Corrigendum to RFQ for Supply, Installation, Configuration, Implementation & Support of Hyper-Converged Infrastructure and Software Solution for Expansion of Bank's On-Premises Private Cloud under Rate Contract

Last Date of Bid Submission is Extended up to 09.06.2022

Sl. No.	Clause no.	Page no.	Clause	Query	Bank Response
1	Bid Details	5	Bid Details	We express our keen desire and interest to participate in the aforementioned tender. We understand the last day of submission of queries was 12th May,2022, however we would like to request to kindly extend the last day of submission of the tender to 10 th June,2022	Last date of bid submission is extended up to 09.06.2022
2	Bid details	5	EMD : Rs.3,25,00,000/- (Rupees Three Crore Twenty Five Lac Only) in the form of Demand Draft in favor of Union Bank of India, payable at Mumbai. EMD can also be paid in the form of Bank Guarantee (BG) of any scheduled commercial Bank other than Union Bank of India and should be valid for 6 months from the date of bid submission with a claim period of 45 days.	Requesting the bank to modify to: Rs.50,00,000/- (Rupees Fifty Lac Only) in the form of Demand Draft in favor of Union Bank of India, payable at Mumbai. EMD can also be paid in the form of Bank Guarantee (BG) of any scheduled commercial Bank other than Union Bank of India and should be valid for 6 months from the date of bid submission with a claim period of 45 days.	Please be guided by RFP
3		5	Rs.3,25,00,000/- (Rupees Three Crore Twenty Five Lac Only) in the form of Demand Draft in favor of Union Bank of India, payable at Mumbai. EMD can also be paid in the form of Bank Guarantee (BG) of any scheduled commercial Bank other than Union Bank of India and should be valid for 6 months from the date of bid submission with a claim period of 45 days.	We request UBI to allow us to submit bid security declaration against EMD, since it does constitute equal pressure on to the bidder to abide all pre-contractual activity. If it is not possible then we request to change DD in to EMD	Please be guided by RFP

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4	10	6.4	Bidder should have operating Profit (as EBITDA i.e. Earnings Before Interest, Tax, Depreciation & Amortization) in the last three financial years i.e. 2019-20, 2020-21 and 2021-22. In case the audited financials for the year 2021-22 is not available, CA Certificate with UDIN number for EBITDA of 2021-22 / audited financials of 2018-19 should be submitted. Bidder should also provide self declaration that statutory audit for the FY 2021-22 is not completed. Copies of the audited balance sheet and Profit/Loss statement of the company is to be submitted.	"We Request bank to exempt this clause for Start-Up India Company with valid Certificate of Recognition issued by Department for Promotion of Industry and Internal Trade (DPIIT), (erstwhile Department of Industrial Policy and Promotion), Ministry of Commerce & Industry, Govt. of India DPIIT has issued notification dated 8 November 2016 for Prior turnover and Prior Experience exemption for the start-up recognized organisations registered. "	Bank Shall Follow Govt Guidelines/Notifications for Public Procurement. As per Policy Circular No.1(2)(1)/2016-MA dated 10.03.2016 issued by GOI and F.20/2/2014-PPD (Pt) dated 20.09.2016, bank may relax condition of prior turnover and prior experience with respect to Micro and Small Enterprises and Startups subject to meeting of quality and technical specifications.
5	12	7	Backup Software license of 200 physical sockets/capacity-based license for entire appliance capacity.	Reques bank to ammend the clause to "Backup Software license of 200 physical sockets/capacity/instance based license for entire appliance capacity."	Please be guided by RFP
6	3.2, 3.6, 4.1,	8	backup solution at its Primary Site (PR) and Disaster Recovery (DR) Site.	Is backup required for DR as well i.e both DC - DR sites will be in active - active mode or in Active-Passive in nature? Please advice. If both sites will be in active - active mode , pelase advcie number of sockets for the DR site in active stage to be factored for any mission critical application requirement persae.	Clarification: Backup will be in active-active mode. Bank may run applications from DR site as well and in such cases Bank should be able to take the backup of such application which is running from DR site.

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7	6.3	10	The bidder should have minimum average turnover of Rs.385.00 Crore of previous three financial years i.e. 2019-20, 2020-21 and 2021-22 as per the audited balance sheet available at the time of submission of tender. In case the audited financials for the year 2021-22 is not available, CA Certificate with UDIN number for turnover of 2021-22 / audited financials of 2018-19 should be submitted. Bidder should also provide self declaration that statutory audit for the FY 2021-22 is not completed. This must be the individual company turnover and not that of any group of companies. Copies of the audited balance sheet and P&L Statement of the company showing the same is to be submitted.	Request you to confirm if CA Certificate is required for average turnover for FY 2019-20,2020-21,2021-22 as documentary evidence	**Clarification:** CA Certificate is required for the year 2021-22 if audit is not completed. For rest of the financial year audited balance sheet is required.
8	6.4	10	Bidder should have operating Profit (as EBITDA i.e. Earnings Before Interest, Tax, Depreciation & Amortization) in the last three financial years i.e. 2019-20, 2020-21 and 2021-22. In case the audited financials for the year 2021-22 is not available, CA Certificate with UDIN number for EBITDA of 2021-22 / audited financials of 2018-19 should be submitted. Bidder should also provide self declaration that statutory audit for the FY 2021-22 is not completed. Copies of the audited balance sheet and Profit/Loss statement of the company is to be submitted.	Request you to confirm if CA Certificate is required for operating profit details for FY 2019-20,2020-21,2021-22 as documentary evidence	**Clarification:** CA Certificate is required for the year 2021-22 if audit is not completed. For rest of the financial year audited balance sheet is required.

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9	6.3	10	The bidder should have minimum average turnover of Rs.385.00 Crore of previous three financial years i.e. 2019-20, 2020-21 and 2021-22 as per the audited balance sheet available at the time of submission of tender. In case the audited financials for the year 2021-22 is not available, CA Certificate with UDIN number for turnover of 2021-22 / audited financials of 2018-19 should be submitted. Bidder should also provide self declaration that statutory audit for the FY 2021-22 is not completed. This must be the individual company turnover and not that of any group of companies. Copies of the audited balance sheet and P&L Statement of the company showing the same is to be submitted.	We being a MSME organisation could not match the expectation on the turnover clause of 385 crore Please reduce the turnover to 150 Crore minimum	Bank Shall Follow Govt Guidelines/Notifications for Public Procurement. As per Policy Circular No.1(2)(1)/2016-MA dated 10.03.2016 issued by GOI and F.20/2/2014-PPD (Pt) dated 20.09.2016, bank may relax condition of prior turnover and prior experience with respect to Micro and Small Enterprises and Startups subject to meeting of quality and technical specifications.
10	6.2	10	The bidder should be a company registered in India as per Company Act 1956 /2013 or a Limited Liability Partnership company under the Limited Liability Partnership Act 2008 in India or Government Organization/PSU and should have experience of minimum 5 years in existence in India from the date of issuance of RFQ. Certificate of incorporation/certificate for commencement of business/other relevant documentary proof is to be submitted.	"We Request bank to exempt this clause for Start-Up India Company with valid Certificate of Recognition issued by Department for Promotion of Industry and Internal Trade (DPIIT), (erstwhile Department of Industrial Policy and Promotion), Ministry of Commerce & Industry, Govt. of India DPIIT has issued notification dated 8 November 2016 for Prior turnover and Prior Experience exemption for the start-up recognized organisations registered. "	Bank Shall Follow Govt Guidelines/Notifications for Public Procurement. As per Policy Circular No.1(2)(1)/2016-MA dated 10.03.2016 issued by GOI and F.20/2/2014-PPD (Pt) dated 20.09.2016, bank may relax condition of prior turnover and prior experience with respect to Micro and Small Enterprises and Startups subject to meeting of quality and technical specifications.

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11	6.3	10	The bidder should have minimum average turnover of Rs.385.00 Crore of previous three financial years i.e. 2019-20, 2020-21 and 2021-22 as per the audited balance sheet available at the time of submission of tender. In case the audited financials for the year 2021-22 is not available, CA Certificate with UDIN number for turnover of 2021-22 / audited financials of 2018-19 should be submitted. Bidder should also provide self declaration that statutory audit for the FY 2021-22 is not completed. This must be the individual company turnover and not that of any group of companies. Copies of the audited balance sheet and P&L Statement of the company showing the same is to be submitted	"We Request bank to exempt this clause for Start-Up India Company with valid Certificate of Recognition issued by Department for Promotion of Industry and Internal Trade (DPIIT), (erstwhile Department of Industrial Policy and Promotion), Ministry of Commerce & Industry, Govt. of India DPIIT has issued notification dated 8 November 2016 for Prior turnover and Prior Experience exemption for the start-up recognized organisations registered. "	Bank Shall Follow Govt Guidelines/Notifications for Public Procurement. As per Policy Circular No.1(2)(1)/2016-MA dated 10.03.2016 issued by GOI and F.20/2/2014-PPD (Pt) dated 20.09.2016, bank may relax condition of prior turnover and prior experience with respect to Micro and Small Enterprises and Startups subject to meeting of quality and technical specifications.
12	6.2	10	The bidder should be a company registered in India as per Company Act 1956 /2013 or a Limited Liability Partnership company under the Limited Liability Partnership Act 2008 in India or Government Organization/PSU and should have experience of minimum 5 years in existence in India from the date of issuance of RFQ. Certificate of incorporation/certificate for commencement of business/other relevant documentary proof is to be submitted.	"We Request bank to exempt this clause for Start-Up India Company with valid Certificate of Recognition issued by Department for Promotion of Industry and Internal Trade (DPIIT), (erstwhile Department of Industrial Policy and Promotion), Ministry of Commerce & Industry, Govt. of India DPIIT has issued notification dated 8 November 2016 for Prior turnover and Prior Experience exemption for the start-up recognized organisations registered. "	Bank Shall Follow Govt Guidelines/Notifications for Public Procurement. As per Policy Circular No.1(2)(1)/2016-MA dated 10.03.2016 issued by GOI and F.20/2/2014-PPD (Pt) dated 20.09.2016, bank may relax condition of prior turnover and prior experience with respect to Micro and Small Enterprises and Startups subject to meeting of quality and technical specifications.

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13	6.3	10	Eligbility Criteria	We understand that UBI would like to have almost about 120 HCI nodes in a span of 2-year Rate Contract. This is quite large Cloud Infrastructure requirement in comparison to your incumbent cloud infrastructure in your current environment which is hardly 25-40 HCI nodes. With this in mind, it is ideal that UBI must inevitably look at leading solutions in Enterprise Cloud Infrastructure rather than going ahead with SINGULAR NAMED RFP of one specific vendor. We request you to kindly evaluate a neutral and competing Cloud Solution in order to fulfill your requirement. We also request you to change the Turnover eligibility criteria to 200 Crores so that more bidders can participate for a healthy competition.	Please be guided by RFP
14	6.2	10	Annexure 6.2 Eligibility Criteria- The bidder should be a company registered in India as per Company Act 1956 /2013 or a partnership firm / a Limited Liability Partnership firm under the Limited Liability Partnership Act 2008 and should be in existence for last 5 years from the date of issuance of RFP. (Certificate of incorporation/certificate for commencement of business/other relevant documentary proof is to be submitted).	As our organization name has changed and our division has been hived to separate company about 3 months back. Thus we should be allowed to submit certificate of Incorporation and years on account of acquisition or otherwise, supporting evidence should be provided to comply with minimum experience requirement	Please be guided by RFP
15	6.3	10	Annexure 6.3, Eligibility Criteria Evaluation Criteria, The Primary Bidder should have a minimum annual turnover of at least Rs. 10 crores in each of the last three (3) financial years (2018-19, 2019-20 and 2020-21).	As our organization name has changed and our division has been hived to separate company about 3 months back. Thus we should be allowed to submit with minimum experience requirement and Balance sheet of original company for last 3 years	Please be guided by RFP
16	6.4	10	Annexure 6.4 Eligibility Criteria Bidder should have positive profit (as EBITDA i.e., Earnings before Interest, Tax, Depreciation & Amortization) in the last three financial years, (2018-19, 2019-20 and 2020-21).	As our organization name has changed and our division has been hived to separate company about 3 months back. Thus we should be allowed to submit with minimum experience requirement and Balance sheet of original company for last 3 years	Please be guided by RFP.

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17	6.5	11	Bidder/OEM must have supplied and implemented the VMware Private Cloud Solution and hypervisor in a BFSI/Central/State Govt. during the past 3 years in India as on the date bid submission of RFQ. (The bidder has to submit PO and Project sign off/performance certificate/any proof for completion of project as supporting documents for the same)	We are the partner but would provide the OEM details Provision to provide the OEM PO/Performance Certificate of project sign off	Credentials of OEM in terms of suply and implementation experiences is accepted.
18	Eligibility Criteria 6.5	11	Bidder/OEM must have supplied and implemented ..	Can OEM fulfill these criteria while bidder is System Integrator.	**Clarification:** As entire hardware and software installation, deployment and configuration is done by OEM, so OEM can fulfill this criteria
19	Eligibility Criteria 6.6	11	Bidder/OEM must have supplied and implemented ..	Can OEM fulfill these criteria while bidder is System Integrator.	**Clarification:** As entire hardware and software installation, deployment and configuration is done by OEM, so OEM can fulfill this criteria
20	7. Scope of works Sl No.2(Item description)	12	All flash Hyper-Converged Appliance with 3 years warranty (27 all flash nodes each for DC & DR site) as per specifications of Annexure E.	Request you to kindly clarify whether bank needs an appliance or VSAN readynode	**Clarification:** Bidder will quote and supply vSAN ready nodes only as per this RFP.
21	6.6	12	Bidder/OEM must have supplied minimum 50 vSAN ready Hyper-Converged Nodes of proposed OEM in a single Organization in a BFSI/Central or State Govt. during the past 3 years in India as on the date bid submission of RFQ. (The bidder has to submit PO and Project sign off/performance certificate/any proof for completion of project as supporting documents for the same)	We are the partner but would provide the OEM details Provision to provide the OEM PO/Performance Certificate of project sign off	Credentials of OEM in terms of suply and implementation experiences is accepted.
22	7	12	Scope of work - Flash Storage 200 TB usable ca	Will this storage capcity be a part of HCI appliance or needed doutside as a separate storage BOX?Need clarity	**Clarification:** Bank has asked separate storage of 200 TB (100 TB each at DC & DR Site) apart from HCI nodes.
23	5	12	TOR (Top of the Rack) L3 Switch with 24x1 Gbps and 6x10 Gbps uplink.	If we go into page no. 17 (clause 7.26), then ask is for TOR with 1/10Gbps instead of 1Gbps as aked on page no. 12. Thus, kindly clarify on actual ask whether 1Gbps or 10 Gbps	**Clarification:** 4 nos of switches are of 24x1/10Gbps and 6x10 Gbps uplink ports
24	4	12	TOR (Top of the Rack) L3 Switch with 48x10 Gbps and 6x40 Gbps uplink.	If we go into page no. 17 (clause 7.25), then ask is for TOR with 10/25Gbps instead of 10Gbps as aked on page no. 12. Thus, kindly clarify on actual ask whether 10Gbps or 25 Gbps	**Clarification:** 12 nos of switches are of 48x25Gbps and 6x40 Gbps uplink ports

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25	Serial Number 5 of Table of Clause 7	12	TOR (Top of the Rack) L3 Switch with 24x1 Gbps and 6x10 Gbps uplink.	Request you to kindly change the uplink ports to 4X10 Gbps	Serial number 5 of Table of RFP Clause 7 is revised as: TOR (Top of the Rack) L3 Switch with 24x1/10 Gbps and 4x10 Gbps uplink.
26	7	12	Bank is in process of expanding existing On-Premise Private Cloud Infrastructure which is built on VMware Private Cloud solution. Bank will procure vSAN ready Hyper-Converged Infrastructure nodes, VMware virtualization solution, VMware private cloud solution, backup solution and various software licenses as mentioned below for several applications running at both DC (Data Center), Mumbai and DR (Disaster Recovery) site, Bengaluru under rate contract.	Bidder request for Existing Infrastrcuture details Including OEM, Model Number and Configuration, Software,Backup and vPCs License type, Consumed licenses and free license, OS details , Backup Storage(Disk based and LTO) capacity consumed and Free for all 3 Sites., LTO Type.	Please be guided by RFP.
27	7	12	Bank is in process of expanding existing On-Premise Private Cloud Infrastructure which is built on VMware Private Cloud solution. Bank will procure vSAN ready Hyper-Converged Infrastructure nodes, VMware virtualization solution, VMware private cloud solution, backup solution and various software licenses as mentioned below for several applications running at both DC (Data Center), Mumbai and DR (Disaster Recovery) site, Bengaluru under rate contract.	Bidder Seeks clarity , If the Bank wants to add new Nodes of vSAN to existing cluster or new cluster needs to be created. If with Existing Clsuter , then please share the Cluster details with count of Nodes in the same for each site.with the Licneses used.	**Clarification:** Nodes procured through this RFP will added in the existing cluster. Bank is also procuring necessary software licesnes for the hardware procured through this RFP. So exisiting licenses details is not required to the bidder.
28	7. 3 Table	12	Flash Storage 200 TB usable capacity(qty 2)	Please clarify the Purpose or the role of the Flash Storage. Is it part of HCI storage or its a separate Storage Array	**Clarification:** It is a separate storage and not part of HCI storage array.
29	Serial Number 4 of Table of Clause 7	12	TOR (Top of the Rack) L3 Switch with 48x10 Gbps and 6x40 Gbps uplink.	Please clarify the 10Gbps Ports are Optical or Copper RJ45.	Serial number 4 of Table of RFP Clause 7 is revised as: TOR (Top of the Rack) L3 Switch with 48x25 Gbps and 6x40 Gbps uplink. It is upto the bidder to supply optical or copper.
30	7. 4 Table	12	TOR (Top of the Rack) L3 Switch with 48x10 G|	Does Bidder has to Include the cables required for the same. If yes, please share the Cable length required	**Clarification:** All the hardware will be accomodated into three rack. Accordingly bidder will arrange the cable length.
31	7. 5 Table	12	TOR (Top of the Rack) L3 Switch with 24x1 Gbps and 6x10 Gbps uplink.	Please clarify the Ports are Optical or Copper RJ45.	**Clarification:** Port will be Copper RJ45.

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32	7. 5 Table	12	TOR (Top of the Rack) L3 Switch with 24x1 Gbps and 6x10 Gbps uplink.	Will Bank take care of the SFPs in existing Core switch required for Uplinks from TOR switches?	**Clarification:** Yes, Bank will take care any requirement of uplink connectivities.
33	7. 6 Table	12	Backup Software license of 200 physical sockets/capacity-based license for entire appliance capacity.	Bidder Seeks clarity, If we have to add new Backup Licenses in existing Backup enviornment If yes, Please share the Backup Structure(Connectivty, Licenses, Backup server & Storage configuration with Available and Consumed capacity & Backup Policy).	Please be guided by RFP
34	7. 7, 7.8, 7.9 Table	12	VMware vSphere with Operation Management	Please share the existing Licenses Details with Version.	Please be guided by RFP
35	7. 6 Table	12	Backup Software license of 200 physical sockets/capacity-based license for entire appliance capacity.	As per BOQ, The total sockets including DC and DR is 204 and the Backup Licneses qty if 200. Bidder seecks clarity on the License quantity and the type of license.	Please be guided by RFP
36	7. 6 Table	12	Backup Software license of 200 physical sockets/capacity-based license for entire appliance capacity.	Bidder seeks clarity on the mentioned backup licneses of 200. Does Bidder needs to quote either 200 Physical Socket Based licneses or 200TB Capacity (Front end TB) Based licenses? If 200TB Capacity Based license then, Bidder would like to know, wether DC DR are Active Active Sites and Independant Backup will be performed at Both sites Simultaneously.	Please be guided by RFP
37		12	Backup Appliance 3x1PB usable capacity without compression and de-duplication (1 PB each at DC & DR Site and AirGap)	Bidder would like to have more clarity on Airgap site . How data will be Backedup at Airgap site and where is the AirGap site?	Please be guided by RFP

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38	Serial Number 13 of Table of Clause 7	13	Redhat Enterprise Datacenter Linux (unlimited Virtual Machines per physical host) with premium support	The Bank has been an existing RHEL customer and making effective use of the Smart Management functionalities such as: - Live Kernel patching, - Vulnerability: Assess, monitor, report, and remediate common vulnerability and exposures (CVEs) in your Red Hat environment. - Compliance: by assessing, monitoring, reporting, and remediating industry-specific noncompliance issues across your systems. - System comparison: Easily compare environment configurations to identify differences and assist troubleshooting. However with the current environment in the RFP the ask for the smart management subscription is missing. Request you to re-consider the subscription and include the one with Smart Management.	Serial number 13 of Table of RFP Clause 7 is revised as: Redhat Enterprise Datacenter Linux (unlimited Virtual Machines per physical host) with smart management premium support
39	7. Scope of Work: 7.2	13	Bank may change the locations at a future date. . dismantling, shifting to new location, re- installation at the new location and making the entire system operational without any additional cost	We request bank to clarify if the shifting can be done by by the bidder.	Please be guided by RFP
40	7.1	13	with response time of 4 hours and resolution t	Since the Bank need the resolution in 6 Hrs, We are requesting you to incluse some Resident engineers from the Bidder side for 24*7 operations	Please be guided by RFP
41	7.2	13	The selected Bidder should take responsibility for dismantling, shifting to new location, re installation at the new location and making the entire system operational without any additional cost to Bank. However, Bank will reimburse the transportation charges, if any, at actual on submission of bills.	We hope the insurance will be in the purview of the Bank	**Clarification:** Transit Insurance will be borne by Bank for shifting, however, insurance must be taken and cost should be borne by bidder for initial delivery and installation as per RFP Clause 39.
42	7.13 Table of Scope of work	13	Redhat Enterprise Datacenter Linux (unlimited	Bidder seeks clarity on the Redhat Linux License type and the quantity mentioned Is it Red Hat Enterprise Linux for Virtual Datacenters ?	Please be guided by RFP

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43	7.Scope of works 7.5	14	Bank's present cloud setup is deployed on vSAN HCI Intel Nodes and new proposed nodes procured through this RFQ will be part of the same setup as Bank is expanding the existing cloud infra. New nodes will be added into the existing clusters to expand the capacity to meet the resource requirement of existing applications as well as host new applications. Bank will also create new cluster as per requirement and existing VMs must be able to migrate online from one cluster to another cluster seamlessly without impacting the running applications.	Banks initiative of a new cluster is welcomed and recommended . Existing cluster would have different generations of processors from a single manufacturer including the latest ones asked for in the current RFQ . Each generation has some additional features and functionalities over its predecessor . Due to the same efficiencies and features of the existing cluster are likely to be impacted and the bank may not be able to use the cluster as efficiently as the new one .This factor becomes more complicated if the same cluster have different OEM's.In the interest of the bank if the ISV and OEM's can confirm on efficiencies of systems associated based on existing cluster addition approach vs a complete new latest tech based cluster would be of great help	Please be guided by RFP
44	7.7	14	The bidder will also arrange to provide a dedicated a Resident Engineer from VMware. The Resident Engineer must be a permanent employee of VMware and on VMware payroll. The details role and responsibility are mentioned separately in this RFQ.	Residency Support Service can be offered by VMware for supporting the Day 2 Operations for the required VMware technology via a skilled resource onsite at Customer for a defined time period. However, we don't have these personnel on our payroll as a practice and will be staffed as contractors serving the duration of the contract period. Notwithstanding, the ownership of the engagement and the deliverables documented and agreed in the corresponding scope of work stays with VMware through the period of the executed contract. We hence request you to relax the clause as "The bidder will also arrange to provide a dedicated a Resident Engineer from VMware. The Resident Engineer must be provided by VMware with complete ownership engagement of VMware. The details role and responsibility are mentioned separately in this RFQ."	Please be guided by RFP

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45	7. Scope of Work	14	Bank's present cloud setup is deployed on vSAN HCI Intel Nodes and new proposed nodes procured through this RFQ will be part of the same setup as Bank is expanding the existing cloud infra. New nodes will be added into the existing clusters to expand the capacity to meet the resource requirement of existing applications as well as host new applications. Bank will also create new cluster as per requirement and existing VMs must be able to migrate online from one cluster to another cluster seamlessly without impacting the running applications.	We assume the existing setup is on previous generation of Intel CPU. Intel 8358 being the latest geneartion of CPU from Intel, we need to enable EVC option (Enhance vMotion) in order for the nodes to co-exist in same cluster. Hope our assumption is correct. Pls specify the CPU genearion of existing cluster along with Vmware ESXi and vSAN versions.	**Clarification:** EVC mode is already enabled in the exisiting cluster. ESXI 7.0.2, vSAN 7.0.2 and Intel XEON Gold 6258R
46	7. Scope of Work: 7.5	14	New nodes will be added into the existing clusters to expand the capacity to meet the resource requirement of existing applications as well as host new applications	We request bank to clarify if the adding nodes in future can be done by by the bidder.	**Clarification:** Whenever bidder will supply new nodes then same must be added into the cluster by the bidder to make it operational.
47	7.6	14	If the bidder quotes servers which require non-standard racks then the bidder will supply the required number of non-standard racks without any additional cost to the Bank. Bank will make provision for standard racks only for mounting the servers.	Bidder request for Dimensions of Existing racks	Please be guided by RFP

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48	7.5	14	Bank's present cloud setup is deployed on vSAN HCI Intel Nodes and new proposed nodes procured through this RFQ will be part of the same setup as Bank is expanding the existing cloud infra. New nodes will be added into the existing clusters to expand the capacity to meet the resource requirement of existing applications as well as host new applications. Bank will also create new cluster as per requirement and existing VMs must be able to migrate online from one cluster to another cluster seamlessly without impacting the running applications.	Since Bank plans to add new HCI Nodes in the existing HCI cluster as per the given Clause,also Bank may be backing Up the present HCI Nodes using existing Backup solution. Bidder seeks confirmation from Bank , If the new backup solution needs to be proposed or Bank want Bidder to augment/Upgrade the existing Backup Licenses? If Existing Backup License needs to be Augmented/Upgraded, then please provide the Backup solution details such as Licensee Type/Architecture as well as current Backup server and storage Configuration and Backup Policy. If new backup Solution needs to be quoted, then can we assume that Old as well as new backup will be managed seperately and no cross backup restoration will be required by Bank. Does Bidder has to configure NDMP backup of the storage? Does Bank has existing NDMP Backup running ? Does bank has any existing Tape Backup Target in Place , which needs to consider for Backup license?	Please be guided by RFP

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49	7. Scope of works 7.16	15	The VMware private cloud solution must deliver service models such as IaaS (Infrastructure as a Service), PaaS (Platform as a Service) and SaaS (Software as a Service) as defined by NIST (in the service models section of the document SP 800-145). Bank is also in process of adoption of Public Cloud for hosting the Banking applications. Bank will also integrate On-Premise Private Cloud Infrastructure with Cloud Service Provider's (CSP) Public Cloud for moving the workload to the public cloud as and when urgent workload requirement arises. Bidder will provide the necessary software/solution if any, required for moving the workload to CSP's cloud infrastructure and coming back to Bank's On-Premise Private Cloud Infrastructure as and when such requirement arises. Bank may adopt multi-cloud infrastructure for hosting the applications. The solution provided under this RFQ must be compatible to perform the above activities with four major CSP's cloud infrastructure i.e. AWS, Azure, Google Cloud and Oracle Cloud.	There are some security encryption features which are incorporated in vSphere to provide Data protection to customers choosing a hybrid cloud strategy . This is a security feature which is also used by Public cloud service providers as a part of their confidential cloud computing framework . Request you to clarify if the bank needs more information on the same which would help the bank to mitigate security risks	**Clarification:** Security encryption features will be applicable where workload is hosted. If it is hosted on Bank's On-Premise Cloud then security feature as per Bank's ON-Premise Cloud will be applicable and if it is hosted on any CSP cloud platform then security feature will be applicable of their platform. Such things will be decided to enable or disable as per particular functinality and same will be decided based on concerns.
50	7.13	15	Scope of work- Bidder should provide VMware	Required Warrenty and AMC for Hardware is mentioned 3+2 years wherein for private cloud software its mentioned only 1 year ..Pls provide clarity	**Clarification:** Bidder will quote hardware with 3 years warranty and post warranty period AMC for 2 years. For software, bidder will quote license cost, first year support will be included in license cost. Bidder will quote ATS rate separately and same rate will be fixed for 4 years.
51	7.16	15	Scope of work- The VMware private cloud solution must deliver service models such as IaaS (Infrastructure as a Service), PaaS (Platform as a Service) and SaaS (Software as a Service) as defined by NIST (in the service models section of the document SP 800-145).	Can we have more clarity on target Platforms ,software baselines etc needs to be part of PaaS /SaaS provisioning /delivery capability	Please be guided by RFP

Sl. No.	Clause no.	Page no.	Clause	Query	Bank Response
52	7. Scope of Work: 7.11	15	7.11 Bidder should specify various infrastructure requirements well in advance, which need to be provided for commissioning and smooth functioning of the equipment. This will include the required power, cooling, UPS, environmental conditions, illumination, etc. so that Bank can arrange accordingly at the desired premises.	We request bank to elaborate illumination mentioned in the clause.	**Clarification:** It is pre-requisite which bidder may ask to the bank to arrange the same in datacenter while installing the hardware and making it opernational. Accordingly, Bank will arrange the same.
53	7. Scope of Work: 7.21	16	7.21 vSAN ready Hyper-converged nodes procured under this Private Cloud RFQ, will be used exclusively for hosting various applications and implementation of various leading and critical databases (2 TB or higher). The bidder will size the solution to meet the above requirement with less than 5 millisecond average latency per VM (Virtual Machine) basis (during peak banking hours). Bank will put additional penalty of 10 % of total project cost to the bidder for not meeting the above performance criteria.	We understand the bank has arrived at suitable sizing and frozen the detailed configuration of the infrastructure. Kindly modify the clause "bidder will size the solution" accordingly. Related to the clause "5 millisecond average latency per VM". We request bank to elaborate how and at which point / which activity the latency will be measured. We request bank to waive the penalty.	**Clarification:** Latency is related to performace of the VMs. vCenter dishboard shows the performance parameter of the cluster, hosts and VMs where latency is also displayed.

Sl. No.	Clause no.	Page no.	Clause	Query	Bank Response
54	7.16	16	The VMware private cloud solution must deliver service models such as IaaS (Infrastructure as a Service), PaaS (Platform as a Service) and SaaS (Software as a Service) as defined by NIST (in the service models section of the document SP 800-145). Bank is also in process of adoption of Public Cloud for hosting the RFQ for Expansion of Private Cloud Banking applications. Bank will also integrate On-Premise Private Cloud Infrastructure with Cloud Service Provider's (CSP) Public Cloud for moving the workload to the public cloud as and when urgent workload requirement arises. Bidder will provide the necessary software/solution if any, required for moving the workload to CSP's cloud infrastructure and coming back to Bank's On-Premise Private Cloud Infrastructure as and when such requirement arises. Bank may adopt multi-cloud infrastructure for hosting the applications. The solution provided under this RFQ must be compatible to perform the above activities with four major CSP's cloud infrastructure i.e. AWS, Azure, Google Cloud and Oracle Cloud.	Since Bank is considering Moving certain Application/ workload as when required on Public Cloud as per the Bank's multi-cloud infrastructure strategy & as per the mentioned clause. Please clarify if, Bank wants to deploy there workload on native CSP Cloud Server or Vmware cloud suite on mentioned CSPs i.e. AWS, Azure, Google Cloud and Oracle Cloud .	Please be guided by RFP
55	7.21	16	"vSAN ready Hyper-converged nodes procured under this Private Cloud RFQ, will be used exclusively for hosting various applications and implementation of various leading and critical databases (2 TB or higher). The bidder will size the solution to meet the above requirement with less than 5 millisecond average latency per VM (Virtual Machine) basis (during peak banking hours). Bank will put additional penalty of 10 % of total project cost to the bidder for not meeting the above performance criteria."	We respectfully request for a modification as detailed hereunder in light of the remedies the bank already has. "vSAN ready Hyper-converged nodes procured under this Private Cloud RFQ, will be used exclusively for hosting various applications and implementation of various leading and critical databases (2 TB or higher). The bidder will size the solution to meet the above requirement with less than 5 millisecond average latency per VM (Virtual Machine) basis (during peak banking hours). ~~Bank will put additional penalty of 10 % of total project cost to the bidder for not meeting the above performance criteria.~~"	Please be guided by RFP

Sl. No.	Clause no.	Page no.	Clause	Query	Bank Response
56	7.29	18	The bidder will also supply backup server one each at DC and DR site along with purpose built backup solution. The backup server as well as purpose built backup solution must have minimum 6x25 Gbps FCoE port and 6x32 Gbps FC (Fibre Channel) port (Optional) with backward compatibility. The purpose-built backup solution should support OST file system or any other optimized synthetic file system. The purpose-built backup solution must support global/in-line data duplication using variable block length de-duplication technology. Backup Solution Should support 256-bit AES encryption for data at rest and data-in-flight during replication.	Request Bank to clarify the networking type for the 25Gbps will be optical or copper? FCoE is not a protocol recommended for backups, PBBA comes with Fiber Channel & Ethernet Ports . Request to update as "must have minimum 6x25 Gbps Ethernet port and 6x32 Gbps FC port". Note: The count of 6 x 25Gbps & 6x32 Gbps FC is not matching with Pg 68 Clause 10 where the count mentioned is 4x25Gbps Ethernet and 4x 32Gbps FC. Kindly clarify	**Clarification:** Bidder will supply backup server and purpose built backup appliance with 4x25 Gbps Ethernet and 4x32 Gbps FC.
57	7. Scope of Work: 7.32	18	entire capacity of data asked in this RFQ within 8-10 hours of backup window. Non-comply of this parameter, Bank can impose additional penalty of 5% of the total project cost.	We request bank to modify the clause to entire capacity of data asked in this RFQ within 8-10 hours of backup window. In case of Non-comply of this parameter, the bidder shall add/modify the infrastructure and design to meet the performance criteria without any additional cost to the bank.	**Clarification:** Bank has asked the bidder to design the entire backup solution asked in this RFP to complete the entire backup within 8-10 hours. Bidder need to do the same during the project deployment considering all the aspects.
58	7. Scope of Work: 7.33	18	7.33 The bidder shall provide perpetual/subscription licenses for all software components asked in this RFQ and should be in name of Bank. The Software licenses such as – VMware Hypervisor, Cloud Management and Automation and Storage Virtualization, Microsoft Windows Server, Redhat Enterprise should be independent of hardware and should not be tied down to the hardware it is installed on.	We request bank to clarify if there is any existing licencing agreement with software OEM (Select Agreement etc.) such as a) VMware b) Microsoft c) Red Hat etc.	**Clarification:** Bidder need to take care of the licenses supplied though this RFP only and licensing agrrement will valid for those licenses only.

Sl. No.	Clause no.	Page no.	Clause	Query	Bank Response
59	7.32	18	The bidder will supply necessary operating system licenses supported for the backup server/media server (one each at DC and DR Site). The backup server must be sized to run the backup workload as per the RFQ's requirement. The backup server must have sufficient memory slots available for future upgradation up to double memory capacity with same size of memory modules. The bidder needs to design the backup solution in such a way that backup must be completed of the entire capacity of data asked in this RFQ within 8-10 hours of backup window.	Bidder seeks clarity, if the Backup window mentioned in the given clause includes Backup of New Nodes only or will this include existing as well as new backup data capacity. If The backup includes existing and new Nodes, Please share the total frontend capacity for backup in TB.	**Clarification:** Backup windows is for this hardware capacities only.
60	7.32	18	The bidder needs to design the backup solution in such a way that backup must be completed of the entire capacity of data asked in this RFQ within 8-10 hours of backup window. Non-comply of this parameter, Bank can impose additional penalty of 5% of the total project cost. This penalty amount will be adjusted from the payment which Bank needs to pay time to time like ATS/AMC amount to the bidder.	The backup window depends on the Backup Policy deployed By Bank . Hence Bidder request to remove this clause or share the Backup Policy to verify, if this can be complied or not.	Please be guided by RFP

Sl. No.	Clause no.	Page no.	Clause	Query	Bank Response
61	7.32	18	*"The bidder will supply necessary operating system licenses supported for the backup server/media server (one each at DC and DR Site). The backup server must be sized to run the backup workload as per the RFQ's requirement. The backup server must have sufficient memory slots available for future upgradation up to double memory capacity with same size of memory modules. The bidder needs to design the backup solution in such a way that backup must be completed of the entire capacity of data asked in this RFQ within 8-10 hours of backup window. Non-comply of this parameter, Bank can impose additional penalty of 5% of the total project cost. This penalty amount will be adjusted from the payment which Bank needs to pay time to time like ATS/AMC amount to the bidder."*	We respectfully request for a modification as detailed hereunder in light of the remedies the bank already has. *"The bidder will supply necessary operating system licenses supported for the backup server/media server (one each at DC and DR Site). The backup server must be sized to run the backup workload as per the RFQ's requirement. The backup server must have sufficient memory slots available for future upgradation up to double memory capacity with same size of memory modules. The bidder needs to design the backup solution in such a way that backup must be completed of the entire capacity of data asked in this RFQ within 8-10 hours of backup window. ~~Non-comply of this parameter, Bank can impose additional penalty of 5% of the total project cost. This penalty amount will be adjusted from the payment which Bank needs to pay time to time like ATS/AMC amount to the bidder.~~ "*	Please be guided by RFP
62	7.3	18	Bidder may quote backup software licensing physical socket/capacity based as per first para of Clause 7 of this RFQ. The software backup licenses must be perpetual and in the name of Bank	Requesting bank to modify the clause as below: Bidder may quote backup software licensing physical socket/capacity based as per first para of Clause 7 of this RFQ. The software backup licenses must be perpetual/subscription and in the name of Bank	Please be guided by RFP
63	7.39	19	2.Bank's existing Private Cloud Infrastructure is built on VMware Private Cloud Suites and related software. In this existing setup, VMware NSX-v is deployed as networking and security solution and VMware has already declared end of life/support for this software. The bidder will engage VMware professional services for migration of NSX-v to NSX-T without any additional cost to the Bank. VMware will take the entire responsibility for assessment, deployment and migration of NSX-v to NSX-T environment. Bank will provide the necessary infrastructure required for these activities.	We would request the details of the existing setup so that we can create proper SOW for the migration.	**Clarification:** Bank is using NSX-V for older setup. NSX-v Version: 6.3.6 ESXI Version: 6.5 U3 vRA Version: 7.4 vROPS Version: 8.3 Loginsight Version: 8.3

Sl. No.	Clause no.	Page no.	Clause	Query	Bank Response
64	7. Scope of Work: 7.36	19	Web-based dashboards with continuous real-time / near real-time status updates as well as relevant statistics form and other reporting requirements are also included in the scope. Issue Management responsibilities include establishment of a web-based collaborative issue management tool wherein all the issues raised and discovered during the course of the project are recorded, tracked and managed effectively.	We request bank to clarify if any issue management / ticketing tool is to be provided to meet this requirement OR The scope covers providing APIs for the Bank's ticketing tool	**Clarification:** Bidder need not to supply any ticketing tool. It is related to monitoring the solution at vCenter and any issues related to performance will be taken care by vROPS.
65	7. Scope of Work: 7.38	19	The OEM shall conduct a health-check of the deployed solution and submit a report indicating compliance to reference architecture and best practices.	We understand that this shall be one time exercise. Also please clarify if the health-check shall be part of project acceptance	**Clarification:** It is not a one time activity. Bidder will arrange OEM technical team to perform this task at every six months.
66	7. Scope of Work: 7.38	19	The entire hardware and software supplied under this RFQ must be installed and configured by OEM only.	Please allow bidder to do implementation and modify the clause as below. The entire hardware and software supplied under this RFQ must be installed and configured by bidder under guidance of OEM only.	Please be guided by RFP
67	7. Scope of Work: 7.39	19	Existing NSX-V - The bidder will engage VMware professional services for migration of NSX-v to NSX-T without any additional cost to the Bank. VMware will take the entire responsibility for assessment, deployment and migration of NSX-v to NSX-T environment.	We request the bank to add migration as a separate heading to the price bid. Also we request that the bank does not treat NSX-V migration as part of current "project completion".	Please be guided by RFP
68	8	20	VMware Residential Engineer (RE) Resource	Kindly confirm - the resident engineer will be working 8x5	**Clarification:** Working hours for Resident Engineer will standard working as per Bank's working hours. Bank can also call RE as per requirement of Bank.
69	8. VMware Residential Engineer (RE) Resource	20	8.6. Selected bidder is expected to arrange academically good, technically sound and competent personnel from VMware.	We understand the resident engineer shall be deployed for 9x5. Please clarify or confirm.	**Clarification:** VMware resource will work as per Bank's working hours and days. Apart from this, recource will be called as and when any crirtical issues occurred or any activity is scheduled.
70	8. VMware Residential Engineer (RE) Resource	20	8.10. If Bidder fails to provide Resident Engineer (Resource) in any day, a penalty of Rs.1,000/- per day per engineer	We understand the resident engineer shall be deployed for 9x5. Please clarify or confirm.	**Clarification:** VMware resource will work as per Bank's working hours and days. Apart from this, recource will be called as and when any crirtical issues occurred or any activity is scheduled.

Sl. No.	Clause no.	Page no.	Clause	Query	Bank Response
71	8.5	20	"*Bank consider at its sole judgment that the RE Resource arranged by bidder from VMware as unsuitable for the job for whatsoever reason, Bank shall have the option either (1) to request bidder for prompt replacement within 15 days at its own cost or (2) to terminate the Purchase Order in part or as a whole, if the bidder fails to change the resource on time. In case RE resource wants to leave from service then Bidder shall take proper handover from the candidate before leaving the job so that operations of Bank shall not be affected.*"	We are in agreement with this clause. However we request you to please consider a modification both in light of industry standards and the practical considerations regarding resource replacement. "*Bank consider at its sole judgment that the RE Resource arranged by bidder from VMware as unsuitable for the job for whatsoever reason, Bank shall have the option either (1) to request bidder for prompt replacement within 15 30 days at its own cost or (2) to terminate the Purchase Order in part or as a whole, if the bidder fails to change the resource on time. In case RE resource wants to leave from service then Bidder shall take proper handover from the candidate before leaving the job so that operations of Bank shall not be affected.*"	Please be guided by RFP
72	8.1	20	The bidder will make arrangement with VMware to provide VMware Residential Engineer at Bank's site. For TCO calculation, cost of one VMware RE Resource for 5 years will be considered. Payment of RE Resource will be made quarterly basis in arrears. Bank is discovering rate of RE Resource through this RFQ and Bank may issue separate purchase order for RE Resource if required in future	Only 1 engineer is asked, is this the minimum Requirement or bidder is supposed to factor as many engineers as required to support the proposed solution on 24x7 basis, kindlly clarify	**Clarification:** VMware resource will work as per Bank's working hours and days. Apart from this, recource will be called as and when any crirtical issues occurred or any activity is scheduled.
73	8.1	20	The bidder will make arrangement with VMware to provide VMware Residential Engineer at Bank's site. For TCO calculation, cost of one VMware RE Resource for 5 years will be considered. Payment of RE Resource will be made quarterly basis in arrears. Bank is discovering rate of RE Resource through this RFQ and Bank may issue separate purchase order for RE Resource if required in future	Kindly elaborate the scope / expecation from this engineer during the tenure	**Clarification:** VMware RE will be responsible for the VMware product used by Bank for Bank's On-Premise Private Cloud Infra.

Sl. No.	Clause no.	Page no.	Clause	Query	Bank Response
74	8.5	20	Bank consider at its sole judgment that the RE Resource arranged by bidder from VMware as unsuitable for the job for whatsoever reason, Bank shall have the option either (1) to request bidder for prompt replacement within 15 days at its own cost or (2) to terminate the Purchase Order in part or as a whole, if the bidder fails to change the resource on time. In case RE resource wants to leave from service then Bidder shall take proper handover from the candidate before leaving the job so that operations of Bank shall not be affecte	The window for hiring any technical resource is minimum 2 months, getting a replacement within such a short span is difficulty, request you to consider 2 months replacement window	Please be guided by RFP
75	8.1	20	The bidder will make arrangement with VMwar	Only VMware Engineer is asked, understadning is sujpport for OS, HCI Platform, Storage, Backup, Network Switch will be managed by UBI existing partner, please clarify and confirm	Please be guided by RFP
76	8	20	VMware Residential Engineer (RE) Resource	Other than VMware Stack, can the bidder give / outsource services for deployment to third party partner resources for deploying the NON HCI/Non VMware stack such as server , Storage Backup Network , OS etc. Please confirm	Please be guided by RFP
77	9.1	21	The successful bidders should deliver and complete the installation and configuration of hardware and software within 16 weeks from the date of Purchase Order (PO) at the respective location. In case of delay in delivery of equipment, penalty will be charged as mentioned in Liquidated Damages clause.	This needs to be changed to 32 weeks, keeping in mind the global chip shortage	**Revised Clause - Terms of Execution of Work-9.1 :** The successful bidders should deliver and complete the installation and configuration of hardware and software within 20 weeks from the date of Purchase Order (PO) at the respective location. In case of delay in delivery of equipment, penalty will be charged as mentioned in Liquidated Damages clause.
78	9. Terms of Execution of Work	21	The successful bidders should deliver and complete the installation and configuration of hardware and software within 16 weeks from the date of Purchase Order (PO) at the respective location. In case of delay in delivery of equipment, penalty will be charged as mentioned in Liquidated Damages clause.	Considering the Ongoing market situation due to COVID,. there is huge gap in demand and supply , therefore we request you to Please consider the successful bidders should deliver and complete the installation and configuration of hardware and software within 30 weeks from the date of Purchase Order (PO) at the respective location. In case of delay in delivery of equipment, penalty will be charged as mentioned in Liquidated Damages clause.	The successful bidders should deliver and complete the installation and configuration of hardware and software within 20 weeks from the date of Purchase Order (PO) at the respective location. In case of delay in delivery of equipment, penalty will be charged as mentioned in Liquidated Damages clause.

Sl. No.	Clause no.	Page no.	Clause	Query	Bank Response
79		21	Delivery Period: 16 weeks	We hereby request bank to consider 20 weeks for delivery of the HW considering global shortage	Bidder will supply, install and configure entire hardware and software suipplied under this RFP within 20 weeks, beyond this period penalty will be invoked as per LD clause of this RFP.
80	9.1	21	The successful bidders should deliver and complete the installation and configuration of hardware and software within 16 weeks from the date of Purchase Order (PO) at the respective location.	Request bank to change the timeline to 24 weeks from the date of PO	The successful bidders should deliver and complete the installation and configuration of hardware and software within 20 weeks from the date of Purchase Order at the respective location.
81	9.1	21	The successful bidders should deliver and complete the installation and configuration of hardware and software within 16 weeks from the date of Purchase Order (PO) at the respective location. In case of delay in delivery of equipment, penalty will be charged as mentioned in Liquidated Damages clause.	As you are aware that dur to scarcity of semiconductors in the market the lead time of delivery for networking material is around 24 weeks, So we hereby requesting you to increase the delivery & implementation timelines to 32 weeks	Bidder will supply, install and configure entire hardware and software suipplied under this RFP within 20 weeks, beyond this period penalty will be invoked as per LD clause of this RFP.
82	8.1	21	If Bidder fails to provide Resident Engineer (Re	Engineer if informs of absence then this will should not be applicable, kindly consider	Please be guided by RFP
83	8.1	21	If Bidder fails to provide Resident Engineer (Re	This should be applicable only if the engineer has not informaed UBI and is absconding for over 1 week	Please be guided by RFP
84	12	22	No price variation should be asked for increases in foreign currency price variation during contract period.	Request bank to factor the currency (esp. USD) variation as per RBI's exchange rate at the time of each subsequent change request (PO)	Please be guided by RFP
85	10. Locations to be covered	22	However, the Bank reserves the right to change locations/add new locations as per Bank's requirement.	UBI has any plans for Changing the Locations in next 2 years timeframe? Please suggest any plans for adding new locations and confirm supporting new locations will be a Change Request?	Please be guided by RFP
86		23	Initial Procurement - 54 Second - 26 Third - 40 Total - 120	Initital Procurement Mentioned in the table is 54, can we have clarit,y if its is 27+17- 34 Nodes or 54 Nodes. If 54 Nodes then, Please share the DC DR distribution.	**Clarification:** Initially, Bank is procuring 54 nodes (27 Nodes each at DC & DR Site)

Sl. No.	Clause no.	Page no.	Clause	Query	Bank Response
87	16.2.1	24	The bidder should deposit bid security of Rs.3,25,00,000/- (Rupees Three Crore and Twenty Five lac Only) in the form of a demand draft favoring Union Bank of India, payable at Mumbai or Bank Guarantee issued from Scheduled Commercial Bank other than Union Bank of India. Bank Guarantee should be valid from the date of submission of RFQ for a period of minimum 45 days beyond the final bid validity period of 180 days. IFSC Code for issuance of EMD is UBIN0556688.	Requesting you to reduce the EMD value to 1 Cr.	Please be guided by RFP
88	16.8.3	27	The following documents are to be submitted in original (Union Bank of India, Technology Centre, 1/1A, Adi Shankaracharya Marg, Opp. Powai Lake, Powai, Mumbai - 400072) at the Bank as well as online mode on or before last date & time of bid submission: 16.8.3.1. Bid security of Rs.3,25,00,000/- (Rupees Three Crore Twenty Five Lac only) in the form of a demand draft issued by a Scheduled commercial bank favoring Union Bank of India, payable at Mumbai or Bank Guarantee from scheduled commercial Bank other than Union Bank of India and should be valid for six months with claim period of 45 days. 16.8.3.2. Integrity Pact (IP) as provided in Annexure J is to be submitted physically. It should be on plain paper duly signed by authorized signatories of the company/Firm/Organization.	Request you to allow hard copy submission of Bid Security and Integrity Pact after 3 days of submission of online bid.	Please be guided by RFP
89	16.8.4.13.	28	The Bid should be signed by the authorized signatory of the bidder. A power of attorney/Board Resolution to that effect shall be submitted by the bidders and should be uploaded online on portal along with technical bid.	Request you to provide Power of Attorney format.	**Clarification:** Power of Attorney is required on company's letter head as a certificate for authorising the signatory.

Sl. No.	Clause no.	Page no.	Clause	Query	Bank Response
90	16.8.4.13.	28	The Bid should be signed by the authorized signatory of the bidder. A power of attorney/Board…..	Please allow LOA in place of POA	This clause should be read as "The Bid should be signed by the authorized signatory of the bidder. A power of attorney/Letter of Authorization/Board Resolution to that effect shall be submitted by the bidders and should be uploaded online on portal along with technical bid"
91	16.8.4.13.	28	The Bid should be signed by the authorized signatory of the bidder. A power of attorney/Board Resolution to that effect shall be submitted by the bidders and should be uploaded online on portal along with technical bid	We humbly request to accept Letter of Authority at the time of bid submission and Power of Attoney will submit lateron as we have to follow board approval process and will not be able to submit along with the bid	Please be guided by RFP
92	22.3	36	"*Bank shall serve the cure-cum-termination notice to the bidder at least 30 days prior, of its intention to terminate services. If the performance is not cured to the satisfaction of bank within 30 days, termination will be effected.* "	We respectfully request an addition as detailed hereunder. "Bank shall serve the cure-cum-termination notice to the bidder at least 30 days prior, of its intention to terminate services. If the performance is not cured to the satisfaction of bank within 30 days, termination will be effected. The Bank shall pay the Bidder for services rendered but unpaid until the date of termination."	Please be guided by RFP

Sl. No.	Clause no.	Page no.	Clause	Query	Bank Response
93	22.4	36	"*After the award of the contract, if the selected bidders do not perform satisfactorily or delays execution of the contract, the Bank reserves the right to get the balance contract executed by another service provider of its choice by giving one months' notice for the same. In this event, the selected bidder is bound to make good the additional expenditure, which the Bank may have to incur to carry out, for the execution of the balance of the order/contract. Such additional expenditure shall be incurred by the bank within reasonable limits & at comparable price prevailing in the market. This clause is also applicable, if for any reason, the contract is cancelled.*"	We are in agreement with the Bank's rights under this clause but request a small modification as detailed below. "*After the award of the contract, if the selected bidders do not perform satisfactorily or delays execution of the contract, the Bank reserves the right to get the balance contract executed by another service provider of its choice by giving one months' notice for the same. In this event, the selected bidder is bound to make good the additional expenditure, which the Bank may have to incur to carry out, for the execution of the balance of the order/contract. Such additional expenditure shall be incurred by the bank within reasonable limits & at comparable price prevailing in the market. This clause is also applicable, if for any reason, the contract is cancelled. Further, upon termination the selected bidder shall be paid for the services rendered up till the effective date of termination including work in progress.*"	Please be guided by RFP
94	22.3.	36	Bank shall serve the cure-cum-termination notice to the bidder at least 30 days prior, of its intention to terminate services. If the performance is not cured to the satisfaction of bank within 30 days, termination will be effected	Bank shall serve the cure-cum-termination notice to the bidder at least 60 days prior, of its intention to terminate services. If the performance is not cured to the satisfaction of bank within 30 days, termination will be effected after 30 days of notice period.."	Please be guided by RFP
95	23	37	Contract period	Please confirm whether bidder shall be allowed to increase the prices on yearly basis after mutual consent with Bank due to inflationary pressures	**Clarification:** Rate discovered through this RFP will fixed for 2 years for rate contract.
96	27.4	39	Warranty should not become void if Bank buys any other supplemental hardware/software from a third party and installs them with this hardware/software. However, the warranty will not apply to such supplemental hardware items installed	Request you to delete the clause as warranty of software solution will not be valid in case it is combined with third party software/hardware	Please be guided by RFP

Sl. No.	Clause no.	Page no.	Clause	Query	Bank Response
97	27.2.	39	The offer must include comprehensive on-site warranty of 1 year for Software from the date of complete sign off by the bank official which will be given after go-live of the solution to the satisfaction of the Bank.	Software Warranty starts from the date of delivery / Installation of the Licneses. Request for the change in the Clause from Post Installation and Go-Live to From the delivery of the License.	Please be guided by RFP
98	27.4	39	*"Warranty should not become void if Bank buys any other supplemental hardware/software from a third party and installs them with this hardware/software. However, the warranty will not apply to such supplemental hardware items installed. The vendor is expected to ensure same maintenance standards as mentioned in clause 26."*	We respectfully request for a modification in this clause as detailed below: "Warranty should ~~not~~ become void if Bank buys any other supplemental hardware/software from a third party and installs them with this hardware/software. ~~However, the warranty will not apply to such supplemental hardware items installed.~~ The vendor is expected to ensure same maintenance standards as mentioned in clause 26."	Please be guided by RFP
99	28.1	40	The Bidder is expected to maintain the equipment supplied for at least two years after the expiry of warranty period. The Bidder is expected to ensure same maintenance standards as mentioned under RFQ Clause 26.	IS the bidder supposed to provide 24x7 on-site dedicated support for the proposed solution during Warranty period and after warranty period	**Clarification:** It is for AMC after the expiry of warranty period and bidder needs to maintain their support after the wanranty period.
100	28.1	40	The Bidder is expected to maintain the equipment supplied for at least two years after the expiry of warranty period. The Bidder is expected to ensure same maintenance standards as mentioned under RFQ Clause 26.	During the Warranty period is the bidder required to factor dediacted engineers at UBI premise for support	**Clarification:** Bidder need not to factor any dedicated resource at Bank site whereas whenever Bank required any support for the supplied hardware/software then bidder need to arrange a engineer to the Bank site for issues resolution.
101	30.1	41	30.5. The overall LD is capped to a maximum of 10% of the total cost of the project	We humbly request your good office to cap the LD's to 5% of the total cost of the project and add verbiage that LD's shall be imposed only for reasons solely attributable to Service Provider and deletion of UBI reserving the right for condoning the delay even when the act is not attributable to the Service Provider.	Please be guided by RFP
102	30.1	41	Notwithstanding the Bank's right to cancel the order, liquidated damages at 1 % of the cost of undelivered services per site per week will be charged for every week's delay beyond 16 weeks in delivery subject to maximum of 10% of order value	We humbly request to your good office to modify the clause as follow: Notwithstanding the Bank's right to cancel the order, liquidated damages at 0.25% of the cost of undelivered services per site per week will be charged for every week's delay beyond 16 weeks in delivery subject to maximum of 10% of order value	Please be guided by RFP

Sl. No.	Clause no.	Page no.	Clause	Query	Bank Response
103	31.8	42	Bank may recover such amount of penalty from any payment due to the bidder under this contract.	Would suggest to recover the penalty from the Bidder after mutual agreement of both Parties.	Please be guided by RFP
104	33	43	"The bidder must undertake that they shall hold in trust any Information received by them, under the Contract/Agreement, and the strictest of confidence shall be maintained in respect of such Information. The bidder has also to agree: 33.1 To maintain and use the Information only for the purposes of the Contract/Agreement and only as permitted by the BANK; 33.2 To only make copies as specifically authorized by the prior written consent of the Bank and with the same confidential or proprietary notices as may be printed or displayed on the original; 33.3 To restrict access and disclosure of Information to such of their employees, agents, strictly on a "need to know" basis, to maintain confidentiality of the Information disclosed to them in accordance with this Clause and 33.4 To treat all Information as Confidential Information. 33.5 The Selected Bidder shall be required to sign a Non-Disclosure Agreement with Bank as per prescribed format provided in Annexure H within thirty days of issuing the purchase order/letter of intent."	We agree on the requirement for confidentiality and respectfully request the Bank to make a modification to the clause by making it mutual: "The bidderparties must undertake that they shall hold in trust any Information received by them, under the Contract/Agreement, and the strictest of confidence shall be maintained in respect of such Information. The bidderparties has also to agree: 33.1 To maintain and use the Information only for the purposes of the Contract/Agreement and only as permitted by the BANK; 33.2 To only make copies as specifically authorized by the prior written consent of the Bank and with the same confidential or proprietary notices as may be printed or displayed on the original; 33.3 To restrict access and disclosure of Information to such of their employees, agents, strictly on a "need to know" basis, to maintain confidentiality of the Information disclosed to them in accordance with this Clause and 33.4 To treat all Information as Confidential Information. 33.5 The Selected Bidder shall be required to sign a Non-Disclosure Agreement with Bank as per prescribed format provided in Annexure H within thirty days of issuing the purchase order/letter of intent."	Please be guided by RFP
105	35	45	Indemnity clause and Limitation of Liability	this clause should be changed as per Industry practice, we will share exact changes required in this clause durng Pre bid meeting	Please be guided by RFP

Sl. No.	Clause no.	Page no.	Clause	Query	Bank Response
106	36	47	"The Bidder claims and represents that it has obtained appropriate rights to provide the Deliverables and Services upon the terms and conditions contained in this RFQ. 36.1 The Bidder shall be responsible at its own cost for obtaining all necessary authorizations and consents from third party licensors of Software used by Bidder in performing its obligations under this Project. 36.2 If a third party's claim endangers or disrupts the Bank's use of the Deliverables, the Bidder shall at no further expense, charge, fee or cost to the Bank, (i) obtain a license so that the Bank may continue use of the Deliverables in accordance with the terms of this RFQ. 36.3 Bidder shall indemnify and keep fully and effectively indemnified the Bank from all legal actions, claims, or damages from third parties arising out of use of software, designs or processes used by Bidder or his subcontractors or in respect of any other services rendered under this RFQ."	We agree with this clause entirely but request for a modification in order to protect prior existing IP interests of the bidder. "The Bidder claims and represents that it has obtained appropriate rights to provide the Deliverables and Services upon the terms and conditions contained in this RFQ. 36.1 The Bidder shall be responsible at its own cost for obtaining all necessary authorizations and consents from third party licensors of Software used by Bidder in performing its obligations under this Project. 36.2 If a third party's claim endangers or disrupts the Bank's use of the Deliverables, the Bidder shall at no further expense, charge, fee or cost to the Bank, (i) obtain a license so that the Bank may continue use of the Deliverables in accordance with the terms of this RFQ. 36.3 Bidder shall indemnify and keep fully and effectively indemnified the Bank from all legal actions, claims, or damages from third parties arising out of use of software, designs or processes used by Bidder or his subcontractors or in respect of any other services rendered under this RFQ. Nothwithstanding the above unless otherwise specified the Bank shall have no rights, title, or interest in bidder's intellectual property that is in existence prior to the execution of any project for the Bank and other material created independently or obtained by the	Please be guided by RFP

Sl. No.	Clause no.	Page no.	Clause	Query	Bank Response
107	43	49	"*The Bank reserves the right to cancel /exit the contract with immediate effect in the event of happening one or more of the following conditions:* *43.1 Failure of the successful bidder to accept the contract and furnish the Performance Bank Guarantee within 60 days from receipt of purchase contract.* *43.2 Delay in delivery beyond the specified period.* *43.3 Delay in completing implementation/customization and acceptance tests/ checks beyond the specified periods;* *43.4 Serious discrepancy in functionality to be provided or the performance levels which have an impact on the functioning of the solution* *In addition to the cancellation of contract, Bank reserves the right to appropriate the damages through encashment of Bid Security /Performance Guarantee given by the Bidder. Bank reserves right to exit at any time after giving notice period of one month during the contract period.* "	We respectfully request the following modifications to the clause: "*The Bank reserves the right to cancel /exit the contract with immediate effect in the event of happening one or more of the following conditions:* *43.1 Failure of the successful bidder to accept the contract and furnish the Performance Bank Guarantee within 60 days from receipt of purchase contract.* *43.2 Delay in delivery beyond the specified period.* *43.3 Delay in completing implementation/customization and acceptance tests/ checks beyond the specified periods;* *43.4 Serious discrepancy in functionality to be provided or the performance levels which have an impact on the functioning of the solution* *In addition to the cancellation of contract, Bank reserves the right to appropriate the damages through encashment of Bid Security /Performance Guarantee given by the Bidder. Bank reserves right to exit at any time after giving notice period of ~~one~~ three months during the contract period and the bidder shall be paid termination fees equal to the service fee we would have received till the end of the term .*"	Please be guided by RFP
108	51	51	"*Any publicity by the Service Provider in which the name of the Bank is to be used, will be done only with the explicit written permission of the Bank.* "	We respect the Bank's right to have control over the use of their name however in the interest of expediency we request the following modification: "Any publicity by the Service Provider in which the name of the Bank is to be used, will be done only with ~~the explicit written permission of~~ advance intimation to the Bank."	Please be guided by RFP

Sl. No.	Clause no.	Page no.	Clause	Query	Bank Response
109	Annexure C- Eligibility Criteria-3	56	The bidder should have minimum average turnover of Rs.385.00 Crore of previous three financial years i.e. 2019-20, 2020-21 and 2021-22 as per the audited balance sheet available at the time of submission of tender. In case the audited financials for the year 2021-22 is not available, CA Certificate with UDIN number for turnover of 2021-22 / audited financials of 2018-19 should be submitted. Bidder should also provide self declaration that statutory audit for the FY 2021-22 is not completed. This must be the individual company turnover and not that of any group of companies	Request to change The bidder should have minimum average turnover of Rs.100.00 Crore of previous three financial years i.e. 2019-20, 2020-21 and 2021-22

We request you to consider our request.As we are very keen to participate in this RFP. | Please be guided by RFP |
| 110 | 57. Annexure C- Eligibility Criteria | 56 | The bidder should have minimum average turnover of Rs.385.00 Crore of previous three financial years i.e. 2019-20, 2020-21 and 2021-22 as per the audited balance sheet available at the time of submission of tender. In case the audited financials for the year 2021-22 is not available, CA Certificate with UDIN number for turnover of 2021-22 / audited financials of 2018-19 should be submitted. Bidder should also provide self declaration that statutory audit for the FY 2021-22 is not completed. This must be the individual company turnover and not that of any group of companies. | We understand that project estimate cost is Rs. 162.50 Crores and as per GFR guidelines, turnover criteria is 30% of the project estimated cost. Therefore we request you, please relax it to average turnover Rs. 180 Crore of previous three financial years i.e. 2019-20, 2020-21 and 2021-22 as per the audited balance sheet available at the time of submission of tender. In case the audited financials for the year 2021-22 is not available, CA Certificate with UDIN number for turnover of 2021-22 / audited financials of 2018-19 should be submitted. Bidder should also provide self declaration that statutory audit for the FY 2021-22 is not completed. This must be the individual company turnover and not that of any group of companies. | Please be guided by RFP |

Sl. No.	Clause no.	Page no.	Clause	Query	Bank Response
111	57	56	The bidder should have minimum average turnover of Rs.385.00 Crore of previous three financial years i.e. 2019-20, 2020-21 and 2021-22 as per the audited balance sheet available at the time of submission of tender. In case the audited financials for the year 2021-22 is not available, CA Certificate with UDIN number for turnover of 2021-22 / audited financials of 2018-19 should be submitted. Bidder should also provide self declaration that statutory audit for the FY 2021-22 is not completed. This must be the individual company turnover and not that of any group of companies.	Requesting the bank to modify to: The bidder should have minimum average turnover of Rs.100.00 Crore for each three financial years i.e. 2019-20, 2020-21 and 2021-22 as per the audited balance sheet available at the time of submission of tender. In case the audited financials for the year 2021-22 is not available, CA Certificate with UDIN number for turnover of 2021-22 / audited financials of 2018-19 should be submitted. Bidder should also provide self declaration that statutory audit for the FY 2021-22 is not completed. This must be the individual company turnover and not that of any group of companies.	Please be guided by RFP
112	57	57	Manufacturer Authorization Form (MAF) obtained from OEM should be submitted. MAF should also have the line mentioned in bold	Request you to provide MAF format.	Please be guided by RFP
113	57	57	Bidder/OEM must have supplied minimum 50 vSAN ready Hyper-Converged Nodes of proposed OEM in a single Organization in a BFSI/Central or State Govt. during the past 3 years in India as on the date bid submission of RFP.	Bidder/OEM must have supplied minimum 50 Nodes of proposed OEM in a single Organization in a BFSI/Central or State Govt. during the past 3 years in India as on the date bid submission of RFP.	Please be guided by RFP
114	59. Annexure E –Technical Compliance- (I) VMware vSAN ready Hyper-Converged Nodes Specifications) Sr No.3	61	Each node must be proposed with 2 x Third Generation Intel Xeon Platinum 8358 @2.60 GHz Processors, 32 Cores and 48 MB cache	As bank is also intending to have a separate cluster, bank can explore AMD as well. We request Union Bank of India to include AMD EPYC processor, i.e. AMD EPYC 7513@ 2.6GHz, 32 cores and 128MB cache.	Please be guided by RFP

Sl. No.	Clause no.	Page no.	Clause	Query	Bank Response
115	59.Annexure E - VMware vSAN ready Hyper-Converged Nodes Specifications- Sr No.1	61	VMware vSAN ready HCI node, your offer (Make & Model)	Request you to kindly clarify whether bank needs an appliance or VSAN readynode	**Clarification:** Bidder need to quote and supply vSAN ready nodes only in this RFP.
116	59.Annexure E - VMware vSAN ready Hyper-Converged Nodes Specifications Sr No.2	61	Bidders should propose 54 nodes (27 nodes at DC & 17 nodes at DR) with each node having 24 disk slots. Each proposed node must be configured with 12 x 7.68TB SSD. Each of the data SSD in the proposed node must be an eMLC SAS SSD or higher SSD. Each proposed node must be configured with 3 nvme caching disk to create minimum 3 disk group per node. Bidder can size the caching disk as per data disk in the disk group.	Proposed nodes are 54 but segregation across DC and DR doesn't addup to the same (27+17) .Request you to clarify.	Serial number 2 of Table I (VMware vSAN ready Hyper-Converged Nodes Specifications) of Annexue E should be read as: Bidders should propose 54 nodes (27 nodes at DC & 27 nodes at DR) with each node having 24 disk slots. Each proposed node must be configured with 12 x 7.68TB SSD. Each of the data SSD in the proposed node must be an eMLC SAS SSD or higher SSD. Each proposed node must be configured with 3 nvme caching disk to create minimum 3 disk group per node. Bidder can size the caching disk as per data disk in the disk group.
117	Annexure E –Technical Compliance	61	Point 2 - VMware vSAN ready Hyper-Converged Nodes Specifications	Please confirm our understanding that the split of HCI Nodes across DC /DR is 27 nodes each at respective sites.	Serial number 2 of Table I (VMware vSAN ready Hyper-Converged Nodes Specifications) of Annexue E should be read as: Bidders should propose 54 nodes (27 nodes at DC & 27 nodes at DR) with each node having 24 disk slots. Each proposed node must be configured with 12 x 7.68TB SSD. Each of the data SSD in the proposed node must be an eMLC SAS SSD or higher SSD. Each proposed node must be configured with 3 nvme caching disk to create minimum 3 disk group per node. Bidder can size the caching disk as per data disk in the disk group.

Sl. No.	Clause no.	Page no.	Clause	Query	Bank Response
118	VMware vSAN ready Hyper-Converged Nodes Specifications	61	Bidders should propose 54 nodes (27 nodes at DC & 17 nodes at DR) with each node having 24 disk slots. Each proposed node must be configured with 12 x 7.68TB SSD. Each of the data SSD in the proposed node must be an eMLC SAS SSD or higher SSD. Each proposed node must be configured with 3 nvme caching disk to create minimum 3 disk group per node. Bidder can size the caching disk as per data disk in the disk group.	i. There seems to be a Typo in No of nodes for DR. We assume it should be 27 and not 17 ii. eMLC as a technology was at the initial inception of SSDs. These days SSDs are classified into Read, Write and Mix Use SSDs. 7.68TB SSD is available in Read Intensive category. Hope our assumption is correct iii. Request bank to layout some sizing guidance on NVMe disk capacity.	Serial number 2 of Table I (VMware vSAN ready Hyper-Converged Nodes Specifications) of Annexue E should be read as: Bidders should propose 54 nodes (27 nodes at DC & 27 nodes at DR) with each node having 24 disk slots. Each proposed node must be configured with 12 x 7.68TB SSD. Each of the data SSD in the proposed node must be an eMLC SAS SSD or higher SSD. Each proposed node must be configured with 3 nvme caching disk to create minimum 3 disk group per node. Bidder can size the caching disk as per data disk in the disk group. Data SSD will be mixed used SSD (70:30) read and write ratio. For caching NVME disk, OEM/bidder need to take the sizing from VMware whereas it should be at least 10% of total data disk capacity per node.
119	VMware vSAN ready Hyper-Converged Nodes Specifications	61	The proposed vSAN ready HCI node must be able to deliver less than 5 milliseconds read / write average latency to the virtual machines installed with various leading critical databases.	Request bank to define the usecase for measuring the latency and also the tool that will be used to measure this. Ideally the Performance and Benchmarks are measured with nodes in a cluster rather than individual nodes. Hence request bank to define cluster wise performance requirement in terms of IOPs/Bandwidth rather than each node performance. If it is each node performance, then we will have to rely on the performance figures of the NVMe's/SSD's. Pls clarify on this.	**Clarification:** Latency will be considered at cluster as well as VM wise. If application performace is impacted due to high latency then penality clause will be invoked.
120	59. Annexure E –Technical Compliance vSAN ready nodes	61	4. The nodes should connect over 25G IP connectivity. Minimum 8 x 25G Ethernet port per node must be proposed	We request bank to provide details on how many ports will be dedicated to data backup. This information will help us design and get confirmation from backup OEM.	**Clarification:** 2x25G port per node will be dedicated for Backup network.
121	4	61	The nodes should connect over 25G IP connectivity. Minimum 8 x 25G Ethernet port per node must be proposed.	Servers are configured with 8X25G Ethernet and whereas on pg. 12 / cl. 4 - on the switch side, bank has asked for 48X10G ports. Request bank to ammend the switch clause as "48X25 Gbps and 6X40/100Gbps uplink"	**Clarification:** 12 nos of switches are of 48x25Gbps and 6x40 Gbps uplink ports

Sl. No.	Clause no.	Page no.	Clause	Query	Bank Response
122	2	61	Bidders should propose 54 nodes (27 nodes at DC & 17 nodes at DR) with each node having 24 disk slots. Each proposed node must be configured with 12 x 7.68TB SSD. Each of the data SSD in the proposed node must be an eMLC SAS SSD or higher SSD. Each proposed node must be configured with 3 nvme caching disk to create minimum 3 disk group per node. Bidder can size the caching disk as per data disk in the disk group.	Please change the interface to SAS instead of asking for eMLC as disks are measured on endurance and not interconnect	Please be guided by RFP
123	3	61	Each node must be proposed with 2 x Third Generation Intel Xeon Platinum 8358 @2.60 GHz Processors, 32 Cores and 48 MB cache	Please modify the processor to 8368 or something which is more open as giving some measurement parameter	Please be guided by RFP
124	4	61	The Storage system offered must be a scale-out system offering SAN (block)/object workloads. The Storage supplied should be an appliance with a Single Microcode offering all protocols and should not be based on server based General Purpose Filesystems or Operating systems such as Linux, Windows etc.	Request you to modify to following specs: The Storage system offered must be a scale-out system offering SAN (block) workloads. The Storage supplied should be an appliance with a Single Microcode offering all protocols and should not be based on server based General Purpose Filesystems or Operating systems such as Linux,Windows etc.	Serial number 4 of Table II (Flash storage) of Annexure E is revised as: The Storage system offered must be a scale-out system offering SAN (block). The Storage supplied should be an appliance with a Single Microcode offering for block.
125	10	61	The proposed storage system should have minimum 4x12Gb SAS ports and 4x25GbE and 4x16Gbps FC front end ports available across dual controllers.	Request you to modify to following specs: The proposed storage system should have minimum 4x12Gb SAS ports and 4x10GbE (copper ports) and 4x16Gbps FC front end ports available across dual controllers	Please be guided by RFP
126	II) Flash Storage (2*100 TB Usable Capacity) 2	62	The Proposed Storage must be enterprise class storage. The storage should be configured with 100 TB usable capacity without compression and de-duplication using SSD Drives with at least Dual drive failure protection. SSD Drive capacity should be less than 4 TB.	Recommend Bank to consider end to end NVME storage being all flash requirement. Also Bank should mention Performance in the RFP like IOPS and Throughput and response time Request change in clause as "The Proposed Storage must be enterprise class NVME storage. The storage should be configured with 100 TB usable capacity without compression and de-duplication using NVME SSD Drives with at least Dual drive failure protection. SSD Drive capacity should be less than 4 TB.	**Clarification:** The ask of this RFP is SSD based storage whereas bidder may quote anything higher than the SSD.

Sl. No.	Clause no.	Page no.	Clause	Query	Bank Response
127	13	62	The proposed storage system must have the capability of moving the hot data to high-performance drives and cold data to low performance drives in real time. The system should provide capability to tier data to high density drives on premise and off premise to an object storage or equivalent platform preserving data efficiencies.	Request you to modify to following specs: Object storage cannot be provisioned along with SAN/FC block storage. Object storage is layer above file system and SAN storages can only provide block and not Object. Block storage can store any type of data and tier it, however storage itself is unaware of the same. Please clarify and modify to accomodate block	Serial No. 13 of Table II (Flash Storage) of Annexue E stands deleted
128	3	63	Storage system must be offered in a No-Single-Point of Failure offering 100% data availability with minimum 2 Nodes/Controllers and Scale-Out to minimum 4 Nodes/Controllers.	We understand the bank is looking for a NSPOF architecture and needs a high availability. The clause in the present form is allowing bidders to offer storage with 2 controllers. Bidders will offer with only 2 controllers. However, the clause of scalability to 4 controllers/Nodes is restrictive for a few bidders. Request the bank to amend the clause and remove the scaleout requirement. There are architectures that support NoSingle Point of Failure even with a 2 Controller architecture. Request you to consider the Scaleout as an option.	Please be guided by RFP
129	5	63	The Storage system should be offered with minimum 64 GB DRAM cache across dual controllers. The cache should be scalable to 384 GB in a scale- out architecture with minimum 4 Controllers. For Storage system with Scale-Up architecture support only should quote Dual controllers with at least 384 GB cache on day one across HA pair.	The Clause in the present form is asking for a 64GB Cache across dual controllers for 100TB Storage. This is far too lesser Cache. Request the bank to consider atleast 128GB Cache across dual controllers. Also the Clause Says for Scaleup architectures, the vendor should offer atleast 384GB Cache on day 1. This clause is an putting a few vendors to disadvantage as they are forced to give higher cache on day 1 and few vendors will offer standard lower cache. This clause will put vendors technically and commercially at a disadvantage.	Serial No. 5 of Table II (Flash Storage) of Annexue E is revised as: The Storage system should be offered with minimum 192 GB DRAM cache across dual controllers. The cache should be scalable to 384 GB in a scale- out architecture with minimum 4 Controllers.
130	4	63	The Storage system offered must be a scale-out system offering SAN (block)/object workloads. The Storage supplied should be an appliance with a Single Microcode offering all protocols and should not be based on server based General Purpose Filesystems or Operating systems such as Linux, Windows etc.	Requesting the Technical Committee to kindly ammend the same to The Storage system offered must be a scale-out system offering SAN (block) workloads. The Storage supplied should be an appliance with a Single Microcode offering all protocols and should not be based on server based General Purpose Filesystems or Operating systems such as Linux, Windows etc.	Serial number 4 of Table II (Flash storage) of Annexure E is revised as: The Storage system offered must be a scale-out system offering SAN (block). The Storage supplied should be an appliance with a Single Microcode offering for block.

Sl. No.	Clause no.	Page no.	Clause	Query	Bank Response
131	4	63	The Storage system offered must be a scale-out system offering SAN (block)/object workloads. The Storage supplied should be an appliance with a Single Microcode offering all protocols and should not be based on server based General Purpose Filesystems or Operating systems such as Linux, Windows etc.	CIFS and NFS mentioned in point 24 of RFP clause as requirement however missing in this clause. Request change in clause as "The Storage system offered must be a scale-out system offering SAN (block), NAS (CIFS/NFS) and object workloads. The Storage supplied should be an appliance with a Single Microcode offering all protocols and should not be based on server based General Purpose Filesystems or Operating systems such as Linux, Windows etc.."	Serial number 4 of Table II (Flash storage) of Annexure E is revised as: The Storage system offered must be a scale-out system offering SAN (block). The Storage supplied should be an appliance with a Single Microcode offering for block.
132	7	63	The proposed Storage System must have SSD drives, each of 12Gbps interface speed to meet the capacity and performance requirements for the applications. The system must support a minimum of 200 disks for scalability purpose across HA pair.	Request to reduce the drive scalability support to 140 for scaleout architecture. Request to amend the clause as "The proposed Storage System must have SSD drives, each of 12Gbps interface speed to meet the capacity and performance requirements for the applications. The system must support a minimum of 140 disks for scalability purpose across HA pair."	Please be guided by RFP
133	13	63	The Serial No. 13 of Table I of Annexue E (VMware vSAN ready Hyper-Converged Nodes Specifications)he hot data to high-performance drives and cold data to low performance drives in real time. The system should provide capability to tier data to high density drives on premise and off premise to an object storage or equivalent platform preserving data efficiencies.	This is an all flash array and no HDD proposed hence this feature is not applicable across all OEM hence request to remove this clause or amend as follows Request to amend the clause as " The system should provide capability to tier data to high density drives on premise and off premise to an object storage or equivalent platform preserving data efficiencies."	Serial No. 13 of Table II (Flash Storage) of Annexue E stands deleted
134	II) Flash Storage (2*100 TB Usable Capacity) 3	63	Storage system must be offered in a No-Single-Point of Failure offering 100% data availability with minimum 2 Nodes/Controllers and Scale-Out to minimum 4 Nodes/Controllers.	100% data availability is mentioned in some OEM document with conditions however major OEM in leader quadrant support either 5 9's or 6 9's Request change in clause as "Storage system must be offered in a No-Single-Point of Failure offering 99.999% data availability with minimum 2 Nodes/Controllers and Scale-Out to minimum 4 Nodes/Controllers."	Please be guided by RFP
135	II) Flash Storage (2*100 TB Usable Capacity) 7	63	The proposed Storage System must have SSD drives, each of 12Gbps interface speed to meet the capacity and performance requirements for the applications. The system must support a minimum of 200 disks for scalability purpose across HA pair.	Request to reduce the drive scalability support to 140 for scaleout architecture. Request to amend the clause as "The proposed Storage System must have SSD drives, each of 12Gbps interface speed to meet the capacity and performance requirements for the applications. The system must support a minimum of 140 disks for scalability purpose across HA pair."	Please be guided by RFP

Sl. No.	Clause no.	Page no.	Clause	Query	Bank Response
136	II) Flash Storage (2*100 TB Usable Capacity) 10	63	The proposed storage system should have minimum 4x12Gb SAS ports and 4x25GbE and 4x16Gbps FC front end ports available across dual controllers.	Request bank to allow 10 Gbps Ports . Request amendment to clause as "The proposed storage system should have minimum 4x12Gb SAS ports and 4x25GbE/4x10Gbps SFP+ and 4x16Gbps FC front end ports available across dual controllers."	Please be guided by RFP
137	II) Flash Storage (2*100 TB Usable Capacity) 13	63	The proposed storage system must have the capability of moving the hot data to high-performance drives and cold data to low performance drives in real time. The system should provide capability to tier data to high density drives on premise and off premise to an object storage or equivalent platform preserving data efficiencies.	This is an all flash array and no HDD proposed hence this feature is not applicable across all OEM hence request to remove this clause or amend as follows

Request to amend the clause as " The system should provide capability to tier data to high density drives on premise and off premise to an object storage or equivalent platform preserving data efficiencies." | Serial No. 13 of Table II (Flash Storage) of Annexue E stands deleted |
| 138 | 59. Annexure E –Technical Compliance Flash Storage (2*100 TB | 63 | | We request bank to provide information on where the storage be connected and what function the storage needs to fulfill. We request this information to create our understanding of the project. | **Clarification:** Ask of the storage under this RFP is for Bank's cloud project and storage will be used in this project for the bigger size VMs where older data will be move to this storage. |
| 139 | 4 | 63 | The Storage system offered must be a scale-out system offering SAN (block)/ object workloads. The Storage supplied should be an appliance with a Single Microcode offering all protocols and should not be based on server based General Purpose Filesystems or Operating systems such as Linux, Windows etc. | Request to change the clause as:

The Storage system offered must be a scale-out system offering SAN (block)/ object workloads . The Storage supplied should be an appliance with a Single Microcode offering all protocols and should not be based on server based General Purpose Filesystems or Operating systems such as Linux, Windows etc.

Justification:
Since the Requirement is for Block Access protocol we would like to recomend to remove the Object storage as Object workload.
Integration with Object workload can be done with external Dedicated Object Storage which will be a seperate offering | Serial Number 4 of Table II (Flash Storage) of Annexure E is revised as: The Storage system offered must be a scale-out system offering SAN (block). The Storage supplied should be an appliance with a Single Microcode offering for block. |

Sl. No.	Clause no.	Page no.	Clause	Query	Bank Response
140	Flash Storage (2*100 TB Usable Capacity): 3 Point in Table	63	Storage system must be offered in a No-Single-Point of Failure offering 100% data availability with minimum 2 Nodes/Controllers and Scale-Out to minimum 4 Nodes/Controllers	Bidder seeks clarity , If Bank mentiones in this Clause as 2 Nodes or 2 Controller .	**Clarification:** Initially supplied storage system will have 2 controller which must be capability to scale-out to minimum 4 controller in future.
141	Flash Storage (2*100 TB Usable Capacity): 3 Point in Table	63	The Storage system offered must be a scale-out system offering SAN (block)/object workloads. The Storage supplied should be an appliance with a Single Microcode offering all protocols and should not be based on server based General Purpose Filesystems or Operating systems such as Linux, Windows etc.	Conflicting Statement from Page 13 clause 7.1 with The scope of work includes following :The scope of the work is deployment of VMware private cloud solutions and related software along with Supply, Installation and Commissioning of vSAN ready Hyper-Converged nodes, all flash NAS storage . Please Confirm Bidder needs to propose NAS or SAN Storage or Unified storage with Protocols.	**Clarification:** Bidder will supply SAN storage. The supplied storage will be block storage with isci/ethernet connectivity.
142	16	64	The proposed storage should provide in-line data efficiency features such as Compression, De-Duplication and compaction	we understand that the bank is considering data reduction features to optimize the storage capacity. The Storage array needs to store more data with lesser capacity using data reduction features such as Compression and De-Duplication. Pls confirm. Compaction is a terminology that is not in use by majority venmdors.	Serial Number 16 of Table II (Flash Storage) of Annexure E is revised as:The proposed storage should provide in-line data efficiency features such as Compression, De-Duplication.
143	13	64	The proposed storage system must have the capability of moving the hot data to high-performance drives and cold data to low performance drives in real time. The system should provide capability to tier data to high density drives on premise and off premise to an object storage or equivalent platform preserving data efficiencies.	The Storage array is an All Flash storage array. All Flash storage arrays use Flash as a storage tier. There is no spinning drives for Tiering or moving the data between the higher and lower tiers of storage. Request the bank to remove this clause, As this is promoting a Hybrid flash storage arrray.	Line item 13 of Table II (Flash storage) of Annexure E stands deleted.
144	10	64	The proposed storage system should have minimum 4x12Gb SAS ports and 4x25GbE and 4x16Gbps FC front end ports available across dual controllers.	Requesting the Technical Committee to kindly ammend the same to The proposed storage system should have minimum 4x12Gb SAS ports and 4x10GbE and 4x16Gbps FC front end ports available across dual controllers.	Please guided by RFP

Sl. No.	Clause no.	Page no.	Clause	Query	Bank Response
145	13	64	The proposed storage system must have the capability of moving the hot data to high-performance drives and cold data to low performance drives in real time. The system should provide capability to tier data to high density drives on premise and off premise to an object storage or equivalent platform preserving data efficiencies.	Requesting the Technical Committee to kindly ammend the same as "Object storage cannot be provisioned along with SAN/FC block storage. Object storage is layer above file system and SAN storages can only provide block and not Object" TO: The proposed storage system must have the capability of moving the hot data to high-performance drives and cold data to low performance drives in real time.	Line item 13 of Table II (Flash storage) of Annexure E stands deleted.
146	59. Annexure E –Technical Compliance Flash Storage (2*100 TB	64	10. The proposed storage system should have minimum 4x12Gb SAS ports and....	We understand that these are storage back-end ports	**Clarification:** Yes, it is back-end port connectivity.
147	59. Annexure E –Technical Compliance Flash Storage (2*100 TB	64	13. The system should provide capability to tier data to high density drives on premise and off premise to an object storage or equivalent platform preserving data efficiencies	We understand the "tier data to high density drives" refers to disks within the storage. Please clarify or confirm.	Line item 13 of Table II (Flash storage) of Annexure E stands deleted.
148	59. Annexure E –Technical Compliance Flash Storage (2*100 TB	64	13. The system should provide capability to tier data to high density drives on premise and off premise to an object storage or equivalent platform preserving data efficiencies	For the clause "tier data to off premise object storage" we understand this can it be done by adding a "gateway node having suitable ip connectivity" in future at additional cost. Please clarify or confirm.	Line item 13 of Table II (Flash storage) of Annexure E stands deleted.
149	59. Annexure E –Technical Compliance Flash Storage (2*100 TB	64	14. and allow re-usage of Disk Shelves with higher models of the same product line	We understand bank is looking for using disk shelves for higher or highest model in the same family Please clarify or confirm	**Clarification:** Yes, it may be used with higher model of same family.

Sl. No.	Clause no.	Page no.	Clause	Query	Bank Response
150	59. Annexure E –Technical Compliance Flash Storage (2*100 TB	64	17. The proposed system should provide the features such as capacity usage, trends, activity evaluation and perform corrective actions on directories and files.	Since the product being proposed is a block storage, the management tool can provide information at LUN level and not files and directories. Kindly modify the clause accordingly.	Line item 17 of Table II (Flash storage) of Annexure E is revised as: The proposed system should provide the features such as capacity usage, trends, Reporting for the Block Storage, activity evaluation and suggest/perform corrective actions.
151	13	64	The proposed storage system must have the capability of moving the hot data to high-performance drives and cold data to low performance drives in real time. The system should provide capability to tier data to high density drives on premise and off premise to an object storage or equivalent platform preserving data efficiencies.	Request to remove the clause: Justification: Tiering is possible between two or more types of drives like SSD, SAS & NL-SAS. Since the RFP requiremnt is for All Flash tier only, this clause is not valid and hence we would like to remove the said clause	Line item 13 of Table II (Flash storage) of Annexure E stands deleted.
152	17	64	The proposed system should provide the features such as capacity usage, trends, activity evaluation and perform corrective actions on the directories and files.	Request to change the clause as: The proposed system should provide the features such as capacity usage, trends, activity evaluation and *suggest* ~~perform~~ corrective actions ~~on the directories and files.~~ Justification: Since the RFP requiremetn is for Block acces protocol we would like to remove the reference to directories and files.	Line item 17 of Table II (Flash storage) of Annexure E is revised as: The proposed system should provide the features such as capacity usage, trends, Reporting for the Block Storage, activity evaluation and suggest/perform corrective actions.
153	19	65	The proposed storage should offer minimum 500 point-in-time snapshots per volume/LUN in such a way that the snapshots should not consume extra space at the time of creation. The license for entire usable capacity to be included.	WE understand that bank wants to perform point in time snapshots for the Volume. The Snapshots should not consume extra space at the time of creation. The Licence for entire usable capacity should be included. Request the bank to reduce the minimum Snapshots to 256 or lower, which can take care of teh weekly, monthly and yearly snapshots.	Please be guided by RFP

Sl. No.	Clause no.	Page no.	Clause	Query	Bank Response
154	59-24	65	The proposed storage array must support data at rest encryption for file shares including both CIFS and NFS, managed by On-board Key Manager or External Key Manager offering industry standard certification/compliance by using a cryptographic security module supporting FIPS 140-2 level encryption. For multi-tenant configuration, individual tenant's keys should be managed by the offered storage	The Storage array proposed is an Block Storage. CIFS and NFS are functionalities of NAS Storage. Request the bank to remove the clause. This is also repeated in the Point no 25 of Page 66 for Data At rest encryuption.	Line item 24 of Table II (Flash storage) of Annexure E is revised as: The proposed storage array must support data at rest encryption, managed by On-board Key Manager or External Key Manager offering industry standard certification/compliance by using a cryptographic security module supporting FIPS 140-2 level encryption.
155	59-27	65	The storage should be configured to comply with SECRule17a-4 for filesystems.	The Ask is for Block storage. The File systems are not complied on block storage. Request the bank to delete the clause which refers to block storage.	Line item 27 of Table II (Flash storage) of Annexure E is revised as: The storage should be configured to comply with SEC Rule 17a-4.
156	26	65	The storage system should support IPsec data encryption in flight for all IP traffic including the FC, iSCSI protocols to combat replay and man-in-the-middle (MITM) attacks.	We understand the storage array being proposed here is a Block storage. The Data encryption for the data in flight is not a functionality of storage array and is best handled from the WAN Routers.	Line item 26 of Table II (Flash storage) of Annexure E stands deleted.
157	59-19	65	The proposed storage should offer minimum 500 point-in-time snapshots per volume/LUN in such a way that the snapshots should not consume extra space at the time of creation. The license for entire usable capacity to be included.	WE understand that bank wants to perform point in time snapshots for the Volume. The Snapshots should not consume extra space at the time of creation. The Licence for entire usable capacity should be included. Request the bank to reduce the minimum Snapshots to 256 or lower, which can take care of teh weekly, monthly and yearly snapshots.	Please be guided by RFP
158	18	65	The system offered should provide the ability to recover files, databases, and complete volumes instantaneously from the snapshot copies.	Request to change the clause as: The system offered should provide the ability to recover *files, databases, and* complete volumes instantaneously from the snapshot copies. Justification: This is NAS feature. Since the rquirement is for Block acces protocol, the minimum granularity for instant recovery from snapshots will be volume/Lun's. We can howeever recover files by mounting the Volume snapshots ,but this will not be instantaneous. Instant database recovery can be done if by configuring each database seperately of unique luns.	Line item 18 of Table II (Flash storage) of Annexure E is revised as: The system offered should provide the ability to recover complete volumes instantaneously from the snapshot copies.

Sl. No.	Clause no.	Page no.	Clause	Query	Bank Response
159	24	65	The proposed storage array must support data at rest encryption for file shares including both CIFS and NFS, managed by On-board Key Manager or External Key Manager offering industry standard certification/compliance by using a cryptographic security module supporting FIPS 140-2 level encryption. For multi-tenant configuration, individual tenant's keys should be managed by the offered storage.	Request to change the clause as: The proposed storage array must support data at rest encryption *for file shares including both CIFS and NFS,* managed by On-board Key Manager or External Key Manager offering industry standard certification/compliance by using a cryptographic security module supporting FIPS 140-2 level encryption. For multi-tenant configuration, individual tenant's keys should be managed by the offered Storage Justification: Since the requirement is for iSCSi & FC block protocol hence request you to remove CIFS & NFS from this clause	Line item 24 of Table II (Flash storage) of Annexure E is revised as: The proposed storage array must support data at rest encryption, managed by On-board Key Manager or External Key Manager offering industry standard certification/compliance by using a cryptographic security module supporting FIPS 140-2 level encryption.
160	24	65	The proposed storage array must support data at rest encryption for file shares including both CIFS and NFS, managed by On-board Key Manager or External Key Manager offering industry standard certification/compliance by using a cryptographic security module supporting FIPS 140-2 level encryption. For multi-tenant configuration, individual tenant's keys should be managed by the offered	CiFS and NFS are not part of solution. Whatever is stored in block storage will be encrypted. Please clarify this as point no.4 asks for block storage only. Encryption is present across storage please remove the point for multi-tenant configuration as this being bank doesn't require the same.	Line item 24 of Table II (Flash storage) of Annexure E is revised as: The proposed storage array must support data at rest encryption, managed by On-board Key Manager or External Key Manager offering industry standard certification/compliance by using a cryptographic security module supporting FIPS 140-2 level encryption.
161	26	65	The storage system should support IPsec data encryption in flight for all IP traffic including the FC, iSCSI protocols to combat replay and man- in-the-middle (MITM) attacks.	Requesting the technical committee to kindly remove the clause	Line item 26 of Table II (Flash storage) of Annexure E stands deleted
162	25	66	The proposed storage array must support data-at-rest encryption in compliance with FIPS 140-2 certification managed by On-board Key Manager or External Key Manager using a cryptographic security module.	The Point is repeat. Request you to delete the Point no 24 above.	Line item 25 of Table II (Flash storage) of Annexure E stands deleted.
163	31	66	The offered system should offer capability to find and fix security vulnerabilities and automate risk remediation.	The request is for a block storage, finding and fixing the Security vulnerabilities fetaure is offered comprehensively by external cyber recovery solutions. Hence request bank to fix this clause.	Line item 31 of Table II (Flash storage) of Annexure E stands deleted.

Sl. No.	Clause no.	Page no.	Clause	Query	Bank Response
164	24	66	The proposed storage array must support data at rest encryption for file shares including both CIFS and NFS, managed by On-board Key Manager or External Key Manager offering industry standard certification/compliance by using a cryptographic security module supporting FIPS 140-2 level encryption. For multi-tenant configuration, individual tenant's keys should be managed by the offered	Requesting the technical committee to kindly ammend the same as "CiFS and NFS are not part of solution. Whatever is stored in block storage will be encrypted. Encryption is present across storage please remove the point for multi-tenant configuration as this being bank doesn't require the same" TO: The Proposed storage array must support encryption for the stored data which is compliant as per best industry standards.	Line item 24 of Table II (Flash storage) of Annexure E is revised as: The proposed storage array must support data at rest encryption, managed by On-board Key Manager or External Key Manager offering industry standard certification/compliance by using a cryptographic security module supporting FIPS 140-2 level encryption.
165	28	66	The Storage system should support (UEFI) secure boot to ensure that only signed and verified images are used to boot the system. Storage array should provide security feature while booting by ensuring that Key Manager manages keys to lock/unlock drives and associated volumes.	Requesting the technical committee to kindly provide clarity on the same as Storage is not a Host or server and this clause violates the requirement stated in point 4 which states microcode requirement.	**Clarification:** A bootable luns may be mapped to host for booting with required OS and should support UEFI mode & secure boot
166	29	66	The Storage Management Software should offer operational simplicity and rich data management functionalities for Unified Storage. It should provide a single dashboard to monitor health, availability, capacity usage, performance, and data protection status of various platforms along with resource planning.	Requesting the technical committee to kindly provide clarity on the same as Point no. 1 asks for block storage, however this points states Unified, kindly clarify.	Line item 24 of Table II (Flash storage) of Annexure E is revised as: The Storage Management Software should offer operational simplicity and rich data management functionalities for proposed storage. It should provide a single dashboard to monitor health, availability, capacity usage, performance, and data protection status of various platforms along with resource planning.
167	II) Flash Storage (2*100 TB Usable Capacity) 27	66	The storage should be configured to comply with SEC Rule 17a-4 for filesystems.	Data file locking is required by Bank for this storage ?	Line item 27 of Table II (Flash storage) of Annexure E is revised as: The storage should be configured to comply with SEC Rule 17a-4 .
168	26	66	The storage system should support IPsec data encryption in flight for all IP traffic including the FC, iSCSI protocols to combat replay and man- in-the-middle (MITM) attacks.	Request to Remove the clause as: Justification: Ipsec is only for IP trafic (ISCSI) and FCIP not valid for pure FC traffic.	Line item 26 of Table II (Flash storage) of Annexure E stands deleted.

Sl. No.	Clause no.	Page no.	Clause	Query	Bank Response
169	27	66	The storage should be configured to comply with SEC Rule 17a-4 for filesystems.	Request to remove the clause as: Justification: Since the RFP Requirement if for Block Protocol. Request to remove this clause	Line item 27 of Table II (Flash storage) of Annexure E is revised as: The storage should be configured to comply with SEC Rule 17a-4.
170	30	66	The Storage management interface (GUI) should be virtualization aware and provide end to-end virtual-to- physical mapping of the physical infrastructure using a single console.	Request to remove the clause as: Justification: This is feature is specific to HCI environment, since the requirement if for Block Storage we request to remove this clause	**Clarification:** This clause is for storage and admin can manage and monitor the storage from GUI and perform all the storage related actvity from the storage console.
171	31	66	The offered system should offer capability to find and fix security vulnerabilities and automate risk remediation.	Request to remove the clause as: Justification: This is specific for NAS storage. Since the RFP requiremnt is for block access, we request to remove this clause	Line item 31 of Table II (Flash storage) of Annexure E stands deleted.
172	27	66	The storage should be configured tocomply with SEC Rule 17a-4 for filesystems.	Requesting the technical committee to kindly remove the same as it majorly applies with Object Storage Platforms.	Line item 27 of Table II (Flash storage) of Annexure E is revised as: The storage should be configured to comply with SEC Rule 17a-4 .
173	28	66	The Storage system should support (UEFI) secure boot to ensure that only signed and verified images are used to boot the system. Storage array should provide security feature while booting by ensuring that Key Manager manages keys to lock/unlock drives and associated volumes.	Storage is not a Host or server and this clause violates the requirement stated in point 4 which states microcode requirement.	Please be guided by RFP & Corrigendum
174	29	66	The Storage Management Software should offer operational simplicity and rich data management functionalities for Unified Storage. It should provide a single dashboard to monitor health, availability, capacity usage, performance, and data protection status of various platforms along with resource planning.	Point no. 1 asks for block storage, however this points states Unified, kindly clarify? Please modify the clause to accommodate block only storage.	Line item 29 of Table II (Flash storage) of Annexure E is revised as: The Storage Management Software should offer operational simplicity and rich data management functionalities for proposed storage. It should provide a single dashboard to monitor health, availability, capacity usage, performance, and data protection status of various platforms along with resource planning.

Sl. No.	Clause no.	Page no.	Clause	Query	Bank Response
175	30	66	The bidder should have minimum average turnover of Rs.385.00 Crore of previous three financial years i.e. 2019-20, 2020-21 and 2021-22 as per the audited balance sheet available at the time of submission of tender. In case the audited financials for the year 2021-22 is not available, CA Certificate with UDIN number for turnover of 2021-22 / audited financials of 2018-19 should be submitted. Bidder should also provide self declaration that statutory audit for the FY 2021-22 is not completed. This must be the individual company turnover and not that of any group of companies. Copies of the audited balance sheet and P&L Statement of the company showing the same is to be submitted.	Can we share audited financials of 2018-19 should be submitted. Financials can submit for FY 18-19 ,19-20 ,20-21 instead of 2021-2022 as we are still in process of auditing.	Please be guided by RFP
176	34	67	The proposed storage must offer an enterprise storage array & 100% data availability guaranteed architecture.	100% Availability of Data is offered with a solution, request the bank to amend the clause as: "The proposed storage should support solution configurations to provide 100% data availability"	Line item 34 of Table II (Flash storage) of Annexure E is revised as: The proposed storage should support solution configurations to provide 100% data availability
177	35	67	The proposed storage should support true symmetric active-active controllers so that single a single logical unit cab be shared across all the offered controllers in symmetrical fashion while supporting all the major functionalities like Thin Provisioning etc.	Request to remove the OEM specific architecture & terms like Symmetric. Rest active-active is common architecture supported by all OEM in leaders quadrant Request to amend the clause as. "The proposed storage should support true active-active controllers supporting all the major functionalities like Thin Provisioning etc."	Please be guided by RFP
178	2	67	The proposed solution must be an enterprise class backup solution and purpose-built backup appliance.	Purpose built is not available across all leading OEM who have Backup Solutions hence request to amend the clause	Please be guided by RFP

Sl. No.	Clause no.	Page no.	Clause	Query	Bank Response
179	3	67	The bidder needs to supply minimum usable capacity of 3 x 1 PB (1 PB each at DC, DR Site and AirGap) without compression and de-duplication.	As we understand bank is looking for "Air Gap" Copy, immutability, air-gap and data isolation for backup data & move business critical data into an isolated air-gapped environment. (ie as per Compliance point 35, 36 on Page 69). Same can be achived on DR copy without any addtional 1 PB of of addtional replicated copy at "Air Gap" copy location. Hence request bank to advise bidder to provide required solution for "Air Gap" copy solution at DR site & supply minimum usable capacity of 2x1PB (1 PB each at DC, DR Site) to be provided. If any addtional location backup copy required to meet "Air gap" soluton, same need to be provided by the bidder.	Please be guided by RFP
180	3	67	The bidder needs to supply minimum usable capacity of 3 x 1 PB (1 PB each at DC, DR Site and AirGap) without compression and de-duplication. The purpose-built backup solution must support minimum 90 TB throughputs per hour. The proposed backup solution must be enterprise class. The backup solution must support disk to disk to tape media backup functionality. The purpose-built backup solution must support further expansion of at least 2 times of proposed capacity in this RFQ.	1. Can you please specify the backup SLA to be met in this case?	**Clarification:** SLA is not a particular product. It is for entire project and same is applicable for any specific products.
181	II) Flash Storage (2*100 TB Usable Capacity) 34	67	The proposed storage must offer an enterprise storage array & 100% data availability guaranteed architecture.	100% data availability is mentioned in some OEM document with conditions however major OEM in leader quadrant support either 5 9's or 6 9's Request to amend the clause as "The proposed storage must offer an enterprise storage array & 99.999% data availability guaranteed architecture."	Please be guided by RFP
182	II) Flash Storage (2*100 TB Usable Capacity) 35	67	The proposed storage should support true symmetric active-active controllers so that single a single logical unit cab be shared across all the offered controllers in symmetrical fashion while supporting all the major functionalities like Thin Provisioning etc.	Request to remove the OEM specific architecture & terms like Symmetric. Rest active-active is common architecture supported by all OEM in leaders quadrant Request to amend the clause as. "The proposed storage should support true active-active controllers supporting all the major functionalities like Thin Provisioning etc."	Line item 35 of Table II (Flash storage) of Annexure E is revised as: The proposed storage should support true active-active controllers so that single a single logical unit cab be shared across all the offered controllers in symmetrical fashion while supporting all the major functionalities like Thin Provisioning etc.

Sl. No.	Clause no.	Page no.	Clause	Query	Bank Response
183	III) Backup Solution Specifications 2	67	The proposed solution must be an enterprise class backup solution and purpose-built backup appliance.	Purpose built is not available across all leading OEM who have Backup Solutions hence request to amend the clause Request to amend the clause as. "The proposed solution must be an enterprise class backup solution and purpose-built backup Solution."	Please be guided by RFP
184	III) Backup Solution Specifications 3	67	The bidder needs to supply minimum usable capacity of 3 x 1 PB (1 PB each at DC, DR Site and AirGap) without compression and de-duplication.	As we understand bank is looking for "Air Gap" Copy, immutability, air-gap and data isolation for backup data & move business critical data into an isolated air-gapped environment. (ie as per Compliance point 35, 36 on Page 69). Same can be achived on DR copy without any addtional 1 PB of of addtional replicated copy at "Air Gap" copy location. The Primary requirement of bank is to have "air gap" copy. Hence request bank to advise bidder to provide required solution for "Air Gap" copy solution at DR site & supply minimum usable capacity of 2x1PB (1 PB each at DC, DR Site) to be provided. If any addtional location backup copy required to meet "Air gap" soluton, same need to be provided by the bidder.	Please be guided by RFP
185	59. Annexure E –Technical Compliance : III) Backup Solution Specifications: Sr.No:2	67	The proposed solution must be an enterprise class backup solution and purpose-built backup appliance.	In Shared Clause, Bank has mentioned backup Appliance on Page 12(7. Scope of Work Sr.No:2, 6) ,Page 67(III) Backup Solution Specifications Sr.No:4), 70 clause 41 appliance , Page 70 : Sr.41(PBBA:(If we assume PBBA is Purpose Build Backup Appliance)) But On Page 68:III) Backup Solution Specifications: Sr.No:10, Bank has asked for Separate Backup server in DC and DR. Bidder seeks clarity, if Bank wants Purpose Build Backup appliance which includes Backup software, Compute and storage inbuilt or is Bank looking for Backup solution with any general purpose storage and Seperate Backup servers . If Backup server and storage is seperately required, PLease confirm if we can get Virtual machine for additional server for Backup where ever required.	Please be guided by RFP

Sl. No.	Clause no.	Page no.	Clause	Query	Bank Response
186	3	67	The bidder needs to supply minimum usable capacity of 3 x 1 PB (1 PB each at DC, DR Site and AirGap) without compression and de-duplication.	Please provide details of Airgap site and network connectitivity with DC/DR. Is Airgap with at DC or DR? Also suggest if the expectation is to replicate data at Airgap both from DC & DC or only from DC?	**Clarification:** Entire Backup solution design will be proposed and taken care by OEM. Accordingly OEM will propose the AirGap site. 1 Gbps link is available for Backup replication at present which may be upgraded as per requirement.
187	10	68	The bidder will supply backup server one each at DC and DR site along with disk-based backup solution along with necessary operating system licenses for backup server. The backup server as well as backup appliance must have minimum 4x25 Gbps Ethernet port and 4x32 Gbps FC (Fibre Channel) port (optional for backup appliance).	Request Bank to consider 4x32 Gbps FC or 8x16 Gbps FC port instead of 32 gbps only.	Please be guided by RFP
188	6	68	Solution must support RAID 6 technologies with hot spare disk.	1. Can we offer Backup appliane with Erasure coding? Because, Erasure Coding (EC) is a data protection method in which encoded, redundant data is broken into fragments (or chunks) and dispersed across storage devices. The chunks of data can reside across multiple servers, storage components and geographies. Erasure Coding provides greater hardware resilience from disk/node failures with less disk overhead than RAID methods.	Line item 6 of Table III (Backup Solution Specifications) of Annexure E is revised as: Solution must support RAID 6 technologies with hot spare disk/erasure coding for data resiliency.
189	12	68	Proposed purpose-built backup solution should be able to interface with various industry leading backup software, server platforms and operating systems.	1. Can you please elaborate, if in this point, the "Purpose Built Backup Solution" is to be interpreted as Purpose Built Backup Appliance? If yes, then it is a vendor specific point, giving an advantage to a single Appliance vendor and hence we request you to change it to make it more inclusive.	**Clarification:** Purpose Built Backup Solution to be interpreted as Purpose Built Backup Appliance
190	16	68	The purpose-built Backup solution must support high density disk array expansion in order to help the Bank with lower rack space utilization	1. Can a software defined, scale out, purpose built backup appliance qualify to cater to this requirement as that avoids hardware vendor lock in and also offers intelligent capacity scaling?	Please be guided by RFP
191	19	68	Backup Solution Should support retention lock or equivalent feature which ensures that no data is deleted accidently	1. Additionally we also recommend to ask for data immutability and WORM copy of the data backed up.	Please be guided by RFP

Sl. No.	Clause no.	Page no.	Clause	Query	Bank Response
192	III) Backup Solution Specifications 10	68	The bidder will supply backup server one each at DC and DR site along with disk-based backup solution along with necessary operating system licenses for backup server. The backup server as well as backup appliance must have minimum 4x25 Gbps Ethernet port and 4x32 Gbps FC (Fibre Channel) port (optional for backup appliance).	Please clarify the optional for backup appliance. 32 Gbps is standard and Bank should consider it as minimum in FC protocol	Please be guided by RFP & Corrigendum
193	III) Backup Solution Specifications 21	68	The Solution must use store all data along with the meta data that describes it. It must provide the ability to rebuild the meta data structure by scanning the data from the disk to enable	This clause is incomplete and need further clarification. Request to remove as ambiguos term	Line item 21 of Table III (Backup Solution Specifications) of Annexure E is revised as: The Solution must use store all data along with the meta data that describes it. It must provide the ability to rebuild the meta data structure by scanning the data from the disk to enable recovery of backuped data.
194	19	68	Backup Solution Should support retention lock or equivalent feature which ensures that no data is deleted accidently	Request to change the clause as: Backup Solution Should support retention lock or equivalent feature on tape backups and ransomware protection for Disk Backups which ensures that no data is deleted accidently Justification: WORM functionality can be provide using WORM Tapes and for D2D backups we can have ransomware protection.	Please be guided by RFP
195	59. Annexure E –Technical Compliance : III) Backup Solution Specifications	68	The bidder will supply backup server one each at DC and DR site along with disk-based backup solution along with necessary operating system licenses for backup server.The backup server as well as backup appliance must have minimum 4x25 Gbps Ethernet port and 4x32 Gbps FC (Fibre Channel) port (optional for backup appliance).	Bidder seeks clarity if Bank is refering Backup appliance as a Backup Target storage in the shared clause. If Not, Please clarify the statement " Backup server as well as Backup Appliance"	Please be guided by RFP

Sl. No.	Clause no.	Page no.	Clause	Query	Bank Response
196	59. Annexure E –Technical Compliance : III) Backup Solution Specifications	68	The bidder will supply backup server one each at DC and DR site along with disk-based backup solution along with necessary operating system licenses for backup server.The backup server as well as backup appliance must have minimum 4x25 Gbps Ethernet port and 4x32 Gbps FC (Fibre Channel) port (optional for backup appliance).	AS pe the shared clause, Bidder seeks clarity if FC SAN Switch with required ports and Licenses will be provided by Bank for Backup connectivity. Specifically if Tape Library is involved. Also, Please share the Tape Library with Number &type of Tapes used in current enviornment.	Please be guided by RFP
197	10	68	The backup server as well as backup appliance must have minimum 4x25 Gbps Ethernet port and 4x32 Gbps FC (Fibre Channel) port (optional for backup appliance).	Please confirm if 4x32Gb/s FC Port requirement is optional or mandatory. If mandatory, request to revise this clause to consider 16Gb/s FC port speed along with 32Gb/s FC port speed, this change won't impact desired backup SLAs defined in this RFQ.	**Clarification:** Bank's On-Premsise Private Cloud is built on HCI infrastructure and HCI work on ethernet. Accordginly, Bank has asked 4x25 Gbps ethernet for backup appliance which is mandatory whereas PC port is optional.
198	12	68	Proposed purpose-built backup solution should be able to interface with various industry leading backup software, server platforms and operating systems.	Request to remove this clause since "purpose-built" backup solution which is requested in this RFP includes Backup appliance and Backup Software and this solution would work only with its own software. Alternatively you can deploy Backup software on your choice of hardware from any OEM.	Please be guided by RFP
199	14	68	The purpose-built backup solution should support OST file system or any other optimized synthetic file system.	Please elaborate on the expected OST file system and optimized synthetic file system to help qualify proposed backup solution.	Please be guided by RFP

Sl. No.	Clause no.	Page no.	Clause	Query	Bank Response
200	3	68	The bidder needs to supply minimum usable capacity of 3 x 1 PB (1 PB each at DC, DR Site and AirGap) without compression and de-duplication. The purpose-built backup solution must support minimum 90 TB throughputs per hour. The proposed backup solution must be enterprise class. The backup solution must support disk to disk to tape media backup functionality. The purpose-built backup solution must support further expansion of at least 2 times of proposed capacity in this RFQ.	Rubrik's provides incremental forever data protection approach reducing the backup window and network traffic. We adhere to stringent SLA requirement and deliver the requested backup window of 8-10 hours as per RFP or better. We do not have a published data sheet with rated throughput. Request bank to amend the cluase as below: "The bidder needs to supply minimum usable capacity of 3 x 1 PB (1 PB each at DC, DR Site and AirGap) without compression and de- duplication. The purpose-built backup solution must support minimum 90 TB throughputs per hour/ backup window of 8-10 hours for the proposed solution. The proposed backup solution must be enterprise class. The backup solution must support disk to disk to tape media backup functionality. The purpose-built backup solution must support further expansion of at least 2 times of proposed capacity in this RFQ." 1. Can you please specify the backup SLA to be met in this case?	Please be guided by RFP
201	6	68	Solution must support RAID 6 technologies with hot spare disk.	We use erasure coding which offers better data resiliency and protection against multiple drive failures. Request Bank to modify the requirement as "Solution must support RAID 6 technologies with hot spare disk/ erasure coding for data resilency". https://www.rubrik.com/blog/architecture/17/2/erasure-coding-rubrik-doubled-capacity-cluster	Line item 6 of Table III (Backup Solution Specifications) of Annexure E is revised as: Solution must support RAID 6 technologies with hot spare disk/erasure coding for data resiliency.
202	6	68	Solution must support RAID 6 technologies with hot spare disk.	1. Can we offer Backup appliane with Erasure coding? Because, Erasure Coding (EC) is a data protection method in which encoded, redundant data is broken into fragments (or chunks) and dispersed across storage devices. The chunks of data can reside across multiple servers, storage components and geographies. Erasure Coding provides greater hardware resilience from disk/node failures with less disk overhead than RAID methods.	Line item 6 of Table III (Backup Solution Specifications) of Annexure E is revised as: Solution must support RAID 6 technologies with hot spare disk/erasure coding for data resiliency.

Sl. No.	Clause no.	Page no.	Clause	Query	Bank Response
203	12	68	Proposed purpose-built backup solution should be able to interface with various industry leading backup software, server platforms and operating systems	1. Can you please elaborate, if in this point, the "Purpose Built Backup Solution" is to be interpreted as Purpose Built Backup Appliance? If yes, then it is a vendor specific point, giving an advantage to a single Appliance vendor and hence we request you to change it to make it more inclusive.	**Clarification:** Purpose Built Backup Solution to be interpreted as Purpose Built Backup Appliance
204	14	68	The purpose-built backup solution should support OST file system or any other optimized synthetic file system.	1. We request you to provide more details around OST File System and Optimized Synthetic File System support required	Please be guided by RFP
205	21	68	The Solution must use store all data along with the meta data that describes it. It must provide the ability to rebuild the meta data structure by scanning the data from the disk to enable	1. This point appears truncated post the word, 'enable', hence we request you to elaborate this point.	Line item 21 of Table III (Backup Solution Specifications) of Annexure E is revised as: The Solution must use store all data along with the meta data that describes it. It must provide the ability to rebuild the meta data structure by scanning the data from the disk to enable recovery of backuped data.
206	25	68	The proposed Backup Solution should support tape Mirroring running concurrently with primary backup jobs to the disk target.	1.We recommend to amend this point as, "The proposed Backup Solution should support tape Mirroring running concurrently or sequentially with primary backup jobs to the disk target." because multiple streams are not possible with tapes and they require sequential writes on them	Line item 25 of Table III (Backup Solution Specifications) of Annexure E is revised as: The proposed Backup Solution should support tape Mirroring running concurrently or sequentially with primary backup jobs to the disk target.
207	28	69	The proposed backup solution must support all leading hypervisors like VMware, Acropolis, Microsoft Hyper-V, RHEL-V to take full as well as incremental backup of the running VMs.	1. Considering the adoption of Hybrid cloud approaches in the enterprises, we would like to suggest you, to also look for support on OpenStack, Oracle VM, Oracle Cloud Infrastructure, Microsoft Azure, Google Cloud Platform and AWS	Please be guided by RFP
208	34	69	The proposed backup solution should not be binding with any specific hardware OEM. It must support other OEMs backup appliances as well.	1. We recommend to change the word Purpose Built Backup Solution to "Purpose Built Backup Appliance" as the Backup software will always be specific and limited to the Backup software publisher.	Please be guided by RFP
209	38	69	The solution must provide instant access of virtual Machine. The solution must allow to instantly power on minimum 25 virtual machines simultaneously from backup appliance with 60K or more IOPS.	1. Can you please confirm if you expect the Purpose Built Backup Appliance to be embeded with necessary Hypervisor to launch the VMs?	**Clarification:** Purpose Built Backup Appliance need not to be embeded with any Hypervisor to launch the VMs whereas whenever Bank need to instant recovery, VM can be powered ON from the backup appliance after mounting the required NFS Cmount point.

Sl. No.	Clause no.	Page no.	Clause	Query	Bank Response
210	39	69	The bidder needs to provide minimum two customer references within India (preferably Public Sector) that run of similar or higher scale	We request bank to consider OEM / Bidder to provide Customer References.	Line item 39 of Table III (Backup Solution Specifications) of Annexure E is revised as: The bidder / OEM needs to provide minimum two customer references within India (preferably Public Sector) that run of similar or higher scale.
211	39	69	The bidder needs to provide minimum two customer references within India (preferably Public Sector) that run of similar or higher scale.	Request to change the clause as: The bidder / OEM needs to provide minimum two customer references within India (preferably Public Sector) that run of similar or higher scale.	Line item 39 of Table III (Backup Solution Specifications) of Annexure E is revised as: The bidder / OEM needs to provide minimum two customer references within India (preferably Public Sector) that run of similar or higher scale.
212	59. Annexure E –Technical Compliance : III) Backup Solution Specifications	69	The purpose-built backup solution must have the feature to integrate with any Tape Library LTO5/6/7/8.	Is bank looking for Managing 2 seperate Backup solution (Existing and New)with a Same Target Storage(Tape Library)? If Not, Please clarify the Backup strategy .	**Clarification:** There will be two primary target, first Purpose Built Backup Appliance and second Tape Library. Bidder need to supply Purpose Built Backup Appliace in this RFP. Bank is already having Tape Library.
213	27	69	The proposed backup solution should allow creation of additional backup copies, run concurrently with primary backup, within the same Library or over the network to another tape library/standalone drive of different format medium (e.g. Ultrium to SDLT etc..) to allow easy valuating operation.	Please share the expected Tape Library make and models that will be integrated with proposed backup solution.	**Clarification:** Oracle Tape Library SL3000, IBM Tape Library 3500, HP Tape Library MSL56480
214	32	69	The proposed backup software licenses must be offered in Sockets or Front-end capacity licenses and with perpetual licensing in this RFQ.	The industry is increasingly moving towards Subscription model. To allow all the OEMs an equal opportunity to participate kindly revise this clause to include Subscription licensing in this RFQ.	Please be guided by RFP
215	34	69	The proposed backup solution should not be binding with any specific hardware OEM. It must support other OEMs backup appliances as well.	Since the solution demanded as part of the RFQ is "purpose-built" it will be not be possible to support integration with other OEMs backup appliances. However the proposed solution can co-exist with other backup solution of bank's choice.	Please be guided by RFP
216	37	69	The proposed solution should enable the fastest and surest possible recovery, in addition to potentially helping to track the source of the attack.	Request to remove this clause since this is not a feature of backup solution.	Line item 37 of Table III (Backup Solution Specifications) of Annexure E stands deleted

Sl. No.	Clause no.	Page no.	Clause	Query	Bank Response
217	12	69	Proposed purpose-built backup solution should be able to interface with various industry leading backup software/server platforms and operating systems.	Rubrik is an integrated solution with backup sw and storage tightly integrated. It provides a secure data management platform and does not allow any 3rd part apps to be installed/integrated for backup and recovery	Please be guided by RFP
218	28	69	The proposed backup solution should not be binding with any specific hardware OEM. It must support other OEMs backup appliances as well.	1. We recommend to change the word Purpose Built Backup Solution to "Purpose Built Backup Appliance" as the Backup software will always be specific and limited to the Backup software publisher.	Please be guided by RFP
219	43	70	The proposed backup solution must support automatic detection and backup of the applications in kubernetes clusters.	Request Bank to kindly elaborate the kubernetes platform support as there are different versions available with OEMs. This will provide flexibility to Bank of using the backup tools for neutral kubernetes platform. Kindly re-phrase as "The proposed backup solution must support protection of K8s (1.19 to 1.22), OpenShift (4.7, 4.8, 4.9), Tanzu Kubernetes (1.11, 1.12, 1.13), AWS EKS, AKS, GKE environments"	**Clarification:** It should not be restrictive with particular version of any OEM kubernetes platform. Whenever there is any new release, backup OEM will also release upgrade of backup solution to support that version.
220	41	70	a. Daily incremental backup – retained for 4 weeks in PBBA.	PBBA is not available across all leading OEM who have Backup Solutions hence request to amend the clause Request to amend the clause as. "a. Daily incremental backup – retained for 4 weeks in Backup Target."	Please be guided by RFP
221	41	70	Proposed disk-based backup solution should be sized appropriately for backup of front-end data 1PB (30% VM DB type and 70% VM File System type) data as per below mentioned backup policies. a. Daily incremental backup - retained for 4 weeks in PBBA.	1. Should Monthly and Yearly backup be retained in Backup Appliance or on Tapes?	**Clarification:** Any backup copy will be retained on both disk based appliance as well as on Tapes for the specified period for which policy is defined for a particaular backup job.
222	III) Backup Solution Specifications 41	70	a. Daily incremental backup – retained for 4 weeks in PBBA.	PBBA is not available across all leading OEM who have Backup Solutions hence request to amend the clause Request to amend the clause as. "a. Daily incremental backup – retained for 4 weeks in Backup Target."	Please be guided by RFP

Sl. No.	Clause no.	Page no.	Clause	Query	Bank Response
223	45	70	The proposed backup solution must support backup and recovery of applications hosted on public cloud such as Azure, AWS, Oracle Cloud, Google Cloud without any additional licenses.	The proposed backup software should be capacity / socket based licenses , the licenses required for 3rd party CSPs are generally instance based licenses. Hence we would request Bank to advice us number or count of EC2 instances Bank would be deploying on 3rd party CSPs in near future. Does Bank wants bidder to supply separately , the cloud instance licenses in this RFQ procurement ? if yes , kindly share the instance cout to be factored in the commercial bid . Please advice.	Please be guided by RFP
224	43	70	The proposed backup solution must support automatic detection and backup of the applications in kubernetes clusters.	does Bank has any Kubernetes footprint ? if yes , please share deployed Kubernetes environment deployed if any ? 1. Kubernetes Distros - Tanzu , RedHAT open Shift , Rancher ? 2. Applications ? DB ? 3. Primary Storage ? 4. Object Storage ? 5. Number of Nodes / Servers count deployed? we would requrst Bank to share the number of nodes will be deployed for Kubernetes backup and restore enviorinment? Does bidder needs to provision or supply Kubernetes Backup and restore licenses separately along with this RFQ procurement please advice.	**Clarification:** Bank is not having any footprint of Kuberbetes at present. Bank is in process of adoption of Kubernetes platform. So proposed backup solution must have the capability to take the backup on kubernetes (Pods/Containers/Namespaces) platform.
225	41	70	Proposed disk-based backup solution should be sized appropriately for backup of front-end data 1PB	Along with requested backend storage of 1PB also share size of the source backup workload.	**Clarification:** Bidder will supply licesnes to take front end unique data upto 1PB
226	41	70	Proposed disk-based backup solution should be sized appropriately for backup of front-end data 1PB (30% VM DB type and 70% VM File System type) data as per below mentioned backup policies.	1. Should Monthly and Yearly backup be retained in Backup Appliance or on Tapes? 2. What is the Annual Growth rate to be anticipated for 1PB of Front End data?	**Clarification:** Any backup copy will be retained on both appliance as well as on Tapes. Annual growth of data will be approximaltey 20% per annum.
227	vii)	79	Digital Workspace Solution Specifications	Kindly confirm that UBI will provide the necessary Guest OS (Win7/8/10/11../Linux) licenses for Digital Workspace (VDI).	**Clarification:** Bidder need not to deliver any guest OS for Digital Workspace.

Sl. No.	Clause no.	Page no.	Clause	Query	Bank Response
228	Clause 2 of Digital Workspace	79	Linux (RHEL, Ubuntu, CentOS) and Microsoft Windows Server (Windows Server 2012/2016/2019, Windows10/8/7) based personal virtual Desktop	How many number of Virtual machines would be linux based ? How many Virtual Machines would be windows based ? For End User Access	**Clarification:** No such numbers are fixed. It is based on requirement of users
229	Clause 3 of Digital Workspace	79	Linux (RHEL, Ubuntu, CentOS) and Microsoft Windows Server (Windows Server 2012/2016/2019, Windows 10) based virtual Application	How many number of Virtual machines would be linux based ? How many Virtual Machines would be windows based ? For End User Access	**Clarification:** No such numbers are fixed. It is based on requirement of users
230	Annexure E (vii)	79	The proposed Digital Workspace solution shall be scalable up to 200000 device connections.	Request bank to share the phase in which no. of devices are supposed to be configured	Line item 1 of Table vii (Digital Workspace Solution Specifications) of Annexure E is Revised as: The proposed Digital Workspace solution shall be scalable up to 50000 device connections.
231	Annexure E (vii)	79	The Solution should provide capability to deliver different versions of the application without any conflict with underlying operating system in single user's Virtual Desktop session.	As application packing is an evolving feature, really not sure how this is be achieved. Request bank to clarify on the same.	Line item 22 of Table vii (Digital Workspace Solution Specifications) of Annexure E is Revised as: The Solution should provide capability to deliver the applications without any conflict with underlying operating system in single user's Virtual Desktop session.
232	Annexure E (vii)	79	In the use case of developer and R&D, users should have flexibility to install applications on his own and Application Management software should provide capability to capture and deliver the user installed application, data and profile irrespective of the any desktop user's login	As application packing is an evolving feature, really not sure how this is be achieved. Request bank to clarify on the same.	Line item 23 of Table vii (Digital Workspace Solution Specifications) of Annexure E is Revised as: In the use case of developer and R&D, users should have flexibility to install applications on his own, data and profile irrespective of the any desktop user's login
233	vii) Digital Workspace Solution Specifications	79	Serial Number - 2, 3, 4: Microsoft Windows Server (Windows Server 2012/2016/2019, Windows10/8/7) based personal virtual Desktop.	Do you have Support from Microsoft for Windows Server 2012 and Windows 7 and 8 Operating Systems? Can you please share the count of the existing Windows Server 2012 and Windows 7 and 8 Operating System Inventory?	Please be guided by RFP
234	Annexure E (vii)	79	The proposed digital workspace solution should have feature for self-service for user for session management.	Request bank to delete this clause as this is vendor specific	Line item 21 of Table vii (Digital Workspace Solution Specifications) of Annexure E is Revised as:The proposed digital workspace solution should have feature for session management by admin user.

Sl. No.	Clause no.	Page no.	Clause	Query	Bank Response
235	Annexure E (vii)	79	The proposed digital workspace solution should have feature to support for eToken for digital certificate signing on windows or linux based virtual apps and desktops	Request bank to delete this clause as this is vendor specific and limited to certain environments	Line item 29 of Table vii (Digital Workspace Solution Specifications) of Annexure E is Revised as: The proposed digital workspace solution should have feature to support for eToken for digital certificate signing on windows or linux based desktops
236	Annexure E (vii)	79	The proposed digital workspace solution should support for seamless USB peripheral redirection for virtual desktops and virtual apps running on personal virtual desktops with windows 10 or Linux.	Request bank to delete this clause as this is vendor specific and limited to certain environments	Please be guided by RFP
237	Annexure E (vii)	79	The Desktop virtualization remote protocol should automatically choose UDP/TCP based on Bandwidth, Packet Loss, Delay and Jitter to maintains a great user experience across a wide variety of network types, ranging from corporate LAN to public Wi-Fi and mobile networks.	Request bank to delete this clause as this is vendor specific	Line item 31 of Table vii (Digital Workspace Solution Specifications) of Annexure E stands deleted
238	Annexure E (vii)	79	The proposed digital workspace solution has the feature of time-based access to app and resources with alert to admin for expiring the session.	Request bank to delete this clause as this is vendor specific	Please be guided by RFP
239	Annexure E (vii)	79	The digital workspace solution should be FIPS and Common Criteria Certified	Request bank to delete this clause as this is vendor specific	Line item 38 of Table vii (Digital Workspace Solution Specifications) of Annexure E stands deleted
240	Annexure E (vii)	79	The solution enhanced employee productivity and increased employee satisfaction by facilitating smart working	Request bank to delete this clause as this is vendor specific	Please be guided by RFP
241	Annexure E (vii)	79	The solution provides information about the activities performed by the employee in stealth mode.	Request bank to delete this clause as this is vendor specific	Please be guided by RFP
242	Annexure E (vii)	79	The solution will calculate the productivity of the employee based upon the time spent on the labeled the applications as WORK, Non-WORK or Neutral to gain insights of the employee productivity at global level.	It is very dificult to track if user is on phone while he is working on VDI. Hence will not be able to distinguish betweek work / non work related call. Hence request bank to remove this clause	Please be guided by RFP

Sl. No.	Clause no.	Page no.	Clause	Query	Bank Response
243	Annexure E (vii)	79	The solution automatically builds a dashboard or reports for global level employee productivity reports, where employee spending more time, which teams are performing well, which teams need to improve productivity.	Request bank to delete this clause as this is vendor specific	Please be guided by RFP
244	Annexure E (vii)	79	The solution monitor employee's time when they are using Video conferencing and other communication tools and record that time as work related.	Request bank to delete this clause as this is vendor specific	Please be guided by RFP
245	Annexure E (vii)	79	The proposed digital workspace solution must have the capability to deliver enterprise application catalog though SSO access from any device.	Request bank to delete this clause as SSO is always a hassle to maintain outside MS OS environment	Please be guided by RFP
246	Annexure E (vii)	79	The proposed solution should have the capability to notify employees when their screen is visible and enable them to pause a remote session for enhanced privacy	Request bank to delete this clause as this is vendor specific	Please be guided by RFP
247	Annexure E (vii)	79	IT can define File Vault settings to enable devices to be encrypted	Request bank to delete this clause as this is vendor specific	Line item 77 of Table vii (Digital Workspace Solution Specifications) of Annexure E stands deleted
248	Annexure E (vii)	79	The proposed solution should Support App level DLP policy	Not all DLP policy can work on app level. Hence request the bank to enable this at session/user level	Line item 79 of Table vii (Digital Workspace Solution Specifications) of Annexure E revised as: The proposed solution should Support session/user level DLP policy
249	Annexure E (vii)	79	The Proposed solution should be able to manage Chrome devices from Single Unified Management plane	Request bank to delete this clause as this is vendor specific	Line item 82 of Table vii (Digital Workspace Solution Specifications) of Annexure E stands deleted
250	Annexure E (vii)	79	Enable users with access to any app even Windows apps in a single catalogue	Request bank to provide more details on this	Please be guided by RFP
251	Annexure E (vii)	79	The Solution should have ability to deep insights into the entire digital workspace environment and automation capabilities, Digital Workspace can help raise the level of security hygiene across the organization. Quickly identify out-of-compliance devices, apply the latest security patches, and automate access control policies based on user behavior.	Request bank to delete this clause as this is vendor specific	Line item 87 of Table vii (Digital Workspace Solution Specifications) of Annexure E stands deleted

Sl. No.	Clause no.	Page no.	Clause	Query	Bank Response
252	Annexure E (vii)	79	The proposed solution should be intelligence-driven with automation capabilities that help IT manage the entire digital workspace more efficiently by creating rules that take actions based on a rich set of parameters. Easily automate the deployment of applications, OS patches, and software updates, and create rules to quickly bring apps back to a stable state if they don't perform as expected.	Request bank to delete this clause as this is vendor specific	Line item 88 of Table vii (Digital Workspace Solution Specifications) of Annexure E stands deleted
253	Annexure E (vii)	79	The proposed solution must enable administrators to remotely monitor and manage all devices connected to enterprise. Administrators can manage devices across geographies, business units, or other segmentations in a single console, and then define, delegate, and manage with role-based access controls.	Request bank to delete this clause as this is vendor specific	Line item 89 of Table vii (Digital Workspace Solution Specifications) of Annexure E is revised as: The proposed solution must enable administrators to remotely monitor and manage all devices connected to proposed solution.
254	Clause 34 of Digital Workspace	81	The proposed digital workspace solution should have Workspace client for iOS & android to access virtual desktops and virtual apps.	Kindly help with the bifurcation of users for IOS, Windows & Android	**Clarification:** No such numbers are fixed. It is based on requirement of users
255	vii) Digital Workspace Solution Specifications	81	The proposed digital workspace solution should have Workspace client for iOS & android to access virtual desktops and virtual apps	How many Mobile Users are there to have this provision?	Please be guided by RFP
256	vii) Digital Workspace Solution Specifications	82	The solution should help to accelerate Bring your own laptop (BYOL) with Virtual desktop access with facial biometrics authentication.	Is it mandatory to have facial biometrics authentication or it is optional?	**Clarifiation:** Facial biometric authentication is mandaroty.
257	vii) Digital Workspace Solution Specifications	83	S.NO: 65, 66, 67, 68, 69, 70: The solution will register attendance based on login, log off time automatically. Also mark absence if no activity detected.	Can we propose a separate software for this feature? Please suggest whether UBI is having any recommendation or any existing software details?	**Clarification:** Bank is seeking this funcationality in the suuplied Digital Workspace solution.
258	Integrity Pact	95	Integrity Pact mentioned CEO in the second paragraph.	In our view authority should be given to POA / LOA holder to execute the Integrity Pact.	Please mention the Name of the authorised person as per POA/LOA along with designation

Sl. No.	Clause no.	Page no.	Clause	Query	Bank Response
259	64	96	M/s_____ represented by_____ Chief Executive Officer, (which term, unless expressly indicated by the contract, shall be deemed to include its successors and its assignee), hereinafter referred to as the bidder/seller and the second party, is willing to offer/has offered the Stores and / or Services.	Request you to replace "Chief Executive Officer" with "Authorized Signatory" who will be auithorized to sign the bid by Board Resolution or Power of Attorney.	The line to be read as" M/s_____ represented by Mr/Ms_____ ,(Designation) Authorised Signatory, (which term, unless expressly indicated by the contract, shall be deemed to include its successors and its assignee), hereinafter referred to as the bidder/seller and the second party, is willing to offer/has offered the Stores and / or Services.
260	10	100	Price Fall Clause	Price for a product depends on many factors like volume, payment terms etc. It would be difficult to assure that same price will be honoured to all clients	Please be guided by RFP.
261	10	100	The Bidder undertakes that it has not supplied /is not supplying same or 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 Coal India Ltd and its subsidiaries during the currency of the contract and if it is found at any stage that same or similar product /Systems or Subsystems was supplied by the Bidder to any other Ministry /Department of the Government of India or a PSU or any Public Sector Bank at a lower price during the currency of the contract, then that very price 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".	Will not be able to confirm on this point as we don't have control on these prices. This point is to be confimred by respective OEM's	Please be guided by RFP.

Sl. No.	Clause no.	Page no.	Clause	Query	Bank Response
262	10	100	"*Price Fall Clause* *The Bidder undertakes that it has not supplied /is not supplying same or 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 Coal India Ltd and its subsidiaries during the currency of the contract and if it is found at any stage that same or similar product /Systems or Subsystems was supplied by the Bidder to any other Ministry /Department of the Government of India or a PSU or any Public Sector Bank at a lower price during the currency of the contract, then that very price 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.* "	We respectfully request for the deletion of this clause as it is inherently anti-competitive in nature. ~~"Price Fall Clause~~ ~~The Bidder undertakes that it has not supplied /is not supplying same or 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 Coal India Ltd and its subsidiaries during the currency of the contract and if it is found at any stage that same or similar product /Systems or Subsystems was supplied by the Bidder to any other Ministry /Department of the Government of India or a PSU or any Public Sector Bank at a lower price during the currency of the contract, then that very price 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."~~	Please be guided by RFP.
263			Others	Kindly confirm i) ITSM / Service desk tools till be provoded by UBI ii) Any additional hardware and software license required for NXV to NXT migration will be provided by UBI.	**Clarification:** No additional hardware is required for migration from NSX-V to NSX-T where if any software is required then same will be provided by biider. No ITSM/Service Desk Tools are required.
264			Additional points to ensure Bank has the right protection architecture and capability for protecting the Kubernetes environment	The proposed backup solution must protect stateless as well as stateful containers running MySQL,MongoDB etc applications without the use of any custom scripts.	**Clarification:** As kubernetes are new technology and Bank will use the same, so backup solution must have the capability to protect such workload. Backup OEM can place the protecting method as per their flexibility. It is not restrictive by Bank.
265			Additional points to ensure Bank has the right protection architecture and capability for protecting the Kubernetes environment	The proposed backup solution must protect Kubernetes resources at namespace, labels, pods, Persistent Volumes and associated meta data such as Pods, Secrets, Services, Deployments, Certificates and Config Maps for consistent protection and recovery	Please be guided by RFP

Sl. No.	Clause no.	Page no.	Clause	Query	Bank Response
266			The proposed system should provide the features such as capacity usage, trends, activity evaluation and perform corrective actions on the directories and files.	The Storage required for Block Storage, however there is mention of Activity, Evaluation and Corrective actions on directoroies and Files, This is not a functionality of SAN. Request the bank to ammend the clause as : "The Proposed Storage array should provide features such as Capacity usage, Trends, Reporting for the Block Storage"	Line item 17 of Table II (Flash storage) of Annexure E is revised as: The proposed system should provide the features such as capacity usage, trends, Reporting for the Block Storage, activity evaluation and suggest/perform corrective actions.
267			Requirement specific to one OEM.	Our HCI OEM are pioneers of Hyper Converged Technology and a leading Enterprise Cloud Software Solution Provider. They have innumerable installation base in Banking, running mission Critical Workloads in ICICI (800+ HCI nodes), Axis bank (250+ nodes), HDFC, NSE (200+ HCI nodes) , RBL (80+ HCI nodes), Kotak and many other banks including Union bank of India (58 HCI nodes) We understand that UBI would like to have almost about 120 HCI nodes in a span of 2-year Rate Contract. This is quite large Cloud Infrastructure requirement in comparison to your incumbent cloud infrastructure in your current environment which is hardly 25-40 HCI nodes. With this in mind, it is ideal that UBI must inevitably look at leading solutions in Enterprise Cloud Infrastructure rather than going ahead with SINGULAR NAMED RFP of one specific vendor. We request you to kindly evaluate a neutral and competing Cloud Solution in order to fulfill your requirement.	**Clarification:** This is an expansion RFP of Bank's exisiting Private Cloud Infra which is built on VMware software. Accoringly, VMware software is ask of this RFP.
268	Request for addition			In RFP, Payment terms are not mentioned, request you to please specify the payment terms. Also request you to please make it as below : 1. 90% on delivery of material on pro-rata basis. 2. Balance 10% after complete Installation, testing and commissioning.	Please be guided by RFP
269	Payment Terms		General Queries	Please advise on the payment terms for HW i.e. 3 yrs warranty period and also for subsequent AMC for 2 yrs. Also payment terms of SW for 1 year and 4 yrs subsequent ATS	Please be guided by RFP

Sl. No.	Clause no.	Page no.	Clause	Query	Bank Response
270	Indicative Commercial Format		General Queries	Please suggest on indicative commercial format	**Calrification:** It is RFQ. Indicative Comercial Format will be shared with shortlisted bidder separately.
271			Additional Query	What will be the payment terms for this RFP	Payment terms will be shared with bidders who are all shortlisted to the bid stage.
272	Table of Clause 7	12	Aditional Point included as serial number 15 of Table of RFP Clause 7	Aditional Point included as serial number 15 of Table of RFP Clause 7	Bidder will provide 500 RDS-CAL Licenses for Digital workspace solution. Bank will purchase same in future along with digital workspace licenses. Cost will be calculated on pro rata basis. (Quantity 500 RDS-CAL Licenses)