



Corrigendum-2 to GEM BID No:GEM/2025/B/6571392 dated 14/08/2025 SUPPLY, INSTALLATION, CONFIGURATION, IMPLEMENTATION AND MAINTENANCE OF 20 NOS. OF SERVERS AND OTHER IT INFRA COMPONENTS FOR A PERIOD OF FIVE (05) YEARS IN CANARA BANK:

It is decided to amend the following in respect of the above RFP:

a. GeM bid document (Bid End date/ Bid Opening Date, Page no. 1 of 7):

Description	Existing details	Amended details
Bid End Date/Time	11/09/2025, 15:00:00	<u>18/09/2025</u> , 15:00:00
Bid opening Date/Time	11/09/2025, 15:30:00	<u>18/09/2025</u> , 15:30:00

b.

Sl No	Section/Annexure/Appendix of GeM Bid	Clause No.	Existing Clause	Amended Clause
1.	Annexure-8 Scope of Work	Clause 40:	e. Rack assembling, installation and power connectivity from industrial sockets and testing of required power rating.	This clause stands deleted.
2.	Annexure-8 Scope of Work	Clause 40:	40) The Bidder will responsible for the following: m. All activities related to server Administration assigned during the implementation period and till the project tenure (Warranty and AMC/ATS, if contracted) without any extra cost.	40) The Bidder will responsible for the following: <u>m. All activities related to server Administration assigned till the implementation & project sign off.</u>
3.	Annexure-9 Technical Specifications	Full Annexure	Existing Annexure	Amended Annexure-9 Technical Specifications attached to this Corrigendum.
4.	Annexure-16 Bill of Material	Full Annexure	Existing Annexure	Amended Annexure-16 Bill of Material attached to this Corrigendum

All the other instructions and terms & conditions of the above RFP shall remain unchanged.

Please take note of the above amendments while submitting your response to the subject RFP

Date: 09/09/2025

Place: Bengaluru

Deputy General Manager



Amended Annexure-9
Technical Specifications

(Should be submitted on Company's letter head with company seal and signature of the authorized person)

SUB: Supply, Installation, Configuration, Implementation and Maintenance of 20 Nos. of Servers and other IT Infra Components for a period of five (05) years in Canara Bank.

Ref: GEM/2025/B/6571392 dated 14/08/2025.

Note:	
(a)	If the bidder feels that certain features offered are superior to what has been specified by the Bank, it shall be highlighted separately. Information regarding any modification required in the proposed solution to meet the intent of the specifications and state-of-the-art technology shall be provided. However, the Bank reserves the right to adopt the modifications /superior features suggested/ offered.
(b)	The bidder shall provide all other required equipment's and/or services, whether or not explicitly mentioned in this RFP, to ensure the intent of specification, completeness, operability, maintainability and upgradability.
(c)	The selected bidder shall own the responsibility to demonstrate that the product offered are as per the specification/performance stipulated in this RFP and as committed by the bidder either at site or in bidder's work site without any extra cost to the Bank.

All points mentioned under are mandatory to comply and non-compliance to any of the point lead to disqualification of the bidder during evaluation.

Table A

SL no	Server Type	No of Servers	Hardware (For 5 Years)	Software
1	Type 1	DC-2 DR-2 UAT-1	4 Core Processor 2.60 GHz or Higher 16 GB RAM 2 x 960 GB SSD - RAID 1	Red Hat Enterprise Linux 9.x Apache 2.4.x
2	Type 2	DC-2 DR-2 UAT-1	8 Core Processor 2.60 GHz or Higher 32 GB RAM 2 x 960 GB SSD - RAID 1	Red Hat Enterprise Linux 9.x
3	Type 3	DC-2 DR-2 UAT-1	16 Core Processor 2.60 GHz or Higher 64 GB RAM 2 x 960 GB SSD - RAID 1	Red Hat Enterprise Linux 9.x PostgreSQL 16.4
4	Type 4	DC-2 DR-2 UAT-1	8 Core Processor 2.60 GHz or Higher 32 GB RAM 2 x 960 GB SSD - RAID 1	Red Hat Enterprise Linux 9.x



Technical Specifications for 20 servers (12 DC and 8 DRC)Technical Specifications for 5 servers (2 DC, 1 UAT and 2 DRC)

Technical Details - Type 1		Technical Specification - 5 servers (2 DC, 1 UAT and 2 DRC)	Bidder's Compliance (Yes/No)
Sl. No.	Technical Factor	Description	
1	Make	Bidder to specify	
2	Model	Bidder to specify	
3	Power Factor	Bidder to specify	
4	Form Factor	1U / 2U	
5	Processor		
a.	Processor Architecture	CISC	
b.	Processor Make	x86_64 bit architecture-based CPU's	
c.	Processor	Fourth Generation Processor 2.6 GHz (gigahertz) or above	
d.	CPU	Single Processor	
e.	Socket	Single	
f.	Cores per socket	Four core	
g.	Cache per processor	12 MB cache or higher	
h.	Cooling	Heat Sink	
i.	Platform Controller Hub & Main Board	Latest Chipset / System on Chip (SoC) design. Supporting x86_64 & Suitable server class Main Board or equivalent	
6	Memory		
a.	RAM Type	DDR5 DIMM or Higher	
b.	Ram Size	16 GB DDR5	
c.	Slot Count	Minimum 4 or higher.	
d.	Speed	Minimum 4800 MT/s or higher (memory speed should be compatible with process speed to provide better performance)	
e.	Features	Advanced ECC (Error Correcting Code) type or similar technology	
7	SSD		
a.	Types of interface for SSD	SATA / NVMe	
b.	Total Capacity for SSD	960GB * 2 SSD	



c.	Slot Count	8 or higher, Minimum 6 free slots should be available for future upgrade	
d.	Usable Space	Minimum 900 GB approximately with 960GB*2SSD After RAID 1.	
8	RAID Controller		
a.	RAID Controller	Should support RAID 1, 5, 6 , 10 or higher	
b.	RAID Battery	RAID 1, 5, 6, 10 or higher with 2GB or higher battery backed write cache	
c.	Cooling	Heat Sink	
d.	Alarm Buzzer	Alarm Buzzer or error indication alerts or equivalent	
e.	Storage Health Inspector	Storage Health Inspector or tools to monitor Storage/disk health	
f.	Features	Automatic and configurable RAID Rebuilding / Single-RAID or Multi-RAID Arrays per Controller	
9	SAN & Network		
a.	Network ports 1 Gbps	<u>Two 1Gbps network ports:</u> <u>can be Base-T On-board or in separate NIC (Must be in One network card with minimum two 1Gbps ports in each card)</u> <u>Two Copper shielded Cat 6 Lan cable of 3 Meter to be supplied</u>	
b.	Network ports 10 Gbps	<u>Two 10Gbps network ports:</u> <u>can be Base-T On-board or in separate NIC—(Must be in One network cards with minimum two 10 Gbps ports in each card)</u> <u>Two Copper shielded Cat 6 Lan cable of 3 Meter to be supplied</u>	
c.	Server Management port	Dedicate One Port of 1Gbps-management port chassis card.	
10	OS & Hypervisor Compatibility		
a.	Virtualization compatibility	All latest version of Microsoft-HyperV, VMware, Red Hat virtualization	
b.	Windows Compatibility	2019/2022/2025	
c.	RHEL Compatibility	8.x & 9.x & 10.x Higher versions	
11	Power Supply	Redundant hot swappable power supply, with required power cables.	





12	BIOS	UEFI (Unified Extensible Firmware Interface) based system and firmware that supports secure boot)	
13	Warranty And Support	3 Years onsite warranty+ 2 years AMC, On-Site Support Warranty including part replacement/repairs within 6 hours of reporting, and Firmware support for updates, upgrades, patches, and bug fixes for supplied h/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 retuned back to OEM/Vendor or faulty disks will be destroyed before returning.	
14	Port	3 USB 2.0 port or higher and 1 VGA Port or higher	
15	Serviceability	Light path diagnostic LED or equivalent visual alerts	
16	Security	Silicon root of trust, authenticated BIOS, signed firmware updates and BIOS Live Scanning for malicious firmware Secure Boot, Disk encryption, TPM 2.0 (Trusted Platform Module), Hardware root of trust, malicious code free design.	
17	PCI Slots	<u>Minimum 2</u> -PCIe Gen4 or higher slots (Peripheral Component Interconnect Express)	
18	Remote Management	1) Management of hardware and software components, Power on/off, boot process, Management log, dedicated Management ports. Monitoring fan, power supply, memory, CPU, RAID, NIC for failures.	

Internal





		<p>Telemetry Streaming, Idle Server Detection.</p> <p>2) Management software should provide Role Based Security through LDAP or Local and able to provide pre-failure alarms for CPU, Memory & HDD by SMTP.</p>	
19	System Management Solution	<p>1. The system management solution is required. The system management solution should collect system information (including impending component failure) from the device that generated the alert and sends the information securely to OEM to Support to troubleshoot the issue and provide an appropriate solution.</p> <p>2. The system management solution should support browser based graphical remote console along with Virtual Power button, remote boot using USB/CD/DVD Drive. It should be capable of offering upgrade of software and patches from a remote client using Media/image/folder; It should support server power capping and historical reporting and should have support for multifactor authentication.</p> <p>3. The system management solution should be provided:</p> <p>a. Firmware and configuration baselines for compliance monitoring and enable automated updates on schedule.</p> <p>b. Scope based access control to limit Users to specific group of devices</p> <p>c. Bare-metal server deployment</p> <p>d. Power and thermal Monitoring, alarm, and automatically execute rules-based remediation.</p> <p>e. Manage remote devices and control power</p>	
20	Monitoring and Analytics	<p>1. Offered servers shall have monitoring an analytics engine for proactive management. All required licenses for same shall be included in the offer.</p>	





		<p>2. Monitoring and analytics engine shall have the capability to provide the following:</p> <p>i. Health and system security monitoring and notification emails</p> <p>ii. Performance monitoring and anomaly detection</p> <p>iii. REST API for integrating data with automation, ticketing, and other tools</p> <p>iv. Visualize server telemetry including key performance, environmental, and power metrics</p> <p>v. Displays health, inventory, alerts, performance, and warranty status</p>	
21	Drivers & Accessories	Drivers for the compatible OS, Add on cards and other accessories to be Provided.	
22	FAN	Server should have fully populated Swappable fans	

We comply with the above Technical and Functional requirements, Non-compliance to any of the above requirement will lead to disqualification of the bidder in technical proposal.

Date:

Signature with Seal
Name:

Designation:

Internal



Technical Specification - 5 servers (2 DC, 1 UAT and 2 DRC)

Technical Details - Type 2		Technical Specification - 5 servers (2 DC, 1 UAT and 2 DRC)	Bidder's Compliance (Yes/No)
Sl. No.	Technical Factor	Description	
1	Make	Bidder to specify	
2	Model	Bidder to specify	
3	Power Factor	Bidder to specify	
4	Form Factor	1U / 2U	
5	Processor		
a.	Processor Architecture	CISC	
b.	Processor Make	x86_64 bit architecture-based CPU's	
c.	Processor	<u>Fifth Generation 2.6 GHz (gigahertz) or above</u>	
d.	CPU	<u>Single Processor</u>	
e.	Socket	<u>Dual</u>	
f.	Cores per socket	<u>Eight Core</u>	
g.	Cache per processor	<u>22 MB cache or higher</u>	
h.	Cooling	Heat Sink	
i.	Platform Controller Hub & Main Board	Latest Chipset / System on Chip (SoC) design. Supporting x86_64 & Suitable server class Main Board or equivalent	
6	Memory		
a.	RAM Type	<u>DDR5 DIMM or Higher</u>	
b.	Ram Size	<u>2 * 16 GB DDR5</u>	
c.	Slot Count	<u>Minimum 4 or higher.</u>	
d.	Speed	<u>Minimum 4800 MT/s or higher (memory speed should be compatible with process speed to provide better performance)</u>	
e.	Features	Advanced ECC (Error Correcting Code) type or similar technology	
7	SSD		
a.	Types of interface for SSD	SATA / NVMe	
b.	Total Capacity for SSD	960GB * 2 SSD	
c.	Slot Count	8 or higher, Minimum 6 free slots should be available for future upgrade	





d.	Usable Space	Minimum 900 GB approximately with 960GB*2SSD After RAID 1.	
8	RAID Controller		
a.	RAID Controller	Should support RAID 1, 5, 6 , 10 or higher	
b.	RAID Battery	RAID 1, 5, 6, 10 or higher with 2GB or higher battery backed write cache	
c.	Cooling	Heat Sink	
d.	Alarm Buzzer	Alarm Buzzer or error indication alerts or equivalent	
e.	Storage Health Inspector	Storage Health Inspector or tools to monitor Storage/disk health	
f.	Features	Automatic and configurable RAID Rebuilding / Single-RAID or Multi-RAID Arrays per Controller	
9	SAN & Network		
a.	FC HBA CARD	<u>One FC Card with minimum 2 number of 32 Gbps FC ports in each card with Supported SFP+ transceivers (With NVME Capable)</u>	
b.	FC Cables	<u>2 Nos of minimum 25 Meter OM4 FC cables or higher for SAN Connectivity (FC HBA & transceivers should Support 16 Gbps & 32Gbps Switch)</u>	
c.	Network ports 1 Gbps	<u>Two 1Gbps network ports:</u> <u>can be Base-T On-board or in separate NIC (Must be in One network cards with minimum two 1Gbps ports in each card)</u> <u>Two Copper shielded Cat 6 Lan cable of 3 Meter to be supplied</u>	
d.	Network ports 10 Gbps	<u>Two 10Gbps network ports:</u> <u>can be Base-T On-board or in separate NIC-(Must be in One network cards with minimum two 10 Gbps ports in each card)</u> <u>Two Copper shielded Cat 6 Lan cable of 3 Meter to be supplied</u>	
e.	Server Management port	Dedicate One Port of 1Gbps-management port chassis card.	



10	OS & Hypervisor Compatibility		
a.	Virtualization compatibility	All latest version of Microsoft-HyperV, VMware, Red Hat virtualization	
b.	Windows Compatibility	2019/2022/2025	
c.	RHEL Compatibility	8.x & 9.x & 10.x Higher versions	
11	Power Supply	Redundant hot swappable power supply, with required power cables	
12	BIOS	UEFI (Unified Extensible Firmware Interface) based system and firmware that supports secure boot)	
13	Warranty And Support	3 Years onsite warranty+ 2 years AMC, On-Site Support Warranty including part replacement/repairs within 6 hours of reporting, and Firmware support for updates, upgrades, patches, and bug fixes for supplied h/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.	
14	Port	3 USB 2.0 port or higher and 1 VGA Port or higher	
15	Serviceability	Light path diagnostic LED or equivalent visual alerts	
16	Security	Silicon root of trust, authenticated BIOS, signed firmware updates and BIOS Live Scanning for malicious firmware Secure Boot, Disk encryption, TPM 2.0 (Trusted Platform Module), Hardware root of trust, malicious code free design.	
17	PCI Slots	Minimum 3 -PCIe Gen4 or higher slots(Peripheral Component Interconnect Express)	
18	Remote Management	<u>1) Management of hardware and software components, Power on/off, boot process, Management log, dedicated Management</u>	



		<p><u>ports.</u></p> <p><u>Monitoring fan, power supply, memory, CPU, RAID, NIC for failures.</u></p> <p><u>Telemetry Streaming, Idle Server Detection.</u></p> <p><u>2)Management software should provide Role Based Security through LDAP or Local and able to provide pre-failure alarms for CPU, Memory & HDD by SMTP.</u></p>	
19	System Management Solution	<p>1. The system management solution is required. The system management solution should collect system information (including impending component failure) from the device that generated the alert and sends the information securely to OEM to Support to troubleshoot the issue and provide an appropriate solution.</p> <p>2. The system management solution should support browser based graphical remote console along with Virtual Power button, remote boot using USB/CD/DVD Drive. It should be capable of offering upgrade of software and patches from a remote client using Media/image/folder; It should support server power capping and historical reporting and should have support for multifactor authentication.</p> <p>3. The system management solution should be provided:</p> <p>a. Firmware and configuration baselines for compliance monitoring and enable automated updates on schedule.</p>	
		<p>b. Scope based access control to limit Users to specific group of devices</p> <p>c. Bare-metal server deployment</p> <p>d. Power and thermal Monitoring, alarm, and automatically execute rules-based remediation.</p> <p>e. Manage remote devices and control power</p>	
20	Monitoring and Analytics	<p>1. Offered servers shall have monitoring an analytics engine for proactive management. All required licenses for same shall be included in the offer.</p>	



		<p>2. Monitoring and analytics engine shall have the capability to provide the following:</p> <p>i. Health and system security monitoring and notification emails</p> <p>ii. Performance monitoring and anomaly detection</p> <p>iii. REST API for integrating data with automation, ticketing, and other tools</p> <p>iv. Visualize server telemetry including key performance, environmental, and power metrics</p> <p>v. Displays health, inventory, alerts, performance, and warranty status</p>	
21	Drivers & Accessories	Drivers for the compatible OS, Add on cards and other accessories to be Provided.	
22	FAN	Server should have redundant fully populated Hot swappable fans	

We comply with the above Technical and Functional requirements, Non-compliance to any of the above requirement will lead to disqualification of the bidder in technical proposal.

Date:

Signature with Seal
Name:

Designation



Technical Specification - 5 servers (2 DC, 1 UAT and 2 DRC)

Technical Details - Type 3		Technical Specification - 5 servers (2 DC, 1 UAT and 2 DRC)	Bidder's Compliance (Yes/No)
Sl. No.	Technical Factor	Description	
1	Make	Bidder to specify	
2	Model	Bidder to specify	
3	Power Factor	Bidder to specify	
4	Form Factor	1U / 2U	
5	Processor		
a.	Processor Architecture	CISC	
b.	Processor Make	x86_64 bit architecture-based CPU's	
c.	Processor	Fifth Generation 2.6 GHz (gigahertz) or above	
d.	CPU	2 Processor	
e.	Socket	Dual	
f.	Cores per socket	Eight Core	
g.	Cache per processor	22 MB cache or Higher	
h.	Cooling	Heat Sink	
i.	Platform Controller Hub & Main Board	Latest Chipset / System on Chip (SoC) design. Supporting x86_64 & Suitable server class Main Board or equivalent	
6	Memory		
a.	RAM Type	DDR5 DIMM or Higher	
b.	Ram Size	2 * 32 GB DDR5	
c.	Slot Count	Minimum 4 or higher.	
d.	Speed	Minimum 4800 MT/s or higher (memory speed should be compatible with process speed to provide better performance)	
e.	Features	Advanced ECC (Error Correcting Code) type or similar technology	
7	SSD		
a.	Types of interface for SSD	SATA / NVMe	
b.	Total Capacity for SSD	960GB * 2 SSD	
c.	Slot Count	8 or higher, Minimum 6 free slots should be available for future upgrade	



d.	Usable Space	Minimum 900 GB approximately with 960GB*2SSD After RAID 1.
8	RAID Controller	
a.	RAID Controller	Should support RAID 1, 5, 6 , 10 or higher
b.	RAID Battery	RAID 1, 5, 6, 10 or higher with 2GB or higher battery backed write cache
c.	Cooling	Heat Sink
d.	Alarm Buzzer	Alarm Buzzer or error indication alerts or equivalent
e.	Storage Health Inspector	Storage Health Inspector or tools to monitor Storage/disk health
f.	Features	Automatic and configurable RAID Rebuilding / Single-RAID or Multi-RAID Arrays per Controller
9	SAN & Network	
a.	FC HBA CARD	Two FC Card with minimum 2 number of 32 Gbps FC ports in each card with Supported SFP+ transceivers (With NVME Capable)
b.	FC Cables	<u>2 Nos of minimum 25 Meter OM4 FC cables or higher for SAN Connectivity (FC HBA & transceivers should Support 16 Gbps & 32Gbps Switch)</u>
c.	Network ports 1 Gbps	<u>Two 1Gbps network ports: can be Base-T On-board or in separate NIC (Must be in One network cards with minimum two 1Gbps ports in each card)</u> <u>Two Copper shielded Cat 6 Lan cable of 3 Meter to be supplied</u>
d.	Network ports 10 Gbps	<u>Two 10Gbps network ports: can be Base-T On-board or in separate NIC-(Must be in One network cards with minimum two 10 Gbps ports in each card)</u> <u>Two Copper shielded Cat 6 Lan cable of 3 Meter to be supplied</u>
e.	Server Management port	Dedicate One Port of 1Gbps-management port chassis card.
10	OS & Hypervisor Compatibility	





a.	Virtualization compatibility	All latest version of Microsoft-HyperV,VMware, Red Hat virtualization	
b.	Windows Compatibility	2019/2022/2025	
c.	RHEL Compatibility	8.x & 9.x & 10.x Higher versions	
11	Power Supply	Redundant hot swappable power supply, with required power cables	
12	BIOS	UEFI (Unified Extensible Firmware Interface) based system and firmware that supports secure boot)	
13	Warranty And Support	3 Years onsite warranty+ 2 years AMC, On-Site Support Warranty including part replacement/repairs within 6 hours of reporting, and Firmware support for updates, upgrades, patches, and bug fixes for supplied h/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.	
14	Port	3 USB 2.0 port or higher and 1 VGA Port or higher	
15	Serviceability	Light path diagnostic LED or equivalent visual alerts	
16	Security	Silicon root of trust, authenticated BIOS, signed firmware updates and BIOS Live Scanning for malicious firmware Secure Boot, Disk encryption, TPM 2.0 (Trusted Platform Module), Hardware root of trust, malicious code free design.	

Internal





17	PCI Slots	Minimum 6 -PCIe Gen4 or higher slots(Peripheral Component Interconnect Express)	
18	Remote Management	<p><u>1) Management of hardware and software components, Power on/off, boot process, Management log, dedicated Management ports.</u></p> <p><u>Monitoring fan, power supply, memory, CPU, RAID, NIC for failures. Telemetry Streaming, Idle Server Detection.</u></p> <p><u>2)Management software should provide Role Based Security through LDAP or Local and able to provide pre-failure alarms for CPU, Memory & HDD by SMTP.</u></p>	
	System Management Solution	<p>1. The system management solution is required. The system management solution should collect system information (including impending component failure) from the device that generated the alert and sends the information securely to OEM to Support to troubleshoot the issue and provide an appropriate solution.</p>	
19		<p>2. The system management solution should support browser based graphical remote console along with Virtual Power button, remote boot using USB/CD/DVD Drive. It should be capable of offering upgrade of software and patches from a remote client using Media/image/folder; It should support server power capping and historical reporting and should have support for multifactor authentication.</p> <p>3. The system management solution should be provided:</p> <p>a. Firmware and configuration baselines for compliance monitoring and enable automated updates on schedule.</p> <p>b. Scope based access control to limit Users to specific group of devices</p>	





		<p>c. Bare-metal server deployment</p> <p>d. Power and thermal Monitoring, alarm, and automatically execute rules-based remediation.</p> <p>e. Manage remote devices and control power</p>	
20	<p>Monitoring</p> <p>and Analytics</p>	<p>1. Offered servers shall have monitoring an analytics engine for proactive management. All required licenses for same shall be included in the offer.</p> <p>2. Monitoring and analytics engine shall have the capability to provide the following:</p> <p>i. Health and system security monitoring and notification emails</p> <p>ii. Performance monitoring and anomaly detection</p> <p>iii. REST API for integrating data with automation, ticketing, and other tools</p> <p>iv. Visualize server telemetry including key performance, environmental, and power metrics</p> <p>v. Displays health, inventory, alerts, performance, and warranty status</p>	
21	Drivers & Accessories	Drivers for the compatible OS, Add on cards and other accessories to be Provided.	
22	FAN	Server should have redundant fully populated Hot swappable fans	

We comply with the above Technical and Functional requirements, Non-compliance to any of the above requirement will lead to disqualification of the bidder in technical proposal.

Date:

Designation:

Signature with Seal
Name:

Internal



Technical Specification - 5 servers (2 DC, 1 UAT and 2 DRC)

Technical Details - Type 4		Technical Specification - 5 servers (2 DC, 1 UAT and 2 DRC)	Bidder's Compliance (Yes/No)
Sl. No	Technical Factor	Description	
1	Make	Bidder to specify	
2	Model	Bidder to specify	
3	Power Factor	Bidder to specify	
4	Form Factor	1U / 2U	
5	Processor		
a.	Processor Architecture	CISC	
b.	Processor Make	x86_64 bit architecture-based CPU's	
c.	Processor	<u>Fifth Generation</u> 2.6 GHz (gigahertz) or above	
d.	CPU	<u>Single Processor</u>	
e.	Socket	<u>Dual</u>	
f.	Cores per socket	<u>Eight Core</u>	
g.	Cache per processor	<u>22 MB cache or Higher</u>	
h.	Cooling	Heat Sink	
i.	Platform Controller Hub & Main Board	Latest Chipset / System on Chip (SoC) design. Supporting x86_64 & Suitable server class Main Board or equivalent	
6	Memory		
a.	RAM Type	<u>DDR5 DIMM or Higher</u>	
b.	Ram Size	<u>2 * 16 GB DDR5</u>	
c.	Slot Count	<u>Minimum 4 or higher.</u>	
d.	Speed	<u>Minimum 4800 MT/s or higher (memory speed should be compatible with process speed to provide better performance)</u>	
e.	Features	Advanced ECC (Error Correcting Code) type or similar technology	
7	SSD		
a.	Types of interface for SSD	SATA / NVMe	
b.	Total Capacity for SSD	960GB * 2 SSD	
c.	Slot Count	8 or higher, Minimum 6 free slots should be available for future upgrade	
d.	Usable Space	Minimum 900 GB approximately with 960GB*2SSD After RAID 1.	
8	RAID Controller		

Internal





a.	RAID Controller	Should support RAID 1, 5, 6, 10 or higher	
b.	RAID Battery	RAID 1, 5, 6, 10 or higher with 2GB or higher battery backed write cache	
c.	Cooling	Heat Sink	
d.	Alarm Buzzer	Alarm Buzzer or error indication alerts or equivalent	
e.	Storage Health Inspector	Storage Health Inspector or tools to monitor Storage/disk health	
f.	Features	Automatic and configurable RAID Rebuilding / Single-RAID or Multi-RAID Arrays per Controller	
9	SAN & Network		
a.	FC HBA CARD	<u>One FC Card with minimum 2 number of 32 Gbps FC ports in each card with Supported SFP+ transceivers (With NVME Capable)</u>	
b.	FC Cables	<u>2 Nos of minimum 25 Meter OM4 FC cables or higher for SAN Connectivity (FC HBA & transceivers should Support 16 Gbps & 32Gbps Switch)</u>	
c.	Network ports 1 Gbps	<u>Two 1Gbps network ports: can be Base-T On-board or in separate NIC (Must be in One network cards with minimum two 1Gbps ports in each card)</u> <u>Two Copper shielded Cat 6 Lan cable of 3 Meter to be supplied</u>	
d.	Network ports 10 Gbps	<u>Two 10Gbps network ports: can be Base-T On-board or in separate NIC—(Must be in One network cards with minimum two 10 Gbps ports in each card)</u> <u>Two Copper shielded Cat 6 Lan cable of 3 Meter to be supplied</u>	
e.	Server Management port	Dedicate One Port of 1Gbps-management port chassis card.	
10	OS & Hypervisor Compatibility		
a.	Virtualization compatibility	All latest version of Microsoft-HyperV, VMware, Red Hat virtualization	
b.	Windows Compatibility	2019/2022/2025	
c.	RHEL Compatibility	8.x & 9.x & 10.x Higher versions	
11	Power Supply	Redundant hot swappable power supply, with required power cables	



12	BIOS	UEFI (Unified Extensible Firmware Interface) based system and firmware that supports secure boot)	
13	Warranty And Support	3 Years onsite warranty+ 2 years AMC, On-Site Support Warranty including part replacement/repairs within 6 hours of reporting, and Firmware support for updates, upgrades, patches, and bug fixes for supplied h/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.	
14	Port	3 USB 2.0 port or higher and 1 VGA Port or higher	
15	Serviceability	Light path diagnostic LED or equivalent visual alerts	
16	Security	Silicon root of trust, authenticated BIOS, signed firmware updates and BIOS Live Scanning for malicious firmware Secure Boot, Disk encryption, TPM 2.0 (Trusted Platform Module), Hardware root of trust, malicious code free design.	
17	PCI Slots	Minimum 3 -PCIe Gen4 or higher slots(Peripheral Component Interconnect Express)	
18	Remote Management	<u>1) Management of hardware and software components, Power on/off, boot process, Management log, dedicated Management ports.</u> <u>Monitoring fan, power supply, memory, CPU, RAID, NIC for failures.</u> <u>Telemetry Streaming, Idle Server Detection.</u>	



		<p><u>2)Management software should provide Role Based Security through LDAP or Local and able to provide pre-failure alarms for CPU, Memory & HDD by SMTP.</u></p>	
19	System Management Solution	<p>1. The system management solution is required. The system management solution should collect system information (including impending component failure) from the device that generated the alert and sends the information securely to OEM to Support to troubleshoot the issue and provide an appropriate solution.</p> <p>2. The system management solution should support browser based graphical remote console along with Virtual Power button, remote boot using USB/CD/DVD Drive. It should be capable of offering upgrade of software and patches from a remote client using Media/image/folder; It should support server power capping and historical reporting and should have support for multifactor authentication.</p> <p>3. The system management solution should be provided:</p> <p>a. Firmware and configuration baselines for compliance monitoring and enable automated updates on schedule.</p> <p>b. Scope based access control to limit Users to specific group of devices</p> <p>c. Bare-metal server deployment</p> <p>d. Power and thermal Monitoring, alarm, and automatically execute rules-based remediation.</p> <p>e. Manage remote devices and control power</p>	
20	Monitoring and Analytics	<p>1. Offered servers shall have monitoring an analytics engine for proactive management. All required licenses for same shall be included in the offer.</p> <p>2. Monitoring and analytics engine shall have the capability to provide the following:</p> <p>i. Health and system security monitoring and notification emails</p> <p>ii. Performance monitoring and anomaly detection</p>	

Internal



		<p>iii. REST API for integrating data with automation, ticketing, and other tools</p> <p>iv. Visualize server telemetry including key performance, environmental, and power metrics</p> <p>v. Displays health, inventory, alerts, performance, and warranty status</p>	
21	Drivers & Accessories	Drivers for the compatible OS, Add on cards and other accessories to be Provided.	
22	FAN	Server should have redundant fully populated Hot swappable fans	

We comply with the above Technical and Functional requirements, Non-compliance to any of the above requirement will lead to disqualification of the bidder in technical proposal.

Date:

Signature with Seal

Designation:

Name:



Annexure-16
Bill of Material

SUB: Supply, Installation, Configuration, Implementation and Maintenance of 20 Nos. of Servers and other IT Infra Components for a period of five (05) years in Canara Bank

Ref: GEM/2025/B/6571392 dated 14/08/2025.

Notes

1. These details should be on the letter head of Bidder and each & every page should be signed by an Authorized Signatory with Name and Seal of the Company.
2. Please be guided by RFP terms, subsequent amendments and replies to pre-bid queries (if any) while quoting.
3. Do not change the structure of the format nor add any extra items.
4. No counter condition/assumption in response to commercial bid will be accepted. Bank has a right to reject such bid.

Table - A
Cost for Hardware Items

Sl. No.	Item Details	Unit Cost with Three years Comprehensive onsite warranty and support (Excl. of Taxes)	Qty.	Total Cost with Three years Comprehensive onsite warranty and support (Excl. of Taxes)	Tax for Column c			Total Cost with Three years Comprehensive onsite warranty and support (Incl. of Taxes)
					% of Tax	Tax Amt.	e	
		a	b	c=a*b	d	e	f=c+e	
1.	Type 1 Server (DC -3, DR -2)		5					
2.	Type 2 and Type 4 Server (DC -6, DR -4)		10					
3.	Type 3 Server (DC -3, DR -2)		5					
4.	Total Cost for Hardware Items							



Table-B
Cost for Software/License Items with comprehensive support (Subscription based Licenses for 5 years)

Sl. No.	Item Details	Unit cost with comprehensive support for 5 Years (Excl. of Tax)	Qty.	Total Cost with comprehensive support for 5 Years (Excl. of Tax)	[Amount in Indian Rupees]		
					Tax for Column c		Total Cost with comprehensive support for 5 Years (Incl. of Tax)
					% of Tax	Tax Amt.	
a	b	d	e	f=c+e			
1.	RHEL 9 with premium support		20	c=a*b			
2.	RHEL 9 High Availability with premium support		4				
3.	Apache Tomcat Enterprise Edition with support - instance base		17				
4.	PostgreSQL 16.4 (16 core DC, Enterprise plan with production support 24 hours * 7 days) or later version with support		1				
5.	PostgreSQL 16.4 (16 core DRC, Enterprise plan with basic support 5 days a week) or later version with support		1				
6.	PostgreSQL 16.4 (4 core UAT, Enterprise plan with basic support 5 days a week) or later version with support		1				
Total Cost for Software/License Items with comprehensive support							

Table - C
AMC Cost for Hardware mentioned in Table-A for 2 Years on post warranty

Sl. No.	Item Details	Cost for AMC (Excl. of Tax)		Qty.	Total AMC Cost for 2 years (Excl. of Tax)	Tax for Column d		Total AMC Cost for 2 years (Incl. of Tax)
		4 th Year	5 th Year			% of Tax	Tax Amt.	
		a	b			e	f	
A. Hardware								
1.	Type 1 Server (DC -3, DR -2)			5	$d=(a+b)*c$			$g=(d+f)$
2.	Type 2 and Type 4 Server (DC -6, DR -4)			10				
3.	Type 3 Server (DC -3, DR -2)			5				
4.	Total AMC Cost for Hardware for 2 Years on post warranty							



Internal

Table - D
Total Cost of the Hardware, Software and optional items for 5 Years

Sl. No.	Requirement Details	Total Cost of the Hardware, Software and optional items for 5 Years (Incl. of Taxes)
1.	Total Cost for Hardware Items as per Table-A	
2.	Total Cost for Software/License Items with comprehensive support Items as per Table-B	
3.	Total AMC Cost for Hardware for 2 Years on post warranty as per Table-C	
4.	Total Cost of Ownership for 5 Years (Sum of Sl. No. 1 to 3)	

Declaration:

- Bill of material is submitted on the letter head and is signed by an Authorized Signatory with Name and Seal of the Company.
- We confirm that we have gone through RFP clauses, subsequent amendments and replies to pre-bid queries (if any) and abide by the same.
- We have not changed the structure of the format nor added any extra items. We note that any such alternation will lead to rejection of Bid.
- We agree that no counter condition/assumption in response to commercial bid will be accepted by the Bank. Bank has a right to reject such bid.
- We are agreeable to the payment schedule as per "Payment Terms" of the RFP.

Date:

Place:

Authorized signatory

Name:

Designation:

Company seal

