

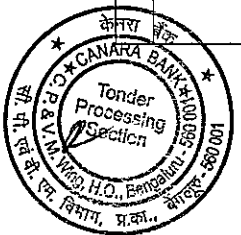
**Pre Bid Replies for GeM Bid ref no. GEM/2024/B/5538001 dated 23/10/2024 for Selection of Supply, Installation, Configuration, Implementation and Maintenance of 40 nos. of servers and related IT infra components for Data Lakehouse and existing Analytical Setup in Canara Bank with three years comprehensive warranty and two years AMC**

Sl. No.	Page No.	Section/ Annexure/ Appendix	RFP Clause	Sub-Clause/ Technical Specification	Bidder's Query	Bank's Response
1	87	Annexure-9 Technical Specifications	Table-A Technical Specification - 12 servers (6 DC and 6 DRC)	S.No.5 Latest generation x86_64 bit architecture-based CPU's	Intel or AMD processor Required	Bidders to comply with RFP/GeM bid terms and conditions
2	88	Annexure-9 Technical Specifications	Table-A Technical Specification - 12 servers (6 DC and 6 DRC)	Technical factor: Cache Description: 60 MB L3 Cache or higher	Is the required Cache per socket or per server. Intel 16Core processor is available a max of 45M cache	Bidder to refer corrigendum 3.
3	90,94,99,104 & 109	Annexure-9 Technical Specifications	Table-A , B, C, D & E Windows Compatibility	2016/2019/2022	Is 2016 Required as this is not supported on Latest Generation CPU's	Bidder to refer corrigendum 3.
4	91,95,100,105 & 110	Annexure-9 Technical Specifications	Table-A , B, C, D & E Port	3 USB3.0 port with minimum 2 No's of USB 3.2 Gen1 Ports and 1 VGA Port	Modify to 3 ports- USB 2.0 or Higher	Bidder to refer corrigendum 3.
5	89,94,98,103 & 108	Annexure-9 Technical Specifications	Table-A , B, C, D & E SAN & Network	FC HBA CARD: Two FC Card with minimum 1 number of 32 Gbps FC ports in each card with Supported SFP+ transceivers ( With NVME Capable )	Please change to the latest - Two FC Card with 2 number of 32 Gbps FC ports in each card	Bidder to refer corrigendum 3.
6	97	Annexure-9 Technical Specifications	Table - C Technical Specification - 2 servers (1 DC and 1 DRC) 5. Processor	GPU Memory - 80GB	Please confirm the GPU Qty per server	Bidder to refer corrigendum 3.
7	100	Annexure-9 Technical Specifications	Table - C Technical Specification - 2 servers (1 DC and 1 DRC) 17. PCI Slots	Minimum 4 - x16 PCIe Gen4 or higher free slots (Peripheral Component Interconnect Express) Other than GPU slots	To re-phrase Minimum 6 - PCIe slots instead of free slots . As all the slots will be populated with Network Card , FC Card and GPU	Bidder to refer corrigendum 3.
8	91,95,100,105 & 111	Annexure-9 Technical Specifications	Table-A , B, C, D & E PCI Slots	Minimum 4 - x16 PCIe Gen4 or higher free slots (Peripheral Component Interconnect Express)	To re-phrase Minimum 6 - PCIe slots instead of free slots . As all the slots will be populated with Network Card , FC Card	Bidder to refer corrigendum 3.
9	114	Annexure-9 Technical Specifications	Table-K Technical Specification of Network TOR Switches A. 2 numbers (01 numbers in DC and 01 numbers in DRC) - Mgmt.	Proposed Switches must integrate seamlessly with active - active ports for redundancy and high availability from two core/distributed switches from day one with our existing infrastructure of Cisco/Juniper Datacenter router/switches.	please do not consider seamless integration with cisco,Juniper patent protocol integration.  We re offering MLAG. This will achieve active-active links, loadbalancing if the links are config with LACP. Logically, pair of switches form single switch. Network open standard protocols are supported, trunking, vlan, STP, VRRP, VRF, L3- static, OSPF, BGP etc.	Bidder to refer corrigendum 3.
10	114	Annexure-9 Technical Specifications	Table-K Technical Specification of Network TOR Switches B. 4 numbers (2 DC+ 2 DRC) - Ethernet/LAN	4. Switch should support EVPN and Virtual Extensible LAN (VXLAN) to create Fabric. Fabric should be capable to integrate with SDDC like Open stack, VMWare etc. Switch should support In Service Software Upgrade.	please remove vmware integration clause if you are not using it. DELL support integration with open stack.  Yes, VXLAN EVPN is supported, we are offering Virtual link trunking, you can upgrade firmware on one switch then move to other with almost no downtime. So we have hardware redundancy,HA. We also support Network OS integration with open stack.	Bidders to comply with RFP/GeM bid terms and conditions



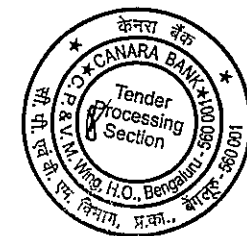
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11	115	Annexure-9 Technical Specifications	Table-K Technical Specification of Network TOR Switches B. 4 numbers (2 DC+ 2 DRC) - Ethemet/LAN	Proposed Switches must integrate seamlessly with active - active ports for redundancy and high availability from two core/distributed switches from day one with our existing infrastructure of Cisco/Juniper Datacenter router/switches.	please do not consider seamless integration with cisco,Juniper patent protocol integration.  we are offering MLAG. This will achieve active-active links, loadbalancing if the links are config with LACP. Logically, pair of switches form single switch. Network open standard protocols are supported, trunking, vlan, STP, VRRP, VRF, L3- static, OSPF, BGP etc. any Cisco patent protocol please mention.	Bidder to refer corrigendum 3.
12	88	Annexure-9 Technical Specifications	Table-A Technical Specification - 12 servers (6 DC and 6 DRC)	Technical factor: Cache Description: 60 MB L3 Cache or higher	Intel doesn't have 16 Core Processor with 60MB L3 Cache, hence requesting bank to change it to 37MB L3 Cache for maximum participation	Bidder to refer corrigendum 3.
13	88,93,98,102 & 107	Annexure-9 Technical Specifications	Table A,B,C,D & E Memory Speed	Minimum 4800 MT/s (Megatransfer per second) or higher ( memory speed should be compatible with process speed to provide better performance )	Requesting bank to change it to minimum 5200 MT/s or higher , this would help bank to ensure vendors to quote latest Generation of Servers	Bidder to refer corrigendum 3.
14	90,94,99,104 & 109	Annexure-9 Technical Specifications	Table A,B,C,D & E Windows Compatibility	Windows Compatibility - 2016/2019/2022	Request Bank to kindly remove Windows 2016 since it is End of Sale,also latest generation of servers supports Windows 2019 and above.	Bidder to refer corrigendum 3.
15	88,93,98,103 & 108	Annexure-9 Technical Specifications	Table A,B,C,D & E RAID Controller - Cooling	Heat Sink	Heat Sink is available for Processos, remaining all system parts are cooled by Fans. Hence requesting Bank to remove this feature from RAID Controller.	Bidder to refer corrigendum 3.
16	90, 94,99,104 & 109	Annexure-9 Technical Specifications	Table A,B,C,D & E Other Latest Linux Flavors	Other Latest Linux Flavours - Latest server operating versions of Centos, SUSE Linux, Oracle Linux, Ubuntu ,RHCOS	Request bank to remove CentOS since open source community support is only available	Bidder to refer corrigendum 3.
17	91,95,100,105 & 111	Annexure-9 Technical Specifications	Table A,B,C,D & E PCI Slots	Minimum 4 - x16 PCIe Gen4 or higher free slots(Peripheral Component Interconnect Express)	Requesting bank to change it to Minimum 6 PCIe Gen4 or higher slots(Peripheral Component Interconnect Express)	Bidder to refer corrigendum 3.
18	90,95,100,104 & 110	Annexure-9 Technical Specifications	Table A,B,C,D & E Warranty and Support	5 years' onsite warranty or 3 Years onsite warranty+ 2 years AMC, On-Site Support Warranty Including part replacement/repairs within 4 hours of reporting, and Software support for updates, upgrades, patches, and bug fixes for supplied s/w from OEM 24 x 7 x 365 days. SSD drives should be covered for irrespective of read/writes on them. In case of Disk failure, the faulty disk will be maintained /destroyed / Degauss by Canara Bank. Proactive storage monitoring & support from OEM should be enabled. The proposed bidder will need to ensure support of product & change of components @ zero cost in case of any part becoming obsolete/EOL & EOS. Faulty Disks would not be returned back to OEM/Vendor or faulty disks will be destroyed before returning.	Requesting Bank to change it to 5 years' onsite warranty or 3 Years onsite warranty+ 2 years AMC, On-Site Support Warranty including part replacement/repairs within 6 hours of reporting, and Software support for updates, upgrades, patches, and bug fixes for supplied s/w from OEM 24 x 7 x 365 days. SSD drives should be covered for irrespective of read/writes on them. In case of Disk failure, the faulty disk will be maintained /destroyed / Degauss by Canara Bank. Proactive storage monitoring & support from OEM should be enabled. The proposed bidder will need to ensure support of product & change of components @ zero cost in case of any part becoming obsolete/EOL & EOS. Faulty Disks would not be returned back to OEM/Vendor or faulty disks will be destroyed before returning.	Bidder to refer corrigendum 3.

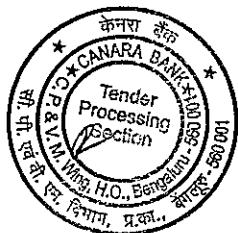


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Sl. No.	Page No.	Section/ Annexure/ Appendix	RFP Clause	Sub-Clause/ Technical Specification	Bidder's Query	Bank's Response
19	NA	General	GeM Bid document	GA	Is bidder required to follow GeM bid document or ATC document for documentation?	The Terms and Conditions stipulated in STC & SLA will supersede those in GTC and Terms and Conditions stipulated in ATC will supersede those in GTC and STC in case of any conflicting provisions.
20	12	Section B- Introduction	5. Requirement details	5.2 The term of contract will be for a period of five (05) years. However, Bank reserves the right to have an annual review on completion of 12 months from the date of acceptance of purchase order. If the services are found to be unsatisfactory Bank reserves the right to discontinue the Services	This clause is subjective, to be removed as RFP is governed by SLAs and Penalties. Which should take care of risks associated with any non performance by bidders.	Bidders to comply with RFP/GeM bid terms and conditions
21	14	Section C- Deliverable and Service Level Agreements	1.Project Timelines	S.No:1.3 Activity: Delivery of all Hardware and software along with licenses - 4 Weeks Timelines from date of Acceptance of PO: Within 4 weeks from date of Acceptance of PO.	Kindly provide 8 weeks as minimum lead time for servers from OEMs is 6-8 weeks.	Bidder to refer corrigendum 3.
22	14	Section C- Deliverable and Service Level Agreements	1.Project Timelines	Activity: Installation of all Hardware, Configuration, implementation and completion of all scope of work Timelines from date of Acceptance of PO: Within 4 weeks from the date of delivery of hardware.	Kindly provide 12 weeks as the scope is large besides two locations involved DC and DR	Bidder to refer corrigendum 3.
23	17	Section C- Deliverable and Service Level Agreements	7. Penalties/Liquidated Damages: 7.1.1.Non-compliance of the Supply/delivery of Hardware	Bank imposing penalty of 0.50% on delay in delivery per week or part thereof, on the Total cost of Servers & other items mentioned in Table-A	with regard to any delivery delays the penalty will be applied for the undelivered goods and not on the Total cost of project. Request to amend the same.	Bidders to comply with RFP/GeM bid terms and conditions
24	69	Annexure-2	Pre-Qualification Criteria	Pre-Qualification Criteria: The bidder should have successfully supplied proposed OEM Hardware cumulative of 40 servers deployed at Customer's DC/ DR in Indian Market in any of the Scheduled Commercial Bank/ Central Government Organization in India in the last calendar year as on the date of submission of bid for this RFP Documents to be submitted In compliance with Pre-Qualification Criteria: Copy of the purchase order/ Work order along with Satisfactory performance letter/ Certificate of completion of the work and Installation Report. The Bidder should also furnish letter from the institution quoting the period and nature of services provided.	As the nature/technology/CPU architecture of CISC based server hardware remains same from one OEM to another OEM, this being the case the clause "The bidder should have successfully supplied proposed OEM Hardware" is restrictive and hence remove word "proposed OEM" from the clause enabling wider tender participation.	Bidder to refer corrigendum 3.

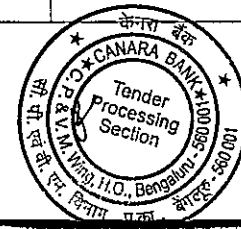


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25	71	Annexure-2	Pre-Qualification Criteria	Table-B General condition: 1. All AMC/ATS Support back to back engagement proof with OEM to be shared with bank for reference by the successful bidder post on boarding.	Kindly let us know what kind of document should bidder to shared against this clause "All AMC/ATS Support back to back engagement proof". Further, please re-confirm that this document need not be part of bid submission and it is required to be submitted by successful bidder.	RFP clause is self explanatory. Bidder to comply with RFP/GeM bid terms and conditions
26	126	Annexure-16 Bill of Material	Table - B Price details of Software/License Items (Perpetual)	Windows 2022 Standard Centre Edition 16 Core pack with Enterprise support	It is not very clear. Kindly reconfirm the product description whether it is standar edition datacentre edition?	Bidder to refer corrigendum 3.
27	25	Section C- Deliverable and Service Level Agreements	11. Scope involved during Contract period including Warranty and AMC/ATS:	11.1. During the period of contract up to completion of Warranty and also during AMC/ATS [if contracted], the bidder should apply and upgrade all release/version change of patches/ upgrades/ updates of hardware/software/ OS/ middleware etc. as and when released by the bidder/OSD and inform the Bank	As the word "upgrades" appears for also software/OS/middleware, kindly confirm if Windows 2022 Server OS required to be upgraded free of cost even if OEM charges for upgrade and upon OEM releasing the version upgrades for same OS? if our understanding is same, it is pertinent to amend as "Windows 2022 Standard Centre Edition 16 Core pack with Enterprise support with Software Assurance both during warranty and ATS period".	Windows 2022 Standard Edition 16 Core pack with OEM support during warranty and ATS period
28	68	Annexure-2	Pre-Qualification Criteria	<b>Pre-Qualification Criteria:</b> The bidder should have successfully supplied proposed OEM Hardware cumulative of 40 servers deployed at Customer's DC/ DR in Indian Market in any of the Scheduled Commercial Bank/ Central Government Organization in India in the last calendar year as on the date of submission of bid for this RFP <b>Documents to be submitted</b> In compliance with Pre-Qualification Criteria: Copy of the purchase order/ Work order along with Satisfactory performance letter/ Certificate of completion of the work and Installation Report. The Bidder should also furnish letter from the institution quoting the period and nature of services provided.	<b>Change Request</b> 1. The bidder should have successfully supplied proposed-OEM Hardware cumulative of 40 servers deployed at Customer's DC/ DR in Indian Market in any of the Scheduled Commercial Bank/ Central Government Organization/PSU in India in the last two calendar years as on the date of submission of bid for this RFP.  The request if accepted, will allow us to participate in this bid.	Bidder to refer corrigendum 3.
29	78	Annexure-8	Scope of Work	Overall Scope	<b>Clarification Sought</b> We understand, the SoW does not include services such as Migration of data  Kindly confirm or clarify	No migration of data is required

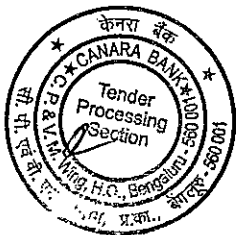


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30	79	Annexure-8	Scope of Work	<p>Evaluation for Scope of Work for this project :</p> <p>24. All the connectivity for the hardware i.e. LAN/SAN switches need to be ensured by the bidder.</p> <p>25. All proposed equipment's are required to connect existing Ethernet/LAN infrastructure.</p>	<p><b>Query</b> We understand, the bank has necessary active ports with compatible transceivers on the existing LAN and SAN switches for the connectivity. Bidder does not have to provide any component for the existing switches.</p> <p>And vendor of existing switches will ensure necessary compatibility with new NIC, FC cards.</p> <p>Kindly confirm or clarify</p>	<p>the bank has necessary active free ports and Bidder have to factor the equipments, transceivers to connect existing Ethernet/LAN infrastructure. (ex: QSFP 40/100G, SFP(10/25G), QSFP Adaptors, ect..)</p>
31	80	Annexure-8	Scope of Work	<p>Evaluation for Scope of Work for this project :</p> <p>29. The Selected Bidder has to coordinate with existing vendor for the Ethernet cable laying and connectivity to the Proposed Hardware and Software.</p>		<p>There is no Query Asked. Bidders to comply with RFP/GeM bid terms and conditions</p>
32	80	Annexure-8	Scope of Work	<p>Evaluation for Scope of Work for this project:</p> <p>41. Bidder to carry out the internal cabling/laying only through a certified vendor and to share the test report to Bank for acceptance. All the cables to be properly labelled, tagged and colour coded as per industry standards. Cable laying, labelling and dressing will be done by bidder without any additional cost to Bank.</p>	<p><b>Query</b> We request bank to elaborate the clause "certified vendor" and the type of certification required.</p>	<p>Cableing should be done as per the industry Standards, such as ANSI/TIA-942, ISO/IEC 24764, and ANSI/BICSI 002-2014. as applicable for data centers.</p>
33	81	Annexure-8	Scope of Work	<p>Evaluation for Scope of Work for this project:</p> <p>L. All activities related to Storage Administration assigned during the implementation period and till the project tenure (Warranty and AMC/ATS, if contracted) without any extra cost.</p>	<p><b>Query</b> We request bank to elaborate the clause "storage administration assigned" here or is this clause related to FC HBA only.</p>	<p>Bidder to refer corrigendum 3.</p>
34	81	Annexure-8	Scope of Work	<p>Evaluation for Scope of Work for Open Source KVM/Hypervisor:</p> <p>1. Implementing a KVM environment (Type2) using open source with clustering or load balancing for deploying applications, if required.</p> <p>16. Implementation of security best practices for KVM environments.</p> <p>17. Configuration of alerts for critical events or performance thresholds.</p>	<p><b>Change Request</b> We request bank to relax this clause because the bidder is supplying any hypervisor. Also, compatibility with open source hypervisor is not known, and skills around open source clustering may not be available with the bidder.</p> <p>Additionally, load balancing, best security practice, critical event alerts will not possible to ensure for a bidder by using an open source hypervisor alone.</p>	<p>Bidders to comply with RFP/GeM bid terms and conditions</p>
35	89, 93, 98, 103 & 108	Annexure-9 Technical Specifications	Table-A, B,C,D & E 9. SAN & Network	<p>FC HBA CARD : Two FC Card with minimum 1 number of 32 Gbps FC ports in each card with Supported SFP+ transceivers ( With NVME Capable )</p>	<p>We understand that requirement here is for 2 x 32 Gbps FC port populated with SFP+ transceiver. Kindly confirm.</p>	<p>Bidder to refer corrigendum 3.</p>
36	89, 94, 99, 104 & 109	Annexure-9 Technical Specifications	Table-A, B,C,D & E 9. SAN & Network	<p>Network cards with port 1 Gbps : Two Network Cards, each equipped with at least Four 1-gigabit network ports (Four Port of 1Gbase-T On-Board or separate NIC with supported four number of minimum 5 meter of compatible Cat6/Cat7 UTP Cable)</p>	<p>We understand that requirement here is for 8x 1G Base-T ports. Kindly confirm.</p>	<p>Bidders to comply with RFP/GeM bid terms and conditions</p>



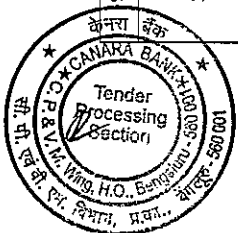
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37	89 , 94 , 99 ,104 & 109	Annexure-9 Technical Specifications	Table-A, B,C,D &E 9. SAN & Network	Network cards with 25 Gbps ports : Two Network Cards, each equipped with at least two 25-gigabit Fiber network ports (Total Four 25Gbps ports with four number of minimum 5 meter FC Cable)	We understand that requirement here is for 4x 25G Gbps ports populated with transceivers. Kindly confirm.	Bidders to comply with RFP/GeM bid terms and conditions
38	91 , 95 , 100 ,105 & 111	Annexure-9 Technical Specifications	Table-A, B,C,D &E 17. PCI Slots	Minimum 4 - x16 PCIe Gen4 or higher free slots(Peripheral Component Interconnect Express)	<p>Change Request</p> <p>Table A Minimum 2 - x16 PCIe Gen4 or higher free slots(Peripheral Component Interconnect Express)</p> <p>Table B Minimum 2 - x16 PCIe Gen4 or higher free slots(Peripheral Component Interconnect Express)</p> <p>Table C Please relax as no PCIe slots are available free after populating cards</p> <p>Table D Minimum 2 - x16 PCIe Gen4 or higher free slots(Peripheral Component Interconnect Express)</p> <p>Table E Minimum 2 - x16 PCIe Gen4 or higher free slots(Peripheral Component Interconnect Express)</p>	Bidder to refer corrigendum 3.
39	125	Annexure-16 Bill of Material	Table - B Price details of Software/License Items (Perpetual)	Windows 2022 Standard Centre Edition 16 Core pack with Enterprise support	<p>Change Request</p> <p>Windows 2022 Standard Centre Edition 16 Core pack with Enterprise support</p> <p>Reason for change request: Microsoft Windows Server does not include Enterprise Support. Customer can download and use available patches.</p>	Bidder to refer corrigendum 3.
40	125, 126, 127	Annexure-16 Bill of Material	Table - B: Price details of Software/License Items (Perpetual) Table - C: Price details of Software/License Items (Subscription based Licenses)	Windows 2022 Standard Centre Edition 16 Core pack with Enterprise support RHEL for Virtual Datacenter 2 Sockets 5 year subscription 24x7 support E-LTU with premium support	<p>Query</p> <p>We request Bank to clarify if we can quote the operating system bundled with the hardware quoted.</p>	Separate quote should be submitted for OS
41	129	Annexure-16 Bill of Material	Table - E One-time Implementation charges	2. Backup Software Implementation - Per server	<p>Change Request</p> <p>We request bank to relax this clause. Bidder is not providing any backup solution hence this request.</p>	Bidder to refer corrigendum 3.





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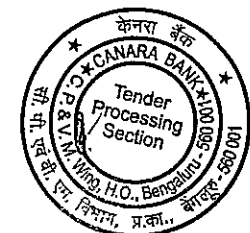
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47	79	Annexure-8	Scope of Work	Evaluation for Scope of Work for this project: 13. Bidder should comply as per the IT related policies of the bank.	Requesting bank to provide the policy details to comply that.	Details will be shared to L1 bidder.
48	79	Annexure-8	Scope of Work	Evaluation for Scope of Work for this project: 14. Bidder is responsible to provide the periodic reports of the proposed hardware health as per the bank requirement.	What would be the frequency to take the periodic report.	Quarterly report to be submitted
49	80	Annexure-8	Scope of Work	Evaluation for Scope of Work for this project: 34. During installation if the bank requires any new Software/OS/Utility, Bidder has to install without any cost where the licenses of the software are with the Bank.	Requesting please provide the software/ OS/ utility software details	Details will be shared to L1 bidder.
50	80	Annexure-8	Scope of Work	Evaluation for Scope of Work for this project. 40. Bidder to carry out Internal structured cabling both Copper(CAT 6/CAT 7 and Fibra(OM4) for devices supplied by successful bidder, with sufficient redundancy where ever applicable/required within server racks, network racks/switches	Requesting Bank to provide the appx. Distance between Racks, as it will help us to factor the cable costing.	Details will be shared to L1 bidder.
51	81	Annexure-8	Scope of Work	Evaluation for Scope of Work for this project: L. All activities related to Storage Administration assigned during the implementation period and till the project tenure (Warranty and AMC/ATS, if contracted) without any extra cost	Do we need to manage existing storage , please let us know the existing storage details.	Bidder to refer corrigendum 3.
52	85	Annexure-8	Scope of Work	Managed Services: L2 Resource (Infra and platform Administration) (Min 1)	Please let us know the shift timing for the managed service resource.	As per Bank business timings - Details will be shared to L1 bidder
53	88	Annexure-9 Technical Specifications	Table-A Technical Specification - 12 servers (6 DC and 6 DRC) 6. Memory Speed:	Minimum 4800 MT/s (Megatransfer per second) or higher ( memory speed should be compatible with process speed to provide better performance )	Requesting bank to change it to minimum 5200 MT/s or higher , this would help bank to ensure vendors to quote latest Generation of Servers	Bidder to refer corrigendum 3.
54	90	Annexure-9 Technical Specifications	Table-A Technical Specification - 12 servers (6 DC and 6 DRC) 10. Windows Compatibility	2016/2019/2022	Request Bank to kindly remove Windows 2016 since it is End of Sale, also latest generation of servers supports Windows 2019 and above.	Bidder to refer corrigendum 3.
55	89	Annexure-9 Technical Specifications	Table-A Technical Specification - 12 servers (6 DC and 6 DRC) 8. RAID Controller Cooling	Heat Sink	Heat Sink is available for Processors, remaining all system parts are cooled by Fans. Hence requesting Bank to remove this feature from RAID Controller.	Bidder to refer corrigendum 3.
56	90	Annexure-9 Technical Specifications	Table-A Technical Specification - 12 servers (6 DC and 6 DRC) 10 Other Latest Linux Flavors	Other Latest Linux Flavours - Latest server operating versions of Centos, SUSE Linux, Oracle Linux, Ubuntu ,RHCOS	Request bank to remove CentOS since open source community support is only available	Bidder to refer corrigendum 3.
57	91	Annexure-9 Technical Specifications	Table-A Technical Specification - 12 servers (6 DC and 6 DRC) 17. PCI Slots	Minimum 4 - x16 PCIe Gen4 or higher free slots(Peripheral Component Interconnect Express)	Requesting bank to change it to Minimum 6 PCIe Gen4 or higher slots(Peripheral Component Interconnect Express)	Bidder to refer corrigendum 3.





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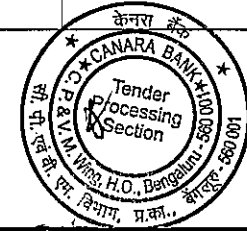
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58	90	Annexure-9 Technical Specifications	Table-A Technical Specification - 12 servers (6 DC and 6 DRC) 13.Warranty and Support	5 years' onsite warranty or 3 Years onsite warranty+ 2 years AMC, On-Site Support Warranty including part replacement/repairs within 4 hours of reporting, and Software support for updates, upgrades, patches, and bug fixes for supplied s/w from OEM 24 x 7 x 365 days. SSD drives should be covered for irrespective of read/writes on them. In case of Disk failure, the faulty disk will be maintained /destroyed / Degauss by Canara Bank. Proactive storage monitoring & support from OEM should be enabled. The proposed bidder will need to ensure support of product & change of components @ zero cost in case of any part becoming obsolete/EOL & EOS. Faulty Disks would not be returned back to OEM/Vendor or faulty disks will be destroyed before returning.	Requesting Bank to change it to 5 years' onsite warranty or 3 Years onsite warranty+ 2 years AMC, On-Site Support Warranty including part replacement/repairs within 6 hours of reporting, and Software support for updates, upgrades, patches, and bug fixes for supplied s/w from OEM 24 x 7 x 365 days. SSD drives should be covered for irrespective of read/writes on them. In case of Disk failure, the faulty disk will be maintained /destroyed / Degauss by Canara Bank. Proactive storage monitoring & support from OEM should be enabled. The proposed bidder will need to ensure support of product & change of components @ zero cost in case of any part becoming obsolete/EOL & EOS. Faulty Disks would not be returned back to OEM/Vendor or faulty disks will be destroyed before returning.	Bidder to refer corrigendum 3.
59	113	Annexure-9 Technical Specifications	Table-K Technical Specification of Network TOR Switches A. 2 numbers (01 numbers in DC and 01 numbers in DRC) - Mgmt.	Switch must have minimum 24 Gig Ethernet ports and 4 x 10G SFP+ & +2p 40/100G QSFP28 for uplink on single switch/chassis.	Request to remove the 40/100G ports, why do need a 40/100G for a MGMT Switches? 4*10G and 40/100G is standard for all the OEM, it's specific to limited OEM, Hence request to amend the clause	Bidder to refer corrigendum 3.
60	113	Annexure-9 Technical Specifications	Table-K Technical Specification of Network TOR Switches A. 2 numbers (01 numbers in DC and 01 numbers in DRC) - Mgmt.	19. Switch should support FTP, TFTP, and SFTP.	Request to Amend the clause to "Switch should support FTP/TFTP, and SFTP, FTP is not secured hence request to amend the clause.	Bidder to comply the Technical Specification in RFP Clause.
61	114	Annexure-9 Technical Specifications	Table-K Technical Specification of Network TOR Switches B. 4 numbers (2 DC+ 2 DRC) Ethernet/LAN	Latency should be less than 1 microsecond.	Please clarify if the 1ms latency refers to within the data center? Latency can be calculated based on the distance and bandwidth/link between hosts, as well as the packet size (bytes).	Bidder to refer corrigendum 3.
62	114	Annexure-9 Technical Specifications	Table-K Technical Specification of Network TOR Switches B. 4 numbers (2 DC+ 2 DRC) Ethernet/LAN	19. Switch should support FTP, TFTP, and SFTP.	Request to Amend the clause to "Switch should support FTP/TFTP, and SFTP, FTP is not secured hence request to amend the clause.	Bidders to comply with RFP/GeM bid terms and conditions



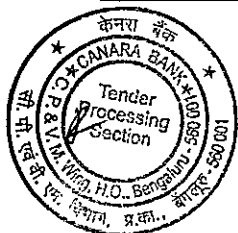


**Pre Bid Replies for GeM Bid ref no. GEM/2024/B/5538001 dated 23/10/2024 for Selection of Supply, Installation, Configuration, Implementation and Maintenance of 40 nos. of servers and related IT Infra components for Data Lakehouse and existing Analytical Setup in Canara Bank with three years comprehensive warranty and two years AMC**

Sl. No.	Page No.	Section/ Annexure/ Appendix	RFP Clause	Sub-Clause/ Technical Specification	Bidder's Query	Bank's Response
68	15	Section C- Deliverable and Service Level Agreements	2. Integration & Interfaces	2.1. The selected bidder has to work with different application vendors in order to integrate new solution to the existing workload or new workloads during contract period. 2.2. The selected bidder has to work with different teams of Bank & application OEMs to understand the policies requirement and configurations of respective applications for the offered service.	Assume the bank shall arrange necessary coordination with different application vendors, teams of Bank & application OEMs to work with new solution.	Bidders to comply with RFP/GeM bid terms and conditions
69	15	Section C- Deliverable and Service Level Agreements	3. Training:	The selected vendor has to give demo and explain operational guidelines of the product at the site of the installation to Bank's Officials.	Kindly confirm the details of Training provided. Whether bank shall arrange the infra for the training?	Bidder to refer corrigendum 3.
70	16	Section C- Deliverable and Service Level Agreements	4. Security	4.5. The selected bidder has to do necessary changes in the configuration directed by security team of the bank after security audits like VAPT, Code Audit etc.,	Assume the bank shall bear the cost for all audits, Kindly confirm.	Cost of audits would be borne by the bank rectification to be done by the selected bidder without any cost
71	16	Section C- Deliverable and Service Level Agreements	5. Acceptance	5.1. The Bank shall finalize the installation and acceptance format mutually agreed by the Bidder. The Bidder shall strictly follow the mutually agreed format and submit the same for claiming installation and acceptance payment. 5.2. Bank will evaluate the offered hardware implemented by the selected bidder. If the hardware experiences no failures and functions according to the requirements of the RFP as determined by the Bank during the implementation period, then the hardware will be accepted by the Bank and the project will be considered as deemed signed-off. 5.3. The warranty will cover all supplied components includes Hardware, software and other items will start after project acceptance & Signoff.	Kindly confirm the project acceptance & Signoff timeline.	Bidders to comply with RFP/GeM bid terms and conditions
72	26	Section C- Deliverable and Service Level Agreements	12. Annual Maintenance Contract (AMC) / Annual Technical Support (ATS) (if contracted)	12.5. During the Warranty and AMC/ATS (if contracted) period, the Bidder should extend On Site Service and Support whenever and wherever required. The scope of Warranty and AMC (if contracted) shall include: 12.5.1. Rectification of Bugs/defects if any. 12.5.2. Ensuring uptime of 99.90% 12.5.3. Preventive Maintenance. 12.5.4. Maintenance of Hardware/Software/License supplied. 12.5. During the Warranty and AMC/ATS (if contracted) period, the Bidder should extend On Site Service and Support whenever and wherever required. The scope of Warranty and AMC (if contracted) shall include: 12.5.1. Rectification of Bugs/defects if any. 12.5.2. Ensuring uptime of 99.90% 12.5.3. Preventive Maintenance. 12.5.4. Maintenance of Hardware/Software/License supplied.	Assume no Preventive Maintenance required during warranty period, kindly confirm.	Bidders to comply with RFP/GeM bid terms and conditions



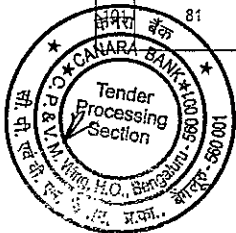
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Sl. No.	Page No.	Section/ Annexure/ Appendix	RFP Clause	Sub-Clause/ Technical Specification	Bidder's Query	Bank's Response
73	40	Section F - Ownership & Awarding Of Contract	7. Project Execution	The entire project needs to be completed expeditiously. The Bank and the selected bidder shall nominate a Project Manager each immediately on acceptance of the order, who shall be the single point of contact for the project at Bengaluru. However, for escalation purpose, details of other persons shall also be given. The project manager nominated by the bidder should have prior experience in implementing similar project. Project Kick-Off meeting should happen within 7 days from the date of acceptance of purchase order. The bidder shall submit a Weekly progress report to the Bank as per format, which will be made available to the selected bidder.	Whether this resource will be additional to the requirement mentioned in 8.4.1.? And it required for the implementation period or complete project period?	Additional SPOC for project implementation until sign off.
74	85	Annexure-8	Scope of Work	Managed Services: L2 Resource (Infra and platform Administration) (Min 1)	Kindly confirm the support timing for the on-site resource.	As per Bank business timings - Details will be shared to L1 bidder
75	NA	General	General	General	Any existing devices to be integrated with new solution?	No
76	NA	General	General	General	Kindly confirm any migration is required. If yes, please share the details of devices / applications / softwares etc.	No migration of data is required
77	NA	General	General	General	L2 resource to be deployed in single location or multiple locations . Number of resources and what will be support level 24/7 ?	As per Bank timings at one location, Bengaluru location
78	114	Annexure-9 Technical Specifications	Table-K Technical Specification of Network TOR Switches	Proposed Switches must integrate seamlessly with active active ports for redundancy and high availability from two core/distributed switches from day one with our existing infrastructure of Cisco/Juniper Datacenter router/switches.	please do not consider seamless integration with cisco, Juniper patent protocol integration.  We are offering MLAG. This will achieve active-active, links, loadbalancing if the links are config with LACP. Logically, pair of switches form single switch. Network open standard protocols are supported, trunking, vlan, STP, VRRP, VRF, L3- static, OSPF, BGP et	Bidder to refer corrigendum 3.
79	114	Annexure-9 Technical Specifications	Table-K Technical Specification of Network TOR Switches B. 4 numbers (2 DC+ 2 DRC) - Ethernet/LAN	4. Switch should support EVPN and Virtual Extensible LAN (VXLAN) to create Fabric. Fabric should be capable to integrate with SDDC like Open stack, VMWare etc. Switch should support In Service Software Upgrade.	please remove vmware integration clause if you are not using it. DELL support integration with open stack. Yes, VXLAN EVPN is supported, we are offering Virtual link trunking, you can upgrade firmware on one switch then move to other with almost no downtime. So we have hardware redundancy, HA. We also support Network OS integration with open stack.	Bidder to comply the Technical Specification in RFP Clause.





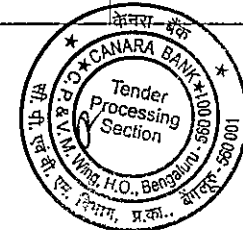
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Sl. No.	Page No.	Section/ Annexure/ Appendix	RFP Clause	Sub-Clause/ Technical Specification	Bidder's Query	Bank's Response
90	98	Annexure-9 Technical Specifications	Table - C Technical Specification - 2 servers (1 DC and 1 DRC) San & Network	FC HBA CARD	Can we offer single FC Card with 2 Number of 32Gbps FC Ports?	Bidder to refer corrigendum 3.
91	99	Annexure-9 Technical Specifications	Table - C Technical Specification - 2 servers (1 DC and 1 DRC) San & Network	FC Cables	You are asking 4 nos. OM3/OM4 FC Cables, whereas you required 2 nos. 32Gbps ports. Please clear whether you needed total 4 ports of 32Gbps FC or 2 nos. FC Cables only?	Bidder to refer corrigendum 3.
92	100	Annexure-9 Technical Specifications	Table - C Technical Specification - 2 servers (1 DC and 1 DRC)	PCI Slots	Normally GPU Consumes 2 slots of PCIe, hence it is not possible to provide 4 nos. X16 PCIe Gen 4.0 Slots within the server. Please clear. Also, let us know, which GPU you are going to use in server?	Bidder to refer corrigendum 3.
93	103	Annexure-9 Technical Specifications	Table - D Technical Specification - 8 servers (4 DC and 4 DRC) San & Network	FC HBA CARD	Can we offer single FC Card with 2 Number of 32Gbps FC Ports?	Bidder to refer corrigendum 3.
94	103	Annexure-9 Technical Specifications	Table - D Technical Specification - 8 servers (4 DC and 4 DRC) San & Network	FC Cables	You are asking 4 nos. OM3/OM4 FC Cables, whereas you required 2 nos. 32Gbps ports. Please clear whether you needed total 4 ports of 32Gbps FC or 2 nos. FC Cables only?	Bidder to refer corrigendum 3.
95	105	Annexure-9 Technical Specifications	Table - D Technical Specification - 8 servers (4 DC and 4 DRC)	PCI Slots	After populating multiple cards in the system, it's not possible to provide 4 nos. x16 PCIe Gen4 slots. Please clear exact Qty of free slots needed.	Bidder to refer corrigendum 3.
96	108	Annexure-9 Technical Specifications	Table - E Technical Specification - 10 servers (5 DC and 5 DRC) San & Network	FC HBA CARD	Can we offer single FC Card with 2 Number of 32Gbps FC Ports?	Bidder to refer corrigendum 3.
97	108	Annexure-9 Technical Specifications	Table - E Technical Specification - 10 servers (5 DC and 5 DRC) San & Network	FC Cables	You are asking 4 nos. OM3/OM4 FC Cables, whereas you required 2 nos. 32Gbps ports. Please clear whether you needed total 4 ports of 32Gbps FC or 2 nos. FC Cables only?	Bidder to refer corrigendum 3.
98	111	Annexure-9 Technical Specifications	Table - E Technical Specification - 10 servers (5 DC and 5 DRC)	PCI Slots	After populating multiple cards in the system, it's not possible to provide 4 nos. x16 PCIe Gen4 slots. Please clear exact Qty of free slots needed.	Bidder to refer corrigendum 3.
99	14	Section C- Deliverable and Service Level Agreements	1. Project Timelines	Point. No. 1.3	Request to amend delivery of all hardware & software along with licenses within 8 to 12 weeks from the date of acceptance of PO.	Bidder to refer corrigendum 3.
100	39	Annexure-16 Bill of Material	Table - E One-time Implementation charges	2. Backup Software implementation - Per server	It has been noted that the implementation of backup software is necessary; however, the technical specifications for this have not been provided. Kindly supply the required details.	Bidder to refer corrigendum 3.
	81	Annexure-8	Scope of Work	Evaluation for Scope of Work for Open Source KVM/Hypervisor 11. Creation of virtual machines as per bank Requirements	How many Virtual machines need to create?	Details will be shared to L1 bidder



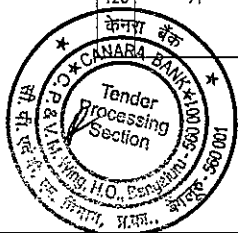
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Sl. No.	Page No.	Section/ Annexure/ Appendix	RFP Clause	Sub-Clause/ Technical Specification	Bidder's Query	Bank's Response
102	126 & 127	Annexure-16 Bill of Material	Table-B & C	For Windows OS & RHEL	As per tender requirement There is total requirement of 40 Qty. Servers, whereas the OS requirement is 48 Qty.	Bidders to comply with RFP/GeM bid terms and conditions
103	115	Annexure-9 Technical Specifications	Table-K Technical Specification of Network TOR Switches B. 4 numbers (2 DC+ 2 DRC) - Ethernet/LAN	24. Switch should support FTP, TFTP, and SFTP.	Request to Amend the clause to "Switch should support FTP/TFTP, and SFTP, FTP is not secured hence request to amend the clause.	Bidder to comply the Technical Specification in RFP Clause.
104	69	Annexure-2	Pre-Qualification Criteria	<p><b>Pre-Qualification Criteria:</b> The bidder should have successfully supplied proposed OEM Hardware cumulative of 40 servers deployed at Customer's DC/ DR in Indian Market in any of the Scheduled Commercial Bank/ Central Government Organization in India in the last calendar year as on the date of submission of bid for this RFP</p> <p><b>Documents to be submitted</b> In compliance with Pre-Qualification Criteria: Copy of the purchase order/ Work order along with Satisfactory performance letter/ Certificate of completion of the work and installation Report. The Bidder should also furnish letter from the institution quoting the period and nature of services provided.</p>	<p>Kindly request to change the criteria to The Bidder/OEM should have successfully supplied minimum cumulative 40 Nos. of Servers In India in the last calendar year as on the date of submission of bid for this RFP. Out of 40 servers the bidder should have successfully supplied Hardware cumulative of 20 servers deployed (irrespective of OEM) at Customer's DC/ DR in Indian Market in any of the Scheduled Commercial Bank/ NBFC/ Insurance Company/Enterprise Grade FINTECH companies / PSU/ Central Government Organization in India in the last calendar year as on the date of submission of bid for this RFP</p> <p>or Consider the evaluation criteria for recent tender for 500 Servers</p>	Bidder to refer corrigendum 3.
105	50	Section G - General Conditions	15. Training and Handholding	15.1.1. Entire back-up History but not limited to archive policies, retention policies, restore policies, schedules, target storage, backup history.	Requested bank to remove this clause as RFP scope is limited to Servers and not for Backup	Bidder to refer corrigendum 3.
106	50	Section G - General Conditions	15. Training and Handholding	15.1.2. Change Request Logs	Request bank to elaborate - What training content expected for Change Request log	Bidder to refer corrigendum 3.
107	51 & 52	Section G - General Conditions	17. Business Continuity Plan	17.1. The service provider/vendor/ Bidder shall develop and establish a robust Business Continuity and Management of Disaster Recovery Plan if not already developed and established so as to ensure uninterrupted and continued services to the Bank and to ensure the agreed upon service level.	Request bank to remove as this RFP scope limited to Servers and not for Business Continuity Solution	We are expecting onsite resource to ensure BCP
108	85	Annexure-8	Scope of Work	Managed Services: L2 Resource (Infra and platform Administration) (Min 1)	Resource Preferred Location : Bangalore /Mumbai	Bangalore
109	14	Section C- Deliverable and Service Level Agreements	1. Project Timelines	Point No. 1.3	Kindly help to ease the delivery timeline to 8 weeks and installation within 2 weeks from delivery.	Bidder to refer corrigendum 3.
110	39	Section F - Ownership & Awarding Of Contract	1. Bid Validity Period	The Offer submitted and the prices quoted therein shall be valid for 180 days from the date of opening of Commercial Bid. Bid valid for any shorter period shall be rejected by the Bank.	Kindly help to relax this to 120 Days instead of 180 Days.	Bidders to comply with RFP/GeM bid terms and conditions



Pre Bid Replies for GeM Bid ref no. GEM/2024/B/5538001 dated 23/10/2024 for Selection of Supply, Installation, Configuration, Implementation and Maintenance of 40 nos. of servers and related IT infra components for Data Lakehouse and existing Analytical Setup in Canara Bank with three years comprehensive warranty and two years AMC

Sl. No.	Page No.	Section/ Annexure/ Appendix	RFP Clause	Sub-Clause/ Technical Specification	Bidder's Query	Bank's Response
111	78	Annexure-8	Scope of Work	Evaluation for Scope of Work for this project 25. All proposed equipment's are required to connect existing Ethernet/LAN infrastructure	You are asking for new 1G Base-T and 25G SFP28 Switches. Kindly help to clarify what do you mean by connect to existing Ethernet/LAN infrastructure.	Bidder has to co-ordinate with Bank IT Team to establish the connectivity with Bank network.
112	81	Annexure-8	Scope of Work	Evaluation for Scope of Work for Servers: 2. Deployment of servers requires co-ordination with different project application vendors. The bidder should co-ordinate with the software vendors while installing and ensure installation and commissioning for running the applications for which these servers are procured.	Kindly let us know the set of applications which you are working on so that we can quote our solution accordingly.	Bidders to comply with RFP/GeM bid terms and conditions
113	83	Annexure-8	Scope of Work	Evaluation for Scope of Work for TOR Switches: 18. Bidder to submit Migration plan, implementation document, solution architecture, traffic flow, cabling diagram etc.	Kindly clarify the point in detail wherein you have mentioned "Bidder to submit Migration plan, implementation document, solution architecture, traffic flow, cabling diagram etc."	Deployment diagram/architecture along with traffic flow and other related information to be submitted in documentaion.
114	83	Annexure-8	Scope of Work	Evaluation for Scope of Work for TOR Switches: 26. Bidder to configure uplink from Spine switch to Firewall with redundant 10/25/40/100Gbps links if required.	Kindly help to confirm the firewall OEM Make and Model to check for the compatibility	Firewall details are not required here; just TOR Switches only.
115	83	Annexure-8	Scope of Work	Evaluation for Scope of Work for TOR Switches: 27. Bidder to ensure all the Leaf/Access switches must be connected to Distribution Switch and further Spine/Core Switch with redundant 25/40/100 Gbps Uplink.	You have not asked for any Distribution Switch but still you have mentioned "Bidder to ensure all the Leaf/Access switches must be connected to Distribution Switch and further Spine/Core Switch with redundant 25/40/100 Gbps Uplink."	Bidder to refer corrigendum 3.
116	84	Annexure-8	Scope of Work	Evaluation for Scope of Work for TOR Switches: 48. Bidder must provide detailed SOP, troubleshooting steps of the provided solution along with the Installation and Administration guide for reference, which must include High level Design (HLD) and Low Level Design (LLD) documents at no extra cost to the Bank.	Kindly clarify what do you mean by High level Design (HLD) and Low Level Design (LLD).	Bidders to comply with RFP/GeM bid terms and conditions
117	84	Annexure-8	Scope of Work	Evaluation for Scope of Work for TOR Switches: 50. Bidder should support and integrate Switches as per Bank's network architecture requirements.	Kindly clarify and mention in detail what all integration activities have to be done by the bidder.	Integration here means connectivity , labelling , cable laying, uplink connectivity , server connectivity etc.
118	88	Annexure-9 Technical Specifications	Table-A Technical Specification - 12 servers (6 DC and 6 DRC)	Point No. 7 SSD	With 2x 960 GB SSD's we can have either RAID 0 OR RAID 1. RAID 5, RAID 6 and RAID 10 is not possible with just 02 qty. of drives. Also kindly help to allow SATA 2.5" SSD instead of SAS/NVMe as SAS/NVMe is will increase and SATA 2.5" SSD's can also give reliable performance.	Bidder to refer corrigendum 3.
119	89 & 90	Annexure-9 Technical Specifications	Table-A Technical Specification - 12 servers (6 DC and 6 DRC)	Point No. 10 OS & Hypervisor Compatibility	Kindly confirm exactly which OS Version you want.	Bidders to comply with RFP/GeM bid terms and conditions
120	91	Annexure-9 Technical Specifications	Table-A Technical Specification - 12 servers (6 DC and 6 DRC)	Point No. 17 PCI Slots	Kindly help to relax this to 3 qty. of PCI-E 5.0 x16 & 2 qty. of PCI-E 5.0 x8 Slots as this is essentially a storage server with lots of storage and storage servers generally do not provide so many number of PCI-E Slots.	Bidder to refer corrigendum 3.

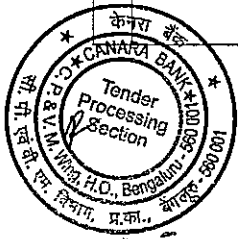






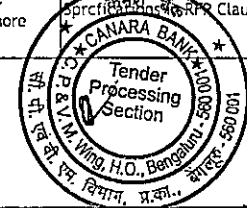
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Sl. No.	Page No.	Section/ Annexure/ Appendix	RFP Clause	Sub-Clause/ Technical Specification	Bidders Query	Bank's Response
129	104	Annexure-9 Technical Specifications	Table - D Technical Specification - 8 servers (4 DC and 4 DRC)	Point No. 10 OS & Hypervisor Compatibility	Kindly confirm exactly which OS Version you want.	Bidders to comply with RFP/GeM bid terms and conditions
130	105	Annexure-9 Technical Specifications	Table - D Technical Specification - 8 servers (4 DC and 4 DRC)	Point No. 17 PCI Slots	Kindly help to relax this to 3 qty. of PCI-E 5.0 x16 & 2 qty. of PCI-E 5.0 x8 Slots as this is essentially a storage server with lots of storage and storage servers generally do not provide so many number of PCI-E Slots.	Bidder to refer corrigendum 3.
131	108	Annexure-9 Technical Specifications	Table - E Technical Specification - 10 servers (5 DC and 5 DRC)	Point No. 7 SSD	Kindly revise the drive slot count from 16 to 12 as you have asked for only 4 drives. With 2x 960 GB SSD's we can have either RAID 0 OR RAID 1, RAID 5, RAID 6 and RAID 10 is not possible with just 02 qty. of drives. Also kindly help to allow SATA 2.5" SSD instead of SAS/NVMe as SAS/NVMe is will increase and SATA 2.5" SSD's can also give reliable performance.	Bidder to refer corrigendum 3.
132	109	Annexure-9 Technical Specifications	Table - E Technical Specification - 10 servers (5 DC and 5 DRC)	Point No. 10 OS & Hypervisor Compatibility	Kindly confirm exactly which OS Version you want.	Bidders to comply with RFP/GeM bid terms and conditions
133	111	Annexure-9 Technical Specifications	Table - E Technical Specification - 10 servers (5 DC and 5 DRC)	Point No. 17 PCI Slots	Kindly help to relax this to 3 qty. of PCI-E 5.0 x16 & 2 qty. of PCI-E 5.0 x8 Slots as this is essentially a storage server with lots of storage and storage servers generally do not provide so many number of PCI-E Slots.	Bidder to refer corrigendum 3.
134	20	Section C- Deliverable and Service Level Agreements	8. Payment Terms	Payment Terms as per clause 8 of RFP	We request bank to revise the payment terms as below:  70% - On Supply/delivery of all the of Hardware as per RFP 10% - Installation of all Hardware 10% - Configuration, implementation and completion of all scope of work 10% - After Completion of warranty period of 3 years and after deducting Or On submission of a bank guarantee for equivalent to 10% of the cost of Hardware/Software	Bidders to comply with RFP/GeM bid terms and conditions
135	14	Section C- Deliverable and Service Level Agreements	1. Project Timelines/ 1.3.The timelines are mention in the below table. It will be the sole responsibility of the vendor to submit any form required for release of shipment from the check post..	1. Delivery of all Hardware and software along with licenses - Within 4 weeks from date of Acceptance of PO - 4 weeks	Please considering the relaxation for the Project timeline as - "1. Delivery of all Hardware and software along with licenses - Within 8 weeks from date of Acceptance of PO - 8 weeks"	Bidders to comply with RFP/GeM bid terms and conditions
136	14	Section C- Deliverable and Service Level Agreements	1. Project Timelines/ 1.3.The timelines are mention in the below table. It will be the sole responsibility of the vendor to submit any form required for release of shipment from the check post..	2. Installation of all Hardware, Configuration, implementation and completion of all scope of work - Within 4 weeks from the date of delivery of hardware - 8 Weeks	Please considering the relaxation for the Project timeline as - "2. Installation of all Hardware, Configuration, implementation and completion of all scope of work - Within 8 weeks from the date of delivery of hardware - 12 Weeks"	Bidder to refer corrigendum 3.



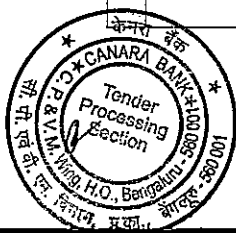
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Sl. No.	Page No.	Section/ Annexure/ Appendix	RFP Clause	Sub-Clause/ Technical Specification	Bidder's Query	Bank's Response
137	69	Annexure-2	Pre-Qualification Criteria	<p><b>Pre-Qualification Criteria:</b> The bidder should have successfully supplied proposed OEM Hardware cumulative of 40 servers deployed at Customer's DC/ DR in Indian Market in any of the Scheduled Commercial Bank/ Central Government Organization in India in the last calendar year as on the date of submission of bid for this RFP</p> <p><b>Documents to be submitted</b> In compliance with Pre-Qualification Criteria: Copy of the purchase order/ Work order along with Satisfactory performance letter/ Certificate of completion of the work and Installation Report. The Bidder should also furnish letter from the institution quoting the period and nature of services provided.</p>	<p>Please considering the relaxation for this clause as "The bidder should have successfully supplied proposed/similar OEM Hardware cumulative of 40 servers deployed at Customer's DC/ DR in Indian Market in any of the Scheduled Commercial Bank/ Central Government Organization in India in the last calendar year as on the date of submission of bid for this RFP".</p>	Bidder to refer corrigendum 3.
138	68	Annexure-2	Pre-Qualification Criteria	<p><b>Pre-Qualification Criteria:</b> The bidder should have successfully supplied proposed OEM Hardware cumulative of 40 servers deployed at Customer's DC/ DR in Indian Market in any of the Scheduled Commercial Bank/ Central Government Organization in India in the last calendar year as on the date of submission of bid for this RFP</p> <p><b>Documents to be submitted</b> In compliance with Pre-Qualification Criteria: Copy of the purchase order/ Work order along with Satisfactory performance letter/ Certificate of completion of the work and Installation Report. The Bidder should also furnish letter from the institution quoting the period and nature of services provided.</p>	<p>We request you to amend it as, The bidder should have successfully supplied Server Hardware cumulative of 40 servers deployed at Customer's Location in Indian Market in any of the Scheduled Commercial Bank/ Central Government / State Government Organization / PSU in India in the last calendar year as on the date of submission of bid for this RFP.</p>	Bidder to refer corrigendum 3.
139	113	Annexure-9 Technical Specifications	Table-K Technical Specification of Network TOR Switches A. 2 numbers (01 numbers in DC and 01 numbers in DRC) Mgmt.	Point No.1 Switch must have minimum 24 Gig Ethernet ports and 4x 10G SFP+ & +2p 40/100G QSFP28 for uplink on single switch/chassis.	<p>We request you to amend it as, 40/100G for a OOB management port switches are kind of overkill, Hence we suggest Canara Bank to follow industry best practice and Standards and modify the specification as below, "Switch must have minimum 24 Gig Ethernet ports and 4x 10G SFP+ Ports with 160G dedicated Stacking for HA"</p>	Bidder to refer corrigendum 3.
140	114	Annexure-9 Technical Specifications	Table-K Technical Specification of Network TOR Switches B. 4 numbers (2 DC+ 2 DRC) Ethernet/LAN	2. Switch must have 24 x 25-Gbps fiber downlink ports and 4 x 100-Gbps Quad Small Form-Factor Pluggable 28 (QSFP28) uplink ports with fully populated trans receivers on single switch/chassis.	<p>We suggest to add 48 x 10/25G Support and 10/25G multimode or single mode optics based on the requirement</p>	Bidder to comply the Technical Specification in RFP Clause.
141	114	Annexure-9 Technical Specifications	Table-K Technical Specification of Network TOR Switches B. 4 numbers (2 DC+ 2 DRC) Ethernet/LAN	Switch throughput should be more than equal to 2 bpps.	<p>2 bpps for a 24 port switch is a kind of overkill and Hence we suggest Canara Bank to follow industry standard and accordingly Request to modify the specification as "Switch throughput should be more than equal to 1.2 bpps."</p>	<p>Bidder should comply Technical Specification in RFP Clause.</p>



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Sl. No.	Page No.	Section/ Annexure/ Appendix	RFP Clause	Sub-Clause/ Technical Specification	Bidder's Query	Bank's Response
142	114	Annexure-9 Technical Specifications	Table-K Technical Specification of Network TOR Switches B. 4 numbers (2 DC+ 2 DRC) - Ethernet/LAN	High Mean Time Between Failure values (>2 Lakh hours) should be available to ensure long life of switch hardware.	MTBF testing varies between multiple OEM's. Hence we would request Canara Bank to consider "High Mean Time Between Failure values (>1 Lakh hours) should be available to ensure long life of switch hardware."	Bidder should comply Technical Specifications in RFP Clause.
143	14	Section C- Deliverable and Service Level Agreements	Project Timelines	Point No. 1.3	Kindly help to ease the delivery timeline to 8 weeks and installation within 2 weeks from delivery.	For delivery timeliness, kindly comply RFP terms. For Installation, please refer corrigendum-3
144	39	Section F - Ownership & Awarding Of Contract	Ownership & Awarding of Contracts	Point No. 1 (Bid Validity Period)	Kindly help to relax this to 120 Days instead of 180 Days.	Bidders to comply with RFP/GeM bid terms and conditions
145	83	Annexure-8	Scope of Work	Evaluation for Scope of Work for TOR Switches: 26. Bidder to configure uplink from Spine switch to Firewall with redundant 10/25/40/100Gbps links if required.	Kindly help to confirm the firewall OEM Make and Model to check for the compatibility	Firewall details are not required here; just TOR Switches only.
146	83	Annexure-8	Scope of Work	Evaluation for Scope of Work for TOR Switches: 27. Bidder to ensure all the Leaf/Access switches must be connected to Distribution Switch and further Spine/Core Switch with redundant 25/40/100 Gbps Uplink.	You have not asked for any Distribution Switch but still you have mentioned "Bidder to ensure all the Leaf/Access switches must be connected to Distribution Switch and further Spine/Core Switch with redundant 25/40/100 Gbps Uplink."	Bidder to refer corrigendum 3.
147	84	Annexure-8	Scope of Work	Evaluation for Scope of Work for TOR Switches: 48. Bidder must provide detailed SOP, troubleshooting steps of the provided solution along with the Installation and Administration guide for reference, which must include High level Design (HLD) and Low Level Design (LLD) documents at no extra cost to the Bank.	Kindly clarify what do you mean by High level Design (HLD) and Low Level Design (LLD).	Bidders to comply with RFP/GeM bid terms and conditions
148	84	Annexure-8	Scope of Work	Evaluation for Scope of Work for TOR Switches: 50. Bidder should support and integrate Switches as per Bank's network architecture requirements.	Kindly clarify and mention in detail what all integration activities have to be done by the bidder.	Integration here means connectivity, labelling, cable laying, uplink connectivity, server connectivity etc.
149	88	Annexure-9 Technical Specifications	Table-A Technical Specification - 12 servers (6 DC and 6 DRC)	Point No. 7 SSD 2 x960 GB for OS; (to support RAID 1,5,6,10) 12 x7.68 TB for data (Raw)	With 2x 960 GB SSD's we can have either RAID 0 OR RAID 1. RAID 5, RAID 6 and RAID 10 is not possible with just 02 qty. of drives. Also kindly help to allow SATA 2.5" SSD instead of SAS/NVMe as SAS/NVMe is will increase and SATA 2.5" SSD's can also give reliable performance.	Bidder to refer corrigendum 3.
150	94	Annexure-9 Technical Specifications	Table - B Technical Specification - 8 servers (4 DC and 4 DRC)	Point No. 10 OS & Hypervisor Compatibility	Kindly confirm exactly which OS Version you want.	Bidders to comply with RFP/GeM bid terms and conditions
151	95	Annexure-9 Technical Specifications	Table - B Technical Specification - 8 servers (4 DC and 4 DRC)	Point No. 17 PCI Slots	Kindly help to relax this to 3 qty. of PCI-E 5.0 x16 & 2 qty. of PCI-E 5.0 x8 Slots as this is essentially a storage server with lots of storage and storage servers generally do not provide so many number of PCI-E Slots.	Bidder to refer corrigendum 3.
152	104	Annexure-9 Technical Specifications	Table - D Technical Specification - 8 servers (4 DC and 4 DRC)	Point No. 10 OS & Hypervisor Compatibility	Kindly confirm exactly which OS Version you want.	Bidders to comply with RFP/GeM bid terms and conditions



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Sl. No.	Page No.	Section/ Annexure/ Appendix	RFP Clause	Sub-Clause/ Technical Specification	Bidder's Query	Bank's Response
153	109	Annexure-9 Technical Specifications	Table - E Technical Specification - 10 servers (5 DC and 5 DRC)	Point No. 10 OS & Hypervisor Compatibility	Kindly confirm exactly which OS Version you want.	Bidders to comply with RFP/GeM bid terms and conditions
154	68	Annexure-2	Pre-Qualification Criteria	Pre-Qualification Criteria: The bidder (including OEM and OSD/OSO, if any) should either be Class-I or Class-II local supplier as defined in Public Procurement (Preference to Make in India) Revised Order (English) dated 16/09/2020. Documents to be submitted In compliance with Pre-Qualification Criteria: Certificate of local content to be submitted as per Annexure-5 as applicable.	Request you to remove this clause.	Bidders to comply with RFP/GeM bid terms and conditions
155	69	Annexure-2	Pre-Qualification Criteria	Pre-Qualification Criteria: The bidder should have successfully supplied proposed OEM Hardware cumulative of 40 servers deployed at Customer's DC/ DR in Indian Market in any of the Scheduled Commercial Bank/ Central Government Organization in India in the last calendar year as on the date of submission of bid for this RFP Documents to be submitted In compliance with Pre-Qualification Criteria: Copy of the purchase order/ Work order along with Satisfactory performance letter/ Certificate of completion of the work and Installation Report. The Bidder should also furnish letter from the institution quoting the period and nature of services provided.	Request you to change this clause to Bidder / OEM should have successfully supplied proposed Hardware cumulative of 40 servers deployed at Customer's DC/ DR in Indian Market in any of the Scheduled Commercial Bank/ Central Government Organization in India in the last calendar year as on the date of submission of bid for this RFP.	Bidder to refer corrigendum 3.

Date 20-11-2024  
Place Bengaluru

*(Signature)*  
Deputy General Manager

