

TENDER ENQUIRY

Registrar, Armed Forces Tribunal, Regional Bench, Chandigarh

Tender Enquiry No : AFT-CHB/GA/Networking/1355 dated 22 Dec 2016.

To,

Dear Sir,

INVITATION FOR SUPPLY OF HARDWARE ITEMS, NET WORKING AND SOFTWARE SOLUTION FOR COURT CASE MANAGEMENT SYSTEM

In continuation of Tender Enquiry bearing No AFT-CHB/GA/Networking/1254 dated 30 Nov 2016 on the above subject, revised specifications of Hardware and Networking items are enclosed herewith.

The last date for submission of Bids is at 1100h on 06 Jan 2017 and tender will be opened on 09 Jan 2017 at 1300h.

You are requested to forward the Tender Enquiry in accordance with revised specification.

Sd/- x x x x x x x x
Registrar

Annexure

**Quantity Required and Technical Specification
for Hardware and Networking**

Sr No	Item Description	A/U	Qty
1	User Access console	No	6
2	Server	No	1
3.	Thin Client with 32" size LED Monitor	Nos	04
4.	Thin Client with 18.5" Display Monitor	Nos	03
5	L2 Switch 24 Port	No	1
6	Switch 16 Port	No	3
7	IO Box	No	54
8	8 Port Normal Switch	No	3
9	UTP Cable 305 Mtr Box	Box	09
10	Caping & Casing	No	950
11	Firewall	No	1
12	Wall Mount Rack 4 U fully loaded	No	7
13	Patch Cord 2 Meter	No	54
14	On Line UPS 2 KVA	No	1
15	RJ 45 Connector	No	200

Note : Above requirements are tentative may increase or decrease.

TECHNICAL SPECIFICATION

1. User Access console : Make _____ Model _____

Ser No	Technical Specification		Compliance (YES/NO)	Deviation (If Any)
A	Processor	Core i3 4th Gen or above		
B	Memory	4 GB PC-3 1600 MHz		
C	Storage/Harddisk	1 TB or higher		
D	Optical Drive	DVD Recordable		
E	Back Port	1 x VGA, 1 x HDMI, 2 x USB 3.0, 2 x USB 2.0, 3-in-1 Audio (Mic-in, Line-in, Line-out), LAN 10/100/1000		
F	Front Port	2 x USB 2.0, 2 Audio (Mic-in, Line-out)		
G	Monitor	18" LED Monitor		
H	Keyboard & Mouse	Standard USB Key Board and Mouse		
I	Operating System	Win 10 Pro.		

2. Server. _Make _____ Model _____

A	Form factor/height	Tower		
B	Processor (max)	Intel Xeon E3-1200v2 series (quad-core) up to 2.1 GHz/8 MB/1600 MHz or higher		
C	Number of processors	one		

Ser No	Technical Specification		Compliance (YES/NO)	Deviation (If Any)
D	Cache (max)	8 MB (processor and model dependent)		
E	Memory installed	32 GB 1600 MHz DDR-3 UDIMMs via 4 DIMM slots		
F	Expansion slots	4 PCIe slots (x16, x8, x4, x1)		
G	Disk bays (total)	3.5" simple swap 4 Serial ATA (SATA)		
H	internal storage	2 GBSata HDD		
I	Network interface	Integrated dual Gigabit Ethernet		
J	Power supply (std/max)	350 W fixed or 80-PLUS® certified 300 W fixed		
K	RAID support	ServeRAID-C100 for System x supports integrated RAID-0, -1; supports hardware RAID-0, -1, -10, -5, -6 for advanced data protection		
l	Operating systems supported	Microsoft Windows Server 2012/Microsoft Windows Server 2008 R2/Microsoft Windows Server 2008, SBS 2011, Red Hat Linux, SUSE Linux		
M	Operating System installed	Microsoft Windows server 2012 R2 standard		
N	Monitor	18.5" LCD Monitor		
O	Key Board and Mouse	Standard Key Board and Optical Mouse		

3. Thin Client with 32” size LED Monitor.

Make _____ Model _____

Ser No	Desired Specification/Qualitative Requirement		Compliance (YES/NO)	Deviation (If Any)
a	Thin Client			
i)	Speed- 1 GHz Processor			
ii)	RAM-256 MB			
iii)	Port- 2no X PS2 port, 1no X VGA Port, 1no X HDMI Port ,1no X Lan (10/100/1000) Port, 4No X USB Port, Audio in and Out Port			
b	32” Size LED Monitor			
i)	Display feature	LED Full HD		
ii)	Screen Size	32 Inch		
iii)	Connectivity	HDMI, USB, VGA		
iv)	Resolution	1366X786 or better		
v)	Number of Speakers	2 No		
vi)	Should have Table top Stand and Wall mount			

4. Thin Client with 18.5” Display Monitor

a. Thin Client Make- _____, Model- _____

b. 18.5” Display Monitor Make- _____Model- _____

Ser No	Desired Specification/Qualitative Requirement		Compliance (YES/NO)	Deviation (If Any)
a	Thin Client			
i)	Speed- 1 GHz Processor			
ii)	RAM-256 MB			
iii)	Port- 2no X PS2 port, 1no X VGA Port, 1no X HDMI Port ,1no X Lan (10/100/1000) Port, 4No X USB Port, Audio in and Out Port			
b	18.5” Display Monitor			
i)	Display feature	LED		
ii)	Screen Size	18.5 Inch		
iii)	Connectivity	VGA		
iv)	Resolution	1366X786 or better		
v)	Should have Table top Stand and Wall mount			

5. L2 Switch 24 Port Make- _____, Model- _____

Sr No	Desired Specification/Qualitative Requirement	Compliance (YES/NO)	Deviation (If Any)
1	<u>Edge Switch (Layer 2)</u>		
1.1	<u>Architecture</u>		
(a)	Switch should have minimum 24 10/100/1000 Mbps ports and 4 SFP ports for fiber uplinks		
1.2	<u>Performance</u>		
(a)	Switch shall have Non-blocking architecture with minimum 56Gbps Switching Capacity and minimum 41.7 Mbps packet forwarding rate or higher		
(b)	The Switch shall support Min. 16K Mac address.		

Sr No	Desired Specification/Qualitative Requirement	Compliance (YES/NO)	Deviation (If Any)
1.3	<u>Layer 2 Features</u>		
(a)	The Switch shall support IGMP Snooping v1,v2 with minimum 250 multicast groups support.		
(b)	The Switch should support Spanning tree protocols as per IEEE standards IEEE 802.1d, IEEE 802.1w		
(c)	The Switch should support IEEE 802.3ad Link Aggregation		
(d)	The switch should have Port Mirroring One to one /Many to One		
(e)	The switch shall support loop detection created by port or VLAN and automatically shut down that affective port or VLAN.		
(f)	It should support LLDP and LLDP-MED		

1.4	<u>VLAN</u>		
(a)	The LAN switch should have IEEE 802.1Q VLAN encapsulation, up to 4000 VLAN IDs.		
(b)	It Should Support Asymmetric VLAN		
(c)	It should support Voice VLAN		
1.5	<u>Quality of Service</u>		
(a)	It should support 802.1p Priority Queues (8 Queues)		
(b)	Switch shall support for QOS mechanisms Strict Priority Queue (SPQ) and Weighted Round Robin (WRR)		
(c)	Shall support Rate Limiting functions on per port to guarantee bandwidth in increments should be as low as 64 Kilobits per Second.		
1.6	<u>OEM Terms</u>		
(a)	Manufacturer should have ISO 9001:2008 Certification for Quality Management System.		
(b)	Manufacturer should have ISO 14001:2004 Certification for Environmental Management System.		

Ser No	Technical Specification	Compliance (YES/NO)	Deviation (If Any)
1.7	<u>Network Security</u>		
(a)	The LAN Switch should have the capability to support access list based on IPv4/v6 address, Protocol type, VLAN-ID, MAC-ID, DSCP, IPv6 traffic class, TCP/UDP Port, Switch port.		
(b)	The Switch should support minimum 50 Access Control Entries.		
(c)	It should support SSHv2, SNMPv3 to provide network security by encrypting administrator traffic during Telnet and SNMP sessions.		
(d)	It should support ; Local database ;RADIUS authentication		
(e)	It should support DHCP snooping and to allow administrators to ensure consistent mapping of IP to MAC addresses.		
(f)	It should support port security to secure the access to an access or trunk port based on MAC address and it should be minimum 60 MAC-ID per port		
(g)	It should have IP-MAC-Port binding.		
(h)	Switch should support IPv6 Neighbor Discovery or Equivalent		
1.7	<u>OAM</u>		
(a)	Switch should support Virtual Cable Test or equivalent cable diagnostics functionality		
1.8	<u>Management</u>		
(a)	It should support SNMPv1, v2c, v3 and Telnet interface to deliver comprehensive in-band management		
(b)	It should support TFTP to reduce the cost of administering software upgrades by downloading from a centralized location.		
(c)	It should support Network Timing Protocol (NTP/SNTP) to provide an accurate and consistent timestamp to all intranet switches.		
(d)	Switch should consume less power through auto-detection of link status, LED or Port Shut off etc.		

6. Switch 16 Port Make-, Model-

Ser No	Desired Specification/Qualitative Requirement	Compliance (YES/NO)	Deviation (If Any)
i)	No of Port Sixteen 10/100/1000 Mbps Fast Ethernet ports		
ii)	Switch should have Auto-Sensing 10/100/1000 Ports features		
iii)	Switch should have Auto MDI/MDIX Crossover features		
iv)	Store-and-forward switching scheme		
v)	Full/half-duplex for Ethernet/Fast		
vi)	IEEE 802.3x Flow Control		
vii)	Plug-and-play installation		
viii)			
ix)	Standards- -IEEE 802.3 10BASE-T Ethernet (twisted-pair copper) -IEEE 802.3u 100BASE-TX Fast Ethernet (twisted-pair -copper) IEEE 802.3u 1000 BASE-TX Fast Ethernet (twisted-pair -copper) -ANSI/IEEE 802.3 NWay auto-negotiation -IEEE 802.3x flow control -IEEE 802.3az Energy-Efficient Ethernet (EEE)		
x)	Transmission Method-Store-and-forward		
xi)	MAC Address Table-1K entries per device		

7. IO Box Make-, Model-

Ser No	Specification	Compliance (Yes/No)	Deviation (If Any)
i)	RJ 45 Crystal with face Plate and Box		
ii)	Information Outlet Box should fix on wall surface		
iii)	Information Outlet Box should have ISO certified Make		

8. Port Normal Switch Make-..... Model-

Ser No	Desired Specification/Qualitative Requirement	Compliance (YES/NO)	Deviation (If Any)
i)	No of Port 08 Nos		
ii)	Switch should have Auto-Sensing 10/100/1000 Ports features		
iii)	Switch should have Auto MDI/MDIX Crossover features		
iv)	Store-and-forward switching scheme		
v)	Full/half-duplex for Ethernet/Fast		
vi)	IEEE 802.3x Flow Control		
vii)	Plug-and-play installation		
viii)	Standards- -IEEE 802.3 10 BASE-T Ethernet (twisted-pair copper) -IEEE 802.3u 100 BASE-TX Fast Ethernet (twisted-pair -copper) IEEE 802.3u 1000 BASE-TX Fast Ethernet (twisted-pair -copper) -ANSI/IEEE 802.3 NWay auto-negotiation -IEEE 802.3x flow control -IEEE 802.3az Energy-Efficient Ethernet (EEE)		
ix)	Transmission Method-Store-and-forward		

9. UTP Cable 305 Mtr Box Make-..... Model-

Ser No	Technical Specification	Compliance (YES/NO)	Deviation (If Any)
i)	UTP Cable Type- CAT6E		
ii)	Conductor 24 AWG, Multi Cores (Solid)		
iii)	Conductor Metal Bare Copper		
iv)	Jacket Hardness 55P (84A +3A Shore)		
v)	Heat Resistance 60 Degree min		

10. PVC Caping & Casing

Ser No	Specification	Compliance (Yes/No)	Deviation If Any
i)	ISI Make PVC Capping & Casing with Generic Specification		
ii)	Size should be discrete size as per requirement		

11. Firewall **Make-..... Model-**

Ser No	Specification	Compliance (Yes/No)	Deviation If Any
1	Should also have application intelligence for commonly used TCP/IP protocols like telnet, ftp etc.	Yes/No	
2	Should be rack mountable.	Yes/No	
3	Should be managed with Local Management.	Yes/No	
4	Should have integrated network Intrusion Prevention (NIPS) Module	Yes/No	
5	Should have integrated module for IPSEC & SSL VPN	Yes/No	
6	The proposed solution should support administration via secured communication over HTTPS, SSH and from Console.	Yes/No	
7	Should be supplied with the support for static and dynamic routing capabilities.	Yes/No	
8	Solution should support appliance, hardware, or virtual machine	Yes/No	
9	Should Support High availability (Active/Active & Active /standby)	Yes/No	
10	UTM should be fully featured with Firewall /Anti Virus/Anti Spam/IPS/Content Filtering and On Appliance reporting feature No additional Application for reporting	Yes/No	
11	Should Support IPv6 Ready	Yes/No	
12	Solution should support browser-based End User Self service option for Mail Quarantine, Mail Logs , Sender whitelist & Blacklist, Remote Access , HTTPS Proxy Etc..	Yes/No	

Ser No	Technical Specification	Compliance (YES/NO)	Deviation (If Any)
13	Licensing of the Gateway Security devices should be available.	Yes/No	
14	Should have integrated QoS / Bandwidth Management Module	Yes/No	
15	The security system should have Graphical real-time and historical monitoring.	Yes/No	
16	The system must work as standalone HTTP proxy server with integrated Firewall, Anti Virus, Anti Spam, Content filtering, IPS.	Yes/No	
17	System should support SNMP v1, v2c & v3.	Yes/No	
18	The system should have unrestricted user/node license.	Yes/No	
19	Should support user/IP/MAC binding functionality to map username with IP address & MAC address for security reason.	Yes/No	
	Interface and Connectivity Requirements		
20	The platform must be supplied with at least 6 number of 10/100/1000Mbps interfaces on Copper or higher	Yes/No	
21	The device should have 2 USB Port with one console port (RJ 45)		
22	The platform should support VLAN tagging	Yes/No	
23	should provide bandwidth utilization graph on daily, weekly, monthly or yearly for total or individual ISP link.	Yes/No	
	Performance Requirements		
24	Network Security Solution should support 125,000 Concurrent connections or better.	Yes/No	
25	Network Security Solution should support 4,000 new connections/second or better.	Yes/No	
26	Should have firewall large packet throughput of 1.25 Gbps or better.	Yes/No	
27	Should have integrated IPS throughput of 200Mbps with most common IPS signatures policy	Yes/No	
28	Should support Anti Virus throughput 250 Mbps or higher	Yes/No	
29	Should have minimum 75 IPSec tunnel or better	Yes/No	
30	Should support unlimited authenticated users.	Yes/No	

Ser No	Technical Specification	Compliance (YES/NO)	Deviation (If Any)
31.	Should support 50 SSL VPN concurrent users	Yes/No	
32	It should support 1 Gbps firewall throughput (TCP)	Yes/No	
33	Should support Active-Active configuration in order for future clustering with 2 appliances	Yes/No	
34	The proposed solution must work as standalone HTTP proxy server with integrated Firewall, Anti Virus, Anti Spam, Content filtering, IPS,AV	Yes/No	
35	The proposed solution must support User based policy configuration for security & internet management.	Yes/No	
36	The proposed solution should support Web Application Firewall to protect web servers hosted in the network for protection against SQL Injections, Cross-Site Scripting (XSS), Session Hijacking, URL Tampering, Cookie Poisoning with Extensive reporting and Logging.	Yes/No	
	Administration, Authentication & General Configuration		
37	The proposed solution should support administration via secured communication over HTTPS & SSH	Yes/No	
38	The proposed solution should be able to export and import configuration backup including user objects	Yes/No	
39	The proposed solution should support Route (Layer 3)/transparent mode (Layer 2).	Yes/No	
40	The proposed solution should support integration with Windows NTLM, Active Directory, LDAP, Radius or Local Database for user authentication.	Yes/No	
41	Clientless directory integration should support	Yes/No	
42	The proposed solution should provide real time data transfer/bandwidth utilization done by individual user/IP/application.	Yes/No	
43	The proposed solution should support NTP.	Yes/No	

Ser No	Technical Specification	Compliance (YES/NO)	Deviation (If Any)
44	The proposed solution should have multi lingual support for Web admin console.	Yes/No	
45	The proposed solution should support session time out & Idle time out facility to forcefully logout the users.	Yes/No	
46	The proposed solution should support ACL based user creation for administration purpose.	Yes/No	
47	The proposed solution should support inbuilt PPPOE client and should be capable to automatically update all required configuration whenever PPPOE get changed.	Yes/No	
48	The proposed solution should support SNMP v2c& v3.	Yes/No	
49	The proposed solution must provide flexible, granular role-based GUI administration.	Yes/No	
50	The proposed solution must provide support of multiple authentication servers for each module (Firewall, Different type of VPN)	Yes/No	
51	The proposed solution must support of authentication and must be able to differentiate users coming from same IP address.	Yes/No	
52	Multiple ISP load balancing and Failover	Yes/No	
53	The proposed solution should support explicit routing based on Source, Destination, Username and Application.	Yes/No	
54	The proposed solution should support weighted round robin algorithm for Load balancing.	Yes/No	
55	The proposed solution should provide option to create failover condition on ICMP, TCP or UDP protocol to detect failed ISP connection.	Yes/No	
56	The proposed solution should send alert email to admin on change of gateway status.	Yes/No	

Ser No	Technical Specification	Compliance (YES/NO)	Deviation (If Any)
57	The proposed solution should have Active/Active (Round Robin) and Active/Passive gateway load balancing and failover support.	Yes/No	
58	The proposed solution should be standalone appliance with hardened OS.	Yeas/No	
59	The proposed solution should be ICASA & checkmark certified firewall.	Yes/No	
60	The proposed solution should support stateful inspection with user based one-to-one & dynamic NAT	Yes/No	
61	The proposed solution must support user identity as matching criteria along with Source/Destination IP/Subnet/group, destination Port in firewall rule.	Yes/No	
62	The UTM must have SIP-enabled.	Yes/No	
63	The proposed solution should facilitate to apply unified threat policy like AV/AS, IPS, Content filtering, Bandwidth policy & policy based routing decision on firewall rule for ease of use, also unified threat controls must be applied on inter zone traffic.	Yes/No	
64	The proposed solution should support user defined multi zone security architecture.	Yes/No	
65	The proposed solution should have predefine application based on port/Signature & also support creation of custom application based on port/protocol number.	Yes/No	
66	The proposed solution should support inbound NAT load balancing.	Yes/No	
67	The proposed solution should support 802.1q VLAN tagging support.	Yes/No	
68	The proposed solution should must have User/MAC binding for authentication	Yes/No	
	IPS		
69	The proposed solution should be checkmark certified.	Yes/No	
70	The proposed solution should have signature based and protocol anomaly based Intrusion prevention system.	Yes/No	
71	The proposed solution should have 3500+ signature database.	Yes/No	

Ser No	Technical Specification	Compliance (YES/NO)	Deviation)
72	The proposed solution must support configuration option to disable/enable/category/signature to reduce the packet latency.	Yes/No	
73	The proposed solution should give username along with IP in IPS alerts and reports.	Yes/No	
74	The proposed solution should automatically takes update from update server.	Yes/No	
75	The proposed solution must support blocking of anonymous open HTTP Proxy running on 80 port or any other port & also should support client based open proxy like Ultra surf. .	Yes/No	
76	The proposed solution should able to detect & block known P2P based instant messaging application like Skype & known chat application like WLM, Rediffbol etc.	Yes/No	
77	The proposed solution should generate the alerts for attacks	Yes/No	
78	The proposed solution should generate historical reports based on top alerts, top attackers, severity wise, top victims, protocol wise.	Yes/No	
	Gateway Anti Virus		
79	The proposed solution should have an integrated dual Anti Virus solution.	Yes/No	
80	The proposed solution should have webcoast checkmark certification for Anti virus/Anti Spyware.	Yes/No	
81	The basic virus signature database of proposed solution should comprise complete wild list signatures and variants as well as malware like Phishing, spyware.	Yes/No	
82	The proposed solution should have facility to add signature/disclaimer in mails.	Yes/No	
83	The proposed solution must support on appliance quarantined facility and also personalized user based quarantine area.	Yes/No	
84	The proposed solution should support blocking of dynamic/executable files based on file extension.	Yes/No	
85	For SMTP traffic, the proposed solution should support following actions for infected, suspicious or protected attachments mails.	Yes/No	
	a.Drop mail	Yes/No	
	b.Deliver the mail without attachment	Yes/No	
	c.Deliver original mail	Yes/No	
	d.Notify to administrator	Yes/No	

Ser No	Technical Specification	Compliance (YES/NO)	Deviation (If Any)
	Gateway Anti Spam		
86	The proposed solution should have an integrated Anti Spam solution.	Yes/No	
87	The proposed solution should have checkmark certification for Anti Spam.	Yes/No	
88	The proposed solution should have configurable policy options to select what traffic to scan for spam	Yes/No	
89	The proposed solution should support spam scanning for SMTP & POP3.	Yes/No	
90	The proposed solution should support RBL database for spam detection.	Yes/No	
91	The proposed solution must support mail archive option to keep copy of incoming & outgoing mails to administrator defined email address.	Yes/No	
92	The proposed solution should have multiple configurable policy for email id/address group for quarantine setting, different actions instead of blanket policy.	Yes/No	
93	The proposed solution must support on appliance quarantined facility and also personalized user based quarantine area with email release option	Yes/No	
94	The proposed solution should support real time spam detection & also supports proactive virus detection technology which detects and blocks the new outbreaks	Yes/No	
95	immediately and accurately.	Yes/No	
96	For SMTP traffic, the proposed solution support following actions	Yes/No	
	a.Tagging	Yes/No	
	b.Drop	Yes/No	
	c.Reject	Yes/No	
	d.Change recipient	Yes/No	
	e.Deliver the mail to recipient	Yes/No	
97	The proposed solution should support IP/Email address white list/Black list facility.	Yes/No	
98	The proposed solution should support option to enable/disable anti spam scanning for SMTP authenticated traffic.	Yes/No	

Ser No	Technical Specification	Compliance (YES/NO)	Deviation (If Any)
99	The proposed solution should support spam detection using Recurrent pattern detection technology (RPD) to identify spam out breaks.	Yes/No	
100	The proposed solution should support language independent spam detection functionality.	Yes/No	
101	The proposed solution should block image based spam mails i.e. email message with text embedded in a image file.	Yes/No	
102	The proposed solution should provide historical reports based on username, IP address, Sender, Recipient & spam category.	Yes/No	
103	The proposed solution must provide Anti- Spam Message Digest feature per user.	Yes/No	
104	The proposed solution must save bandwidth by blocking 85% of spam messages at gateway level itself without downloading the message using advanced IP Reputation Filtering feature.	Yes/No	
105	Email quarantine & historical log	Yes/No	
	Proxy Solution Web content filtering		
106	The proposed solution should be webcoast checkmark certified.	Yes/No	
107	The proposed solution should be integrated solution with local database instead of querying to database hosted somewhere on the internet.	Yes/No	
108	The proposed solution must work as Standalone HTTP proxy.	Yes/No	
109	The proposed solution must have 60+ web categories with 35 Million URL database.	Yes/No	
110	The proposed solution must have following features inbuilt	Yes/No	
111	Should able to block HTTPS based URLs with the help	Yes/No	
112	of Certificates.	Yes/No	
113	Should able to block URL based on regular expression	Yes/No	
114	Should support exclusion list based on regular expression	Yes/No	
115	Must have support to block any HTTP Upload traffic.	Yes/No	

Ser No	Technical Specification	Compliance (YES/NO)	Deviation (If Any)
116	Should able to block Google cached websites on based of category.	Yes/No	
117	Should able to block websites hosted on Akamai.	Yes/No	
118	Should able to identify & block requests coming from	Yes/No	
119	behind proxy server on the base of username & IP address.	Yes/No	
120	Should able to identify & block URL translation request.	Yes/No	
121	The proposed solution should be able to identify traffic based on Productive, Neutral,unhealthy&non working websites as specified by admin.	Yes/No	
122	The proposed solution should have specific categories that would reduce employee productivity, bandwidth choking sites and malicious websites.	Yes/No	
123	The proposed solution should able to generate reports based on username, IP address, URL, groups, categories & category type.	Yes/No	
124	The proposed solution should support search criteria in reports to find the relevant data.	Yes/No	
125	The proposed solution should support creation of cyclic policy on Daily/Weekly/Monthly/Yearly basis for internet access on individual users/group of users.	Yes/No	
126	The proposed solution should support creation of internet access time policy for individual users or on group basis.	Yes/No	
127	The proposed solution should support creation of Data transfer policy on daily/weekly/monthly/yearly basis for individual user or group basis.	Yes/No	
128	The proposed solution should support creation of cyclic data transfer policy on Daily/weekly/Monthly/yearly basis for individual user or on group.	Yes/No	
129	The proposed solution should have integrated bandwidth management.	Yes/No	
130	The proposed solution should able to set guaranteed and burstable bandwidth per User/IP/Application on individual or shared basis.	Yes/No	
131	The proposed solution should provide option to set different level of priority for critical application.	Yes/No	

Ser No	Technical Specification	Compliance (YES/NO)	Deviation (If Any)
132	The proposed solution should provide option to define different bandwidth for different schedule in a single policy & bandwidth should change as per schedule on the fly.	Yes/No	
133	The proposed solution must provide web category based bandwidth management and prioritization.	Yes/No	
134	The proposed solution must provide logging and extensive controls on Instant Messaging (IM) traffic for Yahoo and MSN messengers	Yes/No	
135	a. Log of chat sessions for all or specific set of users.	Yes/No	
136	b. Rules to control allow or deny chat, voice, web cam and file transfer for specific ID or Group	Yes/No	
137	c. Archive of transferred files.	Yes/No	
138	d. Antivirus scanning on file transferred.	Yes/No	
	VPN		
139	The proposed solution should have 3DES, DES, AES, Twofish, Blowfish,	Yes/No	
140	The proposed solution should have IPSec NAT Traversal	Yes/No	
141	The proposed solution should have Domain name support for tunnel end points	Yes/No	
142	The proposed solution should have VPN connection redundancy	Yes/No	
143	The proposed solution should have Overlapping Network support and External Certificate Authority support	Yes/No	
	Logging & Reporting		
144	The proposed solution should support logging of Antivirus, Anti spam, content filtering, Traffic discovery, IPS, Firewall activity on syslog server.	Yes/No	
145	The proposed solution should provide detailed reports for all files uploaded via HTTP or HTTPS protocol. The report should include username/IP address/URL/File name/Date and Time.	Yes/No	
146	The proposed solution should provide data transfer reports on the base of application username, IP address.	Yes/No	
147	The proposed solution should provide connection wise reports for user, source IP, destination IP, source port, destination port or protocol.	Yes/No	

Ser No	Technical Specification	Compliance (YES/NO)	Deviation (If Any)
148	The proposed solution should have facility to send reports on mail address or on FTP server.	Yes/No	
149	The proposed solution should support Auditing facility to track all activity carried out Security appliance.	Yes/No	
150	The proposed solution should support multiple syslog servers for remote logging.	Yes/No	
151	The proposed solution should forward logging information of all modules to syslog servers.	Yes/No	
152	The proposed solution should have configurable option for email alerts/automated Report scheduling.	Yes/No	
153	The proposed solution should be able to provide detailed reports about all mails passing through the firewall.	Yes/No	
154	The proposed solution should provide reports for all blocked attempts done by users/IP address.	Yes/No	
155	The proposed solution must be capable to derive logs and reports of proprietary devices including UTMs, Proxy Firewalls, Custom Applications and Syslog-compatible devices.	Yes/No	
156	The proposed solution must be capable to provide Multiple Dashboard Report along with custom to customize the dashboards.	Yes/No	
157	The proposed inbuilt reporting solution should be capable to do the forensic analysis to help organizations reconstruct the sequence of events that occurred at the time of security breach	Yes/No	

12. Wall Mount Rack 4U Fully loaded Make-.....

Ser No.	Qualitative Requirements (QRs)	Compliance	Deviation (if any)
1.	4 U Wall Mount Rack		
	(a) Usable Height :6U 600mm		
	(b) Usable width : 19"		
2.	Material Used for fabrication		
	(a) CRCA Steel Sheet		
3.	Thickness of Material		
	(a) Rack of Height 4U		

Ser No	Technical Specification	Compliance (YES/NO)	Deviation (If Any)
4.	Powder Coating		
	(a) Coat Thickness = 50 - 70 microns		
	(b) Scratch Resistance =2 Kgs		
5.	Other Features		
	(a) Lockable front tinted glass door		
	(b) Top and Bottom cable entry provision at rear		
	(c) Fixed louvered side panels and top panel slotted (For Ventilation)		
	(d) Lockable Rear steel door		
	(e) Optional Removable side panels.		
	(f) Manufacturing Process Conforms to ISO 9001- 2000 Standards		
	(g) Power Strip 01x 5 socket will be supplied along with rack for power supply.		

13. Patch Cord 2 Meter

Ser No	Technical Specification	Compliance (YES/NO)	Deviation (If Any)
(a)	4 Pairs Unshielded Twisted Pair (UTP) Cable		
(b)	Conductor Metal: Bare Copper		
(c)	Conductor: 24 AWG		
(d)	Insulation Material: HD-PE		
(e)	Jacket Material: PVC UL94V-0		

14 . **Online UPS 2KVA: Make _____ Model _____**

S.No	Specifications	Complied	Deviation
	2 KVA Online UPS with 60 Min Backup		
a	The UPS to have following features:-		
	(i) AC Input Voltage Range. 180 - 280 V AC, 1 Phase		
	(ii) Input Frequency. 50Hz \pm 5 % (To be suitable to operate on Generators).		
	(iii) AC Output Voltage.230 V AC, 1-phase \pm 1% (Single Wave Output).		
	(iv) Output Frequency. 50 Hz \pm 1% Hz.		
	(v) Inverter Efficiency. 90% or higher .		
	(vi) Overload Capacity. Minimum 110% for 10 minutes, 150% for 60 seconds.		
	(viii) Harmonic Distortion. Max upto 3%.		
	(ix) Isolation transformer To be inbuilt to fully isolate UPS output.		
	(x) Ambient Conditions. Operating Temp: 0–50 Deg C, Relative Humidity: 95% Max.		
	(xi) Indications & Audible Alarms. Mains On, Inverter On, Overload, Load On Mains, Load On Battery and Battery Low and other indications required for smooth functioning.		
	(xii) Digital Metering. Digital display for measurement of AC Voltage, Battery voltage, Battery Current, Load Current, Output frequency		
	(xiii) Battery Back-up. System to be capable of providing battery back-up for min 60 mins using SealedMaintenance Free Batteries		
	Manufacture should have manufacturing facility in India. Please provide address		

15. **RJ 45 Connector.**

Ser No	Technical Specification	Compliance (YES/NO)	Deviation (If Any)
(a)	Connector Type-RJ-45 8P for Transparence color.		
(b)	Connetor Should have Gold plated: 30U"		
(c)	Contact blade: Phosphor Bronze		
(d)	Insulation resistance: 35M Ohm (max.)		

