

Corrigendum-3 to GeM Bid ref no. GEM/2022/B/2427109 dated 10/08/2022 for Supply, Installation, Configuration, Implementation and Maintenance of Servers with three years warranty and two years AMC.

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

a. Bid Document (Serial No. 1 & 2, Page no. 1):

Description	Existing details	Amended details
Bid End Date/Time	13-09-2022, 15:00:00	<u>19-09-2022</u> , 15:00:00
Bid Opening Date/Time	13-09-2022, 15:30:00	<u>19-09-2022</u> , 15:30:00

Sl. No.	Section/ Annexure/ Appendix of the GeM bid	Clause No.	Existing	Amended
b.	Annexure-2 Technical Specification	Sl. No. 1 Form Factor	1U/2U Rack Mountable Server with Rail Kits & Screws. Bezel	1U/2U Rack Mountable Server with Rail Kits & Screws <u>or screw less rail kit.</u> Bezel

c.	Annexure-2 Technical Specification	Sl. No. 2 Processor	Latest Generation x86 64 Bit architecture-based CPU's minimum 2x32 core Processor, <u>minimum 3 GHz Clock speed</u> and 24 MB L3 Cache.	Latest Generation x86 64 Bit architecture-based CPU's. Minimum 32*2 <u>=64 core - Minimum 2.8 GHz Clock speed</u> and 24 MB L3 Cache.
d.	Annexure-2 Technical Specification	Sl. No. 3 Platform Controller Hub	<u>Latest Chipset Supporting x86-64 Architecture</u>	<u>Latest Chipset / System on Chip (SoC) design. Supporting x86-64</u>
e.	Annexure-2 Technical Specification	Sl. No. 5 Security	<ul style="list-style-type: none"> • TPM 2.0 (optional) • Cryptographically signed firmware • Hardware root of trust • Secure Boot • System Lockdown • System Erase • BitLocker Drive Encryption • AES New Instructions • Trusted Execution Technology 	<ul style="list-style-type: none"> • TPM 2.0 (optional) • Cryptographically signed firmware • Hardware root of trust • Secure Boot • System Lockdown • System Erase • SED for Disk encryption • AES New Instructions • Trusted Execution Technology
f.	Annexure-2 Technical Specification	Sl. No. 6 Memory	<ul style="list-style-type: none"> • Module Type: DDR4 DIMM or Higher • Capacity: Minimum 128 GB or higher • Slot Count: Minimum 24 • Speed: Minimum 2933 Mhz or higher • Advanced ECC (Error Correcting Code) type or similar technology • Registered ECC DIMMs 	<ul style="list-style-type: none"> • Module Type: DDR4 DIMM or Higher • Capacity: Minimum 64 GB * 8 Nos.= 512 GB memory • Slot Count: Minimum 24 or higher, Minimum 16 free memory slots should be available. • Speed: Minimum 2933 Mhz or higher • Advanced ECC (Error Correcting Code) type or similar technology • Registered ECC DIMMs
g.	Annexure-2 Technical Specification	Sl. No. 7 Raid Controller	<ul style="list-style-type: none"> • Interface: PCIe 3.0 or higher • <u>Cache: 2GB or higher</u> • <u>RAID 0, 1, 5, 10 or higher with 4GB battery-backed write cache.</u> 	<ul style="list-style-type: none"> • Interface: PCIe 3.0 or higher • <u>RAID 0, 1, 5, 10 or higher with 2GB or higher battery-backed write cache.</u> • Cooling: Heat sink with intelligent Fan

			<ul style="list-style-type: none"> • Cooling: Heat sink with intelligent Fan • Management: Browser based Tool, CLI (Command Line Interface- scriptable configuration tool) • <u>Alarm Buzzer</u> • <u>Storage Health Inspector</u> • Automatic and configurable RAID Rebuilding • Single-RAID or Multi-RAID Arrays per Controller • RAID controller shall support RAID-pass through/JBODs(Just Bunch of Disk) and large queue-depths to support VMWare VSAN hosting requirements. 	<ul style="list-style-type: none"> • Management: Browser based Tool, CLI (Command Line Interface- scriptable configuration tool) • <u>Alarm Buzzer or error indication alerts</u> • <u>Storage Health Inspector or tools to monitor Storage/disk health</u> • Automatic and configurable RAID Rebuilding • Single-RAID or Multi-RAID Arrays per Controller • RAID controller shall support RAID-pass-through/JBODs (Just Bunch of Disk) and large queue-depths to support VMWare VSAN hosting requirements
h.	Annexure-2 Technical Specification	Sl. No. 8 Disks	<ul style="list-style-type: none"> • <u>Capacity: minimum 2 TB SSD or higher capacity</u> • <u>Slot Count: 8 or higher</u> • Service: Hot swappable • Additional free slots to add SSDs for future upgrade. 	<ul style="list-style-type: none"> • <u>Capacity: 1.92 TB *5 SSD disks. Raid 5 with one SSD will be hot spare (usable space:5 TB approx.)</u> • <u>Slot Count: 8 or higher, Minimum 3 free slots should be available.</u> • Service: Hot swappable • Additional free slots to add SSDs for future upgrade.
i.	Annexure-2 Technical Specification	Sl. No. 9 Ethernet	<ul style="list-style-type: none"> • <u>Two Port of 1Gbase-T On-Board LOM with supported minimum 5 meter Cat6/Cat7/Cat8 UTP Cable</u> • Two Port of 10GbE Base T LOM with Supported minimum 5 Meter Cat6/Cat7/Cat8 UTP Cable • Dedicate One Port of 1Gbase-T management port chassis card with minimum 5 meter Cat6/Cat7/Cat8 UTP Cable. 	<ul style="list-style-type: none"> • <u>Two Port of 1Gbase-T On-Board LOM or separate NIC with supported minimum 5 meter Cat6/Cat7/Cat8 UTP Cable</u> • Two Port of 10GbE Base T LOM or separate NIC with Supported minimum 5 Meter Cat6/Cat7/Cat8 UTP Cable. • Dedicate One Port of 1Gbase-T management port chassis card with

				minimum 5 meter Cat6/Cat7/Cat8 UTP Cable.
j.	Annexure-2 Technical Specification	Sl. No. 10 FC HBA	1 No of Dual Port 32GB FC HBA PCIe with Supported SFP+ transceivers and 2 Nos of minimum 10 Meter OM3/OM4 FC cable or higher for SAN Connectivity to existing SAN Switches & Storage (FC HBA & transceivers should Support <u>16 GBps Switch</u>)	1 No of Dual Port 32GB FC HBA PCIe with Supported SFP+ transceivers and 2 Nos of minimum 10 Meter OM3/OM4 FC cable or higher for SAN Connectivity to existing SAN Switches & Storage (FC HBA & transceivers should Support <u>16 GBps & 32GBps Switch</u>)
k.	Annexure-2 Technical Specification	Sl. No. 18 UEFI Firmware	<u>UEFI (Unified Extensible Firmware Interface) 2.3.1c-based system and firmware that supports secure boot.</u>	<u>Drivers for the compatible OS, Add on cards and other accessories to be provided.</u>
l.	Annexure-2 Technical Specification	Sl. No. 19 Drivers & Accessories	<u>Required drivers and accessories to be provided</u>	<u>Drivers for the compatible OS, Add on cards and other accessories to be provided.</u>
m.	Annexure-2 Technical Specification	Sl. No. 19 Warranty and Support	03 Years, Comprehensive, 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 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.	03 Years, Comprehensive, 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 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.

				<u>The server warranty will include advance replacement where replacement spares will be provided before taking the faulty back.</u>
n.	Annexure-1 Scope of Work	Point no. 48 The Bidder will responsible for the following:	<p>48.1. Delivery of proposed hardware to Bank locations specified in BID.</p> <p>48.2. Safely Unpacking of shipped boxes at staging area.</p> <p>48.3. Physical movement of supplied hardware from staging area to Server Farm.</p> <p>48.4. Identification and labeling of hardware assets as per delivery invoices.</p> <p>48.5. Rack assembling, installation and power connectivity from industrial sockets and testing of required power rating.</p> <p>48.6. Mounting of servers, storages and network switches to server rack as per industry best practices.</p> <p>48.7. Server power on and cable dressing.</p> <p>48.8. Server Management connectivity.</p> <p>48.9. LAN and SAN Cable lay with proper labeling, tagging and cable dressing.</p> <p>48.10. Configuration of RAID as per requirement in supplied Servers.</p> <p><u>48.11. Installation and configuration of supplied storage.</u></p> <p><u>48.12. Creation of LUNs and mapping of host.</u></p> <p><u>48.13. Preparation of LLD/HLD and submit to Bank.</u></p> <p><u>48.14. SAN connectivity to bank existing SAN Switch mentioned in this GeM Bid.</u></p> <p>48.15. LAN connectivity to proposed and bank</p>	<p>48.1. Delivery of proposed hardware to Bank locations specified in BID.</p> <p>48.2. Safely Unpacking of shipped boxes at staging area.</p> <p>48.3. Physical movement of supplied hardware from staging area to Server Farm.</p> <p>48.4. Identification and labeling of hardware assets as per delivery invoices.</p> <p>48.5. Rack assembling, installation and power connectivity from industrial sockets and testing of required power rating.</p> <p>48.6. Mounting of servers, storages and network switches to server rack as per industry best practices.</p> <p>48.7. Server power on and cable dressing.</p> <p>48.8. Server Management connectivity.</p> <p>48.9. LAN and SAN Cable lay with proper labeling, tagging and cable dressing.</p> <p>48.10. Configuration of RAID as per requirement in supplied Servers.</p> <p><u>48.14: Support for SAN connectivity to bank existing SAN Switch.</u></p> <p>48.15. LAN connectivity to proposed and bank existing switch.</p> <p><u>48.17. Support for external storage connectivity assigned during the implementation period and till the project</u></p>

			<p>existing switch.</p> <p><u>48.16. SMTP Configuration of proactive alert and auto call logging facility.</u></p> <p><u>48.17. 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.</u></p> <p><u>48.18. The bidder need to coordinate with Bank and existing vendor for the purpose of installation and configuration of antivirus, server configuration management, server & DB monitoring, backup software, SIEM integration etc. the details will be provided to selected bidder.</u></p> <p><u>48.19. The bidder needs to provide Standard operating procedure (SOP) document for architecture, configuration, BCP.</u></p>	<p><u>tenure (Warranty and AMC/ATS, if contracted) without any extra cost.</u></p>
o.	Annexure-1 Scope of Work	Point no. 16	Bidder must provide detail architecture of the provided solution along Installation and Administration guide, which must include High level Design (HLD) and Low Level Design (LLD).	<u>Point no. 16 has been removed.</u>
p.	Annexure-1 Scope of Work	Point no. 22	All installed OS software/firmware must be of stable version and all recommended patches should be installed by the bidder and the same to be submitted to the bank on monthly basis.	<u>All installed firmware must be of stable version and all recommended firmware patches should be installed by the bidder."</u>
q.	Annexure-1 Scope of Work	Point no. 44	The bidder has to ensure the proposed Microsoft License to be registered in existing account i.e. 6172473 (User: hodit_dcm) for Red Hat portal.	<u>Point no. 44 has been removed.</u>


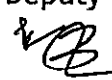
r.	Annexure-1 Scope of Work	Point no. 46	46. <u>The proposed server network interfaces ports should be compatible for connecting proposed CISCO switches for private zone connectivity and Bank existing CISCO Nexus 9000 series switches for public zone connectivity as per Oracle datasheets/documents for RAC.</u>	46. <u>The proposed server network interfaces ports should be compatible for connecting proposed CISCO switches for private zone connectivity and Bank existing CISCO Nexus 9000 series switches for public zone connectivity"</u>
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All the other instructions and terms & conditions of the above GeM bid shall remain unchanged.

Please take note of the above amendments while submitting your response to the subject GeM bid.

Date: 12/09/2022

Place: Bengaluru


Deputy General Manager


*****End of the Corrigendum-3*****