	Electronics Corporation of Tamil Nadu Limited

Rate Contract Tender

Supply, Installation and Commissioning of High End Servers

Tender Ref. ELCOT/Proc/OT/33135/High End Servers and Related items /RC/2018-19 Tender Document

Corrigendum No. 5 to the Tender Document

CORRIGENDUM TO THE TENDER DOCUMENT

The following Corrigendum to the Tender Document is hereby issued:-

S.N	Title of the Clause	Existing	To be read as
1	Page No: 68, Clause No: 9.8 – Supply, installation and Commissioning - (a) Delivery Schedule-For Quantity	1 to 50 Nos. – Within 28 days from the date of Purchase Order.	1 to 50 Nos. – Within 4-6 weeks from the date of Purchase Order.
2	Page No: 138, Annexure-2 - Price Bid	–	Column (12),(13),(14) Removed
3	Page No: 159, Annexure-3 - Comprehensive Warranty Cost for $4^{th},5^{th},6^{th}$ & 7th years	–	Modified. Enclosed as annexure – III
4	Corrigendum No.3 to the Tender Document- Annexure- IV	Add On - Cloud Management Platform Server	Specification for Cloud Server Software
5	Corrigendum No.3 to the Tender Document- Sl.No:22	The Bidder shall have executed Single order for supply, installation and commissioning of High End Servers for a value of at least Rs. 50 Lakhs and above for any Government Departments / Organisations / Public Sector Undertakings in India in the last 3 years.	The Bidder shall have executed Single order for supply, installation and commissioning of High End Servers for a value of at least Rs. 50 Lakhs and above for any Government Departments / Organisations / Public Sector Undertakings in India directly or through a System Integrator(SI) for Government Projects in the last 3 years.

6	Corrigendum No.3 to the Tender Document-Sl.No:26	The bidders should quote for all the items from S.No. 1 to 17. Partial quote is not allowed for this category.	The bidders should quote for all the items from S.No. 4 to 8 & S.No. 10 to 17. Partial quote is not allowed for this category. The bidder who quote for the above items should quote the relevant items in the add on and inlieu items.
7	Corrigendum No.3 to the Tender Document-Sl.No:27	Partial quote is permitted for the line items from S.No. 18 to 191. Further SI.No.18,19 and 20 and their relevant items among SI.No.21–191, will be considered as separate categories.	Partial quote is permitted for the line items S.No. 1,2,3,9 & S.No. 18 to 21. The bidder who quote for the above items should quote the relevant items in the add on and inlieu items.
8	Specifications:- Parameter – Interfaces / PCI Slots: 33135-009 & 020 (a) - Page no. 30 & 45	Minimum 3 PCI–Express slots for 1 CPU	Minimum 3 PCI slots
9	Specifications:- Parameter – Interfaces / PCI Slots: 33135-011 & 020 (b) - Page no. 33 & 45	Minimum 4 PCI–Express slots for 1 CPU	Minimum 4PCI slots
10	Corrigendum No.3 to the Tender Document-Sl.No:4	1 x 16 GB DDR4 RDIMM scalable up to 768 GB with 2 Processors. Proposed memory should have ECC support	1 x 16 GB DDR4 RDIMM scalable up to 768 GB using RDIMM or 1.5 TB using LRDIMM with 2 Processors. Proposed memory should have ECC support. Selection of RDIMM or LRDIMM is based on customer preference.
11	Corrigendum No.3 to the Tender Document-Sl.No:5	2 x 16 GB DDR4 RDIMM scalable up to 768 GB with 2 Processors. Proposed memory should have ECC support	2 x 16 GB DDR4 RDIMM scalable up to 768 GB using RDIMM or 1.5 TB using LRDIMM with 2 Processors. Proposed

			memory should have ECC support. Selection of RDIMM or LRDIMM is based on customer preference.
12	Specifications:- Parameter – Memory: 33135-008 - Page No. 27	2 x 16 GB DDR4 RDIMM memory scalable up to 3 TB with 4 processors. Proposed memory should have ECC support.	2 x 16 GB DDR4 RDIMM scalable up to 1.5 TB using RDIMM or 3 TB using LRDIMM with 4 processors. Proposed memory should have ECC support. Selection of RDIMM or LRDIMM is based on customer preference.
13	Specifications:- Parameter – Memory: 33135-009 - Page No. 29	1 x 16 GB DDR4 RDIMM scalable up to 1.5 TB with 2 Processors .Proposed memory should have ECC support	1 x 16 GB DDR4 RDIMM scalable up to 1 TB using RDIMM or 3 TB using LRDIMM with 2 Processors .Proposed memory should have ECC support. Selection of RDIMM or LRDIMM is based on customer preference.
14	Corrigendum No.3 to the Tender Document-Sl.No. 6	4 x 16 GB DDR4 RDIMM memory scalable up to 3 TB with 4 processors. Proposed memory should have ECC support	4 x 16 GB DDR4 RDIMM memory scalable up to 1.5 TB using RDIMM or 3 TB using LRDIMM with 4 processors. Proposed memory should have ECC support. Selection of RDIMM or LRDIMM is based on customer preference.
15	Specifications:- Parameter – Memory: 33135-011 - Page No. 33	2 x 64 GB DDR4 RDIMM memory scalable upto 3 TB with 4 processors . Proposed memory should have ECC support.	4 x 32 GB RDIMM scalability upto 1.5 TB using RDIMM or 3 TB using LRDIMM with 4 processors. Proposed memory should have ECC support. Selection of RDIMM or LRDIMM is based on customer preference.

16	Corrigendum No.3 to the Tender Document-Sl.No. 16	8 * 16 GB DDR4−2666 MHz, ECC RDIMM (Max.3TB, 48 DIMMs)	8 * 16 GB DDR4 RDIMM memory − 2666 MHz, ECC RDIMM scalable up to 1.5 TB using RDIMM or 3 TB using LRDIMM with 4 processors. Proposed memory should have ECC support. Selection of RDIMM or LRDIMM is based on customer preference.
17	Specifications:- Parameter − Memory: 33135-020(a) - Page No. 44	16 x 32 GB DDR4 RDIMM memory scalable up to 3 TB with 4 processors. Proposed memory should have ECC support.	16 x 32 GB DDR4 RDIMM memory scalable up to 1.5 TB Using RDIMM or 3 TB using LRDIMM with 4 processors. Proposed memory should have ECC support. Selection of RDIMM or LRDIMM is based on customer preference.
18	Specifications:- Parameter − Memory: 33135-020(b) - Page No. 44	16 x 64 GB DDR4 RDIMM memory scalable upto 3 TB with 4 processors. Proposed memory should have ECC support.	16 x 32 GB DDR4 RDIMM memory scalable up to 1.5 TB using RDIMM or 3 TB using LRDIMM with 4 processors. Proposed memory should have ECC support. Selection of RDIMM or LRDIMM is based on customer preference.
19	33135-018 - Server System − HYPER-CONVERGED SERVER-II		1 New item added (specifications given in annexure 1)
20	Add on and Inlieu items		Annexure −2 (New add on items and inlieu items are added .
21	Corrigendum No.3 to the Tender Document- Annexure IV- Add on for other server . S.No. 3	Omni path Cable, Passive Copper 5 mtr	3 mtr Passive Copper cable instead of 5 mtr Passive

22	Page No: 143- Annexure2- Price bid- S.No: 48	8 GB DDR4 ECC Memory	8 GB DDR4 ECC RDIMM Memory
23	Page No: 151- Annexure2- Price bid- S.No: 143	Chassis to have add-on 2 numbers of 20G converged Network switches each with minimum 2*10G SFP+ Ethernet Uplinks and 2*8Gb FC SFP+ Uplinks	Chassis to have 1 number of 20G converged Network switches with minimum 2*10G SFP+ Ethernet Uplinks and 2*8Gb FC SFP+ Uplinks
24	Corrigendum No.3 to the Tender Document- Annexure IV- Add on for other server . S. No: 22, 23 & 24	16 GB DDR4 ECC LRDIMM Memory, 32 GB DDR4 ECC LRDIMM Memory & 8 GB DDR4 ECC LRDIMM Memory	Removed
25	Corrigendum No.3 to the Tender Document- Annexure IV- Inlieu items. S. No: 1-5	8 GB RAM LRDIMM in lieu of 8 GB RDIMM, 16 GB RAM LRDIMM in lieu of 16 GB RDIMM, 32 GB RAM LRDIMM in lieu of 32 GB RDIMM, 64 GB RAM LRDIMM in lieu of 64 GB RDIMM & 128 GB RAM LRDIMM in lieu of 128 GB RDIMM	Removed

Note: (The above corrigendum is applicable to all other clauses which contains the respective terms in the tender document.)

**Annexure I**	
**HYPER-CONVERGED SERVER - II**		
S.No	**PARAMETER**	**2U Rack Server**
1	Processor	1 * Intel Xeon Gold 6130 16 core CPU or above
2	Memory	6 x 16 GB DDR4 RDIMM up gradable up to 384 GB. Proposed memory should have ECC support
3	Chipset	Intel C62X Chipset
4	Hyper-Convergence Software Features	Integrated Compute, Storage , Hypervisor, Data Protection - Native Backup & DR Capabilities, Monitoring & Reporting, Centralized Management, One click Cluster Expansion
5	High Availability for Failover	HCI SW should tolerate for Single disk/Node/NIC failures.
6	Hypervisor	Support for Vmware ESXi / Microsoft Hyper-V/ CITRIX XEN / Nutanix AHV, Stacbloc / Others.
7	Redundancy Factor	RF2 using SW defned approach or RAID or RAIN
8	Raid Controller	RAID controller with support for RAID 0/1/5/6/10.
9	Hard Disk Drive (Each Node)	5 x 900 GB SSD or Higher Disk
10	Storage Features	Data locality, Deduplication Compression licenses to be included
11	Form Factor /Cabinet Type	2U form factor per Node

12	Network Interface	10Gbps dual port PCI-E adapter.
13	Power Supply	Redundant Power Supply with ACTIVE /ACTIVE
14	Manageability	Web based management console to manage Compute, Virtualization /VM, Storage, Network, Backup & DR
15	OS Support	Latest Microsoft Windows Server , Red Hat Enterprise Linux & SUSE Linux Enterprise Server
16	Warranty	3 Years OEM on-site and further 4 Years AMC
17	End Of Life & End Of Support	This server should not become End Of Life for another two years and End Of Support for another seven years from the date of LOA.

Annexure I I		
Inlieu Items		
S.No.	Item Description	
1	64 GB DDR4 ECC LRDIMM in lieu of 32 GB DDR4 ECC RAM RDIMM	Added
2	128 GB DDR4 ECC LRDIMMin lieu of 32 GB DDR4 ECC RAM RDIMM	Added
3	64 GB DDR4 ECC LRDIMM in lieu of 16 GB DDR4 ECC RAM RDIMM	Added
4	128 GB DDR4 ECC LRDIMMin lieu of 16 GB DDR4 ECC RAM RDIMM	Added
5	64 GB DDR4 ECC LRDIMM in lieu of 8 GB DDR4 ECC RAM RDIMM	Added
6	128 GB DDR4 ECC LRDIMMin lieu of 8 GB DDR4 ECC RAM RDIMM	Added

Annexure – 3 – Comprehensive Warranty Cost for 4th, 5th, 6th and 7th years   for 3 years warranty High End Servers and Related items

"RATE CONTRACT REF NO: ELCOT/PROC/OT/33135/High End Servers and Related items/RC/2018-19

a). Comprehensive warranty cost in percentage for the 4th year = ...%, GST=...............%
b). Comprehensive warranty cost in percentage for the 5th year = ...%, GST=...............%
c). Comprehensive warranty cost in percentage for the 6th year = ...%, GST=...............%
d). Comprehensive warranty cost in percentage for the 7th year = ...%, GST=...............%

1. Comprehensive warranty cost in amount for 4th year (excluding GST) CAMC% * Total Cost quoted in Annexure- 2 = Rs. ....

2. Comprehensive warranty cost in amount for 5th year (excluding GST) CAMC% * Total Cost quoted in Annexure- 2 = Rs. ....

3. Comprehensive warranty cost in amount for 6th year (excluding GST) CAMC% * Total Cost quoted in Annexure- 2 = Rs. ....

4. Comprehensive warranty cost in amount for 7th year (excluding GST) CAMC% * Total Cost quoted in Annexure- 2 = Rs. ....

Total CAMC Cost (1)+(2)+(3)+(4) = Rs. ....

Note:

Comprehensive Warranty for 4th, 5th, 6th and 7th Years should be quoted without fail, failing which the Price Bid shall not be considered for further process. Comprehensive warranty cost means cost toward all the spares, service charge and all Taxes, excluding consumable cost if any.