



Corrigendum-3 to GeM Bid ref. no. GEM/2022/B/2747790 dated 17/11/2022 for Supply, Installation, Configuration, Implementation and Maintenance of 84 No's of Servers (42 DC & 42 DRC) with three years' warranty and two years AMC in Canara Bank.

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

Sl. No.	Section/ Annexure/ Appendix of the GeM bid	Clause No.	Existing	Amended
a.	Buyer Added Bid Specific Terms and Conditions 7. Buyer Added Bid Specific STC	Annexure-1 Scope of Work	13. Bidder is responsible for collection of logs and submission of the logs for further analysis and providing the solution to resolve any hardware and incidents.	13. Bidder is responsible for collection of logs and submission of the logs for further analysis and providing the solution to resolve <u>the supplied hardware and operating systems and Hypervisor incidents.</u>
b.	Buyer Added Bid Specific Terms and Conditions 7. Buyer Added Bid Specific STC	Annexure-1 Scope of Work	43. The Bidder will responsible for the following: Mounting of servers, storages and network switches to server rack as per industry best practices.	43. The Bidder will responsible for the following: <u>Mounting of servers to server rack as per industry best practices.</u>
c.	Buyer Added Bid Specific Terms and Conditions 7. Buyer Added Bid Specific STC	Annexure-1 Scope of Work	43. The Bidder will responsible for the following: 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.	43. The Bidder will responsible for the following: All activities related to <u>server</u> administration assigned during the implementation period and till the project tenure (Warranty and AMC/ATS, if contracted) without any extra cost.
d.	Buyer Added Bid Specific Terms and Conditions 8. Buyer Added Bid Specific STC	Annexure-2 Technical Specification for Servers	Existing clause	The amended Technical Specification is attached to this corrigendum as <u>Amended Annexure-2.</u>



e.	Buyer Added Bid Specific Terms and Conditions 8. Buyer Added Bid Specific STC	Annexure-10 Bill of Material	Existing clause	The amended Bill of Material is attached to this corrigendum-3 as <u>Amended Annexure-10.</u>
f.	Buyer Added Bid Specific Terms and Conditions 8. Buyer Added Bid Specific STC	Clause-13 Penalties/Liquidated Damages	Existing clause	The amended Clause-14 Payment Terms is attached to this corrigendum-3 as <u>Clause- 13 Amended Penalties/Liquidated Damages.</u>
g.	Buyer Added Bid Specific Terms and Conditions 8. Buyer Added Bid Specific STC	Clause-14 Payment Terms	Existing clause	The amended Clause-14 Payment Terms is attached to this corrigendum-3 as <u>Clause- 14 Amended Payment Terms.</u>

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: 09/12/2022

Place: Bengaluru

  
Deputy General Manager  


(Technical Specification)

SUB: Supply, Installation, Configuration, Implementation and Maintenance of 84 No's of Servers (42 DC & 42 DRC) with three years' warranty and two years AMC.

Ref: GEM/2022/B/2747790 dated 17/11/2022

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 equipments 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.

Technical Specification for Servers:

Sl. No.	Particulars		Detailed Configuration	Configuration proposed by the Bidder
1.	Form Factor	Form Factor	1U / 2 U	
2.	Processor	Processor Architecture	CISC	
		Processor Make	Latest Generation x86 64 Bit architecture-based CPU's	
		Processor	2.8Ghz or above	
		Socket	minimum two populated socket i.e. ( 32*2 = 64 core )	
		Cores per socket	32	
		Cache	24 MB L3 Cache or higher	
		Platform Controller Hub & Main Board	Latest Chipset / System on Chip (SoC) design. Supporting x86-64 & Suitable server class Main Board or equivalent	
3.	Memory	RAM Type	DDR4 DIMM or Higher	
		Ram Size	64GB*16 = 1 TB	
		Slot Count	Minimum 24 or higher , Minimum 8 free memory slots should be available.	
		Speed	Minimum 2933 Mhz or higher ( memory speed should be compatible with processor speed to provide better performance )	

		Features	Advanced ECC (Error Correcting Code) type or similar technology.	
4.	SSD	Types of interface for SSD	SAS/SATA.	
		Total Capacity for sata SSD	1.92 TB SSD disks (to support RAID 1,5,6,10)	
		Slot Count	10 or higher, Minimum 5 free slots should be available for future upgrade.	
		Usable Space	Minimum 3 TB approx. After RAID 10	
5.	RAID Controller	RAID Battery	RAID 1, 5, 6, 10 or higher with 2GB or higher battery backed write cache.	
		Cooling	Heat sink.	
		Alarm Buzzer	Alarm Buzzer or error indication alerts.	
		Storage Health Inspector	Storage Health Inspector or tools to monitor Storage/disk health.	
		Features	Automatic and configurable RAID Rebuilding / Single-RAID or Multi-RAID Arrays per Controller.	
6.	Network	FC HBA CARD	Two FC Card with minimum 1 number of 32 Gbps FC ports in each card with Supported SFP+ transceivers.	
		FC Cables	2 Nos of minimum 15 Meter OM3/OM4 FC cables or higher for SAN Connectivity (FC HBA & transceivers should Support 16 Gbps & 32Gbps Switch).	
		Network cards 1 Gbps	2*1Gbps (Two Port of 1Gbase-T On-Board or separate NIC with supported minimum 5 meter of compatible Cat6/Cat7 UTP Cable).	
		Network cards 10 Gbps	2*10Gbps (Two Port of 10GbE Base T On-Board or separate NIC with minimum 5 Meter of compatible CAT6A/CAT7 Cables).	
		Network cards Management port	Dedicate One Port of 1Gbps-management port chassis card with minimum 5 meter Cat6/Cat7/Cat8 UTP Cable.	
7.	OS & Hypervisor Certification	Hypervisor compatibility	All latest version of Microsoft-Hyper-V, VMware, Redhat KVM other virtualization softwares.	
		Windows Compatibility	2019/2022.	
		RHEL Compatibility	7.x ,8.x & 9.x versions.	
8.	Power Supply	Power Supply	Redundant power supply, with required power cables	



9.	BIOS	BIOS	UEFI (Unified Extensible Firmware Interface) based system and firmware that supports secure boot)	
10.	Warranty And Support	Warranty And Support	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 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	
11.	Port	Port	3 USB3.0 port and 1 VGA Port	
12.	Serviceability	Serviceability	Light path diagnostic LED or equivalent visual alerts	
13.	Security	Security	Secure Boot, Disk encryption , TPM 2.0 (Trusted Platform Module), Hardware root of trust, malicious code free design	
14.	PCI Slots	PCI Slots	minimum 4 - x16 PCIe Gen4 or higher lots((Peripheral Component Interconnect Express)	
15.	Remote Management	Remote Management	1) Management of hardware and software components, Power on/off, boot process, Management log, dedicated Management ports. Should able to integrate with industry wide KVM (Kernel-based Virtual Machine) solution 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.	
16.	Drivers & Accessories	Drivers & Accessories	Drivers for the compatible OS, Add on cards and other accessories to be Provided.	
17.	FAN	FAN	Server should have redundant fully populated Hot swap fans	





18.	Tape Library	Tape Library	<p>Two Tape library (1DC &amp; 1DRC)</p> <p>1) minimum 8 to 10 numbers LTO-8 tape drives with FC Connectivity of speed to support both 16/32Gbps</p> <p>2) Minimum 50 Free tape slots should be available in library to accommodate the tapes.</p> <p>3) Necessary OM3/OM4 FC cables of length 15 meters.</p>	
19.	Tapes	LTO-8 Tapes	<p>1000 quantities (500 DC &amp; 500 DRC) of Linear Tape Open LTO-8 (12/30TB) Ultrium Data Cartridges with customized barcodes compatible with the proposed Tape Library mentioned in Sl. No. 18. (above).</p> <p>Replacement warranty for defects in manufacturing and material defects for the useful life of the product, or until end of support of the product</p>	
20.	Server Rack For placing servers	Server Rack For placing servers	<p>8 racks with the below mention specifications (4 DC &amp; 4 DRC)</p> <p>1) Black Color</p> <p>2) 42U Rack Frame with all necessary side panels</p> <p>3) Rack wheels for rack movement</p> <p>4) 600 mm*1200mm (600mm - Width, 1200mm Depth)</p> <p>5) Mechanical lock with key for both front</p> <p>6) back door of rack Handle for both front and back door</p> <p>7) Server rack mount power distribution unit 1Ph,230V,32A50/60Hz.</p> <p>8) Zero U standard with minimum 20 x C13 (20 power sockets with C13.type) and minimum 4 x C19 (4 power socket with C19 type) Per PDU</p> <p>9) 16A MCB X 2 circuits - PDU rating approximate 8KVA</p> <p>10)Bottom Feed - 3Mt</p> <p>11)Levellers</p> <p>12)Required Ganging kits and necessary tool for mounting PDU and side doors</p> <p>13)necessary Cable organizer</p> <p><u>Intelligent PDU with below features is required</u></p> <p>1) Inlet / outlet metering display is preferred</p>	



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Canara Bank

			2)DUAL NETWORK ACCESS to access and monitor the PDU remotely 3)REMOTE Management access.	
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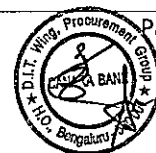
**Declaration:** We hereby confirm that the information submitted above is true to the best of our knowledge. We understand that in case any discrepancy is found in the information submitted by us our tender is liable to be rejected.

Date

Signature with seal

Name:

Designation:



Amended Annexure- 10

Bill of Material

SUB: Supply, Installation, Configuration, Implementation and Maintenance of Servers (42 DC & 42 DRC) with three years warranty and two years AMC.

Ref: GEM/2022/B/2747790 dated 17/11/2022.

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  
Price details of Hardware Items

[Amount in Indian Rupees]

Sl. No.	Item Details	Cost Price				ATS							Qty.	Total Cost (Incl. of tax)
		Unit Price with Three years Comprehensive onsite warranty and support (Excl. of Tax)	Tax for Column A		Unit Price Incl. of tax	AMC/ATS Charge after completion of warranty period of 3 years (Excl. of		Tax for Column E & F		Total ATS incl. of tax for 5 years	Total Cost per unit with 5 Year ATS (Incl. of tax)			
						4th	5th							
						year	year							
A	B % of tax	C Tax Amt.	D=A+C	E	F	G % of Tax	H-Tax Amt.	I=E+F+H	J=D+I	K	L=(JxK)			
1.	Servers and related items mentioned in Amended Annexure-2										84			



2.	Server Rack for placing Servers as mentioned in Sl. No. 19 of Amended Annexure-2											8	
3.	Intelligent PDU as mentioned in Sl. No. 19 of Amended Annexure-2											16	
4.	Tape Library as mentioned in Sl. No. 18 of Amended Annexure-2											2	
5.	Total cost (Sum of 1+2+3+4)												

**Table - B**  
**Price details of LTO-8 Tapes**

[Amount in Indian Rupees]

Sl. No.	Requirement Details	Unit Price (Excl. of Tax)	Quantity	Total Cost Price (Excl. of tax)	Tax for Column C		Total Price (Incl. of tax)
					Tax %	Tax Amt.	
		A			D	E	
			B	C=AxB			F=C+E
1.	Linear Tape Open LTO-8 (12/30TB) Ultrium Data Cartridges with customized barcodes		1000				

**Table-C (Optional)**  
**Price details of optional items for 5-years**

[Amount in Indian Rupees]

Sl. No.	Item Details	Unit Price (Excl. of Tax)	Quantity	Total Price (Excl. of Tax)	Tax for Column c		Total Price (Incl. of Tax)
		a	b	c= axb	d (% of tax)	e (tax amount)	f=(c+e)
1.	1.92TB SSD with 3 year warranty (Compatible with the proposed server)		2				
2.	Windows server 2022 Data Centre edition one 16 core pack		8				
3.	Windows server 2022 Standard edition one 16 core pack		16				
4.	RHEL 8.x with 5 years premium support subscription		10				
5.	RHEL 8.X High availability cluster with 5 years premium support subscription		2				
6.	RHEL 8.X virtual datacenter with 5 years premium support subscription		1				
7.	Total Cost (Sum of rows 1,2,3,4,5,6 of Column f)						

The cost mentioned in column a of Table-C will be the fixed price for 5 years (i.e., Unit Price mentioned will be fixed for the entire contract period). Bank may procure the above items mentioned in Table-C with the same cost for the entire contract period.

Quantity mentioned in the above Table-C is indicative only. Bank may issue Purchase order(s) to procure items mention in Table-C as per the necessary quantities (less or more than the numbers given in column b of Table-C) as and when required by the Bank during the initial purchase or entire Contract Period.

**Table -D**  
**Total Cost of the Hardware, Software with 3 Years warranty and Two Years AMC/ATS and optional items**

		[Amount in Indian Rupees]
Sl. No.	Requirement Details	Total Cost of the Hardware, Software with 3 Years warranty and Two Years AMC/ATS and optional items (incl. of tax)
1.	Total cost of Table-A (Price details of Hardware Items)	
2.	Total cost of Table-B (Price details of LTO-8 Tapes)	
3.	Total cost of Table-C (Price details of optional items for 5-years)	
4.	Total Cost (Total cost of Table A, Table B & Table C )	

**Declaration:**

- a. Bill of material is submitted on the letter head and is signed by an Authorized Signatory with Name and Seal of the Company.
- b. We confirm that we have gone through RFP clauses, subsequent amendments and replies to pre-bid queries (if any) and abide by the same.
- c. 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.
- d. 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.
- e. We are agreeable to the payment schedule as per "Payment Terms" of the RFP.

**Date:**

**Place:**

**Authorized signatory**

**Name:**

**Designation:**

**Company seal:**



### 13. Amended Penalties/Liquidated Damages:

13.1. Penalties/Liquidated damages for delay in Supply, Installation, Configuration, Implementation and Maintenance of Servers and Other related items would be as under:

13.1.1. Non-compliance of the Supply/delivery as per clause 11.1 will result in the Bank imposing penalty of 0.50% on delay in delivery per week or part thereof, on the invoice value of Servers & Other Items (exclusive of Taxes) (Amended Annexure-10 Bill of material Sl. No. 1, 2 & 3 of Table A) location/office address wise.

13.1.2. Non-Compliance of the Installation, configuration, implementation as per clause 11.2 will result in the Bank imposing penalty of 0.50% on delay in installation per week or part thereof, on the invoice value of Servers & Other Items (exclusive of Taxes) (Amended Annexure-10 Bill of material Sl. No. 1, 2 & 3 of Table A) location/office address wise.

13.1.3. However, the total Penalty/LD to be recovered under above clause 13.1.1 and 13.1.2 shall be restricted to 10% of the total value of Amended Annexure-10 Bill of material Table A only.

### 13.2. Penalties/Liquidated damages for not maintaining uptime:

13.2.1. If the bidder fails to maintain the guaranteed Uptime during Warranty and AMC/ATS period (if contracted), the penalty for Uptime will be deducted as under:

Level of availability calculated on monthly basis	Penalty Amount
99.90% and above	No penalty
98.90% to 99.89%	0.10% on total cost* (exclusive of taxes) for every hour or part thereof.
97.90% to 98.89%	0.20% on total cost* (exclusive of taxes) for every hour or part thereof.
96.90% to 97.89%	0.30% on total cost* (exclusive of taxes) for every hour or part thereof.
96.50% to 96.89%	0.40% on total cost* (exclusive of taxes) for every hour or part thereof.

\*Total cost include Sl. No. 1, 2 & 3 of Table A of Amended Annexure-10 Bill of material

13.2.2. The Maximum Penalty levied under the above clause shall not be more than 10% of the Order value during warranty period. The maximum penalty levied shall not be more than the 50% of AMC/ATS amount payable for one year after warranty period.

13.2.3. If monthly uptime is less than 96.50%, the Bank shall levy penalty as above and shall have full right to terminate the contract under this RFP or AMC/ATS, if contracted. The right of termination shall be in addition to the penalty. The above penalty shall be deducted from any payments due to the bidder (including AMC/ATS payments).

13.3. Penalties/Liquidated Damages for non-performance: If the specifications of the RFP are not met by the bidder during various tests, the bidder shall rectify the same at



bidders cost to comply with the specifications immediately to ensure the committed uptime, failing which the Bank reserves its right to invoke the Bank Guarantee.

- 13.4. The selected bidder shall perform its obligations under the agreement entered into with the Bank, in a professional manner.
- 13.5. If any act or failure by the bidder under the agreement results in failure or inoperability of systems and if the Bank has to take corrective actions, to ensure functionality of its property, the Bank reserves the right to impose penalty, which may be equal to the cost it incurs or the loss it suffers for such failures.
- 13.6. If the Bidder fails to complete the due performance of the contract in accordance with the specification and conditions of the offer document, the Bank reserves the right either to cancel the order or to recover a suitable amount as deemed reasonable as Penalty / Liquidated Damage for non-performance.
- 13.7. Any financial loss to the Bank on account of fraud taking place due to selected bidder, its employee or their services provider's negligence shall be recoverable from the Successful Bidder along with damages if any with regard to the Bank's reputation and goodwill.
- 13.8. Bank may impose penalty to the extent of damage to its any equipment, if the damage was due to the actions directly attributable to the staff of the selected bidder.
- 13.9. The liquidated damages/penalties shall be deducted / recovered by the Bank from any money due or becoming due to the bidder under this purchase contract or may be recovered by invoking of Bank Guarantees or otherwise from bidder or from any other amount payable to the bidder in respect of other Purchase Orders issued under this contract, levying liquidated damages without prejudice to the Bank's right to levy any other penalty where provided for under the contract.
- 13.10. All the above LDs are independent of each other and are applicable separately and concurrently.
- 13.11. LD is not applicable for the reasons attributable to the Bank and Force Majeure. However, it is the responsibility/onus of the selected bidder to prove that the delay is attributed to the Bank and Force Majeure. The selected bidder shall submit the proof authenticated by the selected bidder and bank's official that the delay is attributed to the Bank and Force Majeure at the time of initial payment

#### 14. Amended Payment Terms:

- 14.1. Payment will be released after execution of Contract Agreement and the schedule will be as under:

Sl. No.	Payment Stages	Percentage of Payment for the warranty period of 3 Years.(As mentioned in the Table A)	Condition/Remarks
1.	Supply and Delivery of Hardware, Software & other items (Amended	50%	After complete delivery of Hardware, Software and other items on production of relevant documents like delivery signoff and



	Annexure-10 Table A & C)		invoice with product serial number of the items supplied.
2.	Installation, configuration and implementation of Solution as per scope of work. (Amended Annexure-10 Table A & C)	30%	After successful installation, configuration and implementation of Hardware, Software & other items supplied as per Scope of Work and Technical requirements.  The invoice and installation report should contain the product serial number of the items supplied.
3.	Acceptance of Project & Sign off	10%	After Project acceptance and Sign off by the Bank on production of relevant documents.
4.	After Completion of Warranty Period (i.e. three years). Warranty period will start from the date of acceptance of solution by the Bank.	10%	After completion of warranty period and after deducting applicable penalties and Liquidated damages. Or On submission of a bank guarantee for equivalent to 10% of the remaining payment.
5.	Supply and Delivery of LTO-8 Tape (Amended Annexure-10 Table B)	100%	After complete delivery of LTO-8 Tape and on production of relevant documents like delivery signoff and invoice with product serial number of the items supplied.
6.	AMC as mentioned in Table A	Quarterly in arrears.	

- 14.2. Bank will release the payment on completion of activity and on production of relevant documents/invoices. Please note that Originals of invoices (plus One Copy) reflecting GST, GSTIN, HSN Code, State Code, State Name, Taxes & Duties, Proof of delivery duly signed by Bank officials of the respective Branch/office and Manufacturer's/ Supplier's Warranty Certificate should be submitted while claiming payment in respect of orders placed.
- 14.3. The vendor has to submit installation report/Sign off report duly signed by the Bank officials of the respective Branch/offices in originals while claiming payment. The invoice and installation report should contain the product serial number of the items supplied.
- 14.4. Bank will not pay any amount in advance.
- 14.5. Payment shall be released within 30 days from submission of relevant documents as per RFP terms.
- 14.6. 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 each location wise while claiming installation and acceptance payment.
- 14.7. The payments will be released through NEFT / RTGS after deducting the applicable LD/Penalty, TDS if any, by centrally by Head Office at Bengaluru and the Selected Bidder has to provide necessary Bank Details like Account No., Bank's Name with Branch, IFSC Code etc.

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

