Bidders offering D2D2T to Factor appropriate No. of LTO9 FC/SAS Tape Drives so as to offer a Native data transfer rate without Compression from Day 1 of apprx 15TB/Hr or 20TB/Hr or More especially required for Weekly & Monthly Data sets backup. (OEM Data Sheet values for Native data Transfer rate) or Let us know , would the Bank give 10 Hrs or 12 Hrs or 14 Hrs or 18 Hrs to achieve the tape backup ??	Already responded
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376	74/199	Backup Software Specification	BACKUP SERVER & MEDIA SERVERS	As the Tape Library required shall be with multiple Drives , has the bank factored The Backup server + Media Servers with FC HBA card & Required Suitable Configuration for optimum data flow for D2D2T , or should the Bidder factor the No of PHYSICAL MEDIA Servers required for this	Already responded
377	62	1.5	The Software should be Perpetual with ATS included back-to-back from OEM for all years. Besides this the software should be covered for Patch and security upgrades for at least 5 years from the date of implementation with no cost to the Bank.	The Software should be Perpetual/ Subscription with ATS included back-to-back from OEM for all years. Besides this the software should be covered for Patch and security upgrades for at least 5 years from the date of implementation with no cost to the Bank.	Already responded
378	58	3.b	Usable Capacity	Capacity/ Instance. Request to please add instance based Licenses also help with the Instance Count.	Already responded

379	74	4.A.2	<p>The solution should support the existing tape libraries at DC and DR site.</p> <p>The bidder has to make the necessary configuration changes for conversion of existing Backup Tapes in compliance with new backup software and provide training to Bank officials for using the Backup software. Also, the bidder is required to manage backup, restoration, other activities related to backup activity, of both new and existing tapes, during the entire contract period.</p>	<ol style="list-style-type: none"> 1. Request you to share the details of the existing Tape Libraries to validate the support for the same 2. Can you please let us know the backup software used for writing backups on the existing tapes? 3. Conversion of Existing tapes is related to services obtained from Bidder, hence can you please remove the following portion of this point from Backup Software Specifications? "The bidder has to make the necessary configuration changes for conversion of existing Backup Tapes in compliance with new backup software and provide training to Bank officials for using the Backup software. Also, the bidder is required to manage backup, restoration, other activities related to backup activity, of both new and existing tapes, during the entire contract period." 	Already responded
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380	75	4.A.3	<p>The proposed backup solution should support heterogeneous Operating system platforms including Microsoft Windows Server 2008R2 and above Windows 10/11, Solaris OS, SUSE Linux Enterprise Server, IBM AIX, Oracle Enterprise Linux (Oracle VM), VMware, Hyper-V, Xen Server, Red Hat Linux, VDI, Ubuntu etc.</p>	<p>1. Microsoft ended extended support for Windows Server 2008 R2 on January 14, 2020. Hence the support to the same can be on best effort basis.</p> <p>So, we request you to revise this point to, "<i>The proposed backup solution should support heterogeneous Operating system platforms including Microsoft Windows Server 2016 and above Windows 10/11, Solaris OS, SUSE Linux Enterprise Server, IBM AIX, Oracle Enterprise Linux (Oracle VM), VMware, Hyper-V, Xen Server, Red Hat Linux, VDI, Ubuntu etc.</i>"</p>	Already responded
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381	75	4.A.3	<p>Backup software should be able to protect the following through online agents enabling granular restores. Major DBs like Oracle, MS SQL, MySQL, Maria DB, etc. and Applications likes SAP, Oracle-Web logic, Oracle-EBS, MS Active Directory, etc. across wide range of popular Windows / Linux / AIX and Unix flavours. All Software licenses should be included in the solution</p>	<p>1. Can you please let us know the type of data to be backed up for Oracle Web Logic and Oracle E Business Suite? 2. Can I request you to rephrase "All Software licenses should be included in the solution" as "Required Backup Software licenses should be included in the solution"</p>	Already responded
382	75	4.A.3	<p>The Proposed backup support VMware , Hyper Visor VM image level backup with option to granular restoration at file level, database instance level etc. It should provide Instant recoveries for any backup to VMware machine.</p>	<p>Regarding this point "<i>It should provide Instant recoveries for any backup to VMware machine.</i>" can you please confirm which which backups are required to be restored as VMware Machine?</p>	Already responded

383	76	4.A.11	Backup Software must support GUI with centralized management / Single interface for management of all backup activities across the entire storage capacity supplied. <i>The backup software must have firewall support</i>	Can you please elaborate the point, "The backup software must have firewall support"?	Already responded
384	76	4.A.12	As a backup tool all audit trails must be logged for tracking any changes on backup server. Should support Log truncation of SQL/Exchange DBs either on daily, weekly or monthly basis depending on the customer's requirement. The backup software should also support purge of archive logs in case of Oracle DB. The log truncation should e supported in both agent-based and agentless backup	Request you to kindly rephrase this point as, " <i>As a backup tool all audit trails must be logged for tracking any changes on backup server. Should support Log truncation of SQL/Exchange DBs either on daily, weekly or monthly basis depending on the customer's requirement. The backup software should also support purge of archive logs in case of Oracle DB. The log truncation should be supported in agent-based Or agentless backup</i> "	Already responded

385	77	4.A.13	Proposed solution should support 24x7 real-time monitoring, with at-a-glance and drill-down views of health, performance and workload of the virtual hosts.	Request you to kindly remove this point, as Real time VM health and performance monitoring and VM backup are two mutually exclusive functionalities - VM Health monitoring is not a requisite functionality for a backup software and additionally this capability is vendor specific.	Already responded
386	77	4.A.13	Proposed solution should support automated action for popular alarms (automated or semi-automated), with at-a-glance and drill-down views of health, performance and workload of the virtual hosts.	Request you to kindly remove this point, as Real time VM health and performance monitoring and VM backup are two mutually exclusive functionalities - VM Health monitoring is not a requisite functionality for a backup software and additionally this capability is vendor specific.	Already responded

387	77	4.A.14	Backup software must have a feature of data validation, whereby a workload (VM with OS and application) is powered-on in a sandbox environment and tested for its recoverability.	Request Bank to kindly rephrase this point as follows, as the required feature does not require an additional sandbox environment for testing and as the current point is vendor specific, "Backup software must have an inbuilt feature of backed up data validation for a VM or VM group without an explicit need of a Sandbox environment. And there should be an out of box report to provide summary information about each VM backup that is validated."	Already responded
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388	78	4.A.14	The proposed backup software should be able to integrate with anti-virus software and scan before recovery of VMs and ensure that any infected VM is not restored or restore it with disabled network adapters to prevent any infection to spread through the network	Request Bank to kindly rephrase this point as follows as the current point is vendor specific,. The point suggested below will provide more clarity on this feature and ensure solution is complete. <i>"The proposed backup software should be able to scan the malware present in the backup copies with its built in capabilities in the software and if it requires third party anti virus software then the same should be provided by the bidder to scan the backup copies before recovery of VMs and ensure that any infected VM is not restored by automatically quarantining the infected backup copies"</i>	Already responded
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389	78	4.A.14	Proposed backup software should have the ability to perform staged restores to enable admins to comply to regulations by selectively deleting files / records which should not be restored from the backup copies. This will help in complying to "right to be forgotten "regulations like GDPR, where user data is deleted from restored backup copies in an auditable manner.	We recommend to rephrase this point to, <i>"Proposed backup software should have the ability to selectively delete files which should not be restored from the backup copies without restoring the backup. This will help in complying to "right to be forgotten "regulations like GDPR, where user data is deleted from restored backup copies in an auditable manner."</i>	Already responded
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390	78	4.A.15	As per Bank Policy	<p>1. Can you please share the Backup Frequency and Backup Retention policy to be followed. Because it will be required to size the Backup Server and storage infrastructure. The backup retention policy to be considered while arriving at the backup storage calculations will require following details,</p> <p>Daily - Incremental Backup - Retained for ?? days</p> <p>Weekly - Full Backup - Retained for ?? weeks</p> <p>Monthly - Full Backup - Retained for ?? Months</p> <p>Yearl - Full Backup - Retained for ?? Years</p> <p>Daily change rate to consider is ?? % and YoY growth rate to consider is ?? %</p> <p>2. Can you please mention the years of sizing to be considered while sizing the backup storage?</p>	Already responded
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391	88	2.d	Backup Software Licenses - To be quoted by bidder	Request you to kindly share the Front End capacity/ Source capacity of the data to be backed up. Also, kindly provide the count of physical and virtual machines to be backed up in DC and in DR and in NDR/ NDC	Already responded
392	57	Sizing guidelines - Blade servers	DC: 220 NDC: 35 DR/NDR: 128 Total: 383	Request you to please provide the breakup of servers for App, web and DC workload at DC, DR/NDR, NDC site.	Already responded
393	57	Sizing guidelines - Blade servers	DC: 220 NDC: 35 DR/NDR: 128 Total: 383	RFP has asked to configure App and web workload on VMware vSAN. It is suggested to configure app and web on rack form factor as blade servers can only scale to 6 drives per server whereas for vSAN configuration more number of internal drives are required per server.	Corrigendum shall be published

394	67	Blade servers - Ethernet Controller	The bandwidth required for network per server is minimum 6 x 10G per server that must be partitioned across minimum two cards to provide card level redundancy with minimum 30G bandwidth available per card.	RFP has asked for 2 * 25 Gbps ports per Blade server. The max bandwidth available will be 25Gbps. While we will populate 2 cards to provide card level redundancy, the total bandwidth available across 2 cards will not be more than 50Gbps where the ask here is for 6 x 10G per server which total to 60Gbps. Request you to please provide clarity on the same.	Corrigendum shall be published
395	66	Blade Servers - SAN connectivity	Should provide two FC connectivity by using Converged Network Adapters or Dual port 16/32 Gbps FC HBA	RFP has asked for ethernet cards and here the ask is for converged adapter. Request you to please confirm if we have to configure converged adapter or configure separate ethernet and FC HBA adapter	No Change

396	68	Rack servers - Network	Should have 3* 2 x Dual port 25/40G SFP+ Card.	10/25Gbps cards supports SFP+ transceivers whereas 40Gb or 100Gb cards support QSFP transceivers. Request you to please chanhe it to dual port 10/25Gbps card. Also, confirm the number of cards to be configured per server.	Corrigendum shall be published
397	70	Blade Chassis - Blade Server Ethernet Interconnect	Interconnect should have switching capability with at least 9000 MTU to support Jumbo Frames. Redundant network modules must be stacked over minimum of two 100G links	Chassis will be populated with required ethernet switches to provide 100Gb uplinks. Hope the understanding is correct	No Change

398	71	Blade chassis - Storage capacity	The enclosure must have provision to support internal storage capacity of minimum 50TB usable space using up to maximum 3.84TB size for 12G SAS Mixed Use SSD Drives for capacity storage and additional 10% of Caching drives, should be considered additionally. The usable storage calculated must be using Raid 1 and without any storage efficiencies like deduplication and compression. This is required to be given in one chassis per site	Blade chassis can only accommodate servers, interconnect switches, PSU and fans. It cannot provide and configure any external SAN storage	Good to have not mandatory
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399	71	Blade chassis -*Blade Server FC Interconnect	The enclosure must have redundant Fibre Channel interconnect modules with minimum 6 x 32Gbps Uplink Ports to the SAN Switch i.e., 6 x 32G uplink bandwidth must be maintained even after one interconnect failure. Each module should be fully licensed to use all available ports. All required licenses to ensure interoperability with Bank's existing fabric must be provide	RFP has asked for converged switches and fiver switches both. If FC switches are configured in chassis, do we still need to provide converged switches as well	Already responded
400	69	Blade chassis	Same enclosure should support 2 and 4 Processor based blade servers of latest generation of Intel Processor.	Intel has launched new family of processors that doesn't support scalable processor so there is no roadmap of 4 socket blade server with DELL. Request you to remove support of 4 processor blade server	Corrigendum shall be published

401	73	Blade chassis	<p>* NOTE: The number of ports required per interconnect has been derived considering the setup which includes 12 servers per chassis. If OEM provides a solution with lesser number of servers per chassis the number of ports required on interconnect must be provided as per the oversubscription, bandwidth and redundancy requirements per chassis. In addition to the count of servers, for Network 1:4 oversubscription has been used whereas for Fibre Channel traffic 1:1 oversubscription is used. OEM can consider 1:2 oversubscription ratio for Fibre Channel in case they provide dual port 32G FC card inside the blade server. The OEM must make sure that the proposed solution must provide dedicated traffic at Chassis level as per the above oversubscription values considered for network and fibre channel traffic</p>	Blade servers specifications has already asked for ports and uplinks required per chassis. Also, as RFP has asked for both options - separate ethernet or multi chassis, the number of uplinks and oversubscription will depend on solution configured. Need more clarity on this point	Already responded
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402	74	Rack	The Proposed solution must factor Racks for optimized sizing to achieve high availability with reduced number of racks. The Maximum Power limit of each chassis should be 10kVA.	DELL MX7000 chassis require 9Kva power which means we we can populate 1 chassis per server. But number of server getting populated per chassis will depend on server configuration.	These are standard guidelines. Bidder to configure as per best practices to ensure SLA guidelines requested by Bank are adherered to
403	59	Rack	a. Estimated count based on sizing may not exceed 17 Racks in total. NB: Considering 6 KVA consumable power/10 KVA Rated Power(Dual) three phase AMPS for each rack	The power consumption per chassis will depend on server configuration. The processors TDP has increased for Intel processors with latest 5th generation launch. So overall consumption will depend on processor, memory and drives configured.	These are standard guidelines. Bidder to configure as per best practices to ensure SLA guidelines requested by Bank are adherered to
404	57 & 58	Sizing Guidelines - Point 3 (Storage)	DC AZ1 & AZ2, DR AZ1 & AZ2	Please elaborate on the AZ1 and AZ2. How will this be implemented. Will there be any data replication/copy/migration between AZ1 & AZ2	AZ1 and AZ2 are to ensure redundant infrastructure availability in active active mode. Further details will be shared with the shortlisted bidder after RFP

405	57 & 58	Sizing Guidelines - Point 3 (Storage)	DC AZ1 & AZ2, DR AZ1 & AZ2	Can the AZ1 & AZ2 be combined into a single FC SAN storage with 370 TB capacity (185 + 185 in one storage)?	Already responded
406	57 & 58	Sizing Guidelines - Point 3 (Storage)	DC AZ1 & AZ2, DR AZ1 & AZ2, NDR. NDC, DC Pre-Prod, DC Non-Prod	Please elaborate on the Performance requirement for the capacity asked	Already responded
407	64	General - Technical Specifications -	Replication - a) VM Level b) Storage Level c) DB Level: Through Oracle Data Guard	Kindly share details about the data replication - - How much will be VM level replication and data changes per hour - What will be the RPO and RTO for VM level replication Similar details required for Storage replication	Replication and Data Changes details including RTO will be shared with Successful Bidder
408	64		Storage Virtualization/Metro Cluster deployment capability at Storage level for Active-Active cluster deployment with AZ (Availability Zone) to ensure Zero downtime.	Please share details about the deployment architecture / functional requirements. - Is there a need to deploy Vmware based Metro Cluster between DC-NDC and DR-NDR - will the database be part of the Metro Cluster	The requirement is for Active-Active Storage deployment across availability Zone.

409	73	Hardware Technical Specification - Section D (SAN Storage)	Active-Active Multicontroller storage with Minimum 2 controllers scalable to 8 within the same cluster	Request to please ammend this clause as scalable to 4 controller	Corrigendum shall be published
410	73	Hardware Technical Specification - Section D (SAN Storage)	Storage should be configured with 150 TB usable capacity with all NVMe drive configuration. Proposed storage should be scalable to more than 1 PB usable capacity	The capacity mentioned in the clause does not match with the capacity mentioned earlier (pg 57/58). Please clarify on the capacity required	Corrigendum shall be published
411	78	Hardware Technical Specification - Section B. (Backup Storage Specification)	Active-Active Multicontroller storage with Minimum 4 controllers scalable to 8 within the same cluster	Please elaborate on the requirement of an Enterprise class, Multi-Controller, Controller-Scalable storage for Backups.	Already responded
412	78	Hardware Technical Specification - Section B. (Backup Storage Specification)	Global cache with minimum 64 GB Cache per controller	Global Cache & Multi-Controller architecture are typically used for Mission Critical workloads. Not for Backups	Already responded
413	78	Hardware Technical Specification - Section B. (Backup Storage Specification)	Storage should be configured with 700 TB usable capacity with all SATA / SSD disks. Proposed storage should be scalable to more than 5 PB usable capacity	capacity asked here is 700 TB, this does not match with capacity asked earlier (page 58 : DC 500 TB, DR 500 TB total 1000 TB)	Corrigendum shall be published

414	81	Scope of Work and Payment Schedule - point 3	Should be integrated with existing HPE 3PAR StoreServ 20850 (20K) Storage	Please elaborate on this point. What is the requirement for integration here?	The requirement is for ensuring archived backup on existing HPE 3PAR StoreServ that Bank is already using Current LTO-7 Tape Drives - 700 (total at DC and DR)
415	82	Scope of Work and Payment Schedule - point 6 (2)	Integrate with other applications such as PIMS, ITAM, etc. as per Bank requirement	please provide details about the PIMS and ITAM that the proposed hardware needs to be integrated with	Details will be shared by the final bidder. However Bank is having industry standard enterprise PIMS and ITAM solutions being managed centrally. The requirement is to ensure the proposed solution can be integrated with these solutions
416	82	Scope of Work and Payment Schedule - point 7 Performance Requirements	Uptime requirement is 99.99%	For a Zero RPO solution, the uptime needs to be higher 99.999% or higher. Request yo make this 99.999% uptime or higher	No Change

417	187	Detailed Scope of Work - 2 (A) Virtualization Stack/ Cloud Deployment and Management	Workload Domain - App and Web Clusters to be deployed with internal storage and VSAN architecture across Availability Zones (Rack) within each site. Database clusters to be deployed with external storage.	Please elaborate on the capacity required using vSAN and capacity required using external storage	Corrigendum shall be published
418	189	Detailed Scope of Work - 2 (F) DR Implementation	Department is looking for setting up NDC (Near Site at DC) and NDR (Near Site at DR) to achieve the Zero RPO requirement. The Near Site may/mayn't be at different geographical locations. Vendor will implement the DR plan accordingly as per Bank's policy including time to time changes as applicable	How is Data Replication envisaged across DC-NDC-DR-NDR. Kindly elaborate on the required deployment ararchitecture? Please share details of Sync and Async storage replication between sites	Already responded
419	190	(b) Storage Management:		Please share breakup of number of hosts in vSAN cluster and number of hosts connected to external storage	Already responded

420			Additional Points that should be part of Storage specifications	For CBS environment (Mission Critical workload), request to include following points in storage solution - Zero Trust Infrastructure, Secure & Tamper Proof Audit Logs, Immutable Secure Snapshots (Cyber Resilience and Compliance), 4 Way DC-DR deployment, Quality of Service, Non Disruptive Upgrades, Data Erasure before decommissioning with certificate of data erasure to be provided, End-to-End T10-Dif (front end ports, cache, back end ports, drives) for data integrity checks at each layer	matrix added as part of corrigendum
421	57 & 58	Sizing Guidelines - Point 3 (Storage)	DC AZ1 & AZ2, DR AZ1 & AZ2	Please elaborate on the AZ1 and AZ2. How will this be implemented. Will there be any data replication/copy/migration between AZ1 & AZ2	Already responded

422	57 & 58	Sizing Guidelines - Point 3 (Storage)	DC AZ1 & AZ2, DR AZ1 & AZ2	Can the AZ1 & AZ2 be combined into a single FC SAN storage with 370 TB capacity (185 + 185 in one storage)?	Already responded
423	57 & 58	Sizing Guidelines - Point 3 (Storage)	DC AZ1 & AZ2, DR AZ1 & AZ2, NDR. NDC, DC Pre-Prod, DC Non-Prod	Please elaborate on the Performance requirement for the capacity asked	Already responded
424	73	Hardware Technical Specification - Section D (SAN Storage)	Storage should be configured with 150 TB usable capacity with all NVMe drive configuration. Proposed storage should be scalable to more than 1 PB usable capacity	The capacity mentioned in the clause does not match with the capacity mentioned earlier (pg 57/58). Please clarify on the capacity required	Corrigendum shall be published
425	78	Hardware Technical Specification - Section B. (Backup Storage Specification)	Active-Active Multicontroller storage with Minimum 4 controllers scalable to 8 within the same cluster	Please elaborate on the requirement of an Enterprise class, Multi-Controller, Controller-Scalable storage for Backups.	Already responded
426	78	Hardware Technical Specification - Section B. (Backup Storage Specification)	Global cache with minimum 64 GB Cache per controller	Global Cache & Multi-Controller architecture are typically used for Mission Critical workloads. Not for Backups	Already responded
427	78	Hardware Technical Specification - Section B. (Backup Storage Specification)	Storage should be configured with 700 TB usable capacity with all SATA / SSD disks. Proposed storage should be scalable to more than 5 PB usable capacity	capacity asked here is 700 TB, this does not match with capacity asked earlier (page 58 : DC 500 TB, DR 500 TB total 1000 TB)	Corrigendum shall be published

428	81	Scope of Work and Payment Schedule - point 3	Should be integrated with existing HPE 3PAR StoreServ 20850 (20K) Storage	Please elaborate on this point. What is the requirement for integration here?	Already responded
429	82	Scope of Work and Payment Schedule - point 6 (2)	Integrate with other applications such as PIMS, ITAM, etc. as per Bank requirement	please provide details about the PIMS and ITAM that the proposed hardware needs to be integrated with	Already responded
430					Already responded
431	85	Scope of Work and Payment Schedule Appendix E	*Onsite at Department/DC/NDC Site **Onsite at DR Site	Onsite OEM RE required at 4 locations	Onsite resource required at Department and DR Site.
432	152	Restrictions 2a	Provider appoints any Sub-Contractor (if allowed) then Service Provider may disclose confidential information to such Sub-Contractor subject to such Sub Contractor giving the Bank an undertaking in similar terms to the provisions of this clause. Any breach of this Agreement by Receiving Party's Covered Person or Sub-Contractor shall also be constructed a breach of this Agreement by Receiving Party.	L2 and L3 can be sub contracted to Dell partner?	No Change

433		Payment for REs	We could not find in RFP	What will be payment terms for Onsite OEM engineers?	Corrigendum shall be published
434	82	Scope of Work and Payment Schedule, Point 6	Readiness of Infrastructure environment with necessary Software installation by respective OEM (OS, VMware/Virtualization environment, DB,WAS/IHS etc.) to Install the applications.	Please provide details about the applications required installation and integration	Corrigendum shall be published
435	83	Scope of Work and Payment Schedule, Point 11	Bank will adopt Phase wise approach for the implementation instead of Limited Trial / Pilot Requirements.	Kindly share how many phases will be considered and tentative duration of each phase	Already responded
436	190	2. DETAILED SCOP OF WORK G) Facility Management Services & Onsite support (n) Housekeeping and daily maintenance	Housekeeping and daily maintenance	Pls elaborate this ask	Already responded
437	190	2. DETAILED SCOP OF WORK G) Facility Management Services & Onsite support (a) Systems / Infrastructure Management	Logs Review and Analysis	Initial Logs review can be done by RE, however detailed log review and analysis to be owned by support team (TAM or SAM)	Already responded
438		Is there any data migration to be done in this project ?		Any data migration scope, if yes will need details	Already responded

439	189	2. DETAILED SCOP OF WORK e) Trainings	Vendor shall train designated SBI officials/partner as per (Appendix-E) for the items in scope for configuration, operation / functionalities, maintenance, support & administration, architecture and components, installation, troubleshooting processes, backup etc.	From training catalogue, customer to share which all training is required.	Already responded
440	76	Ransomware Protection	The backup stored at D2D hardware should be immutable from Ransomware or equivalent attack with below scenario- In case the Media agent is offered using Windows/ RH Linux the mount point should be protected against Ransomware attacks like file encryptions, formatting of disk etc.	PI clarify Bank does Bank need to protect backed up from below scenario as well? Once the retention policy is enabled/defined on offered D2D hardware then system must not allow deletion/modification of backed up data even by the administrator of both Backup software and D2D system, to protect it against destructive ransomware?	Immutable Secure Snapshots requested for Backup Storage

441	78	RPO/ RTO and Recovery Assurance	Proposed backup software should be able to Harden the Linux/OS Repository. This service will prevent backup copies of data from any corruption or ransomware attacks.	In addition to prevent backup copies of data from any corruption or ransomware attack, backup solution must have mechanism to restrict any date and time change of the system to protect against any accidental or intentional expiration of data through change in the Network Time internally or externally to the system. Kindly Clarify?	Required changes have been done as part of Corrigendum
442	78	RPO/ RTO and Recovery Assurance	Backup software should support instant file share recovery in NAS storages to allow users to access files fast after disaster.	Favouring single OEM and restrict other Industry leading solution in Data Protection domain to bid. Kindly remove this clause for other Industry Leading OEM's to participate	Good to have, not mandatory
443	78	Retention	As per Bank Policy	PI provide the bank retention policy with data size to be backed up to sized the solution	Already responded

444	78	B. Backup Storage Specification	Cache - Global cache with minimum 64 GB Cache per controller	Bank has not specified any backup throughput performance ask like eg. 50TB/hr with public referance document for backup workload throughput, Kindly clarify	Corrigendum shall be published
445	67	Ethernet controller -	<p>The bandwidth required for network per server is minimum 6 x 10G per server that must be partitioned across minimum two cards to provide card level redundancy with minimum 30G bandwidth available per card. Each of the network port must be capable of tailoring network connections and speeds based on application needs.</p> <p>One (1) NIC or Equivalent port dedicated for Remote Management</p>	Request you to confirm , confirm if we can propose using 4 x 25G ports per server instead of 6 x 10G ports which will be partitioned across minimum two cards to provide card level redundancy with minimum 50G bandwidth available per card	Corrigendum shall be published

446		Rack Server	Depending on the node type, the server must have 6 x 3.2 TB NVMe in each server for capacity requirement.	request you to confirm on the drive type , mix use or read intensive Nvme drive	Already responded
447		Rack Server	Network : Should have 3* 2 x Dual port 25/40G SFP+ Card.	Request you to confirm on the requirement for network card bandwidth. Card comes with option 10/25G or 40/100G port.	Already responded
448	70	Interconnect Support	Should support simultaneous housing of Ethernet, FC, iSCSI offering Hot Pluggable & Redundancy as a feature. Enclosure should have minimum 6 Interconnect Bays.	Request you to modify the cluse for wider participation of the OEM. Request you to change the cluase " Should support simultaneous housing of Ethernet, FC, iSCSI offering Hot Pluggable & Redundancy as a feature. Enclosure should have minimum 4 Interconnect Bays." Justification: In case of Converged Network solution designed with same level of redundancy and bandwidth provided with lesser number of interconnect.	Corrigendum shall be published

449	73	SAN Switch	Redundant SAN Switches with at least 24 * 16 /32 Gbps ports. Required FC Cables to connect to servers should be provided by the bidder	Request you to provide bifurcation of server count for each data center/AZ to derive the port count of the switch requirement at each site. 24 port in SAN switch may not be sufficient to connect PRD Storage, Backup Storage, Chassis , Tape Library.	Already responded
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450	70	C. BLADE ENCLOSURE	<p>Gachibowli</p> <p>Each enclosure must have total 8 x 25G ports with pair of redundant network modules with 4 x 25G uplink ports respectively in each. i.e., 4 x 25G uplink bandwidth must be maintained even after 50% of interconnect failure and without using multi-chassis aggregation.</p> <p>OR</p> <p>In case of multi-chassis aggregation (not more than 4 chassis in one set), each master enclosure must have redundant master modules to eliminate single point of failure. The multi-chassis setup should have total 32 x 25G uplink ports with 16 x 25G uplink ports for each master enclosure i.e., 16 x 25G uplink bandwidth must be maintained even after 50% of master interconnect failure for multi-chassis set.</p>	<p>Request you to confirm ,100G uplink port with 4 x 25G splitter cable to connect TOR/Leaf Switches in each interconnect module instead of 4 x 25G port each.</p>	<p>These are standard guidelines. Bidder to configure as per best practices to ensure SLA guidelines requested by Bank are adhered to</p>
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451	71	C. BLADE ENCLOSURE	<p>Rabale & NDR Site Each enclosure must have total 20 x 10G ports with pair of redundant network modules with 10 x 10G uplink ports respectively in each. i.e. 10 x 10G uplink bandwidth must be maintained even after 50% of interconnect failure and without using multi-chassis aggregation OR In case of multi-chassis aggregation (not more than 4 chassis in one set), each master enclosure must have redundant master modules to eliminate single point of failure. The multi-chassis setup should have total 72 x 10G uplink ports with 36 x 10G uplink ports for each master enclosure i.e. 36 x 10G uplink bandwidth must be maintained even after 50% of master interconnect failure for multi-chassis set.</p>	<p>Request you to confirm on 100G uplink port with 4 x 25Gspliter cable to connect TOR/Leaf Switches in each interconnect module insend of 10 x 10G port each.</p>	<p>Already responded</p>
452	63	Point 10 - Genral requirment	<p>Installation and implementation of products should to be done by the respective OEMs.</p>	<p>Request you to change the clause to "Installation and implementation of products should to be done by the respective OEMs/ OEM certified SI".</p>	<p>Already responded</p>

453	54	Appendix B - Bidder's Eligibility Criteria	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.	<p>We have undergone restructuring of our company business resulting in formation of subsidiary company to focus on specific line of business of the RFP. Hence the subsidiary bidding company will have to rely on its parent company to comply with the Experience & financial Eligibility clauses of the RFP.</p> <p>Request you to include the clause as: <i>In case the bidding company / firm is hived off from the demerged company, the experience, eligibility etc. as per the requirement of the RFP may be considered as of the demerged company, provided the demerged company doesn't apply in the same RFP process and Novation / Other Relevant Agreement is in place. In that case, Relevant Novation / Other Relevant Agreement need to be submitted</i></p>	No Change
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454	54	Appendix B - Bidder's Eligibility Criteria	The Bidder must have an average turnover of minimum Rs. 400 crore during last 03 (three) financial year(s) i.e. FY 2021-2022, FY2022-2023 and FY 2023-2024.	Audited or Unaudited turnover figures for financial year 2023-24 will only be available for public domain after company AGM. Hence request the Bank to consider TO figures of 2020-21 instead of 2023-24.	No Change
455	54	Appendix B - Bidder's Eligibility Criteria	5. Bidder should have experience of minimum 5 years in providing the Products/Services. The Bidder had minimum 3 project (in BFSI sector) executed each of 100 Crores and above in the last 5 years.	Request you to modify the clause as: 5. Bidder should have experience of minimum 5 years in providing the Hardware Products/Services. The Bidder had minimum 3 project (in BFSI sector) executed each of 100 Crores and above in the last 7 years	No Change
456	54	Appendix B - Bidder's Eligibility Criteria	The Bidder (including its OEM, if any) should either be Class-I or Class-II local supplier as defined under this RFP.	Request not to make "Local content " as compulsory criteria for bidding in this RFP. Hence include this clause as preferential for getting benefits of being Class I or Class II Local supplier.	No Change

457	56	Appendix B - Bidder's Eligibility Criteria	Eligibility criteria mentioned at SI 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:	Request to add the note as below: Eligibility criteria mentioned at SI 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: <i>In case the bidding company / firm is hived off from the demerged company, the experience, eligibility etc. as per the requirement of the RFP may be considered as of the demerged company, provided the demerged company doesn't apply in the same RFP process and Novation / Other Relevant Agreement is in place. In that case, Relevant Novation / Other Relevant Agreement need to be submitted</i>	No Change
458	83	Appendix E - Scope of Work and Payment Schedule	Payment Schedule :		Already responded
459			a) 25% of Hardware cost of with 3 years of comprehensive warranty on delivery	a) 70% of Hardware cost of with 3 years of comprehensive warranty on delivery	Already responded

460		b) 15% of Hardware cost of with 3 years of comprehensive warranty - on installation.	b) 15% of Hardware cost of with 3 years of comprehensive warranty - on installation.	Already responded
461		c) 50% of Hardware cost with 3 years of comprehensive warranty - on commissioning and go live working condition and CDAC audit or any other mechanism as devised by Bank for certifying the material supplied is as per RFP terms.	c) 10% of Hardware cost with 3 years of comprehensive warranty - on commissioning and go live working condition and CDAC audit or any other mechanism as devised by Bank for certifying the material supplied is as per RFP terms.	Already responded
462		d) Balance will be paid after 90 days of full implementation.	d) Balance will be paid after 90 days of full implementation or upon tendering BG of equivalent amount valid till end of the contract period.	Already responded
463		e) Payment for AMC will be made quarterly in arrears.	e) Payment for AMC will be made quarterly in arrears.	Already responded

464	134	Annexure A - PENALTIES AND OTHER TERMS	<ul style="list-style-type: none"> • Delivery of all equipment should be within 6 weeks from date of placing of order. In the event of the any or all equipment(s) not being delivered, installed, tested and commissioned within a period of 12 weeks from date of Purchase Order, a penalty of one (1) percent of the total cost of equipment for each week or part thereof the delay, subject to maximum amount of ten (10) percent of the total cost of equipment will be charged to vendor. This amount of penalty so calculated shall be deducted at the time of making final payment after successful installation and commissioning of hardware. 	<p>Request to increase Delivery timelines as:</p> <ul style="list-style-type: none"> • Delivery of all equipment should be within 16 weeks from date of placing of order. In the event of the any or all equipment(s) not being delivered, installed, tested and commissioned within a period of 16 weeks from date of Purchase Order, a penalty of one (1) percent of the undelivered cost of equipment for each week or part thereof the delay, subject to maximum amount of ten (10) percent of the total cost of equipment will be charged to vendor. This amount of penalty so calculated shall be deducted at the time of making final payment after successful installation and commissioning of hardware. 	Already responded
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465	54	Eligibility Criteria (3)	The Bidder must have an average turnover of minimum Rs. 400 crore during last 03 (three) financial year(s) i.e. FY 2021-2022, FY2022-2023 and FY 2023-2024.	Requesting you kindly amend the clause as, The Bidder must have an average turnover of minimum Rs. 200 crore during last 03 (three) financial year(s) i.e. FY 2021-2022, FY2022-2023 and FY 2023-2024.	No Change
466	54	Eligibility Criteria (5)	Bidder should have experience of minimum 5 years in providing the Products/Services. The Bidder had minimum 3 project (in BFSI sector) executed each of 100 Crores and above in the last 5 years.	Requesting you kindly amend the clause as,Bidder should have experience of minimum 5 years in providing the Products/Services. The Bidder had minimum 3 project (in BFSI sector/PSU/Government/Private Limited) executed each of 30 Crores and above in the last 7 years (Server/Storaes/Switches).	No Change

467	83	Payment schedule	<p>a) 25% of Hardware cost of with 3 years of comprehensive warranty on delivery.</p> <p>b) 15% of Hardware cost of with 3 years of comprehensive warranty - on installation.</p> <p>c) 50% of Hardware cost with 3 years of comprehensive warranty - on commissioning and go live working condition and CDAC audit or any other mechanism as devised by Bank for certifying the material supplied is as per RFP terms.</p> <p>d) Balance will be paid after 90 days of full implementation.</p> <p>e) Payment for AMC will be made quarterly in arrears.</p>	<p>Requesting you kindly amend the clause as,</p> <p>a) 50% of Hardware cost of with 3 years of comprehensive warranty on delivery</p> <p>b) 25% of Hardware cost of with 3 years of comprehensive warranty - on installation.</p> <p>c) 15% of Hardware cost with 3 years of comprehensive warranty - on commissioning and go live working condition and CDAC audit or any other mechanism as devised by Bank for certifying the material supplied is as per RFP terms.</p> <p>d) Balance will be paid after 90 days of full implementation.</p> <p>e) Payment for AMC will be made quarterly in arrears.</p>	Already responded
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468	57	Technical & Functional Specifications	<p>Blade Servers</p> <p>Intel Xeon Gold 6542 Y processors (5th Gen) with 24 Core, 2.9 GHz base frequency</p>	<p>1) RFP is restricting OEMs to use only Blade Systems having Intel CPU. Not all x86 OEMs has blade systems. x86 platform family has Rack and Blade based system. Bidders must have flexibility in proposing either Rack / Blade based system having Intel / AMD based Processors</p> <p>2) RFP is specifying exact CPU Type (ie GOLD) with clock speed. With the RFP clauses, OEMs which has latest x86 technology with AMD could not participate in this RFP. Requesting Bank to have Rack / Blade systems both having either Intel / AMD CPUs</p> <p>3) As per RFP specs, 383 blades are needed, Can bidders use latest technology and reduce servers with Appliance based x86 solution with Linux OS?</p>	Already responded
469	57 - 58	Technical & Functional Specifications	<p>Storage</p> <p>a) Web, APP & DB</p> <p>b) Backup</p>	<p>Usable capacity mentioned without Raid type.</p> <p>Ra) requesting Bank to mention Raid type so that all bidders could quote same Raid type</p>	Already responded

470	58	Technical & Functional Specifications	Propose Balde Chassis as per RFP Terms and Conditions	Can bidders quote AMD based System with latest technology thereby providing equivalent of RFP technical specs	Already responded
471	59	Technical & Functional Specifications	SAN Switch	SAN Switch is traditional / old way of connecting Compute and Storage and is limited to max 32Gbps per port. In the industry, there are latest Appliance based solution which uses high throughput and low latency fabric with each port working at 100 Gbps. Requesting Bank to consider latest technology instead of restricting bidders to use only SAN Switch.	Already responded
472	60	Technical & Functional Specifications	Virtualization/Cloud licenses	As per RFP, "VCF licenses will be provided by the Bank" This is specific to a particular vendor. This restricts bidders to quote latest modern generation solution.	Already responded

473	66	Blade Servers	Operating System	As per RFP, "Also, the hardware should support any version of VMWare upgrade coming in next 5 years.". Need clarification if Bidders can quote Appliance based solution having KVM virtualization and heterogeneous Operating system support.	No Change
474	69	C. BLADE ENCLOSURE	Chassis should be able to support Intel Xeon Gold 6542 Y processors and subsequent generation of Intel Blade Servers.	Need clarification if bidders can quote Appliance based solution which uses rack servers (RFP is demanding Blade Servers). These Appliance based solution uses high throughput and low latency 100Gbps fabric for increasing efficiency. Requesting Bank to consider latest technology instead of restricting bidders to use Blade enclosure / Technology.	Bidder to validate this Clause along with Corrigendum
475	95	APPENDIX I	Certifcaite for local content	Oracle servers are not manufactured locally and we will provide a different format letter	Already responded

476	59	APPENDIX-C	Technical & Functional Specifications	Virtualization/Cloud licenses VCF licenses will be provided by the Bank	Already responded
477	62	APPENDIX-C	1. General	1 Installation and implementation of products should to be done by the respective OEMs	Already responded
478	62	APPENDIX-C	1. General	2 The bidder shall propose direct highest-level OEM support 24x7x365 days for all proposed products with unlimited number of incidents and dedicated support manager should be aligned accordingly in addition to the on-site support as part of RFP	Already responded
479	62	APPENDIX-C	1. General	6 UPTIME a)99.99% FO wise	Already responded
480	62	APPENDIX-C	1. General	6 UPTIME b)Bidder has to maintain inventory at local place to ensure uptime SLA as per Scope of this RFP	Already responded

481	62	APPENDIX-C	1. General	7. The bidder shall ensure that all the proposed hardware/software components as part of the solution shall have the ability to run on proposed Solution based on the x86 architecture	Already responded
482	62 - 65	APPENDIX-C	1. General	Clause 1 to 23	Already responded
483	63	APPENDIX-C	1. General	10. A centralized console for central management and monitoring of the proposed hardware solution at DC, DR and Near Site to be provided by the bidder The console should have capability to monitor the Data Centre Operation in terms of availability, performance, incidences, ticketing, SLA etc (at each level, ie. OS, Network, Database, Application, Middleware etc).	Already responded
484	63	APPENDIX-C	1. General	14. Integrated Dashboards to Monitor Cluster and Individual VM with capability of drilling down to Application/Network/Hardware level	Already responded

485	63	APPENDIX-C	1. General	16 Bidder to ensure High Availability at all possible layer (App, Web, DB, Infra) and component level (H/w, S/w, Interconnection) to ensure NSPOF (No Single Point of Failure) by design and deployment	Already responded
486	63	APPENDIX-C	1. General	17 Automated delivery of data-center services such as a) Compute b) Storage c) Networking d) Backup e) Replication f) Load balancing g) Fault tolerance h) Security i) Firewall j) Deployment of AV, Firmware, Patch(H/w,s/w,OS, Application) k) DR Drill	Already responded

487	64	APPENDIX-C	1. General	19 Solution design should ensure the best practice as per Bank's IS Policy and Industry practice at all possible level to segregate Prod/Non-Prod Data, Management/Workload Data, Backup/Replication, etc. Bidder must ensure sufficient Port availability at Storage and other equipment level to avoid any performance issue.	No Change
488	64	N	1. General	17. Built-in replication capability which will enable efficient array-agnostic replication of virtual machine data over the LAN or WAN.	No Change
489	64	APPENDIX-C	1. General	20 Storage Virtualization/Metro Cluster deployment capability at Storage level for Active-Active cluster deployment with AZ (Availability Zone) to ensure Zero downtime	The requirement is for Active-Active Storage deployment across availability Zone.

490	65	APPENDIX-C	1. General	23 Encryption Solution should have all data encrypted i.e. Data at Rest, Data in Motion and Data in Memory	Already responded
491	66	APPENDIX-C	2. HARDWARE A. BLADE SERVERS	7 Operating System Should be Software agnostic and Compatible with VMware ESXi Server version 7.0 U2 or later.	No Change
492	66	APPENDIX-C	2. HARDWARE A. BLADE SERVERS	10. Management The management software must have the capability of providing proactive alerting wherever possible	No Change
493	193	APPENDIX-T BROAD SCOPE OF WORK	(H) Service delivery and control requirements (b) Broad Guidelines, Process & Controls to be followed	11. Log Analysis: The server log analysis would encompass the real-time monitoring of the server, logs. These logs would play an important role in the detection of malicious activities. In case of a malicious activity the same should be alerted to the Bank and intrusion management procedure would be triggered.	Already responded

494	67	APPENDIX-C	2. HARDWARE A. BLADE SERVERS	14 Ethernet Controller Each of the network port must be capable of tailoring network connections and speeds based on application needs.	No Change
495	73	APPENDIX-C	D. SAN STORAGE		Already responded
496	73	APPENDIX-C	D. SAN STORAGE		Already responded
497	74	APPENDIX-C	4. BACKUP A. Backup Software Specification	2. The solution should support the existing tape libraries at DC and DR site	Already responded
498	74	APPENDIX-C	4. BACKUP A. Backup Software Specification	The bidder has to make the necessary configuration changes for conversion of existing Backup Tapes in compliance with new backup software and provide training to Bank officials for using the Backup software	Already responded

499	74	APPENDIX-C	4. BACKUP A. Backup Software Specification	The bidder has to make the necessary configuration changes for conversion of existing Backup Tapes in compliance with new backup software and provide training to Bank officials for using the Backup software	Already responded
500	74	APPENDIX-C	4. BACKUP A. Backup Software Specification		Already responded
501	74	APPENDIX-C	4. BACKUP A. Backup Software Specification		Already responded
502	74	APPENDIX-C	4. BACKUP A. Backup Software Specification		Already responded
503	74	APPENDIX-C	4. BACKUP A. Backup Software Specification	Also, the bidder is required to manage backup, restoration, other activities related to backup activity, of both new and existing tapes, during the entire contract period	Already responded
504	78	APPENDIX-C	4. BACKUP B. Backup Storage Specification		Already responded

505	79	APPENDIX-C	4. BACKUP B. Backup Storage Specification	6 Other Bidders are free to propose purpose built backup appliance (PBPA) but should ensure high availability and no single point of failure as part of the proposed solution	Already responded
506	79	APPENDIX-C	4. BACKUP B. Backup Storage Specification	7 Tape Library Tape Library with LTO-9 or Latest tapes to be incorporated for long term backup and offsite copy in case part of the Solution offering	Already responded
507	81	APPENDIX-E Scope of Work and Payment Schedule	APPENDIX-E Scope of Work and Payment Schedule	Third-Party Components Should be integrated with existing HPE 3PAR StoreServ 20850 (20K) Storage	Already responded
508	82	APPENDIX-E Scope of Work and Payment Schedule	APPENDIX-E Scope of Work and Payment Schedule	4 Term of the Project - Project Schedule; Milestones and delivery locations Installation and commissioning should be completed within 6 weeks of hardware delivery at each location	Already responded

509	82	APPENDIX-E Scope of Work and Payment Schedule	APPENDIX-E Scope of Work and Payment Schedule 8 Scalability Requirements	a) To be scalable as per Bank's future requirement (vertical and horizontal scalability required).	Already responded
510	82	APPENDIX-E Scope of Work and Payment Schedule	APPENDIX-E Scope of Work and Payment Schedule 8 Scalability Requirements	b) Rate discovered will be valid for two year and if there are requirement Bank may place order for additional Hardware/Equipment up to 25% quantity on discovered price for which RFP is floated.	Already responded
511	82	APPENDIX-E Scope of Work and Payment Schedule	APPENDIX-E Scope of Work and Payment Schedule	9 Regulatory / Compliance Requirements As per Bank's Compliance Policy SCHEDULE 3 Technical and Organisational Data Protection Measures	Already responded
512	186	APPENDIX-T BROAD SCOPE OF WORK	2. DETAILED SCOP OF WORK	A Virtualization Stack/ Cloud Deployment and Management	Already responded

513	189	APPENDIX-T BROAD SCOPE OF WORK	(F) DR Implementation	Department is looking for setting up NDC (Near Site at DC) and NDR (Near Site at DR) to achieve the Zero RPO requirement.	Already responded
514	193	APPENDIX-T BROAD SCOPE OF WORK	(H) Service delivery and control requirements (b) Broad Guidelines, Process & Controls to be followed	(b) Broad Guidelines, Process & Controls to be followed 8. Vendor has to carry out all the necessary testing required for IS audits, SOC alerts, VA/PT on a periodic basis and has to cooperate in the process, adhere to the recommendations and arrange for closure of findings if any raised	Already responded
515	196	APPENDIX-T BROAD SCOPE OF WORK	(H) Service delivery and control requirements (b) Broad Guidelines, Process & Controls to be followed	31. Vendor will be responsible for implementing the information security for project infrastructure which may include	Already responded

516	54	Appendix B	Bidders Eligibility Criteria	Bidder should have experience of minimum 5 years in providing the Products/Services. The Bidder had minimum 3 project (in BFSI sector) executed each of 100 Crores and above in the last 5 years.	No Change
517		Generic, related to scope	<p>Q We would like to arrive at manpower skills, effort, time and cost to be factored for the project. For this we request the Bank to Provide locations wise/ total count of</p> <ol style="list-style-type: none"> 1) Count of bare metal servers and 2) Count of clusters to be created 3) Count of blueprints to be created 4) Count of Projects to be created 5) Count of tenants to be created 6) Count of business groups to be created 		Already responded