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Request for Proposal (RFP)
For
Empanelment of Vendors
For
**Supply of IT Hardware, Software &
other Peripherals under the Rate
Contract**

Addendum Document

Intelligent Communication Systems India Ltd. (ICSIL)

(Joint Venture of TCIL - A Govt. of India Enterprise & DSIIDC – An undertaking of Delhi
Government)

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1. Item Code Outdoor Wi-Fi Access Point

S. No.	Features	Specifications	Specifications offered by the OEM / Vendor	Compliance (Y/N)
1.	Brand	(Specify)		
2.	Model	(Specify)		
3.	Country of Origin	(Specify)		
4.	Country of Manufacture	(Specify)		
5.	Standards	IEEE 802.11g/ IEEE 802.11b/ IEEE 802.11/ IEEE 802.11n/ IEEE 802.3		
6.	Device Management	Web-Based – Internet Explorer v6 or later; Netscape Navigator v6 or later; or other Java-enabled browsers/ Wireless Controller		
		SNMP v.3		
7.	Wireless Distribution System	AP Client		
		PtP Bridge		
		Repeater		
8.	Security	64, 128, 152-bit WEP		
		802.1X (EAP-MD5, EAP-TLS, EAP-TTLS and EAP-PEAP) AES, TKIP		
		WPA2, MAC Address Access Control (Wireless MAC Filtering)		
9.	Media Access Control	CSMA/CA with ACK		
10.	Wireless Frequency Range	2.4GHz to 2.4835GHz / 5.18 GHz to 5.32 GHz / 5.5 to 5.825 GHz		
11.	Wireless Signal Range	Minimum up to 1312 ft (400 meters)		
12.	Modulation Technology	Orthogonal Frequency Division Multiplexing (OFDM)		
		Complementary Code Keying (CCK)		
		DQPSK		
		DBPSK		
13.	Wireless Transmit Power	Minimum 15dBm (32mW) ± 2dB		

S. No.	Features	Specifications	Specifications offered by the OEM / Vendor	Compliance (Y/N)
14.	Antenna Type	Must be internal		
15.	Number of Antennas	(Specify)		
16.	LED Indicators	Power		
		LAN (10/100 Mbps)		
		WLAN (Wireless Connection)		
17.	Temperature	Operating: -20°C to 40°C		
		Storing: -20°C to 65°C		
18.	Humidity	95% maximum (non-condensing)		
19.	Power Input	Ext. Power Supply 100v-230v 50Hz, 10W or above		
20.	Enclosure Protection	IP66/67, NEMA		
21.	Dimensions	(Specify)		
22.	Weight	(Specify)		
23.	Warranty	Comprehensive warranty shall cover the whole system for 3 years (All charges, material, labor and other incidentals have to be borne by the supplier during the warranty)		
24.	Brochure	Enclose original brochure of manufacture		

2. Item Code CCTV Monitor – 21”

S. No.	Features	Specifications	Specifications offered by the OEM / Vendor	Compliance (Y/N)
1.	Make	Please Specify		
2.	Model	Please Specify		
3.	Size	21 inch flat square (LED)		
4.	Resolution	Min 450 TVL		
5.	Control	Convenient front panel push-button controls. On-screen display/setup menus (OSD)		
6.	Video Standard	NTSC/PAL (auto-sensing)		
7.	Input	Video loop-through with automatic termination, Supports two composite and one S-VHS video input (looping)		
8.	General Requirements	<ul style="list-style-type: none"> • Universal power supply • Audio Input / Output- 2 channels • Switchable over scan and under scan • Available in black and cool grey cabinet colors • Min Pixel - 0.2715 mm • Brightness - 300 cd/m2 (Typical) • Contrast Ratio- 1,000:1 (Typical) • Response Time - 3 ms (GTG) 		
9.	Deflection	90° angle		
10.	Other	All necessary cable, mounting kit & accessories.		

3. Item Code CCTV Monitor – 27”

S. No.	Features	Specifications	Specifications offered by the OEM / Vendor	Compliance (Y/N)
1.	Make	Please Specify		
2.	Model	Please Specify		
3.	Size	27 inch flat square (LED)		
4.	Resolution	Min 650 TVL		
5.	Control	Convenient front panel push-button controls. On-screen display/setup menus (OSD)		
6.	Video Standard	NTSC/PAL (auto-sensing)		
7.	Input	Video loop-through with automatic termination, Supports two composite and one S-VHS video input (looping)		
8.	General Requirements	<ul style="list-style-type: none"> • Universal power supply • Audio Input / Output- 2 channels • Switchable over scan and under scan • Available in black and cool grey cabinet colors • Min Pixel - 0.2715 mm • Brightness - 300 cd/m2 (Typical) • Contrast Ratio- 1,000:1 (Typical) • Response Time - 3 ms (GTG) 		
9.	Deflection	90° angle		
10.	Other	All necessary cable, mounting kit & accessories.		

4. Item Code Entry Level Firewall

S. No.	Features	Specifications	Specifications offered by the OEM / Vendor	Compliance (Y/N)
1.	Make	Please Specify		
2.	Model	Please Specify		
3.	Maximum Throughput	400 - 512 Mbps		
4.	Concurrent sessions	15000 to 20000		
5.	Connections per second	Min 3000		
6.	Availability	Active/ Active and Active/Standby		
7.	Redundant Power Supply	Optional		
8.	Ports	6 Gigabit Ports		
9.	Management and Monitoring Interface	1 Ethernet port		
10.	Memory	1 GB		
11.	Minimum Flash	1 GB		
12.	Site-to-site and IPsec IKEv1 client VPN user sessions	Min 200		
13.	AnyConnect or clientless VPN user sessions	Min 200		
14.	VLANs	50/100		
15.	High-availability support	Yes		
16.	VPN throughput	Min 100 Mbps		
17.	VPN	500 peer license		

S. No.	Features	Specifications	Specifications offered by the OEM / Vendor	Compliance (Y/N)
	Licenses			
18.	VPN Client software	(Windows, Solaris, Linux, Mac)		
19.	Other	All the necessary cables and software and all mounting kit.		
20.	IPv6 Support	Yes		

5. Item Code Middle Level Firewall

S. No.	Features	Specifications	Specifications offered by the OEM / Vendor	Compliance (Y/N)
1.	Make	Please Specify		
2.	Model	Please Specify		
3.	Maximum Throughput	1 Gbps		
4.	Concurrent sessions	40000-50000		
5.	Connections per second	Min 6000		
6.	Availability	Active/ Active and Active/Standby		
7.	Redundant Power Supply	Optional		
8.	Ports	8 Gigabit Copper Ports with 4 SFP slot		
9.	Management and Monitoring Interface	1 Ethernet port		
10.	Memory	2 GB		
11.	Minimum Flash	1 GB		
12.	Site-to-site and IPsec IKEv1 client VPN user sessions	Min 250		
13.	AnyConnect or clientless VPN user sessions	Min 250		
14.	VLANs	50/100		
15.	High-availability support	Yes		
16.	VPN throughput	Min 200 Mbps		

S. No.	Features	Specifications	Specifications offered by the OEM / Vendor	Compliance (Y/N)
17.	VPN Licenses	750 peer license		
18.	VPN Client software	(Windows, Solaris, Linux, Mac)		
19.	Other	All the necessary cables and software and all mounting kit.		
20.	IPv6 Support	Yes		

6. Item Code High Level Firewall

S. No.	Features	Specifications	Specifications offered by the OEM / Vendor	Compliance (Y/N)
1.	Make	Please Specify		
2.	Model	Please Specify		
3.	Maximum Throughput	4 Gbps		
4.	Concurrent sessions	100000-200000		
5.	Connections per second	Min 10000		
6.	Availability	Active/ Active and Active/Standby		
7.	Redundant Power Supply	Optional		
8.	Ports	8 Gigabit Copper Ports with 4 SFP slot		
9.	Management and Monitoring Interface	1 Ethernet port		
10.	Memory	4 GB		
11.	Minimum Flash	2 GB		
12.	Site-to-site and IPsec IKEv1 client VPN user sessions	Min 250		
13.	AnyConnect or clientless VPN user sessions	Min 250		
14.	VLANs	50/100		
15.	VPN throughput	Min 250 Mbps		
16.	VPN Licenses	750 peer license		
17.	VPN Client	(Windows, Solaris, Linux, Mac)		

S. No.	Features	Specifications	Specifications offered by the OEM / Vendor	Compliance (Y/N)
	software			
18.	Other	All the necessary cables and software and all mounting kit.		
19.	IPv6 Support	Yes		

7. Item Code Network Security Manager (NSM)

S. No.	Features	Specifications	Specifications offered by the OEM / Vendor	Compliance (Y/N)
1.	Make	Please Specify		
2.	Model	Please Specify		
3.	Form Factor	1U/2U		
4.	Protocol Support	SNMP (v1, v2, v3), MIB-II		
5.	Scalability	Yes		
6.	Integration	Open for multi vender devices integration		
7.	Device Discovery	Automatic & Manual both		
8.	Link Discovery	Automatic & Manual both		
9.	Discovery Protocol Support	Multi		
10.	Synchronization	Should support auto and manual synchronization. Should have re-synchronization feature with inventory.		
11.	Interface	GUI and CLI both		
12.	Redundant Power Supply	Optional		
13.	Monitoring	Should be able to monitor topology, events, auto alarm generation, matrix, performance matrix, network performance etc.		
14.	Reporting	Pre-defined reports for inventory, availability, port status, etc.		
15.	Configuration Backup & Restore	Device configuration file backup/restore for applicable devices; 1:1 and 1:Many, immediately or scheduled		
16.	Other	All the necessary cables and software, required licenses and mounting kit.		
17.	Network Device Firmware Update	Should be able to generate pre alarm if new version of firmware is available		

S. No.	Features	Specifications	Specifications offered by the OEM / Vendor	Compliance (Y/N)
18.	Integrated event management	Yes		
19.	Report Manager	Yes		
20.	Bulk Operation Management	Yes		
21.	Device Grouping Support	Yes		
22.	Health and Performance Monitoring	Continuously analyzes normal and clustered security environments and sends alerts when preset thresholds are reached.		

8. Item Code Network Management System (NMS)

S. No.	Features	Specifications	Specifications offered by the OEM / Vendor	Compliance (Y/N)
1.	Make	Please Specify		
2.	Model	Please Specify		
3.	Form Factor	1U/2U		
4.	Protocol Support	SNMP (v1, v2, v3), MIB-II		
5.	Scalability	Yes		
6.	Integration	Open for multi vender devices integration		
7.	Device Discovery	Automatic & Manual both		
8.	Link Discovery	Automatic & Manual both		
9.	Discovery Protocol Support	Multi		
10.	Synchronization	Should support auto and manual synchronization. Should have re-synchronization feature with inventory.		
11.	Interface	GUI and CLI both		
12.	Redundant Power Supply	Optional		
13.	Monitoring	Should be able to monitor topology, events, auto alarm generation, matrix, performance matrix, network performance etc.		
14.	Reporting	Pre-defined reports for inventory, availability, port status, etc.		
15.	Configuration Backup & Restore	Device configuration file backup/restore for applicable devices; 1:1 and 1:Many, immediately or scheduled		
16.	Other	All the necessary cables and software, required licenses and mounting kit.		
17.	Network Device Firmware Update	Should be able to generate pre alarm if new version of firmware is available		

S. No.	Features	Specifications	Specifications offered by the OEM / Vendor	Compliance (Y/N)
18.	Integrated event management	Yes		
19.	Report Manager	Yes		
20.	Bulk Operation Management	Yes		
21.	Device Grouping Support	Yes		
22.	Health and Performance Monitoring	Continuously analyzes normal and clustered security environments and sends alerts when preset thresholds are reached.		

9. Item Code Rack 15U

S. No.	Features	Specifications	Specifications offered by the OEM / Vendor	Compliance (Y/N)
1.	Make	Please Specify		
2.	Model	Please Specify		
3.	Size	15U, 600W/600D (with front VNTD Glass Door, Back Fully perforated Door)		
4.	Wireless Standard	Castor, Tyreman, FT brake & Back STD		
5.	FAN	Fan HSG, unit with 2 fans		
6.	Mounting Hardware	10x10 Pkt		
7.	Earthing kit	Yes		
8.	PDU	Power Dist. Unit, 6 socket, horizontal, 5 AMPS		
9.	Cable management	Cable Manager, Duct type, 1U, Front only		
10.	Other	As required		

10. Item Code SAN Switch

S. No.	Features	Specifications	Specifications offered by the OEM / Vendor	Compliance (Y/N)
1.	Make	Please Specify		
2.	Model	Please Specify		
3.	Port Support	Min 4 Gbps FC Port		
4.	Number of Ports	24		
5.	10 M MM Fibre Cable LC-LC	24		
6.	Power	Redundant		
7.	Fan	Redundant		
8.	Access Control	The switch shall support role based administration by allowing different administrators different access rights to switch.		
9.	Supported Platforms	The SAN switch should have capability to interface with HBA of different makes and model from multiple OEM, supporting multiple OS.		
10.	Disk Array Support	The SAN switch should support all leading SAN disk array and tape libraries including		
11.	Interface	GUI		
12.	User Role	Must provide multiple user role with access restrictions		
13.	Other	All the necessary cables and software, required licenses and mounting kit.		

11. Item Code SAN

S. No.	Features	Specifications	Specifications offered by the OEM / Vendor	Compliance (Y/N)
1.	Make	Please Specify		
2.	Model	Please Specify		
3.	RAID Controller	Support various level of RAID		
4.	Performance	No Single point of failure for controller, cache, disks, power supply and cooling.		
5.	Storage array support	ATA/SATA/FATA and FC disks etc		
6.	Disk Support	146GB, 300GB 15K RPM HC HDD and 500 GB or higher ATA/SATA disk Drives. Should support global hot spare or universal hot spare disks.		
7.	Fan	Redundant		
8.	Useable cache per controller	Min 4GB. Shall support de-staging of cache to disks on power down or shall support internal battery backup of cache for at least 48 hours. The data in cache shall not be lost in case of power failure.		
9.	High availability	Support multi-path and load balancing configuration		
10.	Security	LUN Masking and SAN Security		
12.	Backup	The Storage shall support Point-in-time copy and full volume copy for heterogeneous storage arrays. The licenses configured should be one time for the entire storage device and no incremental license should be charged at the time of capacity upgrade. It should support these operations from storage of one OEM to storage from another OEM.		
13.	Architecture	1+1 active or active – passive storage controllers and mirrored cache		
14.	Port Support	Each storage controller shall support minimum 4 frontend FC port and 4 backend FC ports. Each fiber channel shall support minimum 4 Gbps rated BW		
15.	Platform	Latest Operating System Platforms & Clustering including: ISC/RISC/EPIC		

S. No.	Features	Specifications	Specifications offered by the OEM / Vendor	Compliance (Y/N)
	Support	– based servers running Microsoft, HP, IBM, Sun, Linux etc.		
16.	Cluster Support	Should support high availability cluster solution provided by all OEM.		
17.	Monitoring & Management Software	<p>GUI based management software as below.</p> <ul style="list-style-type: none"> • Monitor and manage the storage array • Configuring PITs • Remote storage base replication • Storage front end monitoring • Disk monitoring • LUN Management •Storage component replacement etc. 		
18.	Data Replication	Support data replication in both synchronous and asynchronous modes across heterogeneous storage arrays from different OEMs.		
19.	Pre loaded Configuration	Should be configured with 10 TB 146 GB 15 K RPM FC disks, 10 TB with 300 GB 15 K RPM FC disks and 20 TB with 500 GB or higher 15 K RPM SATA drives.		
20.	Licenses	Software licenses included for (Storage Array Management, Point-in-Time copy, Volume copy, multipathing software for host)		
21.	Other	All necessary software, cables and mounting kit.		

12. Item Code Unified Access Control (UAC)

S. No.	Features	Specifications	Specifications offered by the OEM / Vendor	Compliance (Y/N)
1.	Make	Please Specify		
2.	Model	Please Specify		
3.	Form Factor	1U/2U		
4.	Min. N/w devices supported	100		
5.	Clustering	Yes		
6.	Min User support	1000-2000		
7.	Role-based application-level enforcement	Yes		
8.	Automated patch assessment checks	Yes		
9.	Antispyware/ antimalware protection	Yes		
10.	Threat Control	Yes		
11.	Device Support	Should support multi vendor devices		
12.	Interface	GUI		
13.	Redundant Power Supply	Optional		
14.	Reporting	Enabled with customization of reporting format and provide hourly/ Daily/ Weekly/ Monthly Report		
15.	Management Support	Content Filtering, centralized policy implementation, centralized policy update deployment, Global Search of devices. Should support integration with services desk tool. Ability to store configuration database, known error database, knowledge database		

S. No.	Features	Specifications	Specifications offered by the OEM / Vendor	Compliance (Y/N)
		etc.		
16.	User Role	Must provide multiple user role with access restrictions		
17.	Other	All the necessary cables and software, required licenses and mounting kit.		
18.	IPv4 and IPv6 Cross-Compatibility	Yes		
19.	Integrated event management	Yes		
20.	Report Manager	Yes		
21.	Bulk Operation Management	Yes		
22.	Device Grouping Support	Yes		

13. Item Code Entry Level UTM Box

S. No.	Features	Specifications	Specifications offered by the OEM / Vendor	Compliance (Y/N)
1.	Make	Please Specify		
2.	Model	Please Specify		
3.	Firewall Throughput	Min 1 Gbps		
4.	VPN throughput	Min 250 Mbps		
5.	Antivirus throughput	Min 200 Mbps		
6.	IPS throughput	Min 200 Mbps		
7.	UTM throughput	Min 512 Mbps		
8.	Concurrent sessions	Min 200000		
9.	Connections per second	Min 15000		
10.	Packet per second	Min 400000		
11.	Availability	Active/ Active and Active/Standby		
12.	Redundant Power Supply	Optional		
13.	Ports	8 Gigabit Ports		
14.	Management and Monitoring Interface	1 Ethernet port		
15.	Memory	Min 1 GB		
16.	Minimum Flash	Min 1 GB		
17.	Site-to-site and IPsec IKEv1 client VPN user sessions	Min 200		

S. No.	Features	Specifications	Specifications offered by the OEM / Vendor	Compliance (Y/N)
18.	AnyConnect or clientless VPN user sessions	Min 200		
19.	VLANs	50/100		
20.	High-availability support	Yes		
21.	VPN throughput	Min 250 Mbps		
22.	VPN Licenses	500 peer license		
23.	VPN Client software	(Windows, Solaris, Linux, Mac)		
24.	Other	All the necessary cables and software and all mounting kit.		
25.	IPv6 Support	Yes		

14. Item Code High End UTM

S. No.	Features	Specifications	Specifications offered by the OEM / Vendor	Compliance (Y/N)
1.	Make	Please Specify		
2.	Model	Please Specify		
3.	Firewall Throughput	Min 2 Gbps		
4.	VPN throughput	Min 512 Mbps		
5.	Antivirus throughput	Min 512 Mbps		
6.	IPS throughput	Min 1 Gbps		
7.	UTM throughput	Min 1 Gbps		
8.	Concurrent sessions	Min 500000		
9.	Connections per second	Min 25000		
10.	Packet per second	Min 1000000		
11.	Availability	Active/ Active and Active/Standby		
12.	Redundant Power Supply	Optional		
13.	Ports	8 Gigabit Ports		
14.	Management and Monitoring Interface	1 Ethernet port		
15.	Memory	Min 2 GB		
16.	Minimum Flash	Min 2 GB		
17.	Site-to-site and IPsec IKEv1 client VPN user sessions	Min 200		

S. No.	Features	Specifications	Specifications offered by the OEM / Vendor	Compliance (Y/N)
18.	AnyConnect or clientless VPN user sessions	Min 200		
19.	VLANs	50/100		
20.	High-availability support	Yes		
21.	VPN throughput	Min 250 Mbps		
22.	VPN Licenses	500 peer license		
23.	VPN Client software	(Windows, Solaris, Linux, Mac)		
24.	Other	All the necessary cables and software and all mounting kit.		
25.	IPv6 Support	Yes		

15. Item Code Wireless LAN Controller

S. No.	Features	Specifications	Specifications offered by the OEM / Vendor	Compliance (Y/N)
1.	Make	Please Specify		
2.	Model	Please Specify		
3.	Supported Access Points	Upto 50		
4.	Wireless Standard	IEEE 802.11a, 802.11b, 802.11g, 802.11d, 802.11h, 802.11n		
5.	Protocol Support	IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX specification, 1000BASE-T, 1000BASE-SX, 1000BASE-LH, IEEE 802.1Q Vtagging, and IEEE 802.1AX Link Aggregation		
6.	Security Standards Support	Should support all and latest international security standard		
7.	Encryption	WEP, TKIP-MIC, SSL, TLS, AES, IPSec		
8.	Management	Both – Web Based & CLI		
9.	Power Redundancy	Optional		
10.	Platform support	Should support multi vendor access points		
11.	Monitoring & Report	Should be able to monitor the access points and provide		
12.	Other	All necessary software, cables and mounting kit.		

16. Item Code RAM

S. No.	Features	Specifications	Specifications offered by the OEM / Vendor	Compliance (Y/N)
1.	2GB	2GB, UDIMM Memory, 1600 MHz, ECC		
2.	2GB	2GB, UDIMM Memory, 1600 MHz		
3.	4GB	4GB, UDIMM Memory, 1600 MHz, ECC		
4.	4GB	4GB, UDIMM Memory, 1600 MHz		
5.	8GB	8GB, UDIMM Memory, 1600 MHz, ECC		
6.	8GB	8GB, UDIMM Memory, 1600 MHz		
7.	16GB	16GB, UDIMM Memory, 1600 MHz, ECC		
8.	16GB	16GB, UDIMM Memory, 1600 MHz		