ELCOT Adding Value through IT	**Electronics Corporation of Tamil Nadu Limited**

Tender

Supply, Installation, Commissioning and Maintenance of Hardware for CSA-TN

Tender Ref.
ELCOT/Proc/OT/33331/Hardware for CSA-TN/2020-21

Corrigendum No. 1 to the Tender Document

CORRIGENDUM TO THE TENDER DOCUMENT

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

S. No	Title of the Clause	Existing	To be Read as
1	Page No.16- Section 5-Specifications- 33331-001 - Layer 2 Switch – Architecture	1 Management port	1 Management port / equivalent functionality
2	Page No.18-Section 5-Specifications- 33331-002 - Layer 3 Switch – Resiliency and high availability	The Switch should support Device Link Detection Protocol (DLDP)	The Switch should support Device Link Detection Protocol (DLDP) / equivalent
3	Page No.20- Section 5-specifications- 33331-002 - Layer 3 Switch – Management	The Switch should leverage RADIUS to link a custom list of CLI commands to an individual network administrator's login; an audit trail documents activity	The Switch should leverage RADIUS/TACACS to link a custom list of CLI commands to an individual network administrator's login; an audit trail documents activity
4	Page No.21- Section 5-Specifications- 33331-002 - Layer 3 Switch- Environmental Features	Shall be capable of supporting both AC and DC Power inputs	Shall be capable of supporting both AC or DC Power inputs
5	Page No.22- Section 5-Specifications- 33331-003-Firewall- Security Operational Requirement	Administrator should be able to activate new protections, based on configurable parameters (performance impact, threat severity, confidence level, client protections, server protections)	Administrator should be able to activate new protections, based on configurable parameters
6	Page No.23- Section 5-Specifications- 33331-003-Firewall- Security Operational Requirement	Solution must support clientless SSL VPNs for remote access	Solution must support with client or clientless SSL VPNs for remote access
7	Page No.24 - Section 5-Specifications- 33331-003-Firewall- Security Operational Requirement	Appliance must support automatic search, downloading and install software hotfixes without any administrator efforts and must notify Administrator through mails on the status and progress of each step. System should automatically roll back	Appliance must support automatic or manual search, downloading and install software hotfixes with minimum administrator efforts and must notify Administrator through mails

		upon failure.	
8	Page No.24- Section 5- Specifications- 33331-003- Firewall Security Operational Requirement	Solution must allow administrator to choose to login in read-only or read-write mode	Removed
9	Page No.25- Section 5- Specifications- 33331-005- IPS and IDS- High Availability	Must support full redundancy solution (Active-Passive, Active-Active)	Must support full redundancy solution (Active-Passive/ Active-Active)
10	Page No.26- Section 5- Specifications- 33331-005- IPS and IDS - Security effectiveness	The IPS filters must be categories into the following categories for easy management: Exploits, Identity Theft/Phishing, Reconnaissance, Security Policy, Spyware, virus, Vulnerabilities, Traffic Normalization,P2P, IM, Streaming Media	The IPS filters must be categories into the following categories for easy management: Exploits, malware, Vulnerabilities, protocol, operating systems etc
11	Page No.26- Section 5- Specifications- 33331-005- IPS and IDS – Global Threat Intelligence	NG IPS engine must be a smart enough to inspect the traffic based on condition, If the traffic is suspicious then it goes for the deep packet inspection	Removed
12	Page No.27- Section 5- Specifications- 33331-005- IPS and IDS - Central Management	The proposed management system shall have a big data engine that allows customers to provide faster security analytics and faster report generation	The proposed management system allows customers to provide faster security analytics and faster report generation
13	Page No.27- Section 5- Specifications- 33331-006 - SAN Storage- S.No.1	Storage system shall support Both Block and File Protocols. The proposed array should have dual active-active controllers with NSPoF architecture & 99.999% availability with support for SSD, SAS and NL-SAS drives. The proposed array should be an unified storage supporting block, file services and VVOL natively without adding any additional or external device. Proposed storage should	Storage system shall support both Block and File Protocols. The proposed array should have dual active-active controllers with NSPoF architecture & 99.999% availability with support for SSD, SAS and NL-SAS drives. The proposed array should be an unified storage supporting block, file services and VVOL natively with/ without adding any additional or external device. Proposed storage should also support NDU

		also support NDU software upgrade.	software upgrade
14	Page No.27- Section 5- Specifications- 33331-006 - SAN Storage- S.No.6	Array should be supplied with at least 128 GB Cache which should be flexibly usable for Read and write operations. All writes must be mirrored across controllers. Array should have capability to extend the system cache by adding high performance solid state disks.	Array should be supplied with at least 128 GB Cache which should be flexibly usable for Read and write operations. All writes must be mirrored across controllers. Array should have capability to extend the system cache by adding high performance controller based cache / solid state disks
15	Page No.29- Section 5- Specifications- 33331-006 - SAN Storage-S.No.24	The proposed array must support traditional (user data) and transactional (VMware, Oracle) NAS use cases. Proposed storage solution must support creating multiple NAS servers for tenant isolation with each file system scalable upto 100TB.	The proposed array must support traditional (user data) and transactional Database use cases. Proposed storage solution must support creating multiple NAS servers for tenant isolation with each file system scalable upto 100TB.
16	Page No.29- Section 5- Specifications - 33331-006- SAN Storage - Backup Appliance Specifications- S.No.29	Proposed disk based backup appliance should be able to interface with various industry leading server platforms, operating systems and Must support LAN/SAN based D2D backup and VTL backup simultaneously via NFS v3, CIFS, FC, OST and NDMP protocols.	Proposed disk based backup appliance should be able to interface with various industry leading server platforms, operating systems and Must support LAN/SAN based D2D backup, VTL backup simultaneously via NFS v3, CIFS, FC and integrate with applications that use OST, NDMP and equivalent capabilities
17	Page No.29- Section 5- Specifications- 33331-006- SAN Storage - Backup Appliance Specifications – S.No.31	Proposed appliance should be offered with protocols like VTL, OST, CIFS and NFS. All of the protocols should be available to use concurrently with global deduplication for data ingested across all of them.	Proposed appliance should be offered with protocols like VTL, OST, CIFS and NFS. All of these protocols should be available to use concurrently

18	Page No.30- Section 5- Specifications- 33331-006- SAN Storage - Backup Appliance Specifications- S.No. 40	Proposed appliance should Support Enterprise Applications and Database Backups without integration with Backup Software, for better visibility of Backups to Application and database Owners, thus ensuring faster and direct recovery on application/database level. This integration should be available for Oracle, SAP, SAP HANA, DB2, MS SQL, Hadoop, MongoDB, Cassandra etc.	Proposed appliance should Support Enterprise Applications and Database Backups without integration with Backup Software, for better visibility of Backups to Application and database Owners, thus ensuring faster and direct recovery on application/database level. This integration should be available for Oracle, SAP, SAP HANA, DB2, MS SQL etc
19	Page No.30- Section 5- Specifications- Item Code 33331-006 - SAN Storage - Backup appliance- S.No. 45	Purpose built backup appliance should offered with 24x7- 5 years onsite warranty support.	Purpose built backup appliance should be offered with 24x7- 3 years onsite warranty support
20	Page No.31- Section 5- Specifications- 33331-006- SAN Storage - Backup Appliance Specifications- S.No. 56	Backup Solution should also have configurable ReST API support for management, administration and reporting on backup infrastructure via custom applications and out of box integration with VMWare vRealize Automation for complete orchestration.	Backup Solution should also have configurable ReST API support for management, administration and reporting on backup infrastructure via custom applications and out of box integration
21	Page No.32- Section 5- Specifications- Item Code 33331-006 - SAN Storage - S. No. 70	Proposed backup software should be in leader's quadrant of 2017 Gartner report for Enterprise Backup software and recovery solutions.	Removed
22	Page No.42- Section 5- Specifications- Item Code 33331-009 - Web Application Firewall S.No. E. Reporting Features	The solution must provide pre-packaged reporting capabilities out of the box without user intervention/further configuration: a) Alert analysis b) Daily & weekly Top 10 WAF violation c) Daily summary Blocked connections d) Data leakage Report	The solution must provide pre-packaged / custom built reporting capabilities out of the box without user intervention/further configuration: a) Alert analysis b) Daily & weekly Top 10 WAF violation c) Daily summary Blocked connections d) Data leakage Report

		e) Directory Browsing Detection report f) List of alerts g) PCI – WAF violations h) Sensitive error messages leakage report i) Slow HTTP/s alerts	e) Directory Browsing Detection report f) List of alerts g) PCI – WAF violations h) Sensitive error messages leakage report i) Slow HTTP/s alerts
23	Page No.45- Section 5-Specifications- Item Code 33331-010 -Distributed Denial of Service (DDoS) S.No.C. Security / DDoS Feature	SYN Protection – Transparent Proxy/out of sequence	SYN Protection – Transparent Proxy/out of sequence or Equivalent functionality
		SYN Protection – Safe Reset	SYN Protection – Safe Reset or Equivalent functionality
		SYN Protection – TCP Reset	SYN Protection – TCP Reset or Equivalent functionality
24	Page 47. Section 5-Specifications- Item Code: 33331-011- Security Information and Event Management	The solution should not limit and licensed on no. of devices (Servers including Physical/ VM, Desktops, Firewalls, Switches, Routers, Load balancers, etc..) integrated with SIEM tool	The solution should be licensed on EPS, should support Min. of 300 devices like Servers including Physical/ VM, Desktops, Firewalls, Switches, Routers, Load balancers, etc. integrated with SIEM tool from day one
25	Page No. 59 – Clause No.7.5.3- Price bid evaluation	Note: Comprehensive AMC quoted should not exceed 10% for each year.	Note: Comprehensive AMC quoted should not exceed 10% for each year for all Hardware components. However, the CAMC percentage quoted may exceed 10% for the Security components whose licenses need to be renewed frequently OR required software subscriptions regularly. Such CAMC percentage will be taken for consideration, subject to the acceptance of the Tender Accepting Authority (TAA) and the decision of the TAA is the final.

26	Page No. 150 - Annexure–4 - Comprehensive CAMC (or Extended Warranty) Cost for 4th, 5th, 6th & 7th year after the successful completion of 3 years Warranty	b) CAMC percentage quoted should be less than 10%	b) CAMC percentage quoted should be less than 10% for all hardware components. However, CAMC may exceed for the Security components whose licenses need to be renewed frequently OR required software subscriptions regularly.
27	Page No.151- Annexure- 5 - PRICE BID – Total price	Annexure 3 - Total (T2)	Annexure 4 - Total (T2)

Note: The above corrigendum is applicable to all other clauses, which contain the respective terms in the tender document.

-    **SD/-**

Managing Director