



TAMIL NADU GRAMA BANK

RFP: TMD/9/2024-25 dated 26/11/2024

Amendments – 2 to RFP

SI No.	Section Details	Page No.	Type	Existing Clause	Amended Clause
1	3. Pre qualification Criteria of the Bidder Point No. 8	9	Amendment	The bidder should have successfully Installed and maintained VMware Private Cloud solution comprising components vRealize Operation, vRealize Automation, NSX with a minimum of 1000+ Virtual Machines deployed and managed at Customer's both DC and DR in Indian Market in the last 5 years for a minimum of 1 PSU Bank or Scheduled Commercial Bank or NBFC or Insurance Company or PSU or Government Organization in India or Private Organization in India. Multiple purchase orders from the same customers during the period will be accepted. Documents complying the above criteria with numbers need to be submitted as a proof for the compliance.	The bidder should have successfully Installed and maintained VMware Private Cloud solution comprising components vRealize Operation, vRealize Automation, NSX with a minimum of 1000+ Virtual Machines deployed and managed at Customer's both DC and DR in Indian Market in the last five financial years for a minimum of 1 PSU Bank or Scheduled Commercial Bank or NBFC or Insurance Company or PSU or Government Organization in India or Private Organization in India. (A maximum of three purchase orders per customer, from two customers, will be accepted). Documents complying the above criteria with numbers need to be submitted as a proof for the compliance.
2	3. Pre qualification Criteria of the Bidder Point No.10	9	Amendment	The bidder should have supplied and managed micro-segmentation in a VMware Private Cloud with a minimum deployment of 3500+ physical cores managed at Customer's both DC and DR in Indian Market in the last 5 years for a minimum of 1 PSU Bank or Scheduled Commercial Bank or NBFC or Insurance Company or PSU or Government Organization or Private Organization in India. Multiple purchase orders from the same customers during the period will be accepted. Documents complying the above criteria with numbers need to be submitted as a proof for the compliance.	The bidder should have supplied and managed NSx or NSX with micro-segmentation in a VMware Private Cloud with a minimum deployment of 3500+ physical cores managed at Customer's both DC and DR in Indian Market in the last five financial years for a minimum of 1 PSU Bank or Scheduled Commercial Bank or NBFC or Insurance Company or PSU or Government Organization or Private Organization in India. (A maximum of three purchase orders per customer, from two customers, will be accepted). Documents complying the above criteria with numbers need to be submitted as a proof for the compliance.



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3	3.Pre-Qualification criteria of the bidder- Point 9	9	Amendment	<p>The bidder should have supplied at least 2 full-time resident engineers supporting VMware Private Cloud solutions comprising components like vRealize Operation, vRealize Automation, NSX with a minimum of 1000+ Virtual Machines deployed and managed at Customer's DC and DR in Indian Market in the last 5 years for a minimum of 2 PSU Bank or Scheduled Commercial Bank, NBFC, Insurance Company, PSU, Private Organization in India. Documents complying the above criteria with numbers need to be submitted as a proof for the compliance.</p>	<p>The bidder should have supplied at least two full-time resident engineers supporting VMware Private Cloud solution comprising components vRealize Operation, vRealize Automation, NSX with a minimum of 1000+ Virtual Machines deployed and managed at Customer's both DC and DR in Indian Market in the last five financial years for a minimum of 1 PSU Bank or Scheduled Commercial Bank or NBFC or Insurance Company or PSU or Government Organization in India or Private Organization in India. Documents complying the above criteria with numbers need to be submitted as a proof for the compliance.</p>
4	3. Pre qualification Criteria of the Bidder Point No. 14	10	Amendment	<p>The bidder should have successfully supplied minimum 50 Servers (Rack server or Blade servers) and its associated software deployed at Customer's DC and DR in India in the last 5 years for a minimum of 2 PSU Bank or Scheduled Commercial Bank or NBFC or Insurance Company or PSU or Private Organization in India. Documents complying the above criteria with numbers need to be submitted as a proof for the compliance.</p>	<p>The bidder should have successfully supplied minimum 50 Servers (cumulative of Rack server and Blade servers) and its associated software deployed at Customer's both DC and DR in India in the last five financial years for a minimum of 1 PSU Bank or Scheduled Commercial Bank or NBFC or Insurance Company or PSU or Government Organization in India or Private Organization in India. Documents complying the above criteria with numbers need to be submitted as a proof for the compliance.</p>
5	5. DELIVERY TIMELINE	50	Amendment	<p><u>Hardware:</u> Hardware along with necessary accessories should be delivered within six to seven (6-7) weeks from the date of purchase order at all the specified locations.</p>	<p><u>Hardware:</u> Hardware along with necessary accessories should be delivered within eight weeks from the date of purchase order at all the specified locations.</p>
6	5. DELIVERY TIMELINE	50	Amendment	<p><u>Implementation:</u> Installation, configuration, integration of all the devices and go live of complete solution as per the requirement of the Bank to be completed within eleven (11) weeks from the date of Purchase Order.</p>	<p><u>Implementation:</u> Installation, configuration, integration of all the devices and go live of complete solution as per the requirement of the Bank to be completed within twelve (12) weeks from the date of Purchase Order.</p>



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7	2.RACK SERVER (2x16) – Server Type 2 Point No. 4	57	Amendment	<p><u>Processor:</u> Each server must be provided with minimum 2 latest Intel Xeon platinum processors (Emerald Rapid) or higher, each having 16 Cores with clock speed atleast 2.8 GHz or equivalent or higher.</p>	<p><u>Processor:</u> Each server must be provided with minimum 2 latest Intel Xeon Gold processors (Emerald Rapid) or higher, each having 16 Cores with clock speed atleast 2.8 GHz or equivalent or higher.</p>
8	1. BLADE SERVER (2 x 32) – Server Type 3 Point No. 14	63	Amendment	<p><u>Secure Encryption:</u> System should support Encryption of the data on both the internal storage and cache module of the array controllers using encryption keys. Should support local key management for single server and remote key management for central management for enterprisewide data encryption deployment.</p>	<p><u>Secure Encryption:</u> System should support Encryption of the data using either Hardware or Software based encryption if hardware encryption is feasible it should be on both the internal storage and cache module of the array controllers using encryption keys. If it is software based similar functionality should be preserved. Should support local/remote key management for central management for enterprisewide data encryption deployment.</p>
9	1. BLADE SERVER (2 x 32) – Server Type 3 Point No. 17	63	Amendment	<p><u>Expansion Slots:</u> Minimum of 3 Nos * 16 PCIe 5.0 based mezzanine slots supporting Converged Ethernet, Ethernet, FC adapters and SAS adaptors.</p>	<p><u>Expansion Slots:</u> Minimum of 3 Nos * 16 PCIe 5.0 based mezzanine slots supporting Converged Ethernet/Ethernet/ FC adapters/SAS adaptors with sufficient number of ports supporting all the above.</p>
10	4. BLADE ENCLOSURE Point No. 4	67	Amendment	<p><u>Interconnects:</u> Should support housing of FCoE, Ethernet, FC and SAS interconnect fabrics offering hot pluggable and redundancy as a feature.</p>	<p><u>Interconnects:</u> Should support housing of FCoE/ Ethernet/ FC/ SAS interconnect fabrics offering hot pluggable and redundancy as a feature.</p>
11	6. Enterprise Class SAN Switch	75	Amendment	<p>Each SAN switch, equipped with a minimum of 64 ports, shall be configured with 48 ports populated with 32 Gbit/sec FC SFPs, and the remaining 16 ports shall be populated with 64 Gbit/sec FC SFPs, without the use of split SFPs. All ports must operate independently, ensuring no single point of failure across any port.</p>	<p>Each SAN switch, equipped with a minimum of 64 ports, shall be configured with 48 ports populated with 32 Gbit/sec FC SFPs, and the remaining 16 ports shall be populated with 64 Gbit/sec FC SFPs and all ports must operate independently, ensuring no single point of failure across any port.</p>



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12	6. Enterprise Class SAN Switch	75	Amendment	Should deliver 32 Gbit/Sec Non-blocking architecture with 1:1 performance for up to 48 ports in a energy-efficient fashion and shall support 64 Gbit/Sec Nonblocking architecture with 1:1 performance for the additional 16 ports without the use of port splitter SFP's.	Should deliver 32 Gbit/Sec Non-blocking architecture with 1:1 performance for up to 48 ports in a energy-efficient fashion and shall support 64 Gbit/Sec Non-blocking architecture with 1:1 performance for the additional 16 ports.
13	Tape Library	77	Amendment	Offered Library shall be provided with a hardware device like USB key, separate appliance etc. to keep all the encrypted keys in a redundant fashion.	Offered Library should support encryption.



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Clarifications – 2 to RFP

SI No.	RFP Clause	Existing Clause	Query/Representation received	Bank's response
1	1. BLADE SERVER (2 x 32) – Server Type 3 - 14 Security	System should support Encryption of the data on both the internal storage and cache module of the array controllers using encryption keys. Should support local key management for single server and remote key management for central management for enterprisewide data encryption deployment.	Request bank to modify this clause. "System should support Encryption of the data. Should support remote key management for central management for enterprise wide data encryption deployment. "	Refer Amendment
2	1. BLADE SERVER (2 x 32) – Server Type 3 - 17 Expansion Slots	Minimum of 3 Nos * 16 PCIe 5.0 based mezzanine slots supporting Converged Ethernet, Ethernet, FC adapters and SAS adaptors.	Minimum of 3 Nos * 16 PCIe 5.0 based mezzanine or Internal slots supporting Converged Ethernet/ Ethernet/FC adapters or	Refer Amendment
3	1. BLADE SERVER (2 x 32) – Server Type 3 - 19 Blade Chassis	The Blade servers should be populated across minimum 2 Blade chassis in each DC to offer Chassis level redundancy and atleast 2 blade slot must be free in each chassis after populating all the required blade servers.	The Blade servers should be populated across minimum 2 Blade chassis in each DC to offer Chassis level redundancy and atleast 1 blade slot must be free in each chassis after populating all the required blade servers.	Adhere to the RFP
4	1. BLADE ENCLOSURE - 4 Interconnects	Should support housing of FCoE, Ethernet, FC and SAS interconnect fabrics offering hot pluggable and redundancy as a feature	Should support housing of FCoE/ Ethernet/FC/ SAS interconnect fabrics offering hot pluggable and redundancy as a feature.	Refer Amendment
5	6 Enterprise Class SAN Switch - 5	Switch should support multiprotocol architecture such as FC, FCIP and FCR	Switch should support multiprotocol architecture such as FC and FCR	Adhere to the RFP
6	6 Enterprise Class SAN Switch - 9	Offered SAN Switch shall support less than 460 nano second for port to port latency with no contention.	Offered SAN Switch shall support less than 2 micro second for port to port latency with no contention.	Adhere to the RFP
7	6 Enterprise Class SAN Switch - 29	The proposed SAN Switch must be compatible with the existing SAN model available with Bank (SN3000B) for communication over ISL protocol.	The proposed SAN Switch must be compatible with the existing SAN model available with Bank (SN3000B) for communication over ISL protocol. Or OEM must consider replacing with compatible SAN Infra.	Adhere to the RFP



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8	DELIVERY TIMELINE	Hardware along with the required accessories should be delivered within Six (6) Weeks from the date of Purchase Order at all the specified locations.	Hardware along with the required accessories should be delivered within Ten (10) Weeks from the date of Purchase Order at all the specified locations.	Refer Amendment
9	3. PRE-QUALIFICATION CRITERIA OF THE BIDDER , S.L No .12	The bidder should have OEM certified engineers on their payroll,with at least three Red Hat Certified Engineers (RHCE). Documents complying the above criteria with numbers need to be submitted as a proof for the compliance. with at least 5 Red Hat Certified Engineers (RHCE). Documents complying the above criteria with numbers need to be submitted as a proof for the compliance.	We request bank team amend this cluse as follows "The bidder should have OEM certified engineers on their payroll, with at least 2 Red Hat Certified Engineers (RHCE) and additionally 5 Red Hat certified Systems Administrator (RHCSA)	Adhere to the RFP
10	server type-4 (Rack server - vSAN ready Nodes (2X32)	Server type-4 (Rack server - vSAN ready Nodes (2X32)	Please consider or allow blade for vSAN ready node server type.	Adhere to the RFP
11	3.Pre-Qualification criteria of the bidder- Point 9	The bidder should have supplied at least 2 full-time resident engineers supporting VMware Private Cloud solutions comprising components like vRealize Operation, vRealize Automation, NSX with a minimum of 1000+ Virtual Machines deployed and managed at Customer's DC and DR in Indian Market in the last 5 years for a minimum of 2 PSU Bank or Scheduled Commercial Bank, NBFC, Insurance Company, PSU, Private Organization in India. Documents complying the above criteria with numbers need to be submitted as a proof for the compliance.	<p>Requesting TNGB to consider the following request :The bidder should have supplied at least 2 full-time resident engineers supporting VMware Private Cloud solutions comprising components like vRealize Operation, vRealize Automation, NSX with a minimum of 1000+ Virtual Machines deployed and managed at Customer's DC and DR in Indian Market in the last 5 years for a minimum of 1 PSU Bank or Scheduled Commercial Bank, NBFC, Insurance Company, PSU, Private Organization in India. Documents complying the above criteria with numbers need to be submitted as a proof for the compliance.</p> <p><u>Remarks:</u> We raised this query before and in the following updated corrigendum it is mentioned as refer amendment, but this point is not reflected in amendment. So, Kindly requesting bank to</p>	Refer Amendment



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12	Technical and Functional specifications - 2. RACK SERVER (2x16) – Server Type 2-Point -4	Processor-Each server must be provided with minimum 2 latest Intel Xeon platinum processors (Emerald Rapid) or higher, each having 16 Cores with clock speed atleast 2.8 GHz or equivalent or higher.	<p>Requesting TNGB to consider the following request : Each server must be provided with minimum 2 latest Intel Xeon Gold processors (Emerald Rapid) or higher, each having 16 cores with clock speed atleast 2.8GHz or equivalent or higher."</p> <p><u>Remarks:</u> Intel 16 core doesn't come in platinum, it comes in Gold only. Requesting bank to change the following request</p>	Refer Amendment
13	3. Pre qualification Criteria of the Bidder Point No. 8	The bidder should have successfully Installed and maintained VMware Private Cloud solution comprising components v Realize Operation, v Realize Automation, NSX with a minimum of 1000+ Virtual Machines deployed and managed at Customer's both DC and DR in Indian Market in the last 5 years for a minimum of 1 PSU Bank or Scheduled Commercial Bank or NBFC or Insurance Company or PSU or Government Organization in India or Private Organization in India. Multiple purchase orders from the same customers during the period will be accepted. Documents complying the above criteria with numbers need to be submitted as a proof for the compliance.	Request TNBG to amend the clause: we have 2 customer reference in VCF with nsx where the total vm count is cumulative of 400+ Virtual Machines deployed and managed at Customer's both DC and DR in Indian Market in the last 6 years for 2 PSU Bank or Scheduled Commercial Bank or NBFC or Insurance Company or PSU or Government Organization in India or Private Organization in India.. Documents complying the above criteria with numbers need to be submitted as a proof for the compliance	Refer Amendment



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14	3. Pre qualification Criteria of the Bidder	The bidder should have supplied at least 2 full-time resident engineers supporting VMware Private Cloud solutions comprising components like vRealize Operation, vRealize Automation, NSX with a minimum of 1000+ Virtual Machines deployed and managed at Customer's DC and DR in Indian Market in the last 5 years for a minimum of 2 PSU Bank or Scheduled Commercial Bank, NBFC, Insurance Company, PSU, Private Organization in India. Documents complying the above criteria with numbers need to be submitted as a proof for the compliance.	Request Bank to amend the clause : We have 2 customer reference that 2 full-time resident engineers supporting VMware Private Cloud solutions comprising components like vRealize Operation, vRealize Automation, NSX with a minimum of 400+ Virtual Machines deployed and managed at Customer's DC and DR in Indian Market in the last 6 years for a minimum of 2 PSU Bank or Scheduled Commercial Bank, NBFC, Insurance Company, PSU, Private Organization in India. Documents complying the above criteria with numbers need to be submitted as a proof for the compliance.	Refer Amendment
15	Pre qualification Criteria of the Bidder	The bidder should have supplied and managed microsegmentation in a VMware Private Cloud with a minimum deployment of 3500+ physical cores managed at Customer's both DC and DR in Indian Market in the last 5 years for a minimum of 1 PSU Bank or Scheduled Commercial Bank or NBFC or Insurance Company or PSU or Government Organization or Private Organization in India. Multiple purchase orders from the same customers during the period will be accepted. Documents complying the above criteria with numbers need to be submitted as a proof for the compliance.	Request Bank to amend the clause : We have 2 customer reference supplied and managed microsegmentation in a VMware Private Cloud with cumulative of minimum deployment of 3000+ physical cores managed at Customer's both DC and DR in Indian Market in the last 6 years of PSU Bank or Scheduled Commercial Bank or NBFC or Insurance Company or PSU or Government Organization or Private Organization in India. Multiple purchase orders from the same customers during the period will be accepted. Documents complying the above criteria with numbers need to be	Refer Amendment
16	Page 72, BLADE SERVER (2 x 32) – Server Type 3 - 14 Security	System should support Encryption of the data on both the internal storage and cache module of the array controllers using encryption keys. Should support local key management for single server and remote key management for central management for enterprisewide data encryption deployment.	Request bank to modify this clause. System should support Encryption of the data. Should support remote key management for central management for enterprise wide data encryption deployment	Refer Amendment



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17	Page 72, BLADE SERVER (2 x 32) – Server Type 3 - 17 Expansion Slots	Minimum of 3 Nos * 16 PCIe 5.0 based mezzanine slots supporting Converged Ethernet, Ethernet, FC adapters and SAS adaptors	<p>Minimum of 3 Nos * 16 PCIe 5.0 based mezzanine or Internal slots supporting Converged Ethernet/ Ethernet/FC adapters or SAS adaptors.</p> <p>We follow converged Architecture between blade to FI.hence request to modify this point as</p>	Refer Amendment
18	Page 76, BLADE ENCLOSURE - 4 Interconnects	Should support housing of FCoE, Ethernet, FC and SAS interconnect fabrics offering hot pluggable and redundancy as a feature	<p>Should support housing of FCoE/ Ethernet/FC/ SAS interconnect fabrics offering hot pluggable and redundancy as a featur</p> <p>Request bank to consider as Every OEM Blade Archietcure is different , Cisco Uses Converged Ethernet Architetcure and request to change this specification for us to comply and participate in the RFP</p>	Refer Amendment
19	Page 86, Enterprise Class SAN Switch - 5	Switch should support multiprotocol architecture such as FC, FCIP and FCR	<p>Switch should support multiprotocol architecture such as FC and FCR</p> <p>Request Bank to remove FCIP as need ethernet in place.</p>	Adhere to the RFP
20	Page 87, Enterprise Class SAN Switch - 9	Offered SAN Switch shall support less than 460 nano second for port to port latency with no contention.	<p>Offered SAN Switch shall support less than 2 micro second for port to port latency with no contention.</p> <p>Request bank to consider the benefit of below :Brocade doesnot support error free forwarding,as they only read header for data forward.Cisco SAN switches support error free</p>	Adhere to the RFP
21	Page 88, Enterprise Class SAN Switch - 29	The proposed SAN Switch must be compatible with the existing SAN model available with Bank (SN3000B) for communication over ISL protocol.	<p>SN3000B is going end of Life in next few months . Compatilbty with this exsiting switch gives advantage to exsiting OEM . We request bank to give an competitive opportunity for cisco SAN switch as well to get a better commercials.</p>	Adhere to the RFP



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22	3. PRE-QUALIFICATION CRITERIA OF THE BIDDER, Sr. No. 10	The bidder should have supplied and managed microsegmentation in a VMware Private Cloud with a minimum deployment of 4500+ cores managed at Customer's DC and DR in India in the last 5 years for a minimum of 2 PSU Bank or Scheduled Commercial Bank or NBFC or Insurance Company or PSU or Private Organization in India. Documents complying the above criteria with numbers need to be submitted as a proof for the compliance	Please change the clause to "The bidder should have supplied and managed microsegmentation or NSX in a VMware Private Cloud with a minimum deployment of 3500+ cores managed at Customer's DC and DR in India in the last 5 years for a minimum of 2 PSU Bank or Scheduled Commercial Bank or NBFC or Insurance Company or PSU or Private Organization in India. Documents complying the above criteria with numbers need to be submitted as a proof for the compliance	Refer Amendment
23	3. PRE-QUALIFICATION CRITERIA OF THE BIDDER, Sr. No. 3	Bidder should have minimum average turnover of Rs.140 Cr. (Rupees One Hundred and Forty Crore only) in the last 3 financial	Please change the clause to "Bidder should have minimum average turnover of Rs.200 Cr. (Rupees One Hundred and Forty Crore only) in the last 3 financial".	No Change in RFP terms
24	3. Pre qualification Criteria of the BidderPoint No. 8	The bidder should have successfully Installed and maintained VMware Private Cloud solution comprising components v Realize Operation, v Realize Automation, NSX with a minimum of 1000+ Virtual Machines deployed and managed at Customer's both DC and DR in Indian Market in the last 5 years for a minimum of 1 PSU Bank or Scheduled Commercial Bank or NBFC or Insurance Company or PSU or Government Organization in India or Private Organization in India. Multiple purchase orders from the same customers during the period will be accepted. Documents complying the above criteria with numbers need to be submitted as a proof for the compliance.	Further to our prebid query raised and the corrigendum released by bank (TNGB) , we would request you to consider the below change, Multiple PO's from Multiple customers to meet the 1000+ virtual machines	Refer Amendment



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25	3. Pre qualification Criteria of the Bidder Point No. 9	The bidder should have supplied and managed micro-segmentation in a VMware Private Cloud with a minimum deployment of 3500+ physical cores managed at Customer's both DC and DR in Indian Market in the last 5 years for a minimum of 1 PSU Bank or Scheduled Commercial Bank or NBFC or Insurance Company or PSU or Government Organization or Private Organization in India. Multiple purchase orders from the same customers during the period will be accepted. Documents complying the above criteria with numbers need to be submitted as a proof for the	Further to our prebid query raised and the corrigendum released by bank (TNGB) , we would request you to consider the below change, Multiple PO's from Multiple customers to meet the 3500+ physical cores	Refer Amendment
26	TECHNICAL AND FUNCTIONAL SPECIFICATIONS Point 18- OS Support	OEM should provide certification for all the hardware on VMware Esxi 8.0 and higher versions as well as the latest supported versions of VCF versions. Also, the supplied hardware should support all interim version upgrades during the contract period. If hardware supplied by selected OEM is not compatible with VMware releases during the contract period, bidder need to replace hardware with compatible VMware ESXI and VCF without any additional cost to the Bank.	While we support VMware new versions which will be released, but the hardware compatibility depends on the licensing vendor code changes also. Only from hardware OEM we cannot commit supportability and take responsibility of replacing hardware.	Adhere to the RFP
27	Enterprise Class SAN Switch- 29	The proposed SAN Switch must be compatible with the existing SAN model available with Bank (SN3000B) for communication over ISL protocol.	The proposed SAN Switch must be compatible with the existing SAN model available with Bank (SN3000B) for communication over ISL protocol. Our SAN Switch support 32G & 64G FC protocol, there is no limitation on compatibility for connecting to other switch with 32G FC protocol. Request to take check with HP also if	Adhere to the RFP



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28	Tape Library	Offered Library shall be provided with a hardware device like USB key, separate appliance etc. to keep all the encrypted keys in a redundant fashion.	This is not part of Tape Library hence additional items required will be quoted separately.	Refer Amendment
29	Tape Library	All required software and licenses to run the full functionality of product should be provided by bidder with best level of warranty/support.	Tape Library support encryption but separate encryption software is needed.	Adhere to the RFP
30	RACK SERVER (2*32) – Server type 1	Ports: Minimum of 1 VGA/Video Port, 3 x USB 3.0 (1 -front, 1 - rear and 1- internal), 1GbE dedicated Management Ports	1 Front, 1 Rear, 1 Internal USB ports are provided, but Front USB will be USB 2.0. Request bank to consider.	Adhere to the RFP
31	RACK SERVER (2*32) – Server type 1	OS Support: OEM should provide certification for all the hardware on VMWare Esxi 8.0 and higher versions as well as the latest supported versions of VCF versions. Also, the supplied hardware should support all interim version upgrades during the contract period. If hardware supplied by selected OEM is not compatible with VMware releases during the contract period, bidder need to replace hardware with compatible VMware ESXI and VCF without any additional cost to the Bank.	Vmware version release is out of Server OEM scope. The frequency and type of Version change would be controlled by Broacom/Vmware. Request Bank to remove the following clause - "Also, the supplied hardware should support all interim version upgrades during the contract period. If hardware supplied by selected OEM is not compatible with VMware releases during the contract period, bidder need to replace hardware with compatible VMware ESXI and VCF without any additional cost to the Bank."	Adhere to the RFP
32	RACK SERVER (2*16) – Server type 2	Processor: Each server must be provided with minimum 2 latest Intel Xeon platinum processors (Emerald Rapid) or higher, each having 16 Cores with clock speed atleast 2.8 GHz or equivalent or higher.	There is no platinum processor for 16C, Request bank to change this to process to Gold	Refer Amendment
33	RACK SERVER (2*16) – Server type 2	Ports: Minimum of 1 VGA/Video Port, 3 x USB 3.0 (1 -front, 1 - rear and 1- internal), 1GbE dedicated Management Ports	1 Front, 1 Rear, 1 Internal USB ports are provided, but Front USB will be USB 2.0. Request bank to consider.	Adhere to the RFP



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34	RACK SERVER (2*16) – Server type 2	<p>OS Support: OEM should provide certification for all the hardware on VMWare Esxi 8.0 and higher versions as well as the latest supported versions of VCF versions. Also, the supplied hardware should support all interim version upgrades during the contract period. If hardware supplied by selected OEM is not compatible with VMware releases during the contract period, bidder need to replace hardware with compatible VMware ESXI and VCF without any additional cost to the Bank.</p>	<p>Vmware version release is out of Server OEM scope. The frequency and type of Version change would be controlled by Broadcom/Vmware. Request Bank to remove the following clause - <i>"Also, the supplied hardware should support all interim version upgrades during the contract period. If hardware supplied by selected OEM is not compatible with VMware releases during the contract period, bidder need to replace hardware with compatible VMware ESXI and VCF without any additional cost to the Bank."</i></p>	Adhere to the RFP
35	VSAN Ready Node (2x32) – Server Type 4	<p>SCSIC Controllers: Embedded / PCIe based RAID controller supporting minimum RAID 0,1, pass-through and support mix-and-match SAS,SATA, and NVMe drives to the same controller.Controller must support 6G SATA, 12G SAS, 16G NVMe.</p>	<p>In vSAN architecture storage drive are managed by vSAN and there is no role of RAID controller for both SSD/NVMe chassis. Can this be changed to H335i/H355 pass through controller for SAS/SATA chassis, In case of all NVMe chassis- NO RAID Controller.</p>	Adhere to the RFP
36	VSAN Ready Node (2x32) – Server Type 4	<p>Disk Drives: 1. The server should Support at least 12 hot pluggable drives SAS, SATA SSDs and NVMe or all NVMe disks The server must support two identical M.2 Drives SSDs of 240 GB. These drives should not consume the 12 drive slots. 2. The server must have 4*1.92TB SAS SSD in each server for capacity requirement. 3. The Server must have 2 x 800GB SSD or higher cache disk.</p>	<p>1. Option to have RAID pass through is with SAS/SATA chassis only, so request you to consider and remove NVMe along with SAS, SATA and NVMe together. In case of NVMe chassis please remove RAID controller/pass through completely as the NVMe drives are direct with no RAID. 2. In case of NVMe chassis, instead of SAS SSD drives will be of NVMe. Can this be changed to 4 * 1.92TB SAS SSD or 4 * 1.92TB NVMe 3. In case of NVMe chassis, instead of SAS SSD drives will be of NVMe. Can this be changed to 4 * 1.92TB SAS SSD or 4 * 1.92TB NVMe</p>	Adhere to the RFP



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37	VSAN Ready Node (2x32) – Server Type 4	Ports: Minimum of 1 VGA/Video Port, 3 x USB 3.0 (1 -front, 1 - rear and 1- internal), 1GbE dedicated Management Ports.	1 Front, 1 Rear, 1 Internal USB ports are provided, but Front USB will be USB 2.0. Request bank to consider.	Adhere to the RFP
38	VSAN Ready Node (2x32) – Server Type 4	OS Support: OEM should provide certification for all the hardware on VMWare Esxi 8.0 and higher versions as well as the latest supported versions of VCF versions. Also, the supplied hardware should support all interim version upgrades during the contract period. If hardware supplied by selected OEM is not compatible with VMware releases during the contract period, bidder need to replace hardware with compatible VMware ESXI and VCF without any additional cost to the Bank.	Vmware version release is out of Server OEM scope. The frequency and type of Version change would be controlled by Broacom/Vmware. Request Bank to remove the following clause - "Also, the supplied hardware should support all interim version upgrades during the contract period. If hardware supplied by selected OEM is not compatible with VMware releases during the contract period, bidder need to replace hardware with compatible VMware ESXI and VCF without any additional cost to the Bank."	Adhere to the RFP
39	4. Enterprise Class SAN Switch	Each SAN switch, equipped with a minimum of 64 ports, shall be configured with 48 ports populated with 32 Gbit/sec FC SFPs, and the remaining 16 ports shall be populated with 64 Gbit/sec FC SFPs, without the use of split SFPs. All ports must operate independently, ensuring no single point of failure across any port	For using 64 port model which support exiting SAN switch with 8/16 Gbps, request bank to remove "the remaining 16 ports shall be populated with 64 Gbit/sec FC SFPs, without the use of split SFPs. All ports must operate independently, ensuring no single point of failure across any port"	Refer Amendment
40	4. Enterprise Class SAN Switch	Should deliver 32 Gbit/Sec Non-blocking architecture with 1:1 performance for up to 48 ports in a energy-efficient fashion and shall support 64 Gbit/Sec Non-blocking architecture with 1:1 performance for the additional 16 ports	For not using splitter SFP's, 128 port model to be used and populate 72 ports license, request bank to remove clause "shall support 64 Gbit/Sec Nonblocking architecture with 1:1 performance for the additional 16 ports without the use of port splitter SFP's".	Refer Amendment



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41	4. Enterprise Class SAN Switch	Switch should support multiprotocol architecture such as FC, FCIP and FCR	SAN switches are not intended to work on FCIP directly but the data transmission on IP will be through network switch over TCP/IP. Request bank to consider	Adhere to the RFP
42	Tape Library	Tape Drive Architecture in the Library shall conform to the INCITS T10 standard ADI Protocol or newer standards.	These protocols looks more specific to vendor and not open standard. Request bank to change this to TCP/IP protocol	Adhere to the RFP
43	Tape Library	Offered Library shall be provided with a hardware device like USB key, separate appliance etc. to keep all the encrypted keys in a redundant fashion.	<i>Request carification from Bank on what is the functionality needed here? Will bank be providing encryption key management tool?</i>	Refer Amendment
44	Technical and Functional specifications - Point -23	End of Life: The proposed Hardware and Software generation should be latest from the date of RFP submission and the proposed Hardware and Software should not become End of Sales for two years from the date of the submission of the RFP and End of Support for 7 years from the date of the submission of the RFP.	End of Life: The proposed Hardware and Software generation should be latest from the date of RFP submission and the proposed Hardware and Software should not become End of Sales for One year from the date of the submission of the RFP and End of Support for 7 years from the date of the submission of the RFP.	Adhere to the RFP