## उत्तर बिहार ग्रामीण बैंक

प्रधान कार्यालय, कलमबागचौक मुजफ्फरपुर,,बिहार, 842001



UTTAR BIHAR GRAMIN BANK

HEAD OFFICE, KALAMBAGH CHOWK MUZAFFARPUR, BIHAR, 842 001

(Sponsored By: Central Bank of India)

Website: www.ubgb.in

Letter No. HO/IT/14/2021-22/205

Date: 31-08-2021

## **Pre-Bid Queries Response and Corrigendum**

## Tender Reference No. HO/IT/14/2021-22/179 dated 11-08-2021

Summary of pre-bid queries of various vendors along with bank response and corrigendum are as under:

Sl. No.	Page no.	Poin t/Sec tion	Clarification Point as stated in the Tender Doc.	Comment/ Suggestion/ Deviation	Bank Response	Corrigen dum /(Respon se/Clarifi cation)
12	21	4. Proje ct Time lines	Supply and delivery of Storage and associated software Licenses, SAN Switches, Ethernet Switches, including Structured Cabling components, and its related software licenses at DC and DRC, as per Appendix 1- Bill of Material Within 6-8 weeks of date of acceptance of the Purchase Order (PO) by the successful Bidder	Considering current COVID Pandemic situation and Shortage of Chips availability globally, may lead to a delay. We request bank to Provide at least 12 Weeks from PO date for the delivery of material without any LD and extend the project schedule accordingly.	The revised clause should be read as "Supply and delivery of Storage and associated software Licenses, SAN Switches, Ethernet Switches, including Structured Cabling components, and its related software licenses at DC and DRC, as per Appendix 1- Bill of MaterialWithin 8- 10 weeks of date of acceptance of the Purchase Order (PO) by the successful Bidder"	Corrigend um
43	Appen dix 2 Minim um Techni cal Specifi cations v4	48 port 1/10 G Base T switc h, 4.2	Switch should support VXLAN (RFC7348) and EVPN symmetric IRB (RFC 7432) for supporting Spine - Leaf architecture to optimise the east - west traffic flow inside the data centre	For required solution RFC 7432 supports both Symmentric as well as asymmetric IRB. Request you to more only symmetric IRB. Or include both Symmetric and Asymmetric IRB.	The Line item stands deleted	Corrigend um
45	Appen dix 2 Minim um Techni cal Specifi cations v4	48 port 1/10 G Base T switc h, 6.2	Switch should support segment routing and VRF route leaking functionality from day 1	Segment routing is used in ISP P/PE routers. Not required for enterprise DC Leaf switches. Kindly remove Segment routing,	The Line item stands deleted	Corrigend um
46	Appen dix 2 Minim um Techni cal Specifi cations v4	48 port 1/10 G Base T switc h, 6.3	Switch should support Segment Routing and Layer3 VPN over Segment Routing	Segment routing is used in ISP P/PE routers. Not required for enterprise DC Leaf switches. Kindly remove Segment routing,	The Line item stands deleted	Corrigend um

49	Appen dix 2 Minim um Techni cal Specifi cations v4	48 port 1/10 /25G Fiber switc h, 4.2	Switch should support VXLAN (RFC7348) and EVPN symmetric IRB (RFC 7432) for supporting Spine - Leaf architecture to optimise the east - west traffic flow inside the data center	For required solution RFC 7432 supports both Symmetric as well as asymmetric IRB. Request you to more only symmetric IRB. Or include both Symmetric and Asymmetric IRB.	The Line item stands deleted	Corrigend um
51	Appen dix 2 Minim um Techni cal Specifi cations v4	48 port 1/10 /25G Fiber switc h, 6.2	Switch should support segment routing and VRF route leaking functionality from day 1	Segment routing is used in ISP P/PE routers. Not required for enterprise DC Leaf switches. Kindly remove Segment routing,	The Line item stands deleted	Corrigend um
52	Appen dix 2 Minim um Techni cal Specifi cations v4	48 port 1/10 /25G Fiber switc h, 6.3	Switch should support Segment Routing and Layer3 VPN over Segment Routing	Segment routung is used in ISP P/PE routers. Not required for enterpise DC Leaf switches. Kindly remove Segment routing,	The Line item stands deleted	Corrigend um
61	Appen dix 2 Minim um Techni cal Specifi cations v4 , Storag e-DC- DRC	Repli catio n ,20	RFP Clause: The proposed storage must support Synchronous and Asynchronous replication across sites / storages for FC data on the storage. The proposed solution should support zero data loss feature with functionality to provide delta resync capability from surviving site in case of disaster. Storage is required to be configured with required redundant IP ports / FC ports / FCIP routers for the replication. The proposed storage must reduce OPEX costs and have an native / external option to preserve bandwidth by compressing the data being replicated to the DR site.	Change Requested: We request to remove "The proposed storage must reduce OPEX costs and have an native / external option to preserve bandwidth by compressing the data being replicated to the DR site." from the clause Justification: Storage based Replication software does not have the functionality of preserving Bandwidth by compressing the data being replicated. Moreover, Asynchronous replication using Oracle Native replication between DC and DR is planned and hence request to remove the last line from the specification.	The text stands deleted "The proposed storage must reduce OPEX costs and have an native / external option to preserve bandwidth by compressing the data being replicated to the DR site."	Corrigend um

63	Appen dix 2 Minim um Techni cal Specifi cations v4 , Storag e-DC- DRC	Feat ures requ ired ,30	RFP Clause: The storage management software must provide multiple levels of access control including role- based security, provision to send alerts via email (mandatory) / SMS(preferred). The proposed storage solution must support Multi Factor / Two Factor Authentication for Administrative web & Administrative CLI Access . The proposed system is required to have the capability to protect against brute-force attacks. All these features is required to be clearly explained in the proposal.	Change Requested: We request to remove" The proposed storage solution must support Multi Factor / Two Factor Authentication for Administrative web & Administrative CLI Access" from the Clause. Justification: This is vendor specific clause and we provide ROLE based authentication.	The revised clause should be read as "The access to the proposed storage should be role based authentication"	Corrigend um
75	11		Earnest Monet Deposit	Please confirm EMD amount if any.	EMD to be submitted by the participating bidders for the amount of INR 36,00,000/-	Corrigend um
101	73	Appe ndix 2 Leaf- 48Po rt1& 10G Copp er	6.4 Support Multicast Source Discovery Protocol (MSDP) (RFC 3618)	MSDP is the legacy protocol and its features are offered through latest version of PIM-SM and PIM-SSM, hence we request you to rephrase the point as "Support Multicast Source Discovery Protocol (MSDP) (RFC 3618) or PIM-SM and PIM- SSM"	The revised line item should be read as "Support Multicast Source Discovery Protocol (MSDP) (RFC 3618) or PIM-SM and PIM-SSM"	Corrigend um
102	73	Appe ndix 2 Leaf- 48Po rt1& 10G Copp er	8.4 Switch platform should support MAC Sec (802.1AE) encryption in hardware	MAC Sec is a resource intensive feature deployed on the WAN/MetroLAN network to secure traffic and is not a necessary requirement for data center switches. Hence considering this data center LAN switch requirement, we request you to rephrase this point to "Switch platform should support IEEE standard 802.1ae/802.1x i.e. WAN Sec or PEAP encryption in hardware"	The revised line item should be read as "Switch platform should support MAC Sec (802.1AE) / 802.1x i.e. WAN Sec or PEAP encryption in hardware"	Corrigend um
103	73	Appe ndix 2 Leaf- 48Po rt10 &25G Fiber	6.4 Support Multicast Source Discovery Protocol (MSDP) (RFC 3618	MSDP is the legacy protocol and its features are offered through latest version of PIM-SM and PIM-SSM, hence we request you to rephrase the point as "Support Multicast Source Discovery Protocol (MSDP) (RFC	The revised line item should be read as "Support Multicast Source Discovery Protocol (MSDP) (RFC 3618) or PIM-SM and PIM-SSM"	Corrigend um

				3618) or PIM-SM and PIM- SSM"		
104	73	Appe ndix 2 Leaf- 48Po rt10 &25G Fiber	8.4 Switch platform should support MAC Sec (802.1AE) encryption in hardware	MAC Sec is a resource intensive feature deployed on the WAN/MetroLAN network to secure traffic and is not a necessary requirement for data center switches. Hence considering this data center LAN switch requirement, we request you to rephrase this point to "Switch platform should support IEEE standard 802.1ae/802.1x i.e. WAN Sec or PEAP encryption in hardware"	The revised line item should be read as "Switch platform should support MAC Sec (802.1AE) / 802.1x i.e. WAN Sec or PEAP encryption in hardware"	Corrigend um
129	Appen dix 2		27. The proposed storage must provide multiple snapshots & full copy clones with minimal impact to source. Snapshots & full copy clones to be taken without affecting the storage performance.	Can you please rephrase this point to, "The proposed storage must provide multiple snapshots & full copy clones or Thin Clones with minimal impact to source. Snapshots & full copy clones or Thin Clones to be taken without affecting the storage performance."	The revised clause should be read as "The proposed storage must provide multiple snapshots & full copy clones or equivalent with minimal impact to source. Snapshots & full copy clones or Thin Clones to be taken without affecting the storage performance."	Corrigend um
155	Appen dix 2	Stora ge- DC- DRC	21. The proposed storage is required to be compatible with major hypervisors like VMware, RHEV, AHV and Hyper-V etc. and upgrades.	Can you please rephrase this point to by removing AHV from it. Because as per following KB article from Nutanix, it is not recommended to connect external storage to Nutanix system/AHV. https://portal.nutanix.com /page/documents/kbs/det ails?targetId=kA00e00000 0CtelCAC "The proposed storage is required to be compatible with major hypervisors like VMware, RHEV and Hyper-V etc. and upgrades."	The proposed storage is required to be compatible with major hypervisors like VMware, RHEV, and Hyper-V etc. and upgrades.	Corrigend um
186		Appe ndix 2 Leaf- 24 Port 1&10 G Copp er	Annexture 2: 3.6 Minimumm Technical Specificaitons for Leaf-24 Port 1G &10G Copper		The 24 Port Ethernet Switch is out of scope of the bidder; and Bidder is not required to quote the Leaf-24 Port 1&10G Copper Switch	Corrigend um

1	48	5.69 Liqui dated Dam ages	Bank may at its option demand and recover from the Successful Bidder(s) an amount equivalent to 1(one) percent of the undelivered portion of contract value for every week of delay or part thereof, subject to a maximum of 10% of the total purchase order value. Once the maximum is reached, the Bank may consider termination of the contract. If the Service Provider fails to deliver any or all of the Goods or perform the Services within the time period(s) specified in the RFP/Contract or contract duration, the Bank shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to 0.50% of the total purchase order value until actual delivery or performance, per week or part thereof (5 days will be treated as a week); and the maximum deduction is 10% of the total purchase order value. Once the maximum is reached, the Bank may consider termination of the contract, invoke of bank guarantee or any other rights as deem fit.	LD is mentioned as 1% per Week & 0.5% per week as well. Which one is to be considered. Request Bank to consider the LD as 0.5% of the cost of non delivered items per weeks and Maximum upto 5% of the contract value as per industry standered.	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion	
2	49	5.72 Penal ty Claus e	Delay in hardware and related system software Penalty will be charged 1% of hardware cost per week or part thereof for delay in delivery and installation of hardware beyond the timeline mentioned as part of Project Timelines subject to a maximum cap of 10% of the project cost.	Request Bank to consider the Penalty as 0.5% of the cost of non delivered items per weeks and Maximum upto 5% of the contract value as per industry standard.	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion	

3	62	7.4.1 REVE RSE AUCT ION	If a Bidder quoting higher prices, higher by more than 20% as compared to the average quoted prices (of all technically qualified bidders) for all items in aggregate, the same Bidder may not be called for reverse auction process. If due to such price variation factor, a Bidder is not found eligible to be called for revere auction and only one bidder is left commercially eligible, in such situation, Bank reserves the right to award contract to the L1 Bidder.	Request Bank to remove this clause or Increase the variation to the average cost as minimum 50%.	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion
4	64	8. Paym ent Term s	Hardware Cost (Storage/LAN & SANS Switches / Structured Cabling, etc.) part of Appendix 1- Bill of Material 70% Delivery of Hardware 30% Installation & Commissioning of Hardware	Implementation Payment Terms not Specified, Hope the percentage calculated on total 3 year cost as per Appendix 1- Bill of Material including Hardware Cost , Implementation cost & Structured cabling cost ( No AMC Applicable )as well. Request Bank to consider the payment terms as " Hardware/Software Cost (Storage/LAN & SANS Switches / Structured Cabling, etc.) part of Appendix 1- Bill of Material 80% Delivery of Hardware 20% Installation & Commissioning of Hardware"	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion
5	64	8. Paym ent Term s	3. Payment will be made by Central Bank of India Sponsored RRBs (UBGB & UBKGB) in ratio 90:10 i.e 90% by UBGB & 10% by UBKGB 4. Invoices will be raised separately to both the RRBs in the ratio mentioned above.	Request Bank to release the payment centrally by the tender release authority. Since separation of all components in 90:10 ratio as mentioned in the RFP will be a challenge to the bidder.	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion

6	76	11.2 Anne xure 2: Cove r TO	3. We agree to abide by this Scope Offer for 210 days from date of Scope (Commercial Bid) opening and our Offer shall remain binding on us and may be accepted by the Bank any time before expiry of the offer.	This clause is contradicting from offer validity of 180 days from opening of the technical offer. Request Bank to consider the scope offer as maximum 90 days from the date of Scope (Commercial Bid) opening.	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion
7	32	5.31 Indm enity	The Bidder shall indemnify the Bank, and shall always keep indemnified and hold the Bank, its employees, personnel, officers, directors, harmless from and against any and all losses, liabilities, claims, actions, costs and expenses (including attorney's fees) relating to, resulting directly or indirectly from or in any way arising out of any claim, suit or proceeding brought against the Bank as a result of:	We propose to modify: The Bidder shall indemnify the Bank, and shall always keep indemnified and hold the Bank, its employees, personnel, officers, directors, harmless from and against any and all losses, liabilities, claims, actions, costs and expenses (including attorney's fees) relating to, resulting directly from or in any way arising out of any claim, suit or proceeding brought against the Bank as a result of:	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion
8	33	5.31 Indm enity	Additionally, the Bidder shall indemnify, protect and save the Bank against all claims, losses, costs, damages, expenses, action, suits and other proceedings, a. that the Deliverables and Services delivered or provided under this Agreement infringe a patent, utility model, industrial design, copyright, trade secret, mask work or trademark in any country where the Deliverables and Services are used, sold or received; and/or b. resulting from infringement of any patent, trademarks, copyright setc. or such other statutory infringements under any laws including the Copyright Act,1957 or Information Technology Act, 2000 in respect of all the Hardware, Software	We propose to modify as the same is already mentioned in the above clause : Service Provider/Vendor shall indmenify Bank for infringement of any IPR, provided the Bank notifies the Vendor in writing as soon as practicable when the Bank becomes aware of the claim however,	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion

			and network equipment or other systems supplied by them to the Bank from whatsoever source, provided the Bank notifies the Vendor in writing as soon as practicable when the Bank becomes aware of the claim however,			
9	16	3. Detai led Scop e of Work	Storage should be configured on OEM rack along with Power strips (PDUs), Power cables, Network cables, Fiber cables and any other components required for successful implementation of the solution are to be supplied and commissioned by the successful Bidder.	Hope , the Rack and other accessories will be considered from the different OEM's as well. Please confirm.	42U Racks will be provided by the Bank, however Power strips (PDUs), Power cables, Network cables, Fiber cables and any other components required for successful implementation of the solution are to be supplied and commissioned by the successful Bidder.	Response /Clarificat ion
10	18	3. Detai led Scop e of Work	For in-scope hardware and associated software as mentioned in this RFP document and in Appendix 1 – Bill of Material, Bidder should not quote components going end-of-sale within 24 months of its date of delivery.	Request bank to consider the end of sale period as maximum 12 months from the date of delivery.	No Change (As per the Bank's policy the life of the new procured components should be for 7 Year from the date of delivery.)	Response /Clarificat ion
11	18	3. Detai led Scop e of Work	All in-scope hardware should be provided with 3 years of comprehensive on- site warranty which will start from the date of installation, commissioning and acceptance by Bank. All in-scope software should be provided with 1 years of comprehensive on- site warranty which will start from the date of installation, commissioning and acceptance by Bank. Post warranty period completion, Bidder should provide AMC for 2 years; and for	Request Bank to consider the warranty start date from the date of Installation & acceptance or from 90th day of delivery of hardware/software , which ever is earlier.	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion

			software 4 years. Bidder is required to co-ordinate with Bank's existing System Integrator for Facilities Management Services throughout the contract tenure.			
12	21	4. Proje ct Time lines	Supply and delivery of Storage and associated software Licenses, SAN Switches, Ethernet Switches, including Structured Cabling components, and its related software licenses at DC and DRC, as per Appendix 1- Bill of Material Within 6-8 weeks of date of acceptance of the Purchase Order (PO) by the successful Bidder	Considering current COVID Pandemic situation and Shortage of Chips availability globally, may lead to a delay. We request bank to Provide at least 12 Weeks from PO date for the delivery of material without any LD and extend the project schedule accordingly.	The revised clause should be read as "Supply and delivery of Storage and associated software Licenses, SAN Switches, Ethernet Switches, including Structured Cabling components, and its related software licenses at DC and DRC, as per Appendix 1- Bill of MaterialWithin 8- 10 weeks of date of acceptance of the Purchase Order (PO) by the successful Bidder"	Response /Clarificat ion
13	16	3. Detai led Scop e of Work 3.1	3. Detailed Scope of Work 3.1 as per RFP	Data Migration Involves within Site or Across site ?	Data migration is within the same site	Response /Clarificat ion
14	16	3. Detai led Scop e of Work 3.1	3. Detailed Scope of Work 3.1 as per RFP	How Many Servers will accessed Storage array?	Will be shared with the successful bidder	Response /Clarificat ion
15	16	3. Detai led Scop e of Work 3.1	3. Detailed Scope of Work 3.1 as per RFP	What Multipathing SW used ? No of MP Licenses Required	Will be shared with the successful bidder	Response /Clarificat ion
16	16	3. Detai led Scop e of Work 3.1	3. Detailed Scope of Work 3.1 as per RFP	How many Physical and Virtual Servers will accessed storage array?	Will be shared with the successful bidder	Response /Clarificat ion
17	16	3. Detai led Scop e of Work 3.1	3. Detailed Scope of Work 3.1 as per RFP	Hypervisor solution used in current environment	Will be shared with the successful bidder	Response /Clarificat ion

18	16	3. Detai led Scop e of Work 3.1	3. Detailed Scope of Work 3.1 as per RFP	Any Physical Servers or V2V Clustering used ?	Will be shared with the successful bidder	Response /Clarificat ion
19	16	3. Detai led Scop e of Work 3.1	3. Detailed Scope of Work 3.1 as per RFP	How many Storage pool configured in existing Environments	Will be shared with the successful bidder	Response /Clarificat ion
20	16	3. Detai led Scop e of Work 3.1	3. Detailed Scope of Work 3.1 as per RFP	What types of RAID level Configured	RAID 10 and RAID 5 is currently configured on existing Storage	Response /Clarificat ion
21	16	3. Detai led Scop e of Work 3.1	3. Detailed Scope of Work 3.1 as per RFP	What type of Disks used in current array	Will be shared with the successful bidder	Response /Clarificat ion
22	16	3. Detai led Scop e of Work 3.1	3. Detailed Scope of Work 3.1 as per RFP	How many Controllers are installed in Existing array	Will be shared with the successful bidder	Response /Clarificat ion
23	16	3. Detai led Scop e of Work 3.1	3. Detailed Scope of Work 3.1 as per RFP	Are End users stores their Data on storage array ? How ?	No, end users do not store their data on to the storage	Response /Clarificat ion
24	16	3. Detai led Scop e of Work 3.1	3. Detailed Scope of Work 3.1 as per RFP	for quick ticketing Call home or Dial home is configured for existing storage array	No, Not allowed as per the policy of Bank	Response /Clarificat ion
25	16	3. Detai led Scop e of Work 3.1	3. Detailed Scope of Work 3.1 as per RFP	Are CBI is OK to configure secure dial home or call home for quick ticking	No, Not allowed as per the policy of Bank	Response /Clarificat ion
26	16	3. Detai led Scop e of Work 3.1	3. Detailed Scope of Work 3.1 as per RFP	Shifting to others location involve data movement and Data Protection as well. This will be an additional scope to the bidder. The commercials for the same need to be mutually discussed and agreed for the same. Request Bank confirmation on this.	Bank's understanding; only Storage physical movement	Response /Clarificat ion

27	16	3. Detai led Scop e of Work 3.1 3.6 Instal latio	3. Detailed Scope of Work 3.1 as per RFP	Need Info on Bank existing SI and its skillset	Will be shared with the successful bidder	Response /Clarificat ion
28	20	n and Confi gurat ion point 9	9. Setup and operationalize 3-way DR for CBS and I- banking application	Need tentative plan and date for setting up Near Line DR ( NDR)	down the line, Bank may opt of NS; however in case if any regulatory requirement Bank may deploy NS any time	Response /Clarificat ion
29	20	3.6 Instal latio n and Confi gurat ion point 9	9. Setup and operationalize 3-way DR for CBS and I- banking application	How will Integrate and replicate CBS and I- banking applications	Near DR is out of scope as of now. However, bank may opt for Near DR in next 2 to 3 year	Response /Clarificat ion
30	20	3.6 Instal latio n and Confi gurat ion point 14	14. The Bank shall maintain a register at its site in which, the Bank's operator/ supervisor shall record each event of failure and/or malfunction of the equipment. The bidder's engineer shall enter the details of the action taken in such register. Additionally, every time a preventive or corrective maintenance is carried out, the bidder's engineer shall make, effect in duplicate, a field call report which shall be signed by him and thereafter countersigned by the Bank's official. The original of the field call report shall be handed over to the Bank's official.	Instead of Physical Register for break down and corrective action . Is it OK with email	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion
31	20	3.6 Instal latio n and Confi gurat ion point 16	Transfer to bank existing system Integrator throughout which includes a detailed overview on the implementation and configuration parameters and features and functionality of Bank's Systems.	Number of KT session bank are looking for ?	The number of KT session expected is one at each location i.e. one at DC and one at DRC, that too post successful implementation	Response /Clarificat ion

32	20	3.6 Instal latio n and Confi gurat ion point 16	Provide Knowledge Transfer to bank existing system Integrator throughout which includes a detailed overview on the implementation and configuration parameters and features and functionality of Bank's Systems.	Are training and KT should be conducted by OEM or SI	OEM / SI, who so ever does the implementation at DC and DRC must conduct the KT session	Response /Clarificat ion
33	20	3.6 Instal latio n and Confi gurat ion- DC& DR Repli catio n	<ol> <li>Asynchronous replication Oracle Native replication between DC and DR</li> <li>Vendor must provide additional hardware/software, if required, to meet the scope of work.</li> </ol>	What current RPO and RTO	RPO is 15 Minutes and RTO is 120 Minutes	Response /Clarificat ion
34	20	3.6 Instal latio n and Confi gurat ion- DC& DR Repli catio n	<ol> <li>Asynchronous replication Oracle Native replication between DC and DR</li> <li>Vendor must provide additional hardware/software, if required, to meet the scope of work.</li> </ol>	What Replication tools used currently ?	Asynchronous replication is done using Oracle Native replication between DC and DR - is not the responsibility of bidder	Response /Clarificat ion
35	20	3.6 Instal latio n and Confi gurat ion- DC& DR Repli catio n	<ol> <li>Asynchronous replication Oracle Native replication between DC and DR</li> <li>Vendor must provide additional hardware/software, if required, to meet the scope of work.</li> </ol>	What is Bandwidth Provioned between DC & DR For replication	Will be shared with the successful bidder	Response /Clarificat ion
36	20	3.6 Instal latio n and Confi gurat ion- DC& DR Repli catio n	1. Asynchronous replication Oracle Native replication between DC and DR 2. Vendor must provide additional hardware/software, if required, to meet the scope of work.	any Redundancy between DC & DR Replication link	Yes, there is network link level redundancy between DC and DRC	Response /Clarificat ion
37	20	3.6 Instal latio n and Confi gurat ion-	<ol> <li>Asynchronous replication Oracle Native replication between DC and DR</li> <li>Vendor must provide additional hardware/software, if</li> </ol>	How much daily delta changes in DC site ?	Will be shared with the successful bidder	Response /Clarificat ion

		DC& DR Repli catio n	required, to meet the scope of work.			
38	21	4 Proje ct Time lines	1. Supply and delivery of Storage and associated software Licenses, SAN Switches, Ethernet Switches, including Structured Cabling components, and its related software licenses at DC and DRC, as per Appendix 1- Bill of Material Within 6-8 weeks of date of acceptance of the Purchase Order (PO) by the successful Bidder 2. Installation, implementation and commissioning of Storage and associated software Licenses, SAN Switches, Ethernet Switches, including Structured Cabling components, and its related software licenses at DC and DRC, as per Appendix 1- Bill of Material Within 4 weeks of date of delivery 3. Data Migration Within 12 weeks of date of delivery	Request Bank to consider the schedule as " 1. Supply and delivery of Storage and associated software Licenses, SAN Switches, Ethernet Switches, including Structured Cabling components, and its related software licenses at DC and DRC, as per Appendix 1- Bill of MaterialWithin 12 weeks of date of acceptance of the Purchase Order (PO) by the successful Bidder 2.Installation, implementation and commissioning of Storage and associated software Licenses, SAN Switches, Ethernet Switches, including Structured Cabling components, and its related software licenses at DC and DRC, as per Appendix 1- Bill of MaterialWithin 4-6 weeks of date of delivery in DC and 6-8 Weeks at DR 3. Provisioning of Replication Link by CBI within 6 weeks from Date of Delivery 4. Testing and validating stability of Replication linkwithin 1 weeks from date of Provisioning Link 5. Data Migration	The revised clause shoould be read as 1 . Supply and delivery of Storage and associated software Licenses, SAN Switches, Ethernet Switches, including Structured Cabling components, and its related software licenses at DC and DRC, as per Appendix 1- Bill of Material Within 8-10 weeks of date of acceptance of the Purchase Order (PO) by the successful Bidder 2. Installation, implementation and commissioning of Storage and associated software Licenses, SAN Switches, Ethernet Switches, including Structured Cabling components, and its related software licenses at DC and DRC, as per Appendix 1- Bill of MaterialWithin 6 weeks of date of delivery 3. Data Migration Within 12 weeks of date of delivery	Response /Clarificat ion
39	16	3. Detai led Scop e of Work	Additional Query	Need existing Power connecters details used in CBI DC & DR Site .	Bidder is required to come up with socket requirement; however 16 Amp industrial socket is generally available	Response /Clarificat ion
40	Appen dix 1_Bill of Materi al-v5	Appe ndix 1_Bill of Mate rial- v5	The Bidder needs to provide facility management services as per the scope of the RFP	Do the bidder need to provide the onsite resource for the support. Request bank confirmation and updating the same details in the commercial format as well.	Onsite resource is not required, however for AMC/ATS related calls, calls should be closed as per service levels defined in the RFP	Response /Clarificat ion

41	Appen dix 2 Minim um Techni cal Specifi cations v4	48 port 1/10 G Base T switc h,3.4	Switch should support minimum 600 VRF instances with route leaking functionality	For Storage / server connectivity switch 100 VRFs are more than enough. Please reduce to 100 VRFs.	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion
42	Appen dix 2 Minim um Techni cal Specifi cations v4	48 port 1/10 G Base T switc h,3.5	The switch should support minimum of 250k IPv4 LPM routes	for required solution 200K is sufficient. please reduce to 200K IPv4 LPM routes	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion
43	Appen dix 2 Minim um Techni cal Specifi cations v4	48 port 1/10 G Base T switc h, 4.2	Switch should support VXLAN (RFC7348) and EVPN symmetric IRB (RFC 7432) for supporting Spine - Leaf architecture to optimise the east - west traffic flow inside the data center	For required solution RFC 7432 supports both Symmentric as well as asymmetric IRB. Request you to more only symmetric IRB. Or include both Symmetric and Asymmetric IRB.	The Line item stands deleted	Response /Clarificat ion
44	Appen dix 2 Minim um Techni cal Specifi cations v4	48 port 1/10 G Base T switc h, 5.11	The switch should support BGP EVPN (RFC 7432) Route Type 2, Type 4 and Route Type 5 for the overlay control plane	For proposed solution type 2, and 4 are sufficient. Type 5 is for Border leaf functionality which is not used here. Kindly remove type 5.	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion
45	Appen dix 2 Minim um Techni cal Specifi cations v4	48 port 1/10 G Base T switc h, 6.2	Switch should support segment routing and VRF route leaking functionality from day 1	Segment routing is used in ISP P/PE routers. Not required for enterprise DC Leaf switches. Kindly remove Segment routing,	The Line item stands deleted	Response /Clarificat ion
46	Appen dix 2 Minim um Techni cal Specifi cations v4	48 port 1/10 G Base T switc h, 6.3	Switch should support Segment Routing and Layer3 VPN over Segment Routing	Segment routing is used in ISP P/PE routers. Not required for enterprise DC Leaf switches. Kindly remove Segment routing,	The Line item stands deleted	Response /Clarificat ion
47	Appen dix 2 Minim um Techni cal Specifi cations v4	48 port 1/10 /25G Fiber switc h, 3.4	Switch should support minimum 800 VRF instances with route leaking functionality	For Storage / server connectivity switch 100 VRFs are more than enough. Please reduce to 100 VRFs.	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion

48	Appen dix 2 Minim um Techni cal Specifi cations v4	48 port 1/10 /25G Fiber switc h, 3.5	The switch should support minimum of 250k IPv4 LPM routes	for required solution 200K is sufficient. please reduce to 200K IPv4 LPM routes	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion
49	Appen dix 2 Minim um Techni cal Specifi cations v4	48 port 1/10 /25G Fiber switc h, 4.2	Switch should support VXLAN (RFC7348) and EVPN symmetric IRB (RFC 7432) for supporting Spine - Leaf architecture to optimise the east - west traffic flow inside the data center	For required solution RFC 7432 supports both Symmentric as well as asymmetric IRB. Request you to more only symmetric IRB. Or include both Symmetric and Asymmetric IRB.	The Line item stands deleted	Response /Clarificat ion
50	Appen dix 2 Minim um Techni cal Specifi cations v4	48 port 1/10 /25G Fiber switc h, 5.12	The switch should support BGP EVPN (RFC 7432) Route Type 2, Type 4 and Route Type 5 for the overlay control plane	For proposed solution type 2, and 4 are sufficient. Type 5 is for Border leaf functionality which is not used here. Kindly remove type 5.	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion
51	Appen dix 2 Minim um Techni cal Specifi cations v4	48 port 1/10 /25G Fiber switc h, 6.2	Switch should support segment routing and VRF route leaking functionality from day 1	Segment routing is used in ISP P/PE routers. Not required for enterprise DC Leaf switches. Kindly remove Segment routing,	The Line item stands deleted	Response /Clarificat ion
52	Appen dix 2 Minim um Techni cal Specifi cations v4	48 port 1/10 /25G Fiber switc h, 6.3	Switch should support Segment Routing and Layer3 VPN over Segment Routing	Segment routing is used in ISP P/PE routers. Not required for enterprise DC Leaf switches. Kindly remove Segment routing,	The Line item stands deleted	Response /Clarificat ion
53	Appen dix 2 Minim um Techni cal Specifi cations v4	Gene ral quer y	General query	Please consider adding Spine switch specs due to the fact hat in VXLAN design both leaf and Spine are required for EVPN VXLAN to work.	The existing Core / Spine switch at DC and DRC is Cisco Nexus make Switches; hence bidder is required to ensure that there should not be compatibility issue between Bank's existing switches and the switches quoted by the bidder	Response /Clarificat ion
54	Appen dix 2 Minim um Techni cal Specifi cations v4	Gene ral quer y	General query	Please also highlight the design CBI is using for this network as it is critical to understand for overall solution.	Will be shared with the successful bidder	Response /Clarificat ion

55	Appen dix 2 Minim um Techni cal Specifi cations v4, Storag e-DC- DRC	Arch itect ure, 4	RFP Clause: Storage must be configured with FC,SMB,iSCSI, NFS and FTP protocols. Storage must support QoS.	Changes Requested: Storage must be configured with FC & iSCSI protocols. Storage must support QoS. Justification: Since the requirement if for All Flash Enterprise Storage and SAN Switches is requested in the RFP, We believe the present requirement is for Block Access only and hence request to remove NAS - SMB, NFS, and FTP Protocol support. And requesting to have only the FC and ISCSI protocols to be included in the RFP Specs	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion
56	Appen dix 2 Minim um Techni cal Specifi cations v4, Storag e-DC- DRC	Cont rolle rs & Fron tend Port s, 6	RFP Clause: Storage is required to be proposed with minimum 2 controllers. Minimum 16 x 16 Gbps or 8 x 32 Gbps FC Front end ports; and minimum of 4 x 10GbE Ports. Front end ports is required to be evenly distributed across controllers.	Changes Requested: Storage is required to be proposed with minimum 4 controllers from Day 1. Minimum 16 x 16 Gbps or 16 x 32 Gbps FC Front end ports. Front end ports is required to be evenly distributed across controllers. The proposed AFA must be a single enterprise-class storage product with Common Backplane and not a storage solution with multiple silo/groups of dual-controller storage in a clustered configuration proposed to meet the performance and scalability requirement. Justification: A Multi Controller architecture with Active Active Symmetric access to single LUN from all controllers is needed from an Enterprise Storage Architecture. We recommend to have minimum 4 Controllers to be proposed from Day 1 and all the controllers shall be connected to a common back-plane and not use any loosely connected architecture like through SAN Switches, Ethernet Switches, InfiniBand switches etc. Since the storage is going to be FC SAN Storage and hence request to remove the 10GbE ports that are primarily required for NAS functionality.	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion

57	Appen dix 2 Minim um Techni cal Specifi cations v4, Storag e-DC- DRC	Cont rolle rs & Fron tend Port s, 7	RFP Clause: Active - Active controllers with automatic load balancing/workload placement across controllers.	Changes Requested: True symmetric active-active so that a single logical unit can be shared across all offered controllers in symmetrical fashion Justification: This is true enterprise Storage feature to have parallel access to a single lun from all the controllers without any external connectivity between storage controllers.	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion
58	Appen dix 2 Minim um Techni cal Specifi cations v4 , Storag e-DC- DRC	Driv es and RAID ,10	RFP Clause: Proposed storage capacity is required to be factored on the highest performance RAID protection, offered by the OEM on the proposed storage. The Storage should support and configurable RAID 10, RAID 5, RAID 6 /RAID DP protection.	Change Requested: Proposed storage capacity is required to be factored on the highest performance RAID protection, offered by the OEM on the proposed storage. The Storage should support and configurable RAID 6 /RAID DP protection. Justification: With Data being so critical having a Dual Parity Protection RAID 6 has become a defacto standard with AFA. Hence we request to remove RAID 10, RAID 5 that provides Single Drive Failure Protection and hence we do not support it.	The revised clause shoud be raad as "Proposed storage capacity is required to be factored on the highest performance RAID protection, offered by the OEM on the proposed storage. The Storage should support and configurable RAID 6 /RAID DP protection."	Response /Clarificat ion
59	Appen dix 2 Minim um Techni cal Specifi cations v4 , Storag e-DC- DRC	Hot Spar es ,15	RFP Clause: Necessary hot spares to be configured additional. The proposed storage is required to have minimum 2 hot spare of each type of drives configured	Change Requested: Necessary Global hot spares to be configured additional. The proposed storage is required to have minimum 2 hot spare or 2 hot spare equivilent capacity of each type of drives configured Justification: We provide distributed Sparing where each of the drive have spare chunklets. This help in faster re-built times as all the drivies are participating in the rebuilding process simultaneously.	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion

60	Appen dix 2 Minim um Techni cal Specifi cations v4 , Storag e-DC- DRC	Cach e,16	RFP Clause: The storage is required to have minimum 512 GB for DC/DRC storage usable Data cache / memory available across the pair of controller post write mirroring / protection overheads. The cache memory architecture and the proposed cache is required to be explained in the proposal.	Change Requested: The storage is required to have minimum 1TB for DC/DRC storage usable Data cache / memory available across Storage. The cache memory architecture and the proposed cache is required to be explained in the proposal. Justification: Since we are suggesting to have minimum 4 controllers from Day 1, The Cache Memory for Storage will become 1TB with four controllers from Day 1. This will also ensure that all vendors will propose equivalent models to meet the Enterprise Storage requirements without compromising on the performance requirements.	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion
61	Appen dix 2 Minim um Techni cal Specifi cations v4 , Storag e-DC- DRC	Repli catio n ,20	proposed storage must support Synchronous and Asynchronous replication across sites / storages for FC data on the storage. The proposed solution should support zero data loss feature with functionality to provide delta resync capability from surviving site in case of disaster. Storage is required to be configured with required redundant IP ports / FC ports / FCIP routers for the replication. The proposed storage must reduce OPEX costs and have an native / external option to preserve bandwidth by compressing the data being replicated to the DR site.	Change Requested:We request to remove "The proposed storage must reduce OPEX costs and have an native / external option to preserve bandwidth by compressing the data being replicated to the DR site." from the clause Justification: Storage based Replication software does not have the functionality of preserving Bandwidth by compressing the data being replicated. Moreover, Asynchronous replication using Oracle Native replication between DC and DR is planned and hence request to remove the last line from the specification.	The text stands deleted "The proposed storage must reduce OPEX costs and have an native / external option to preserve bandwidth by compressing the data being replicated to the DR site."	Response /Clarificat ion

62	Appen dix 2 Minim um Techni cal Specifi cations v4, Storag e-DC- DRC	Feat ures requ ired ,26	RFP Clause: Must support Replication, Snapshot technology, Cloning, online LUN extension & basic file auditing capabilities.	<b>Change Requested:</b> We request to remove the "basic file auditing capabilities" as we are recommending Block Storage access for the requirement and does not support the file level NAS functionality	GY If we go for NAS / Unified storage, may be required	Response /Clarificat ion
63	Appen dix 2 Minim um Techni cal Specifi cations v4 , Storag e-DC- DRC	Feat ures requ ired ,30	RFP Clause: The storage management software must provide multiple levels of access control including role- based security, provision to send alerts via email (mandatory) / SMS(preferred). The proposed storage solution must support Multi Factor / Two Factor Authentication for Administrative web & Administrative CLI Access . The proposed system is required to have the capability to protect against brute-force attacks. All these features is required to be clearly explained in the proposal.	Change Requested: We request to remove" The proposed storage solution must support Multi Factor / Two Factor Authentication for Administrative web & Administrative CLI Access" from the Clause. Justification: This is vendor specific clause and we provide ROLE based authentication.	The revised clause should be read as "The access to the proposed storage should be role based authentication"	Response /Clarificat ion
64	Appen dix 2 Minim um Techni cal Specifi cations v4, Storag e-DC- DRC	Migr ation ,38	Additional Details needed:	<b>Additional Details</b> <b>needed:</b> We would need details on the present environment to define the migration Scope.	Will be shared with the sucessful bidder	Response /Clarificat ion
65		Page 13/ Point 2.(Eli gibili ty Crite ria) / Sl. No.4	Bidder should have an annual turnover of at[1]least INR 100 crores in the last three financial years (i.e. 2017-18, 2018-19 and 2019-20)	We are Requesting to change the average turnover of at least <b>Rs.30.00 Crore</b> in the last three financial years(i.e. 2017-18, 2018-19, and 2019-20)	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion
66		Page 13/ Point 2.(Eli gibili ty Crite	Make in India preference clause, Non- Class 1 and non- class 2 bidders are also eligible to participate. In case bids are received	Need clarification.	The clause is self explanatory	Response /Clarificat ion

		ria) / Sl. No.1	from Class 1 or Class 2 local suppliers, purchase preference will be given to such bidders in-line with Government of India guidelines. If Class 1 and Class-2 Bidders are not available, other bidders will be considered.		For Asynchronous	
67		Page 21 / Point No. 20	DC &-DR replication :- Asynchronous replication Oracle Native replication between DC and DR	Need to clarify, whether it's bidder responsibility or not.	replication, Oracle Native replication between DC and DR; and Bidder is required to setup replication between DC and DRC. Refer to section "3.2 Storage at DC and DR" of RFP, for more details	Response /Clarificat ion
68		Page 16/ Point 3.1	Storage should be configured on OEM rack along with Power strips (PDUs), Power cables, Network cables, Fiber cables and any other components required for successful implementation of the solution are to be supplied and commissioned by the successful Bidder.	Requesting bank to make this relaxation of Rack from same storage OEM to any standard available rack, where bank will benefit with more competitive offer.	Rack shall be provided by the Bank	Response /Clarificat ion
69		Eligib ility Crite ria - Point 13	Bidder should have experience in supply, implementation and maintenance of DC & DRC Setup in at least one public sector bank/ scheduled commercial bank in India with Project order value of minimum INR 10 cr of product & services	Bidder should have experience in supply, implementation and maintenance of DC & DRC Setup in at least one public sector bank/ scheduled commercial bank/Public Sector Enterprise in India with Project order value of minimum INR 10 cr of product & services	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion
70	73		10.2Appendix 2: Technical Specifications (Minimumm Technical Specificaitons for Storage at DC/DRC/NDR) Point 9. All the storage drives and backend connectivity is required to be based on minimum 12 Gbps SAS. Minimum 8 x 12Gb/s backend ports to be provided.	The physical backend ports vary across every OEM based on internal 12 Gb SAS LANE's inside each physical SAS port. Minimum 4 X 12 Gb/s are typical specifications with most of the OEM's hence requesting you to modify.	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion

71	73	<ul> <li>10.2Appendix 2: Technical</li> <li>Specifications</li> <li>(Minimum Technical</li> <li>Specifications for</li> <li>Storage at</li> <li>DC/DRC/NDR)</li> <li>Point 12. The</li> <li>proposed storage</li> <li>must offer 2,50,000</li> <li>IOPS for DC/DRC</li> <li>Storage at 4K Block</li> <li>Size, 50:50 R:W ratio</li> <li>under sub-</li> <li>millisecond latency</li> <li>from day one. This is</li> <li>the minimum</li> <li>requirement however</li> <li>Bidder is required</li> <li>propose the sizing as</li> <li>per application</li> <li>requirement</li> <li>considering the future</li> <li>growth till the end of</li> <li>the contract.</li> </ul>	Generally CBS solutions are sized at 16 KB Block size and 70:30 Read Write ratio. Can you please confirm if existing workload has this kind of IO pattern ?? Bank to provide future growth consideration based on application vendor's estimate in terms of performance	No Change. The storage should be capable to support 4,00,000 IOPS in future	Response /Clarificat ion
72	73	10.2Appendix 2:TechnicalSpecifications(Minimumm)TechnicalSpecificaitons forStorage atDC/DRC/NDR)Point 14. Biddershould proposeStorage for DataCentres - UsableCapacity DC- 250 TB ,DR 180 TB onmaximum 7.6TB SSDs.Once the FlashStorage Devicereaches the writeendurance limits orservice life, same	The SSD/Flash module sizes vary across OEM's basis on their investment on R&D and the decision should be left to OEM to decide the best for achieving the required performance. Please extend the condition of maximum drive size to 20 TB. Also higher SSD/Flash drive will ensure low datacenter footprint saving both power/cooling.	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion
73	73	needs to be10.2Appendix 2:TechnicalSpecifications(Minimumm)TechnicalSpecificaitons forStorage atDC/DRC/NDR)Point 18. Since this is24*7 delivery channelstorage, under nocircumstances thecache memory on thestorage controllershould be bypass toguarantee acceptableperformance levels atall times.	The cache architecture is different in every OEM and generally cache memory a volatile memory used for performance enhancement. In circumstances of a controller failure, it is ideal to bypass for ensuring data is secure in non-volatile Flash/SSD's. Evaluation should be based on performance guarantee committed even after bypassing the cache memory.	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion

74	14		2. Eligibility Criteria: Bidder should have its own Support center in Mumbai/Navi Mumbai & Hyderabad for onsite, Telephonic and Remote Assistance Services	Please amended by adding Bidder/OEM should have its own Support center in Mumbai/Navi Mumbai & Hyderabad for onsite, Telephonic and Remote Assistance Services	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion
75	11		Earnest Monet Deposit	Please confirm EMD amount if any.	EMD to be submitted by the participating bidders for the amount of INR 36,00,000/-	Response /Clarificat ion
76	18	48 Port Leaf- 1G& 10G Copp er	Annexure 2: 3.6 Minimum Technical Specifications for 48 Port Leaf-1G&10G Copper The Switch should support intelligent buffer management with a minimum buffer of 30MB	Please consider 32 MB of buffer for better performance in the DC network	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion
77	19	Leaf- 10& 25G Fiber	Annexure 2: 3.6 Minimum Technical Specifications for Leaf-10&25G Fiber The Switch should support intelligent buffer management with a minimum buffer of 30MB	Please consider 32 MB of buffer for better performance in the DC network	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion
78	14	2. Eligib ility Crite ria	13. Bidder should have experience in supply, implementation and maintenance of DC & DRC Setup in at least one public sector bank/ scheduled commercial bank in India with minimum 1000 branches with order value of minimum INR 10 cr of product & services	Need clarity - As per our understanding, bidder should submit the PO copy which comprises of IT HW/SW & services which was supplied & deployed at DC - DR sites & the PO should be of Value min 10 Cr. Or PO should be of storage only.	Yes, understanding is correct, that is bidder should submit the PO copy which comprises of IT HW/system SW (i.e. OS, DB, etc.) & services which was supplied & deployed at DC - DR sites & the PO should be of minimum value of 10 Cr.	Response /Clarificat ion
79	14	OEM' s Eligib ility	Proposed Storage series (or its previous version) should be implemented any core banking in at least one public sector bank/ scheduled commercial bank in India with minimum 1000 branches	Can you please rephrase this point to, "Proposed Storage series (or its previous version) should be implemented in at least one public sector bank/ scheduled commercial bank in India with minimum 1000 branches"	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion
80	14	OEM' s Eligib ility	OEM's Proposed SAN/LAN Switch (or its previous version) should have been implemented in at least one public sector bank/ scheduled commercial bank in India with minimum 1000 branches	If we provide single PO which has storage & SAN switches part of the solution, Will it suffice the requirement. Or Bank require separate PO of SAN/LAN switches.	Bidder is reuired to provide SAN / LAN PO for the said criteria	Response /Clarificat ion

81	16	3. Detai led Scop e of Work 3.1 Gene ral	Supply, installation, configuration & maintenance of all the supplied hardware and software at the DC and DR and seamless migration and integration with existing Network Architecture of Bank.	In order to understand and factor efforts for requested seamless migration please provide following inputs - 1) existing storage model, make, & serial no 2) Size, type of data 3) If using any hyperviser for virtualisation, no of VM's & no of physical servers 4) Existing set-up network architecture diagram to understand current set-up & challenges, if any.	EMC DELL SC 9000 at DC and DRC; the usable capacity is 100 TB at DC and DRC respectively at each site With Unix, Linux and MS windows configured in HA and Non-HA environment Oracle DB and MS SQL DB	Response /Clarificat ion
82	17	3. Detai led Scop e of Work 3.1 Gene ral	Provide comprehensive on- site warranty and AMC/ATS support for the tenure of contract Warranty of hardware and software will start from the date of commissioning and acceptance by Bank. AMC/ATS will start from the date of expiry of warranty period.	Request to consider warranty support start date from the date of material delivery at respective sites.	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion
83	18	3. Detai led Scop e of Work 3.1 Gene ral	All the equipment (hardware, software) supplied as part of solution should be IPV4 as well as IPV6 compliant from day one and should support all the protocols.	Can you please elaborate which all protocols are expected to support by the proposed SAN storage, SAN switches and Network Switches?	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion
84	20	3.6 Instal latio n and Confi gurat ion	9. Setup and operationalize 3-way DR for CBS and I- banking application	As per the details provided in the RFP there is a mention of only DC and DR site and NDR site isn't considered for deployment, so can you please elaborate the details of 3 way DR expected to be setup and operationalize?	Near DR is out of scope as of now. However, bank may opt for Near DR in next 2 to 3 year	Response /Clarificat ion
85	20	3.6 Instal latio n and Confi gurat ion	The bidder shall ensure compatibility of the hardware, software and other equipment that they supply with the hardware and software systems being used in the Bank.	Can you please let us know the details of the hardware and software systems being used in the bank with which we need to ensure the compatibility?	Must be compatible with major hypervisors like VMware, RHEV and Hyper-V and upgrades. Must be compatible with Operating Systems like Microsoft Windows, AIX 7.x , RHEL and upgrades. The storage must support clustering solutions such as Microsoft cluster, MS SQL cluster, SUN Solaris cluster, Linux cluster, Veritas cluster, HP-UX cluster, IBM AIX cluster etc.	Response /Clarificat ion

86	20	3.6 Instal latio n and Confi gurat ion	<ul> <li>17. It would be the bidder's responsibility to ensure safe disposal of e-waste as per Hazardous Waste (management and handling) Rules 1989 and 2008, without imposing any liability to bank, comprising discarded Hardware/ electrical/ electronic equipment/ components taken under buyback.</li> <li>20. Bidder will have to complete the</li> </ul>	Please remove. There is no buyback components involve in this RFP.	Buyback is out of scope of bidder	Response /Clarificat ion
87	21	3.6 Instal latio n and Confi gurat ion	successful migration of data from old storage to new storage. Migration of data to be ensured with minimum near zero downtime. Vendor must have sufficient skill sets required for virtualizing existing storages for performing the seamless data migration with no data loss. Skill sets should include expertise in SAN Network, SAN Storage and connected servers.	Can you please rephrase the point as follows, "Bidder will have to complete the successful migration of data from old storage to new storage. Migration of data to be ensured with <i>mutualy</i> <i>agreed</i> downtime. Vendor must have sufficient skill sets required for performing the seamless data migration with no data loss. Skill sets should include expertise in SAN Network, SAN Storage and connected servers."	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion
88	21	DC &-DR replic ation	1. Asynchronous replication Oracle Native replication between DC and DR 2. Vendor must provide additional hardware/software, if required, to meet the scope of work.	Need clarity- 1) we understand that, the Bank's existing SI (Wipro) or Bank official (Oracle DB team) will configure the replaction in existing Oracle system. please confirm. 2) Please specify, what hardware/software would be required. As Bank using existing Oracle native replication technology so we assume its already in place and	bank is currently using oracle native feature for replication; Replication between DC an DRC is to be done by the successful bidder	Response /Clarificat ion
89	31	5.28 Insur ance	The equipment (hardware, software etc.) supplied under the contract shall be fully insured by the successful Bidder against loss or damage incidental to manufacture or acquisition, transportation, storage, delivery and	Bank will take care of it. Request clarity, as its contradict within the clause - 1) valid for the entire period of the Agreement 2) The period of insurance shall be up to the date the supplied components are accepted and the all rights of the property are transferred to the Bank in the Bank's premises.	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion

			installation. The insurance shall be obtained by the Bidder naming the Bank as the beneficiary, for an amount Equal to 110% of the invoiced value of the goods on "all risks" basis including war risks, burglary, acts of terrorism and natural calamities valid for the entire period of the Agreement The period of insurance shall be up to the date the supplied components are accepted and the all rights of the property are transferred to the Bank in the Bank's premises. Should any loss or damage occur, the	As a bidder, we can insure the material i.e. an amount equal to 110% of the invoice value of the goods. but once its delivered at Bank premises, the liablity of insurance will be on banks account. As a bidder, we will not have any control over premises/property owned / rented by bank.		
90	34	5.33 Secur ity Confi gurat ion, Inspe ction, Audit , Moni torin g & Visita tions	<ul> <li>damage occur, the selected Bidder shall:</li> <li>i. Initiate and pursue claim till settlement and</li> <li>ii. Promptly make arrangements for repair and / or replacement of any damaged item irrespective of settlement of claim by the underwriters.</li> <li>Security</li> <li>Configuration</li> <li>The baseline security configuration of Database, Web server and all other applications to be done by the Vendor, according to the industry best practices Compliance with security best practices may be monitored by periodic computer security audits performed by or on behalf of the Bank. The periodicity of these audits will be decided at the discretion of the Bank. Periodicity for Regulatory Audits would be required as per the rules and</li> </ul>	This RFP/tender has requirement of storage, SAN & LAN switches at DC & DR sites. Whereas the highlighted phrase talks about Database, Server & application which will not be in bidders/vendor scope. Request to correct the phrase as per RFP/tender requirement (product).	The Baseline security shall be limited to RFP / Tender inscope components	Response /Clarificat ion

guidelines laid down by the regulator or as	
required by the	
regulator. These audit	
plan to include, but	
are not limited to, a	
review of: access and	
authorization	
procedures, physical	
security controls,	
input/output controls, Database	
(DB) controls, backup	
and recovery	
procedures, Network	
security controls and	
program change	
controls. Compliance	
of the audit report has	
to be ensured by the	
Vendor.	
To the extent that the	
Bank deems it	
necessary to carry out	
a program of inspection and audit	
to safeguard against	
threats and hazards	
to the confidentiality,	
integrity, and	
availability of data,	
the Vendor shall	
afford the Bank's	
representatives	
access to the Vendor's	
facilities, installations,	
technical resources,	
operations, documentation,	
records, databases	
and personnel. The	
Vendor must provide	
the Bank access to	
various monitoring	
and performance	
measurement	
systems (both manual	
and automated). The	
Bank has the right to	
get the monitoring	
and performance	
measurement systems (both manual	
systems (both manual and automated)	
audited without prior	
approval / notice to	
the Vendor.	
i. As mentioned	
above the Successful	
5.71 Bidder will furnish an Please clarify on below	
Perfo unconditional and 1) Single PBC to be The PBC should be	Domonoo
91 ce lifevocable submitted by successful the ratio of 90.10 f	
Bank Performance Bank bidder? IIBCB and IIBKCB	ion
Guarantee (PBG), in 2) The heneficiary for PBC	1011
antee the format given by would be UBCB or UBKCB?	
the Bank in Annexure-	
13, for 3% of the total	

			project cost valid for 63 months (may change as per Government guidelines), validity of PBG starting from its date of issuance. The PBG shall be submitted within 21 days of the PO acceptance by the Bidder.			
92	64	8. Paym ent Term s	3. Payment will be made by Central Bank of India Sponsored RRBs (UBGB & UBKGB) in ratio 90:10 i.e 90% by UBGB & 10% by UBKGB 4. Invoices will be raised separately to both the RRBs in the ratio mentioned above.	Tax invoices can not be split as its has interdependence with e- way bill, GST etc Also same HW / SW can not be owned by separate entities in 90:10 ratio. We suggest, either you can split the components while placing an order & accordingly we can submit the TAX invoices.	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion
93	67		9. Service Levels & Penalties	Response time of 5 minutes is unrealistic without the team of onsite engineers. Please revise the response time to 2 hours	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion
94	Additio nal	Addit ional	Additional	Can you please let us know the Application planned to be hosted on the SAN storage proposed in this RFP?	Will be shared with the successful bidder	Response /Clarificat ion
95	73	10.2 Appe ndix 2	10.2Appendix 2: Technical Specifications (Minimum Technical Specifications for Storage at DC/DRC/NDR) Point 9. All the storage drives and backend connectivity is required to be based on minimum 12 Gbps SAS. Minimum 8 x 12Gb/s backend ports to be provided.	The physical backend ports vary across every OEM based on internal 12 Gb SAS LANE's inside each physical SAS port. Minimum 4 X 12 Gb/s are typical specifications with most of the OEM's hence requesting you to modify.	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion

96	73	10.2 Appe ndix 2	10.2Appendix 2: Technical Specifications (Minimumm Technical Specificaitons for SAN Switch at DC/DRC) The fiber channel switch is required to be configured with 96 ports 32 Gbps at DC&DR locations and backward compatible to 4/8/16 Gbps.	The 32 Gbps SFP can have only 16/8 Gbps. Backward compatibility support as technology limitation across the industry. Please amend the point or include some 16 Gbps SFP in requirement to support backward 4 Gbps devices OR Can you please rephrase this point as follows, because the SAN switches can auto negotiate to n - 2 port speed levels only, "The fiber channel switch is required to be configured with 96 ports 32 Gbps at DC&DR locations and backward compatible to 32/16/8 Gbps."	The revised line item should be read as "The fiber channel switch is required to be configured with 92 ports 32 Gbps at DC&DR locations and backward compatible to 16/8 Gbps at 4 ports 16 Gbps at DC&DR locations and backward compatible to 8/4 Gbps"	Response /Clarificat ion
97	73	10.2 Appe ndix 2	<ul> <li>10.2Appendix 2: Technical</li> <li>Specifications</li> <li>(Minimum Technical</li> <li>Specifications for SAN</li> <li>Switch at DC/DRC)</li> <li>192 LC-LC cables and</li> <li>SFPs are required to</li> <li>be supplied for</li> <li>Primary and DR sites</li> <li>The proposed storage</li> <li>must support</li> </ul>	Please provide the length of the LC-LC cables needed	Refer to Bill of Material, for cable length and other Structured cabling details	Response /Clarificat ion
98	73	10.2 Appe ndix 2 Repli catio n	Synchronous and Asynchronous replication across sites / storages for FC data on the storage. The proposed solution should support zero data loss feature with functionality to provide delta resync capability from surviving site in case of disaster. Storage is required to be configured with required redundant IP ports / FC ports / FCIP routers for the replication. The proposed storage must reduce OPEX costs and have an native / external option to preserve bandwidth by compressing the data being replicated to the DR site.	For Zero Data Loss and synchronous replication to work, typically has distance limitation between sites to up to 100- 150 KM, while in proposed solution DC/ DR sites are quite far away (mumbai / hyderbad), So ZDL / sync replication may be challenge between mumbai and Hyderabad. Request to review the requirement of ZDL and synchronous replication.	Near DR is out of scope of the Bidder. Asysc repliaction between DC & DRC should be considered. However, the Bank may go for Near Site storage in year 2 or year 3, of contract period	Response /Clarificat ion

99	73	10.2 Appe ndix 2 SAN Switc h	13. The fiber channel switch is required to support Smart Zoning such that the entries in the TCAM (Ternary Content Addressable Memory) is significantly reduced and therefore increasing the overall scalability of the SAN Fabric.	This is vendor specific. Usually the inititiator and target zoning is done at SAN fabric level and that's is supprted by all. We request you to make it a neutral specification in stead of any vendor specific. Can you please rephrase the point to, "The fiber channel switch is required to support hardware and software based zoning"	The revised clause should be read as "The fiber channel switch is required to support hardware and software based zoning"	Response /Clarificat ion
100	73	10.2 Appe ndix 2 SAN Switc h	20. The fiber channel switch is required to be capable of connecting neighbouring Fiber Channel switches	Which vendor switches, these proposed SAN switches will be connected to? Interop mode is not supported by FC SAN. If you have certain vendor switches, then you have to take the SAN switches from same vendor if you want to connect through ISL and merge the Fabrics.	capability should be available, Bidder is not responsible for interop mode of different make switches	Response /Clarificat ion
101	73	Appe ndix 2 Leaf- 48Po rt1& 10G Copp er	6.4 Support Multicast Source Discovery Protocol (MSDP) (RFC 3618)	MSDP is the legacy protocol and its features are offered through latest version of PIM-SM and PIM-SSM, hence we request you to rephrase the point as "Support Multicast Source Discovery Protocol (MSDP) (RFC 3618) or PIM-SM and PIM- SSM"	The revised line item should be read as "Support Multicast Source Discovery Protocol (MSDP) (RFC 3618) or PIM-SM and PIM-SSM"	Response /Clarificat ion
102	73	Appe ndix 2 Leaf- 48Po rt1& 10G Copp er	8.4 Switch platform should support MAC Sec (802.1AE) encryption in hardware	MAC Sec is a resource intensive feature deployed on the WAN/MetroLAN network to secure traffic and is not a necessary requirement for data center switches. Hence considering this data center LAN switch requirement, we request you to rephrase this point to "Switch platform should support IEEE standard 802.1ae/802.1x i.e. WAN Sec or PEAP encryption in hardware"	The revised line item should be read as "Switch platform should support MAC Sec (802.1AE) / 802.1x i.e. WAN Sec or PEAP encryption in hardware"	Response /Clarificat ion
103	73	Appe ndix 2 Leaf- 48Po rt10 &25G Fiber	6.4 Support Multicast Source Discovery Protocol (MSDP) (RFC 3618	MSDP is the legacy protocol and its features are offered through latest version of PIM-SM and PIM-SSM, hence we request you to rephrase the point as "Support Multicast Source Discovery Protocol (MSDP) (RFC 3618) or PIM-SM and PIM- SSM"	The revised line item should be read as "Support Multicast Source Discovery Protocol (MSDP) (RFC 3618) or PIM-SM and PIM-SSM"	Response /Clarificat ion

104	73	Appe ndix 2 Leaf- 48Po rt10 &25G Fiber	8.4 Switch platform should support MAC Sec (802.1AE) encryption in hardware	MAC Sec is a resource intensive feature deployed on the WAN/MetroLAN network to secure traffic and is not a necessary requirement for data center switches. Hence considering this data center LAN switch requirement, we request you to rephrase this point to "Switch platform should support IEEE standard 802.1ae/802.1x i.e. WAN Sec or PEAP encryption in hardware"	The revised line item should be read as "Switch platform should support MAC Sec (802.1AE) / 802.1x i.e. WAN Sec or PEAP encryption in hardware"	Response /Clarificat ion
105	13		Eligibility Criteria- POINT 1: Make in India preference clause, Non- Class 1 and non- class 2 bidders are also eligible to participate. In case bids are received from Class 1 or Class 2 local suppliers, purchase preference will be given to such bidders in-line with Government of India guidelines. If Class 1 and Class-2 Bidders are not available, other bidders will be considered. For	Please clarify, In case if Bidder & OEM are not same, then this criteria will be fulfilled by OEM only and will be accepted by the Bank.	Yes, in such case Criteria needs to be fulfilled by OEM (/Bidder - in case Bidder is OEM of the proposed product)	Response /Clarificat ion
106	13		further details, Please refer section no. 5.79 Eligibility Criteria- POINT 2: If the bidder is from a country which shares a land border with India, the bidder should be registered with the Competent Authority	Please clarify if the Bidder/company is registered in India then Certificate of Incorporation from registrar of company is valid to be submitted here.	Yes; if the Bidder/company is registered in India then Certificate of Incorporation from registrar of company is valid to be submitted here.	Response /Clarificat ion
107	14		Eligibility Criteria- POINT 13: Bidder should have experience in supply, implementation and maintenance of DC & DRC Setup in at least one public sector bank/ scheduled commercial bank in India with minimum 1000 branches with order value of minimum INR 10 cr of product & services	We request to change this clause as below: "Bidder should have experience in supply, implementation and maintenance of DC & DRC Setup in at least one public sector bank/ scheduled commercial bank/Public Sector Enterprise in India with Project order value of minimum INR 10 cr of product & services"	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion
108	13		Eligibility Criteria- POINT 7 : MAF from OEM as per Annexure 6	All OEM provide MAF as per their legal approved formats to the bidder. Kindly confirm MAF shared by OEM in their	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion

			legal approved formats will be accepted by Bank.		
109	13	Eligibility Criteria- Point 1 : Annexure 19 - Make In India Preference	All OEM provide Make in India undertaking/declaration/d etails as per their legal approved formats to the bidder. Kindly confirm if it will be accepted by the bank as per OEM legal approved format	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion
110	13	Eligibility Criteria- Point 2 : Annexure 15 - Land Border clause Annexure	All OEM provide Land border clause/undertaking/declar ation/details as per their legal approved format to the bidder. Kindly confirm if it will be accepted by the bank as per OEM legal approved format	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion
111	13	Eligibility Criteria- POINT 7 : MAF from OEM as per Annexure 6	All OEM provide MAF Letters as per their legal approved formats to the bidder. Kindly confirm if shared by OEM in their legal approved formats it will be accepted by Bank.	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion
112	14	Eligibility Criteria- POINT 14 : ISO 9001 or latest ISO standard certification holder company	We request to kindly add Bidder's CMMI Level 5 certificate along with ISO 9001.	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion
113	82	Annexure 8: Letter from OEM's	All OEM provide these support Letters as per their legal approved formats to the bidder. Kindly confirm if shared by OEM in their legal approved formats it will be accepted by Bank.	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion
114	112	ANNEXURE 19 - Make in India purchase preference	In case if OEM local % is Zero (0) than undertaking/declaration from OEM on the letter head will be accepted by the bank without any certificate from statutory auditor/cost auditor/chartered accountant. Certificate is only required in case if the OEM is falling under Class 1 or 2 under Make in in India preference. Please confirm for clarity.	Refer to Eligibility Criteria	Response /Clarificat ion
115	64	Payment Terms	Please confirm how and who be doing the acceptance to the Delivery, installation, implementation at the DC & DR site at Hyderabad and Navi Mumbai which is managed by Central bank of India for the payments.	Invoice to be raised to RRBs, and the payment will be done by the RRBs; however, parent bank will extend their support during acceptance of Hardware & software at DC and DRC	Response /Clarificat ion

			Will it be done by RRB's or Central Bank of India at site.		
116	64	Payment Terms	Please confirm who will be approving the Payment invoices and how the ratio of 90:10 will be clarify to the bidder while submission of Invoices for payments.	Payments will be approved by the respective RRBs, however bank may assist them for the same	Response /Clarificat ion
117	24	Section 5.15 Prices : The bank shall have the right to withhold any payment due to the successful bidder, in case of delays or defaults on the part of the successful bidder. Such withholding of payment shall not amount to a default on the part of the bank.	Payment term is to be defined and Bank cant held the payment without any valid reason. Delay in payment should attract interest	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion
118	28	Section : 5.22 Execution of Contract, SLA and NDA Point iii. The bidder should execute the contract, SLA and NDA within 30 (thirty) days from the date of acceptance of the Purchase Order.	Please clarify if Contract needed Registration, who will be paying Duty and Registration Charges	The Bidder has to pay registration and duty charges for Contract / NDA/ SLA	Response /Clarificat ion
119	45	Section-Termination for Convenience: The Bank, by written notice sent to the Service Provider, may terminate the Contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that termination is for the Bank's convenience, the extent to which performance of the Service Provider under the Contract is terminated, and the date upon which such termination	The Right to terminate the contract by convenience should also be available to SI	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion

120	33	5.31(4) Request to add certain exclusions for indemnification	Provided that the Bidder shall not be liable for indemnity in the event liability arise due to (i) specifications provided by the Bank; (ii) combination of the hardware, software supplied by the Bidder with third party components not provided by the Bidder; (iii) modification of the hardware or software by the Bank or (iv) any act or omission solely attributable to Bank.	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion
121	45	5.63(3) Termination- Key terms and conditions	The Bidder should be allowed to terminate in the event Bank is unable to pay the dues of the Bidder for 30 days after the due date	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion
122	45	5.63(4) Termination for convenience	The Bank should be able to terminate only after 60 days' notice to the Bidder for convenience. In such an event, the costs incurred by Bidder with third parties on behalf of Bank should be paid back on pro rata basis. Further, the termination for convenience right should be available to Bidder also.	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion
123	48	5.69(Liquidated damages) Structured cabling	Liquidated damages should be levied at 0.5 % of delayed value of goods or services and not the entire value of Purchase Order. Please confirm if you require fiber shelf, MPO trunk & Module for rack to rack connectivity. If yes,please help to	There is no change in the requirement; the requirement stand as it is (as per RFP) Structure cabling is limited to the details mentioned in Bill of	Response /Clarificat ion Response /Clarificat ion
			understand the design/ connectivity.	Material	1011
125	16	Successful bidder is required to co- ordinate with the existing CBS SI for migration of data from existing Storage to new storage. Migration of data from old storage to new storage, is required to be done by the bidder. Migration tool needs to provided by the bidder at no additional cost to the Bank	For successful migration of data from Old storage to new storage, we will need to know the existing/old storage model and associated deployment to plan the deployment and migration efforts.Also need to know the current tools bank is using for migration of data.	EMC DELL SC 9000 Usable Gapacy is 100 TB at DC and DRC repectively at each site With Unix, Linux and MS windows confihured in in HA and Non-HA environment Oracle DB and MS SQL DB The Bidder is required to provide the necessary tools for Migration	Response /Clarificat ion
126	18	All the equipment (hardware, software) supplied as part of solution should be	Can you please elaborate which all protocols are expected to support by the proposed SAN storage,	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion

127	Appen dix 2	IPV4 as well as IPV6compliant from dayone and shouldsupport all theprotocols.12. The proposedstorage must offer2,50,000 IOPS forDC/DRC Storage at4K Block Size, 50:50R:W ratio under sub-millisecond latencyfrom day one. This isthe minimumrequirement howeverBidder is requiredpropose the sizing asper applicationrequirementconsidering the futuregrowth till the end ofthe contract.	SAN switches and Network Switches? Can you please share the future growth % expected in the span of 5 years from the date of initial deployment?	No Change, as the requirement is clearly given in Minimum Technical Spification sheet for Storage	Response /Clarificat ion
128	Appen dix 2	16. The storage is required to have minimum 512 GB for DC/DRC storage usable Data cache / memory available across the pair of controller post write mirroring / protection overheads. The cache memory architecture and the proposed cache is required to be explained in the proposal.	Can you please rephrase this point to, "The storage is required to have minimum 384 GB for DC/DRC storage usable Data cache / memory available across the pair of controllers and should allow dynamic cache allocation depending on the workload. The cache memory architecture and the proposed cache is required to be explained in the proposal."	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion
129	Appen dix 2	27. The proposed storage must provide multiple snapshots & full copy clones with minimal impact to source. Snapshots & full copy clones to be taken without affecting the storage performance.	Can you please rephrase this point to, "The proposed storage must provide multiple snapshots & full copy clones or Thin Clones with minimal impact to source. Snapshots & full copy clones or Thin Clones to be taken without affecting the storage performance."	The revised clause should be read as "The proposed storage must provide multiple snapshots & full copy clones or equivalent with minimal impact to source. Snapshots & full copy clones or Thin Clones to be taken without affecting the storage performance."	Response /Clarificat ion
131		Additional Query	Please also highlight the design CBI is using for this network as it is critical to understand for overall solution.	Will be shared with the successful bidder	Response /Clarificat ion
132	Appen dix 2: Techni cal Specifi cations - Storag e	Point 4 : Storagemust be configuredwith FC,SMB,iSCSI,NFS and FTPprotocols. Storagemust support QoS.Request clause to bechanged to read as-"Storage must beconfigured withnative FC,SMB,iSCSI	Point 4 : Storage must be configured with FC,SMB,iSCSI, NFS and FTP protocols. Storage must support QoS. Request clause to be changed to read as - "Storage must be configured with native FC,SMB,iSCSI and NFS protocols. Storage must	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion

		and NFS protocols. Storage must support	support QoS".		
		QoS".	Justification : With the advent of frequent		
		Justification : With the advent of frequent	ransomware, hacking & phishing attacks on		
		ransomware, hacking & phishing attacks on	NAS/File Shares, having ftp server enabled on the		
		NAS/File Shares, having ftp server	storage opens up the data to unsecured		
		enabled on the storage opens up the	implementation of file transfer protocols. To		
		data to unsecured implementation of file	provide better security in shared environments like		
		transfer protocols. To provide better	bank, we have removed ftp server from our storage		
		security in shared environments like	systems. To provide better security, we recommend		
		bank, we have removed ftp server	that the Bank have a separate security hardened		
		from our storage systems. To provide	deployment of secure file transfer Linux/windows		
		better security, we recommend that the	server or secure client tools which can be		
		Bank have a separate security hardened	configured to transfer data securely from the		
		deployment of secure file transfer Linux/windows	proposed storage thus achieving the objective of data transfer without		
		server or secure client	compromising the security of the entire storage		
		configured to transfer data securely from	system.		
		the proposed storage thus achieving the			
		objective of data transfer without			
		compromising the security of the entire			
		storage system. Point 06 : Storage is			
		required to be proposed with			
		minimum 2 controllers. Minimum		The revised line item should be read	
	Appen	16 x 16 Gbps or 8 x 32		"Storage is required to	
	dix 2: Techni	Gbps FC Front end ports; and minimum		be proposed with minimum 2 controllers.	
	cal	of 4 x 10GbE Ports.		Minimum 16 x 16 Gbps	Response
133	Specifi	Front end ports is		or 8 x 32 Gbps FC Front	/Clarificat
	cations	required to be evenly distributed across		end ports; and minimum of 4 x 10GbE	ion
	Storag	controllers.		Ports Fiber (SFP). Front	
	e			end ports is required to	
		Request Clarification : 10GbE		be evenly distributed across controllers.	
		Ports mentioned is			
		10GbE BASE-T ports or 10GbE SFP+ ports			
	Appen	Point 16 : The			
	dix 2:	storage is required to			
	Techni cal	have minimum 512 GB for DC/DRC		There is no change in	Response
134	cai Specifi	storage usable Data		the requirement; the	Response /Clarificat
	cations	cache / memory		requirement stand as it is (as per RFP)	ion
	- Storag	available across the pair of controller post		- (	
	e	write mirroring /			

		protection overheads. The cache memory architecture and the proposed cache is required to be explained in the proposal. Request clause to be changed to read as: - "The storage is required to have minimum 1024 GB for DC/DRC storage usable Data cache / memory available across the pair of controller post write mirroring / protection overheads. The cache memory architecture and the proposed cache is required to be explained in the proposal." Justification : In Modern Storage architectures the cache on the storage system has increased manyfold and for critical banking applications minimum 1024 GB usable data cache is recommended to enable high end		
135	Appen dix 2: Techni cal Specifi cations - Storag e	platforms from all OEMs. Point 20 : The proposed storage must support Synchronous and Asynchronous replication across sites / storages for FC data on the storage. The proposed solution should support zero data loss feature with functionality to provide delta resync capability from surviving site in case of disaster. Storage is required to be configured with required redundant IP ports / FC ports / FCIP routers for the replication. The proposed storage must reduce OPEX costs and have an native / external	Bidder is required to provide Synchronous & Asynchronous replication feature & License from Day 1 Also Bidder is required to provide Synchronous & Asynchronous replication required for both SAN and NAS protocol from Day 1	Response /Clarificat ion

		option to preserve bandwidth by compressing the data being replicated to the DR site.		
		Request Clarification :- The proposed storage supports replication however the license for replication is not included, please clarify if, 1. Synchronous & Asynchronous replication feature & License is required from Day 1 or bank will buy the license later? 2. Synchronous & Asynchronous replication required for both SAN and NAS protocol from Day 1 or only SAN or NAS replication license need to be offered?		
136	RFP Docum ent: Introd uction	Point 1.4 - Existing         IT-Setup :         Currently,         the Storage deployed         enterprise class         storage at DC and         DRC.         Request for         Clarification         1. Make and model         number of current         storage deployed	Will be shared with the sucessful bidder	Response /Clarificat ion
137	RFP Docum ent: Introd uction	Notage deproyedPoint 1.4 - ExistingIT-Setup:In theexisting setup at DCand DRC, Bank CBSapplication is runningon IBM Power seriesand othersurroundingapplications runningon Dell x86 Server.Request forClarification1. OS version andedition running onIBM Power Series2. File system used byCBS Database on IBMPower Series2. OS version andedition running onDell x86 Server	Will be shared with the sucessful bidder	Response /Clarificat ion

138	RFP Docum ent: Detaile d Scope of Work	Point 3.1 - General: Successful bidder is required to co- ordinate with the existing CBS SI for migration of data from existing Storage to new storage. Migration of data from old storage to new storage, is required to be done by the bidder. Migration tool needs to provided by the bidder at no additional cost to the Bank <b>Request for</b> <b>Clarification</b> 1. The current used capacity in existing storage. 2. Size of Data to be migrated in TB from old storage <b>Point 3.2: Storage at</b>	Usable capacity of 100 TB Storage at DC and DRC at each location	Response /Clarificat ion
139	RFP Docum ent: Detaile d Scope of Work	Point S.2: Storage atDC and DR: For itsexisting and futurebusiness needs, Bankenvisagesprocurement of AllFlash Storage at DCand DRC. Refer toAppendix 2 -Minimum TechnicalSpecification forStorage requirements.Bidder is required tosupply, install,implement, integrate,Data migration,replication setup.Request forClarificationIt was mentioned thatcurrent replication ofOracle using Nativeoracle replication tool. Is there any otherapplication ordatabase used thenative replication toolor rest will bereplicated usingstorage basereplication.	For CBS Oracle native feature is used for DC- DRC replicaiton and for other applications MS SQL log shipping is used for replication	Response /Clarificat ion

140	RFP Docum ent: Detaile d Scope of Work		Point 3.6: 3.6 Installation and Configuration - DC &-DR replication: Asynchronous replication Oracle Native replication between DC and DR. Request for Clarification 1. Current version of Oracle DB 2. Current version of Cluster aware 3. Database Size		Will be shared with the sucessful bidder	Response /Clarificat ion
141	Appen dix 2 Leaf- 48 Port 1&10G Copper		The Switch should support intelligent buffer management with a minimum buffer of 30MB	Request bank to consider 32 MB of buffer for better performance in the DC network	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion
142	Appen dix 2 Leaf- 48 Port 1&10G Fiber		The Switch should support intelligent buffer management with a minimum buffer of 30MB	Request bank to consider 32 MB of buffer for better performance in the DC network	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion
143		RFP Docu ment : Intro ducti on		Point 1.4 - Existing IT- Setup : Currently, the Storage deployed enterprise class storage at DC and DRC. Request for Clarification 1. Make and model number of current storage deployed	Will be shared with the sucessful bidder	Response /Clarificat ion
144		RFP Docu ment : Intro ducti on		Point 1.4 - Existing IT- Setup: In the existing setup at DC and DRC, Bank CBS application is running on IBM Power series and other surrounding applications running on Dell x86 Server. Request for Clarification 1. OS version and edition running on IBM Power Series 2. File system used by CBS Database on IBM Power Series 2. OS version and edition running on Dell x86 Server	Will be shared with the sucessful bidder	Response /Clarificat ion

145	RFP Docu ment : Detai led Scop e of Work		Point 3.6: 3.6 Installation and Configuration - DC &- DR replication: Asynchronous replication Oracle Native replication between DC and DR.Request for Clarification 1. Current version of Oracle DB 2. Current version of Cluster aware 3. Database Size	Will be shared with the sucessful bidder	Response /Clarificat ion
146	Page No 19 - Point No 3 Detai Is of Scop e of Work 3.1 Gene ral	Bidder willing to participate in this RFP shall submit duly stamped Integrity Pact on a stamp paper of INR 1000, as per Annexure 8 attached with this RFP. Integrity pact shall be submitted by all the prospective Bidders at the time of Bid submission or as per Bank's satisfaction. Non – submission of Integrity Pact as per time scheduled prescribed by Bank may be relevant ground for Bidder's disqualification to participate in the Bid process. Bank has appointed Independent External Monitor (hereinafter referred to as IEM) for this pact, whose name and e-mail ID are as follows:	There is conflict between given clause no 3 at page 19 and Clause no 5 at page 34 toward submission of Integrity Pact as per Annexure 8 or Annexure 9. We request you to please clarify annexure 8 (Integrity Pact) is not available in the RFP. Also confirm Amount of Stamp paper to be used for Integrity pact	Refer to Annexure 9 for Integrity Pact of the RFP	Response /Clarificat ion
147	Page No 34 5 Gene ral Term s Cond itions Point No 5.32 Integ rity Pact	Each Participating bidder/s shall submit Integrity Pact as per attached Annexure-9 on duly stamped of Rs 1000. Integrity pact should submit by all participating bidders at the time of submission of bid documents or as per satisfaction of the Bank. The Non- submission of Integrity Pact as per time scheduled prescribed by Bank shall be relevant ground of disqualification to participating in Bid	There is conflict between given clause no 3 at page 19 and Clause no 5 at page 34 toward submission of Integrity Pact as per Annexure 8 or Annexure 9. We request you to please clarify annexure 8 (Integrity Pact) is not available in the RFP. Also confirm Amount of Stamp paper to be used for Integrity pact.	Refer to Annexure 9 for Integrity Pact of the RFP	Response /Clarificat ion

148		Page No 64 Paym ent Term s	Payment Terms	We have suggested payment terms as per following: 1. 80% Payment of Delivery of Hardware 2. 20% Payment Installation & Commissioning of Hardware AMC Payment Terms: AMC shall commence on completion of warranty period and will be paid quarterly in arrears.	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion
149	18	3.1	All the equipment (hardware, software) supplied as part of solution should be IPV4 as well as IPV6 compliant from day one and should support <i>all the</i> <i>protocols.</i>	Can you please elaborate which all protocols are expected to support by the proposed SAN storage, SAN switches and Network Switches?	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion
150	20	3.6.5	The bidder shall ensure compatibility of the hardware, software and other equipment that they supply with the hardware and software systems being used in the Bank.	Can you please let us know the details of the hardware and software systems being used in the bank with which we need to ensure the compatibility?	Will be shared with the sucessful bidder	Response /Clarificat ion
151	Appen dix 2	SAN Switc h	14. Inter-fiber channel switch links is required to support the transport of multiple Virtual Fabrics between fiber channel switches, whilst preserving the security between Virtual Fabrics.	Are you going to implement Virtual Fabric? How many VF do you want to create?	Virtual Fabric feature should be avaliable for future use	Response /Clarificat ion
152	Appen dix 2	SAN Switc h	15. The fiber channel switch is required to support routing between Virtual Fabric instance in hardware.	<ol> <li>Are you going to implement Virtual Fabric?</li> <li>How many VF do you want to create?</li> <li>Do you want to create an Inter Fabric Link between the Virtual Fabrics?</li> <li>Which vendor switches,</li> </ol>	Virtual Fabric feature should be avaliable for future use	Response /Clarificat ion
153	Appen dix 2	SAN Switc h	20. The fiber channel switch is required to be capable of connecting neighboring Fiber Channel switches	these proposed SAN switches will be connected to? Interop mode is not supported by FC SAN. If you have certain vendor switches, then you have to take the SAN switches from same vendor if you want to connect through ISL and merge the Fabrics.	In existing setup Bank has Brocade switches	Response /Clarificat ion

154	Appen dix 2	Stora ge- DC- DRC	16. The storage is required to have minimum 512 GB for DC/DRC storage usable Data cache / memory available across the pair of controller post write mirroring / protection overheads. The cache memory architecture and the proposed cache is required to be explained in the proposal.	Can you please rephrase this point to, "The storage is required to have minimum <b>384 GB</b> for DC/DRC storage usable Data cache / memory available across the pair of controllers and should allow dynamic cache allocation depending on the workload. The cache memory architecture and the proposed cache is required to be explained in the proposal."	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion
155	Appen dix 2	Stora ge- DC- DRC	21. The proposed storage is required to be compatible with major hypervisors like VMware, RHEV, AHV and Hyper-V etc. and upgrades.	Can you please rephrase this point to by removing AHV from it. Because as per following KB article from Nutanix, it is not recommended to connect external storage to Nutanix system/AHV. https://portal.nutanix.com /page/documents/kbs/det ails?targetId=kA00e00000 0CtelCAC "The proposed storage is required to be compatible with major hypervisors like VMware, RHEV and Hyper-V etc. and upgrades."	The proposed storage is required to be compatible with major hypervisors like VMware, RHEV, and Hyper-V etc. and upgrades.	Response /Clarificat ion
156	20		Bidder shall conduct preventive maintenance (including but not limited to inspection, testing, satisfactory execution of all diagnostics, cleaning and removal of dust and dirt of the Equipment and necessary repairing of the Equipment) at specified intervals as may be necessary from time to time to ensure that the equipment is in efficient running condition so as to ensure trouble free functioning.	Please clarify the preventive maintenance frequency i.e. Quaterly, Half-yearly, yearly.	Preventive maintenance should be done on quaterly, basis.	Response /Clarificat ion
157		21/D C &- DR Repli catio n	Asynchronous replication Oracle Native replication between DC and DR	Please calrify the replication software required for Oracle native replication will be provided by Bank.	yes, understanding is correct oracle native feature is used for replication	Response /Clarificat ion

158		Gene ric	Infra Requirement	Please clarify, rack, space, power, cooling, earthling and any additional trans receiver modules, connectors, cables etc. will not be in scope of bidder.	Space, Power, cooling Environment will be provided by the Bank along with RACK. However for cabling details refer Bill of Material.	Response /Clarificat ion
159	13		2. Eligibility Criteria Bidder should have an annual turnover of atleast INR 100 crores in the last three financial years (i.e. 2017-18, 2018-19 and 2019-20)	Request to modify the clause to : Bidder or Bidder's parent company (incase bidder is wholly owned subsidiary of parent company) should have an annual turnover of at least INR 100 crores in the last three financial years (i.e. 2017-18, 2018- 19 and 2019-20)	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion
160	13		The bidder should have a positive net worth in two out of last three financial (i.e. 2017-18, 2018-19 and 2019-20).	Request to modify the clause to : Bidder or Bidder's parent company (incase bidder is wholly owned subsidary of parent company) have a positive net worth in two out of last three financial (i.e. 2017-18, 2018-19 and 2019-20).	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion
161	13		The bidder should be a net-profit-making company in two out of last three financial years (i.e. 2017-18, 2018-19 and 2019- 20).	Request to modify the clause to : Bidder or Bidder's parent company (in case bidder is wholly owned subsidiary of parent company) should be a net-profit- making company in two out of last three financial years (i.e. 2017-18, 2018- 19 and 2019-20).	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion
162	14		Bidder should have experience in supply, implementation and maintenance of DC & DRC Setup in at least one public sector bank/scheduled commercial bank in India with minimum 1000 branches with order value of minimum INR 10 cr of product & services	Request to modify the clause to : Bidder or Bidder's parent company (incase bidder is wholly owned subsidiary of parent company) should have experience in supply, implementation and maintenance of DC & DRC Setup in at least one public sector bank/scheduled commercial bank in India with minimum 1000 branches with order value of minimum INR 10 cr of product & services	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion
163	64		8. Payment Terms Hardware Cost (Storage/LAN & SANS Switches / Structured Cabling, etc.) part of Appendix 1- Bill of Material 70%Delivery of Hardware 30%Installation & Commissioning of Hardware	Request to modify the clause as : 80%Delivery of Hardware 20%Installation & Commissioning of Hardware AMCYearly in advance [ As OEM charges AMC yearly in advance]	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion

		AMCQuarterly in arrears			
164	RFP Docum ent: Introd uction	<b>Point 1.4 - Existing</b> <b>IT-Setup :</b> Currently, the Storage deployed enterprise class storage at DC and DRC.	Request for Clarification 1. Make and model number of current storage deployed	Will be shared with the successful bidder	Response /Clarificat ion
165	RFP Docum ent: Introd uction	Point 1.4 - ExistingIT-Setup:In theexisting setup at DCand DRC, Bank CBSapplication is runningon IBM Power seriesand othersurroundingapplications runningon Dell x86 Server.	Request for Clarification 1. OS version and edition running on IBM Power Series 2. File system used by CBS Database on IBM Power Series 2. OS version and edition running on Dell x86 Server	Will be shared with the successful bidder	Response /Clarificat ion
166	RFP Docum ent: Detaile d Scope of Work	Point 3.1 - General:Successful bidder isrequired to co-ordinate with theexisting CBS SI formigration of datafrom existing Storageto new storage.Migration of datafrom old storage tonew storage, isrequired to be doneby the bidder.Migration tool needsto provided by thebidder at noadditional cost to theBank	Request for Clarification 1. The current used capacity in existing storage. 2. Size of Data to be migrated in TB from old storage	Usable capacity of 100 TB Storage at DC and DRC at each location	Response /Clarificat ion
167	RFP Docum ent: Detaile d Scope of Work	Point 3.6: 3.6 Installation and Configuration - DC &-DR replication: Asynchronous replication Oracle Native replication between DC and DR.	Request for Clarification 1. Current version of Oracle DB 2. Current version of Cluster aware 3. Database Size	Will be shared with the sucessful bidder	Response /Clarificat ion
168	11.1An nexure 1: Techni cal Propos al Format	Gross revenue of the bidder (not of the group of companies) & Profit of the bidder (not of the group)	Request to consider credentials of parent company since bidder is wholly owned subsidary of the parent company operational in Feb 2021	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion
169	Appen dix 2 Leaf- 48 Port 1&10G Copper	The Switch should support intelligent buffer management with a minimum buffer of 30MB	Request bank to consider 32 MB of buffer for better performance in the DC network	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion

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170	Appen dix 2 Leaf- 48 Port 1&10G Fiber	The Switch should support intelligent buffer management with a minimum buffer of 30MB	Request bank to consider 32 MB of buffer for better performance in the DC network	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion
171	73	10.2Appendix 2: Technical Specifications (Minimumm Technical Specificaitons for Storage at DC/DRC/NDR) Point 4. Storage must be configured with FC,SMB,iSCSI, NFS and FTP protocols. Storage must support QoS.	CBS Storage solution generally do not require file protocols like NFS/SMB/FTP. As per our brief understanding of the current setup, the existing storage systems are also pure block only. Kindly share the exact usecase for these file protocols and remove if unncessary as not all OEM have a unified storage appliance and some OEM prefer to have file services as an independent solution on dedicated additional storage controllers. If these are mandatory, please provide the capacity of the file services that bank intends to consume on the storage at each site	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion
172	73	<ul> <li>10.2Appendix 2: Technical</li> <li>Specifications</li> <li>(Minimum Technical</li> <li>Specifications for</li> <li>Storage at</li> <li>DC/DRC/NDR)</li> <li>Point 9. All the</li> <li>storage drives and</li> <li>backend connectivity</li> <li>is required to be</li> <li>based on minimum 12</li> <li>Gbps SAS. Minimum 8</li> <li>x 12Gb/s backend</li> <li>ports to be provided.</li> </ul>	The physical backend ports vary across every OEM based on internal 12 Gb SAS LANE's inside each physical SAS port. Minimum 4 X 12 Gb/s are typical specifications with most of the OEM's hence requesting you to modify.	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion
173	73	ports to be provided.10.2Appendix 2:TechnicalSpecifications(Minimum TechnicalSpecifications forStorage atDC/DRC/NDR)Point 14. Biddershould proposeStorage for DataCentres - UsableCapacity DC- 250 TB ,DR 180 TB onmaximum 7.6TB SSDs.Once the FlashStorage Devicereaches the writeendurance limits or	The SSD/Flash module sizes vary across OEM's basis on their investment on R&D and the decision should be left to OEM to decide the best for achieving the required performance. Please extend the condition of maximum drive size to 20 TB. Also higher SSD/Flash drive will ensure low datacenter footprint saving both power/cooling.	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion

		service life, same needs to be			
174	12	Pre-Bid Meeting: Bidders, who have purchased the RFP document, will only be eligible to attend pre-bid meeting on a scheduled date.	Please also allow OEM to participate for prebid meeting/discussion	NA	Response /Clarificat ion
175	14	2. Eligibility Criteria: Bidder should have its own Support center in Mumbai/Navi Mumbai & Hyderabad for onsite, Telephonic and Remote Assistance Services	Please amended by adding Bidder/OEM should have its own Support center in Mumbai/Navi Mumbai & Hyderabad for onsite, Telephonic and Remote Assistance Services	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion
176	14	2. Eligibility Criteria: point 13.Bidder should have experience in supply, implementation and maintenance of DC & DRC Setup in at least one public sector bank/scheduled commercial bank in India with minimum 1000 branches with order value of minimum INR 10 cr of product & services	requesting bank to consider order value of minimum INR 4 cr of product & services	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion
177	64	8. payment terms	Requesting bank to amend the Terms to 90% on delivery and 10% on Installation and Sign Off.	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion
178	64	AMC Payment : Quarterly in arrears	Kindly amend the payment terms to Quarterly in Advance	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion
179	49	5.72 Penalty Clause	requesting bank to amend delivery delay clause to 1% to 0.1% and Maximum cap from 10% to 1%	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion
180	67	If any hardware component fails	requesting bank to amend the penalties to 0.1% of monthly product and services cost for every 4 hours of delay	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion
181	67	If any hardware component in High Availability (HA) mode fails	requesting bank to amend the penalties to 0.1% of monthly product and services cost for every 6 hours of delay	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion
182	68	For three (3) downtime occurrences within a stipulated time window of a calendar month	Kindly remove this panlty clause	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion
183	69	Down time for servicing	Requesting bank to amend this clause from 30 min to 2 hrs	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion

184	70	Bank expects the Bidder to complete scope of the project	requesting bank to amend clause to 1% to 0.1% and Maximum cap from 10% to 1%	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion
185		Other	Please let us know if Hardware is not installed within 60 days due to hold from bank for some reason.	There is no change in the requirement; the requirement stand as it is (as per RFP)	Response /Clarificat ion

[Prasoon Verma] Chief Manager-GAD

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