

CORRIGENDUM TO THE TENDER DOCUMENT

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

S.	Title of the Clause	Existing	To be Read as
No		S	
1	Page No. 29- Section 5-Specifications- Item code - 33331-006 SAN Storage- Backup Appliance Specification- 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 and backups to be configured simultaneously via NFS v3, CIFS, FC and integrate with application that use OST, NDMP and equivalent capabilities.
2	Page No. 29- Section 5-Specifications- Item code - 33331-006 SAN Storage- Backup Appliance Specification- 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/solution should be offered with protocols like OST, CIFS and NFS. All of the protocols should be available to use concurrently
3	Page No. 31- Section 5-Specifications- Item code - 33331-006 SAN Storage- Backup Appliance Specification- S.No. 53	Bidder should Capacity/Socket based license with no limit to the count of servers/DB to backup. SI need to provide backup solution on the offered IT Infra stack from single OEM for backup software & purpose built backup appliance.	Bidder should Capacity/Socket based license with no limit to the count of servers/DB to backup. SI need to provide backup solution on the offered IT Infra stack from single OEM for backup software & purpose built backup appliance. (Note: Currently 12 physical server with Dual socket are in place)
4	Page No. 21- Section 5-Specifications- Item code - 33331-002 - Layer 3 Switch -Specification- S.No. 12- Security	The Switch should support IEEE 802.1X and RADIUS network logins	The Switch should support IEEE 802.1X / RADIUS /equivalent network logins
5	Page No. 15- Clause No. 4 Eligibility Criteria – S.No. 7	The bidder and Hardware OEMs should have a service centre in Chennai.	Bidder/Hardware OEMs should have a service centre in Chennai.
6	Page No. 22- Section 5-Specifications- Item code - 33331-003 – Firewall-	Should have min 16 Gb RAM in both primary & HA firewalls	Should have Min 8 Gb RAM in both primary & HA firewalls

	S.No. 3- Hardware &		
	Interface Requirement		
7	Page No. 22 - Section 5-Specifications- Item code - 33331-003 - Firewall- S.No. 3- Hardware & Interface Requirement	Should have minimum 500 GB of Hard disk/SSD both primary & HA firewalls	Should have minimum 500 GB (Integrated/External) of Hard disk/SSD both primary & HA firewalls
8	Page No. 23 -Section 5-Specifications- Item code - 33331-003 - Firewall- S.No. 4- Security Operational Requirement	Anti-Bot and Anti-Virus application must have a centralized event correlation and reporting mechanism	Anti-Bot and Anti-Virus application must have a centralized reporting mechanism
9	Page No. 23- Section 5-Specifications- Item code - 33331-003 - Firewall- S.No. 4- Security Operational Requirement	Solution should support detection& Prevention attack types ie, such as spam sending click fraud or self-distribution, that are associated with bots	Solution should support Anti Spam detection & prevention attacks.
10	Page No. 23 - Section 5-Specifications- Item code - 33331-003 - Firewall- S.No. 4- Security Operational Requirement	The Anti-Virus should support scanning for links inside emails	The Anti-Virus should support scanning and detection of malware in emails
11	Page No. 47 - Section 5-Specifications- Item code - 33331-010- Distributed Denial of Service (DDoS)- S.No. H. Certification / References	Device should be Common criteria certified at least EAL 3 or equivalent	Device should be Common criteria certified at least EAL3/FCC/VCCL or equivalent
12	Page No. 28- Section 5-Specifications- Item code - 33331-006 - SAN Storage- S.No. 19	The Storage array must support capability to replicate data to remote site array in synchronous and asynchronous modes. This license should be configured for entire supported capacity of the array and the proposed storage should be configured to replicate with the DR storage.	The Storage must support capability to replicate data to remote site storage in synchronous or asynchronous modes.
13	Page No. 29- Section 5-Specifications- Item code - 33331-006 - SAN	Proposed appliance should support industry leading backup software like EMC Networker, Symantec	deduplication at backup server/

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	Storage - Backup Appliance Specification- S.No. 32	Netbackup, Commvault and HP Data Protector etc and should Support deduplication at backup server/ host / application level so that only changed blocks travel through network to backup device	through network to backup device.
14	Page No. 24 - Section 5-Specifications- Item code - 33331-003 - Firewall- S.No. 5. Management, Forensics & Reporting	Reporting & Analyser Solution should have min 3000 log/sec sustained & indexed, min 1 TB HDD & 16 GB Memory	Reporting & Analyser Solution should have min 3000 log/sec sustained & indexed, min 1 TB HDD & Min. of 8 GB Memory
15	Page No. 35- Section 5-Specifications- Item Code 33331-009 - Web Application Firewall - S.No. A. General	The proposed solution should have at least 4 virtual instances to run separate WAF licenses for different applications and it should be upgradeable to 8 or higher	The proposed solution should have at least 4 virtual instances / domains to run separate WAF licenses for different applications with complete isolation between applications and it should be upgradeable to 8 or higher
16	Page No. 35 - Section 5- Specifications- Item Code 33331-009 - Web Application Firewall - S.No. A. General	Each virtual instances should be complete independent in nature with separate routing table, ARP table, session table etc	Each virtual instances/domains should be completely independent in nature
17	Page No. 35- Section 5-Specifications- Item Code 33331-009 - Web Application Firewall- S.No. A. General	Proposed solution should have at least 5 Gbps of throughput and scalable to 10 Gbps or higher	Proposed solution should have at least 5 Gbps of WAF throughput and scalable to 10 Gbps or higher
18	Page No. 41- Section 5-Specifications- Item Code 33331-009 - Web Application Firewall- S.No. D. Web Application Firewall Features	The solution should be IPv6/IPv4 dual stack compatible with IPv6 certified.	The solution should be IPv6/IPv4 dual stack compatible
19	Page No. 41- Section 5-Specifications- Item Code 33331-009 - Web Application Firewall- S.No. E. Reporting Features	The system must provide request logging that support profile by enabling configuration log entries to be reported when requests/responses are received, supports audit logging of HTTP/decrypted HTTPS requests/responses, and enables	The system must provide request logging that support profile by enabling configuration log entries to be reported when requests/ responses are received, supports audit logging, and enables specification of a response to be issued when a specific requests/responses occur.

			,
		specification of a response to	
		be issued when a specific	
		requests/responses occur.	
20	Page No. 44 - Section	The solution should be IPv6/	The solution should be IPv6/
	5-Specifications-	IPv4 dual stack compatible	IPv4 dual stack compatible
	Item Code 33331- 010	with IPv6 certified.	
	-Distributed Denial of		
	Service (DDoS) -		
	S.No. B. Generic		
	Features		
21	Page No. 44- Section	System should support	System /Solution should support
	5-Specifications-	horizontal and vertical port	horizontal and vertical port
	Item Code 33331- 010	scanning behavioral protection	scanning behavioral protection
	-Distributed Denial of		
	Service (DDoS) -		
	S.No. C. Security /		
	DDoS Feature		
22	Page No. 45 - Section	System should Protect from	System/Solution should Protect
	5-Specifications-	Brute Force and dictionary	from Brute Force and dictionary
	Item Code 33331- 010	attacks	attacks
	- Distributed Denial of		
	Service (DDoS) -		
	S.No. C. Security /		
	DDoS Feature		
23	Page No. 45 - Section	System should support	System/Solution should support
	5-Specifications-	suspension of traffic/	suspension of traffic/
	Item Code 33331- 010	blacklisting from offending	blacklisting from offending
	- Distributed Denial of	source based on a	source based on a
	Service (DDoS) -	signature/attack detection	signature/attack detection
	S.No. C. Security /		
24	DDoS Feature	G 4 1 11	G , /G 1 , 1 11 , 1
24	Page No. 45 - Section		System/Solution should support
	5-Specifications-		intrusion prevention from known
			attacks either on the appliance or
	- Distributed Denial of	appliance or through external	through external appliance
	Service (DDoS) -	appliance	
	S.No. C. Security /		
25	DDoS Feature Page No. 45 - Section	System should have capability	System/Solution should have
23	5-Specifications-	to allow custom signature	capability to allow custom
	Item Code 33331- 010	creation	signature creation
	- Distributed Denial of	Cication	Signature creation
	Service (DDoS) -		
	S.No. C. Security /		
	DDoS Feature		
26	Page No. 48 - Section	Proposed solution should	Proposed solution should extract
	5- Specifications-	extract the attributes of a	the attributes of a network
	Item Code 33331- 011	network session in the form of	session in the form of a meta [
	- Security Information	a meta [Like IP source,	Like IP source, Destination,
	and Event	Destination, Country, Mac	Country, Mac Address etc
	Management – S.No.	Address etc] from both	from both header and payload
<u> </u>	1.13110501110111 5.110.	11221000 CCC j Hom Oom	110111 00111 Headel alla payload

	2. Log Collection and	header and payload of all	,
	Management	common network protocols	
27	Page No. 49 - Section	D. Spear Phishing :	D. Spear Phishing :
	5-Specifications-	Proposed Solution should	Proposed Solution should
	Item Code 33331- 011	reconstruct network protocols	reconstruct, can extract and
	- Security Information	on the wire and can extract and	analyze files being transferred.
	and Event	analyze files being transferred.	Combining this with deep file
	Management- S.No.3.	Combining this with deep file	inspection, file anomalies
	Correlation	inspection, file anomalies	signifying potentially malicious
		signifying potentially	executable delivery can be
		malicious executable delivery	alerted on and investigated.
		can be alerted on and	Spear phishing is a common
		investigated. Spear phishing	delivery mechanism employed by
		is a common delivery	attackers, often times carrying
		mechanism employed by	malicious files (eg. Encrypted
		attackers, often times carrying	executables, weaponized PDFs).
		malicious files (eg. Encrypted	E. Dynamic DNS - Data
		executables, weaponized	Exfiltration :
		PDFs).	Proposed Solution should
		E. Dynamic DNS - Data	reconstruct, can extract and
		Exfiltration :	analyze files being transferred. A
		Proposed Solution should	common data exfiltration
		reconstruct network protocols	technique used by threat actors
		on the wire and can extract and	involves uploading archive files
		analyze files being transferred.	to external hosts using dynamic
		A common data exfiltration	DNS domains. Proposed
		technique used by threat actors	Solution can extract the root
		involves uploading archive	domain for dynamic DNS
		files to external hosts using	providers and detect uploads
		dynamic DNS domains.	(eg. HTTP upload) of data and
		Proposed Solution can	uncover the impact to business
		extract the root domain for	F. Malicious Protocols - Ghost
		dynamic DNS providers and	RAT :
		detect uploads (eg. HTTP	Many commonly used remote
		upload) of data and uncover	access tools (RATs) have been
		the impact to business	programmed with custom
		F. Malicious Protocols - Ghost	network protocols in an effort to
		RAT :	evade detection by traditional
		Many commonly used remote	tools. Proposed solution should
		access tools (RATs) have been	support through full session
		programmed with custom	reconstruction and deep
		network protocols in an effort	inspection into network traffic, is
		to evade detection by	able to detect the Gh0st RAT
		traditional tools. Proposed	protocol in real- time
		solution should support	
		through full session	
		reconstruction and deep	
		inspection into network traffic,	
		is able to detect the Gh0st RAT	
-	D 31 51 5	protocol in real- time	
28	Page No. 51 - Section	The solution should provide	The solution should provide
	5-Specifications-	network traffic insight by	network traffic insight by

29	Item Code 33331- 011 - Security Information and Event Management- S.No. 8. Real-Time and Advanced Analytics Page No. 25- Section	a. Classifying protocols and applications b. Reconstructed file such as a Word document, image, Web page, system files c. Deep-packet inspection d. Log Analysis & Aggregation e. Reconstruct sessions and analyze artifacts f. Preview artifacts and attachments Hot Swappable Power Supply	a. Classifying applications b. Reconstructed file such as a Word document, image, Web page, system files c. Deep-packet inspection d. Log Analysis & Aggregation e. Reconstruct file and analyze artifacts f. Preview artifacts and attachments Redundant Power Supply
	No. 5- Specification- Item code: 33331-004 IP KVM Switch – S.No. 10.	(without turning on/off KVM)	
30	Page No. 15- Section No. 4. Eligibility Criteria – S.No. 8	Eligibility Conditions: Hardware OEM/s should have ISO 9001:2015 or latest certified manufacturing facility and ISO 14001:2015 or latest certified for handling hazardous products.	Eligibility Conditions: OEM/s should have ISO 9001:2015 or latest certified manufacturing facility / 27001: 2013 or latest for Information Security Management System AND/OR ISO 14001:2015 or latest certified for handling hazardous products.
		Documentary Proof to be submitted: Should submit copy of VALID ISO 9001: 2015 or latest and ISO 14001: 2015 or latest Certificates of OEM/s.	Documentary Proof to be submitted: Should submit copy of VALID ISO 9001: 2015 or latest/ 27001: 2013 or latest AND/OR ISO 14001: 2015 or latest
31	Page No. 18- Section No. 5- Specification- Item code: 33331-002 - Layer 3 Switch- S.No. 5 Resiliency and high availability	submitted: Should submit copy of VALID ISO 9001: 2015 or latest and ISO 14001: 2015 or	submitted: Should submit copy of VALID ISO 9001: 2015 or latest/ 27001: 2013 or latest AND/OR ISO 14001: 2015 or latest Certificates of OEM/s. The Switch should support Bidirectional Forwarding Detection (BFD) to enables link connectivity monitoring and reduces network convergence time for OSPF, BGP, VRRP and switch virtualization technology
31	No. 5- Specification- Item code: 33331-002 - Layer 3 Switch- S.No. 5 Resiliency	submitted: Should submit copy of VALID ISO 9001: 2015 or latest and ISO 14001: 2015 or latest Certificates of OEM/s. The Switch should support Bidirectional Forwarding Detection (BFD) to enables link connectivity monitoring and reduces network convergence time for RIP, OSPF, BGP, VRRP and switch	submitted: Should submit copy of VALID ISO 9001: 2015 or latest/ 27001: 2013 or latest AND/OR ISO 14001: 2015 or latest Certificates of OEM/s. The Switch should support Bidirectional Forwarding Detection (BFD) to enables link connectivity monitoring and reduces network convergence time for OSPF, BGP, VRRP and

	Layer 3 Switch- S.No.	time for RIP, OSPF, BGP,	time for OSPF, BGP, VRRP
	9- Layer3 IPv4	VRRP	
	routing		
34	Page No. 22- Section	The solution must have ability	The solution must have ability to
	No. 5- Specification-	to inspect all network traffic in	inspect all network traffic in
	Item code: 33331-003	a single policy to	security policies to protect
	Firewall- S.No. 4-	protect against threats	against threats including
	Security Operational	including vulnerability	vulnerability exploits, viruses,
	Requirement	exploits, viruses, spyware and	spyware
		data leakage	

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

- SD/Managing Director