| Query Reference No | RFP Section (point number) | RFP Page Number | RFP Extract | Query Description | BCCB Response |
|---|---|---|---|---|---|
| 1 | 3.1 | 6 | Assist Bank team in configuration, as per Banks requirement. | Request Bank to share details of the what would be the success criteria for considering successful completion of Project for Firewall and LB Implementation | FireWall: 1)Success criteria will be ensure proper integration with existing firewall to work as a 2nd layer security. 2)DMZ setup for internet facing application should function and perform at Peak load. 3)VPN functionality. 4)Redundancy test should confirmed<br><br>LB: 1) Server loadbalancing test should go through. 2) Loadbalancing criteria's set should be successful. |
| 2 | 2. REQUEST FOR PROPOSAL | 6 | Optional Category C: Appliances - as mentioned in Annexure III • Database Appliance (for Oracle Database) | Please confirm the bank will provsion the Oracle License for DC and DR Site both. | Yes |
| 3 | 2. REQUEST FOR PROPOSAL | 6 | Optional Category C: Appliances - as mentioned in Annexure III • Database Appliance (for Oracle Database) | Please confirm wh will provision the managed servcies for Oracle databases, if yes, please share the number of physical / virtual databases bidder has to managed | Bidder will provision 3 VM's on each server 1 instant is RAC and other 2 will be active passive. |
| 4 | 2. REQUEST FOR PROPOSAL | 6 | Optional Category C: Appliances - as mentioned in Annexure III • Database Appliance (for Oracle Database) | Annexure III is missing from the BOQ, request you to please share the BOQ. | BOQ for appliance will be equivalent of Database servers and external Storage. We have left the brand and config choice with vendors. |
| 5 | 2. REQUEST FOR PROPOSAL | 6 | Optional Category D: Cloud Services - as mentioned in Annexure IV • Cloud computing for DR sizing with 100% capacity with option to scale down to optimize cost | As bank is opting an dedicated server, in that case scale up and scale down of resoucs has limitation and and charges will be fix for the entire period of contract due to bank is opting an dedicated servers | We were looking at option of scale up and scale down on resources of server to manage cost. If you are unable to provide scale up and scale down, you may quote your best prices for dedicated servers of DR sizing as per DR section of annexure 1. |
| 6 | 3.2Training & Knowledge Transfer | 7 | 3.2Training & Knowledge Transfer | Please confirm the bidder has to provide an training to number of resources and days. | 3 resources for 2-3 days |
| 7 | 3.1 | 7 | The Bidder shall deliver the hardware items complying with prescribed technical specifications along with necessary accessories, licenses and management software/ tool for status reporting and management of respective items. | Request Bank to clarify whether any OS licenses & Virtual hardware required for deploying the Solution components for management\reporting purpose will be provided by bank or the Bidder need to factor the same. | Bidder may factor the same, it's not factored in the RFP but we do have access resoucs available in the hardware which we may consider if the management tool requirements can be managed. |
| 8 | BROAD SCOPE OF WORK- 3.1Supply, Installation and Configuration | 7 | The bidder shall rack mount, install and configure and integrate the items and resolve issues, if any, with Bank's existing network viz. LAN/WAN/SAN etc. | Please let us know the existing setup details. Also want to know do we have to troublshoot any existing LAN/WAN/SAN setup issues | SOW is pertaining to new Setup. Entire Setup will be new and will not involve troubleshooting of old setup. Only if there is compatibility issue with say VLAN's or uplinks, that is when you will have to guide us on what is required to make it work. |
| 9 | 4 | 8 | ELIGIBILITY CRITERIA. General query about Lead Bidder and Consortium arrangement | 1. Kindly confirm if consortium bid is allowed and if we can use our implementation service provider reference and experts for the eligibility criteria's mentioned for fullfulying the experience criteria. 2. The scope of work being large, we request the bank to **allow consortium bid to tie up with Hardware OEM Partners** | Consortium bid is not allowed. Since the scope is large we have allowed vendors to quote only their specialized area of work. We will consider the best solution, excpectation is not that a single vendor should give full solution. |
| 10 | 4.1.5 | 8 | Channel partner bidding / participating in this RFP should be either Gold or Platinum certified. **Documents to be Submitted** Copy of certificate issued by the OEM | 1. We kindly request the bank to **allow Silver Level Partners** to also be eligibile to participate in the bid. 2. Also kindly request to revise the clause so that either of the lead bidder /System Integrator (SI) /Consortium partner to fullfill the eligibility criteria. | 1) Gold, Silver and authorised partners are now made eligible to participate. You will still have to provide OEM certificate of your level of partnership. 2) As mentioned in the earlier enquiry consortium are not allowed. |

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| 11 | 4.1 Minimum Eligibility Criteria | 8 | **Eligibility Criteria :**<br>Channel partner bidding / participating in this RFP should be either Gold or Platinum certified.<br>**Documents to be Submitted :**<br>Copy of certificate issued by the OEM. | Kindly consider MAF from OEM for this clause. | | Gold, Silver and authorised partners are now made eligible to participate. You will still have to provide OEM certificate of your level of partnership. |
| 12 | 4.1.8 | 9 | The Bidder should have average turnover of at-least INR 35 Cr. in the past 3 financial years i.e. 2018-19, 2019-20, and 2020-21. | **Request the bank to modify the clause as follows, to make sure only highly experienced and qualified vendors to participate in this tender.**<br>The Bidder should have average turnover of at-least INR 60 Cr. in the past 3 financial years i.e. 2018-19, 2019-20, and 2020-21. | | We have kept it low due to Covid periods in last 3 years which was approved by board. |
| 13 | 4.1.10 | 9 | The bidder should have at least one certified Engineer(s) having Certification on OEM technology of each Category of hardware being quoted and Engineer(s) should be stationed at DC / DR locations mentioned. | Kindly request to revise the clause so that either of the lead bidder /System Integrator (SI) /Consortium partner to fullfill the eligibility criteria. | | We expect the bidder to have certified engineers to be able to support in deployment and future support in long run. Since we don't allow consortium you can only quote for categories that you qualify. |
| 14 | 4.1.11 | 9 | The bidder should be offering the IT related Services as mentioned in this RFP, for minimum 3 years from the time of bidding. | Kindly request to revise the clause so that either of the lead bidder /System Integrator (SI) /Consortium partner to fullfill the eligibility criteria. | | Since we don't allow consortium you can only quote for categories that you qualify. |
| 15 | 4.1 Minimum Eligibility Criteria | 9 | The bidder should have at least one certified Engineer(s) having Certification on OEM technology of each Category of hardware being quoted and Engineer(s) should be stationed at DC / DR locations mentioned. | The bidder should have at least one Engineer(s) having relevent Certification and Engineer(s) should be stationed at DC / DR locations mentioned. | | This condition in case you are quoting cloud service, not required if you are providing just the hardware. |
| 16 | 6.9 Warranty Period | 9 | 6.9 Warranty Period | Request you to Kindly ammend this clause as "<br>The hardware and peripherals should be under on-site comprehensive warranty for a period of Five  years, from the date of successful installation at the respective DC/DR. Please note that the warranty will start only after complete and successful installation of equipment at the location. " | | No change required. |
| 17 | 6.8 Payment Terms and Conditions | 13 | 6.8 Payment Terms and Condition | Request you to Kindly ammend this clause as "<br>Bank's standard payment terms are only applicable as below.<br>• 50% Payment:<br>o Along with Purchase Order and submission of necessary documents.<br>• 40% payment:<br>o On delivery and verification of item.<br>o Submission delivery challans duly signed, stamped and dated by Bank officials.<br>• 10% payment:<br>o On completion of Installation & configuration of devices to new switches as per Scope of Work<br>and Submission of Installation certificate by the vendor duly signed, stamped and dated by the Bank officials. " | | Payment terms are as per the standard payment term of Bank and no change will be made. |
| 18 | 6.14 | 15 | | The Bidder should deliver the goods within Five Weeks from date of purchase order, at respective locations. <span style="color:red">Need to discussion on Delivery timeline</span> | | You may quote your delivery timelines and same can be discussed during negotiation round. |
| 19 | Delivery and Installation Schedule 6.14 | 15 | The Bidder should deliver the goods within Five Weeks from the date of purchase order,<br>at respective locations. | Please allow the delivery of the material to 18 to 20 weeks considering current pandemic suitation | | Can be discussed during negotiation round. |

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| 20 | Installation Schedule | 15 | The Bidder shall install the hardware/software; integrate with existing network (LAN/WAN/SAN); Showcase/ demonstrate the functionality as per acceptance test criteria within Two weeks from the date of delivery of the equipment at respective location | Please allow bidder 4 weeks for installation Also let us know if there is any migration involved | We are running with tight timelines to go live with the new CBS hence we need installation within two weeks. There is no migration required. |
| 21 | 6.14 | 15 | **6.14 Delivery and Installation Schedule** Delivery Schedule o The Bidder should deliver the goods within Five Weeks from the date of purchase order, at respective locations. | Request the bank to allow 12-16 weeks time to deliver the goods(Due to , which is the standard industry practice. | Can be discussed during negotiation round. |
| 22 | 6.14 | 15 | **6.14 Delivery and Installation Schedule** Installation Schedule o The Bidder shall install the hardware/software; integrate with existing network (LAN/WAN/SAN); Showcase/ demonstrate the functionality as per acceptance test criteria within Two weeks from the date of delivery of the equipment at respective location. | Request the bank to allow 4 weeks time from the date of delivery to finish the installation process, which is the standard industry practice. | We are running with tight timelines to go live with the new CBS hence we need installation within two weeks. We can provide more technical details to shortlisted vendors for them to prepare for installation before the equipment arrives. |
| 23 | 6.15 Incident Response and Support Methodology and SLA | 16 | Incident Response and Support Methodology and SLA | Please provide the detail SLA like response time etc Office hours need to mention | Response time: Severity level 1: ASAP within one hour. Severity level 2: 4 hours Severity level 3: Same day. Office hours are from 9:00am to 8:00pm having 2 shifts of employees. |
| 24 | 8.10. | 21 | **Implementation Penalty** In case, Bidder has not implemented the solution within the stipulated timelines, the bidder shall be liable to pay a penalty of equivalent to 1% (one percent) of the service cost for every week of delay or part thereof. | Request the bank to consider levying penalty at the rate of 0.5% of the implementation cost for every week or part therof and keep a maximum ceiling of 10% of the total implementation cost in the purchase order. | We are ok with a maximum ceiling of 10% of the total implementation cost in the purchase order. A penalty of equivalent to 1% (one percent) of the service cost for every week of delay remains same. |
| 25 | 10.1 Annexure 1: Technical Specification: Category A - Servers | 30 | SSD 30TB usable RAID 5+1 | Please let us know the type of the storage NAS/SAN or unified | SAN with dual controller and FC switch |
| 26 | 10.1 Annexure 1: Technical Specification: Category A - Servers | 28 | Operating System | Do we have to provide the Oracle Enterprise Linux licneses? | Oralce Linux and virtualization platform KVM to be quoted. |
| 27 | 10.1 Annexure 1: Technical Specification: Category A - Servers | 28 | Operating System | Please let us know the Oracle version to verify the compatibility | Latest versions available of Oracle Linux and KVM |
| 28 | 10.1 Annexure 1: Technical Specification: Category A - Servers | 28 | 1 TB Usable SSD Storage (Mirror) | We can provide you 900gb usable SSD storage using 480GB x3 drives please let us now if it is ok otherwise we have to provide 960GB x3 disk | 960GB x 2 mirrored will do. |
| 29 | 10.1 | 28 | 10.1 Annexure 1: Technical Specification: Category A - Servers - Primary Site | Please confirm the Database servers needs to be virtualized, if yes, please share the number of Virtual Machines is going to be created. | 3 VM on each of the 2 database servers. 1 set will be Oracle RAC and other two in Active Passsive mode. |
| 30 | 10.1 | 28 | 10.1 Annexure 1: Technical Specification: Category A - Servers - Primary Site | Please confirm the Application servers needs to be virtualized, if yes, please share the number of Virtual Machines is going to be created. | 4 VM's on each application server. |
| 31 | 10.1 | 28 | Ethernet Adapter | Speed of Ethernet Adapter Port | 10 G for Database Server and 1G for Application/Front End/Reporting Server |
| 32 | 10.1 | 29 | 10.1 Annexure 1: Technical Specification: Category A - Servers - Primary Site | Please confirm the frontend servers needs to be virtualized, if yes, please share the number of Virtual Machines is going to be created. | 2 Vm's |

| 33 | 10.1 | 29 | 10.1 Annexure 1: Technical Specification: Category A - Servers - Primary Site | Please confirm the Reporting servers needs to be virtualized, if yes, please share the number of Virtual Machines is going to be created. | 3 Vm's |
|---|---|---|---|---|---|
| 34 | 10.1 | 30 | 10.1 Annexure 1: Technical Specification: Category A - Servers - DR Site | Please confirm the Database servers needs to be virtualized, if yes, please share the number of Virtual Machines is going to be created. | 3 VM on each of the 2 database servers. 1 set will be Oracle RAC and other two in Active Passsive mode. |
| 35 | 10.1 | 30 | 10.1 Annexure 1: Technical Specification: Category A - Servers - DR Site | Please confirm the Application servers needs to be virtualized, if yes, please share the number of Virtual Machines is going to be created. | 4 VM's |
| 36 | 10.1 | 31 | 10.1 Annexure 1: Technical Specification: Category A - Servers - DR Site | Please confirm the frontend servers needs to be virtualized, if yes, please share the number of Virtual Machines is going to be created. | 2 Vm's |
| 37 | 10.1 | 31 | 10.1 Annexure 1: Technical Specification: Category A - Servers - DR Site | Please confirm the Reporting servers needs to be virtualized, if yes, please share the number of Virtual Machines is going to be created. | 3 Vm's |
| 38 | 10.1 | 31 | 10.1 Annexure 1: Technical Specification: Category A - Servers | Please confirm the bidder has to consider the FC HBA in stand alone mode or in redundancy mode | Redundant mode, you may quote single port 16GB HBA Qty 2 |
| 39 | 10.1 | 31 | 10.2 Annexure 2: Technical Specification: Category B: Network Devices | Please confirm the bidder has to consider the Server to server connectivty on bidders shared switches or bidder has to provide an dedicated switches. | Bidder has requested for switch quote for DR as per Annexure 2. DC will remain in existing Data Center which is Infra ready. |
| 40 | 10.1 | 31 | 10.2 Annexure 2: Technical Specification: Category B: Network Devices | Please confirm the bidder has to provide an backup on service model in shared services | No need of backup services. |
| 41 | 10.1 | 31 | 10.2 Annexure 2: Technical Specification: Category B: Network Devices | Please confirm the number of cross connect bidder has to provision | 8 cross connects will be required. NPCI x 2, IDRBTx 2, Internet B/Wx 2, MPLS x 2 |
| 42 | 10.1 | 31 | 10.2 Annexure 2: Technical Specification: Category B: Network Devices | Please confirm the number of public IP bidder has to provision | 4 Public IP |
| 43 | 10.1 | 31 | 10.2 Annexure 2: Technical Specification: Category B: Network Devices | Please confirm the bidder has to provision any EMS / NMS tool for monitoring the infrastructire | Not required |
| 44 | 10.1 | 31 | 10.2 Annexure 2: Technical Specification: Category B: Network Devices | Please confirm the number of DR Drills bidder has to consider | 2 per year |
| 45 | 10.1 | 31 | 10.2 Annexure 2: Technical Specification: Category B: Network Devices | Please confirm the RPO and RTO time lines | RPO 10 minutes RTO 60 minutes |
| 46 | 10.1 | 32 | SSD 30TB usable RAID 5+1 | Request you to specify performance requirement in terms of IOPS, Block size, RW ratio, FC port speed,This information will help vendors to configure appropriate storage model. | TPS--------------200 IOPS-------------to be suggested for TPS of 200 Block size--------64k RW ratio--------7:3 FC port speed--16GB |
| 47 | 10.1 | 32 | SSD 30TB usable RAID 5+1 | While configuring storage for critical applications, it is recommended to configure storage with the highest drive failure tollerent RAID. RAID6 shall give you 2 drive failure tollrence againt RAID 5 which gives a single drive tollerence. Requesting you to change this clause to RAID 6 configuration. | We would prefer 10TB in RAID10 for DB Rest 20TB in RAID 5 |
| 48 | 10.1 | 32 | 8/24 Port SAN Switch with GBICS and fibre cables. | Requesting you to specify required no of acitve ports alongs with SFP speed | 10 Active Ports with SFP speed of 16GB |
| 49 | 10.1 | 32 | Storage SSD 30TB usable RAID 5+1 | Type of SSD for SAN Storage | SAS SSD |
| 50 | Annexure 10.2 | 32 | Technical Specifications | Please let us know if any specific requirement on the +SFP ports | Not Required |
| 51 | Annexure 10.2 | 32 | Technical Specifications | As per the RFP ask, we don't need to consider the LB solution for DR location. Please let us know if any change to this requirement | No Changes |

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| 52 | 10.3 , 10.4 | 33 | Annexure 3: **Technical Specification: Optional Category C: Appliances** Bidder can propose Database Appliance with identical or equivalent configuration to Category A for DC and DR database servers and storage. and<br> Annexure 4: **Technical Specification: Optional Category D: Cloud Services** Bidder may propose Cloud services with option of scaling up and scaling down to optimize billing. | Kindly suggest us on the Annexure 3- We need to separate the Database Hardware requirements and provide equivalent Oracle Database Appliance solution and costing is expected for both Production and DR, where the application servers will be hosted on the Servers.<br>Similarly on the Annexure 4- It is expected only the DR - Both Database and application servers to be hosted on the Cloud platform (OCI) with no other instances running on the DR environment hosted. | The Appliance will eleminate Database servers and Storage from Category A for DC and DR. You can quote Appliance as optional, bank will decide weather to go for appliance or server-storage combination.<br><br>DR on cloud is an option we are considering, we have invited bids and will work out DR ROI based on scale up Scale down capability of cloud. The cloud will have same infra as mentioned in DR portion of Category A. You may size the DR infra as is mentioned in DR requirement. |
| 53 | 10.15 | 40 | **Scope of Work for Hardware and Peripherals**<br>Before formatting/resetting, backup of data and restoration of data/configuration after OS/Firmware installation is bidder's responsibility | We are assuming the required Backup infrastructure needed for maintainting the Database, applications and Virtual platform backup images/copies with retention already in place, if not need clarification on the required Hardware & Software to be proposed in BOM | We already have backup infra in place and no need to quote for any backup solution/infra. |
| 54 | 10.16 | 40 | Manufacturer Authorization Form<br>Provisioning the MAF from the OEM, to the Bank with authorised Signatory | 1. Need clarity whether the OEM can give in the name of Hardware reseller instead of lead bidder (However the reseller will be part of the consortium who will do the implementation)<br>2. Need clarity on the Category C & D, for getting the OEM certificate from Oracle for Database Appliances and Cloud Services. | 1) Authorised Hardware reseller can quote a specific single category as consortium is not allowed.<br><br>2) The products to be deployed on Database appliances or Cloud should be certified for the products.<br>*We are using Oracle DB RAC 19c hence the appliance should be certified for Oracle 19C RAC<br>*Flexcube CBS 11.8 certification for Cloud. |
| 55 | | | | Do we need to consider RACK for DC & DR location? | No |
| 56 | | | | Existing network switches connectivity (Copper or Fiber) | Copper |
| 57 | | | | Do we need to consider redundant Ethernet Cards in Servers? | Yes |
| 58 | | | | Existing Switch model information. | Cisco Nexus 9000 series |
| 59 | 10.1 | | | Do we need to consider SAN Switches | Yes alongwith the Storage |
| 60 | 10.1 | | | Please specify on Server processor (Single or Dual) | 24 Core Single proc Intel Xeon Gold 3rd Gen is preferred. |
| 61 | 10.1 | | | Specify HBA Dual port (16G or 32Gpbs) requirement? | 16GB single port qty 2 per server. |
| 62 | 10.1 | | | Do we need to consider redundant HBA Cards in Servers? | 16GB single port qty 2 per server. |
| 63 | Eligibilty Ctiteria | 8 | The bidder should be serving the DC and DR locations. Details of locations is mentioned in this RFP | Should the bidder service the DC /DR locations mentioned in RFP or the bidder can host and manage in his own DC ? | The current DC will continue to exist, you have option to propose your datacentre for DR |
| 64 | | 13 | The BCCB Head Office of the Bank is floating this tender. The Hardware being procured through this tender shall be installed and supported by the vendor getting the order at two locations: a. BCCB Data Centre (Primary Site) Navi Mumbai, Maharashtra. and b. BCCB Data Centre (DR Site) Bangalore / Hyderabad, India | please help with the location details . Please confirm if DR will hosted or on vendor cloud ? | Current DC is in Rabale Sify Data Center.<br>Vendor has option to propose DR on cloud. |
| 65 | | | The selected Bidder shall carry out site inspection prior to delivery and installation of the items and inform Bank on site readiness pre-requisites. • The Bidder shall deliver the hardware items complying with prescribed technical specifications along with necessary accessories, licenses and management software/ tool for status reporting and management of respective items. | Need clarification on the same. Is The bidder required to provide the management software for managing and reporting respective items? Who will be doing the management? Will BCCB be responsible for the management? | We have spare resources within the RFP hardware but the bidder should propose requirement for management tool for virtualization and LB and Firewall. |

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| 66 | Broad scope of work. | 7 | Server and network cable dressing / management has to be done as per Bank's standards. • Installation of OS and virtual platform should be done by the vendor as per Bank's requirement. • Prepare detailed architecture for implementation / Integration with existing BCCB infrastructure for entire solution. • Post installation, bidder should submit Configuration Document to Bank. • In case of Servers, vendor shall: o Upgrade latest firmware. o Install Operating System with latest service packs/ patches and monitoring tools as instructed by bank. o Create disk volumes/ partitions as per Bank's requirement. o Create partitions (virtual server) as per Bank's requirement. o Install latest version of Oracle Software & Database as decided by Bank. o Help the Bank in resolving any device drivers/ OS related issued encountered while deploying Oracle Database or any other software/ application by the Bank without any additional or further cost to Bank. • In case of Managed Switches, Load Balancers and Firewalls, vendor shall: o Mount the devices as per Bank's instructions. o Update to the latest firmware o Configure fault tolerance o Assist Bank team in configuration, as per Banks requirement. | Is the bidder supposed to provide all these activities at bank mentioned site or at the bidder's site ? | These activites are to be carried out at our existing DC. DR is yet to be decided, it could be with existing vendor site or could be new vendor. |
| 67 | Eligibilty Ctiteria | 8 | The bidder should be serving the DC and DR locations. Details of locations is mentioned in this RFP. List of support center along with contact details and declaration on serving Bank DC and DR locations. | Need clarification on the same, whose location, bidder's location or BCCP's location? | These activites are to be carried out at our existing DC. DR is yet to be decided, it could be with existing vendor site or could be new vendor. |

## Firewall and Load balancer queries

| Sr No | Discussion Points | Bank Response | Remarks |
|---|---|---|---|
| 1 | Is this a new requirement (Fresh Setup) | Fresh Setup | New Deployment in DMZ leg protecting the Banking applications exposed outside the Banks Perimeter, accessible to Employees & Consumers. |
| 2 | Existing Firewall setup | Fortinet | Existing Fortinet Appliance is DC400e |
| 3 | Any Preference for OEM | Tier 01 firewall vendors | |
| 4 | Connectivity Links | MPLS & Internet | 02 Links will be terminated on the Firewalls |
| 5 | No of users | 10000 | Including Bank Employees and Bank Consumers |
| 6 | Is Mail/Web/Application traffic passing or Critical inhouse application (Web Server, Mail, FTP,SAP) | Internet Banking Application (02) | |
| 7 | What's the Bandwidth growth expected in next 03 years | | |
| 8 | Type of interfaces require: | | |
| 9 | 1GE RJ45 (Copper) | | Copper |
| 10 | 1GE SFP | | |
| 11 | 10 GE SFP+ | | |
| 12 | 40GE | | |
| 13 | Is dual power supply is required as a norm incase when HA is considered | Can be optimized | The requirement is not mandatory and can be optimized considering the HA architecture |
| 14 | What all features will be enabled on the firewall | Access Rules, IPS | |
| 15 | Central management & Reporting is required ? | Yes | Customer will provide the underlying hardware |
| 16 | On the Load Balancer Side, is the requirement for LLB or SLB | SLB | The requirement is for Server Load Balancer for the application servers deployed in the DMZ leg |
| 17 | What would be the Implementation sign off criteria | Firewall and IPS rule configuration inline to Banks requirement supported out of the box | More detailed discussion might be required on same. |

| 18 | DR location ? | Customer need to confirm on the DR locations | Tentatively customer has mentioned either Hyderabad or Banglore location or on-cloud |
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| Load Balancer Sizing | | |
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| **Sr. No.** | **Questionaire** | **Bank Response** |
| 1 | What is the Max no. of concurrent approximate TCP connections that the LB will be expected to handle and approximate increase over the next 5 years | 8000 Sessions |
| 2 | What is the Max no. of concurrent HTTPS request the LB will be expected to handle and approximate increase over the next 5 years | 8000 Sessions |
| 3 | What is the max no. of concurrent L7 request the LB will be expected to handle and approximate increase over the next 5 years | 8000 Sessions |
| 4 | How many applications will the Load Balancer expected to host and approximate increase over the next 5 years | Current 3; expected growth in 5 years to 5 apps |
| 5 | What is the aggregrated throughput required and expected increase over the next 5 years | Current 250 Mbps; expected growth in 5 years to 1Gbps |
| 6 | What is the max number of Concurrent users and expected increase over the next 5 years | Current 600 Users; expected growth in 5 years to 1000 |
| 7 | Will the LB be expected to handle SSL encryption/decryption and if yes then the approximate SSL TPS required over the next 5 years | Current 100 TPS; expected growth in 5 years to 200TPS |
| 8 | Will the LB be expected to have a FIPS 140-2 complaint card preinstalled on it for regulatory requirments | No |
| 9 | What is the no . Of Gigabit Ethernet Ports,Gigabit Fibre Optic Ports and 10G ports required | 4 Nos 1G Ports |
| 10 | Will the LB be expected to have 40G ports installed on it | No |
| 11 | Will the LB be required to be deployed in HA (Active-Active/Active Standby) | HA |
| 12 | Virtualization Platform/Appliance | Both Options |
| 13 | Will the LB be required to have any additional features installed on it ( Web Application Firewall,SSL VPN,DataCenter Firewall,Global Server Load Balancing) | Server Load Balancer |

| Firewall Sizing | |
|---|---|
| **Sr. No.** | **Questionaire** | **Bank Response** |
| 1 | No of existing users | 1000 BCCB users |
| 2 | No of concurrent users | 3000 |
| 3 | Concurrent sessions on firewall | 20000 |
| 4 | Total No of 1G copper interfaces | 12-16 |
| 5 | No of additional users that would be added within 1 year or 2 years | 300 |
| 6 | Is there any external users who would access your network through this firewall. If yes, | Yes |
| 7 | No of external concurrent users who would access published applications through this firewall. | 600 |
| 8 | No of concurrent users who would access your network through this firewall. | 1000 |
| 9 | Is there any critical application which is running behind the firewall. If yes, please confirm the applications. | Yes/CBS |

| 10 | No of external users who would access the applications through VPN | 50 |
|----|---|---|
| 11 | No of concurrent users who would access the applications through this firewall. | 750 BCCB branch users |
| 12 | Bandwidth details – How many lines and size. | Current 60Mbps; growth in 3 years to 100Mbps |
| 13 | Is there any plan to increase the bandwidth in future | No |
| 14 | HA required- Y/N | Y |