

Vidyasagar College for Women
39, Sankar Ghosh Lane
Kolkata – 700006

Quotations for Networking

Sealed tenders are invited from reputed/enlisted companies for upgrading the existing network and purchasing UTM at new building, VCFW under RUSA fund. Submit the application to the college office between 8 am to 12 pm by 09.03.2017.

The details specifications are given below.

Requirements:

- Data point cabling – Nos-17
- Wifi AP pointing – Quantity-7
- Uplink –No-1
- Cable laying and Termination
- Switching and Rack dressing
- Average cable length- 25m
- Total cable length approx.- 625m

**Horizontal Cabling for DATA Cat5:
Items--**

SL No.	Description	Unit	Quantity	Rate	Total Amount
1	Cat6 Cable D-Link	Box	2		
2	Cat6 Patch Panel - D-link Fully Loaded	Nos.	1		
2	Cat6 Single I/O & Face Plate	Nos.	26		
3	Cat6 Patch Cord 1 Meter D-Link	Nos.	40		
4	Cat6 Patch Cord 2 Meter D-Link	Nos.	17		
5	HP J9981A 1820-48G - switch - 48 ports - Semi managed - rack-mountable	Nos.	1		
6	Power Bar 6 Point	Nos.	1		
7	Cable Manager	Nos.	2		
8	Hardware for Rack	Packet	1		
9	Network Rack 9U	Nos.	1		
10	Unifi Enterprise Wi-Fi System (Ubiquity) Indoor - UAP-AC-LR	Nos.	6		
11	Unifi Enterprise Wi-Fi System (Ubiquity) outdoor - UAP-AC-PRO	Nos.	1		
12	25 MM PVC Pipe 10 Ft.	Nos.	60		
13	Chaina Saddle 25 MM	Packet	2		
14	Laying Accessories	Set	1		

Required services:

SL No.	Description	Unit	Quantity	Rate	Total Amount
1	Cable Laying	Meter	610		
2	Patch Panel Impacting	Nos.	1		
3	I/O Impacting	Nos.	26		
4	Rack Install	Nos.	1		
5	Wi-Fi AP install & Configure	Nos.	7		
6	48 Port Switch Install & Patching	Nos.	1		
7	Network Support on Site				

UTM Specifications in detail:

Sl. No.	Specifications	
1	Hardware Specifications	
1.1	Should have 64 bit Multi-core Processing Technology	
1.2	Form Factor : 1U Rackmount (Sliding Rails Incl.)	
1.3	Memory : minimum 8 GB	
1.4	Storage : 100 GB SSD	
1.5	Ports : 6 x 1GbE built-in Copper Ports and one expansion slot for future	
2	Security Performance	
2.1	Firewall Throughput : minimum 13 Gbps	
2.2	IPS throughput : minimum 2500 Mbps	
2.3	VPN throughput : 1300 Mbps	
2.4	Antivirus throughput (proxy) : 2100 Mbps	
2.5	Concurrent connections : 7.5 Milion	
2.6	New connections/sec : 130000	
3	General Management	
3.1	OEM should be leader in Gartner's Magic Quadrant for UTM for last 3 years	
3.2	Full command-line-interface (CLI) accessible from GUI	
3.3	Role-based administration	
3.4	Automated firmware update notification with easy automated update process and roll-back features	
3.5	SNMP and Netflow support	
3.6	Backup and restore configurations: locally, via FTP or email; on-demand, daily, weekly or monthly	
3.7	API for 3rd party integration	
4	Firewall, Networking & Routing	
4.1	Stateful deep packet inspection firewall	
4.2	User, group, time, or network based policies	
4.3	Access time polices per user/group	
4.4	Enforce policy across zones, networks, or by service type	
4.5	Customizable NAT policies with IP masquerading	

4.6	Flood protection: DoS, DDoS and portscan blocking	
4.7	Country blocking by geo-IP	
4.8	Routing: static, multicast (PIM-SM) and dynamic (BGP, OSPF)	
4.9	Upstream proxy support	
4.1	Protocol independent multicast routing with IGMP snooping	
4.11	WAN link balancing: multiple Internet connections, auto-link health check, automatic failover, automatic and weighted balancing and granular multipath rule	
4.12	802.3ad interface link aggregation	
4.13	Full configuration of DNS, DHCP and NTP	
4.14	Dynamic DNS, IPv6 support	
5	Intrusion Prevention Systems	
5.1	High-performance, next-gen IPS deep packet inspection engine with selective IPS patterns for maximum performance and protection	
5.2	Advanced Threat Protection (Detect and block network traffic attempting to contact command and control servers using multi-layered DNS, AFC, and firewall)	
6	Web Protection and Control	
6.1	Fully transparent proxy for anti-malware and web-filtering	
6.2	Should have an option for dual anti malware scanning engine (preferable)	
6.4	URL Filter database with millions of sites across 92 categories backed by Labs	
6.5	Surfing quota time policies per user/group	
6.6	Access time policies per user/group	
6.7	Malware scanning: block all forms of viruses, web malware, trojans and spyware on HTTP/S, FTP and web-based email	
6.8	Advanced web malware protection with JavaScript emulation	
6.9	Live Protection real-time in-the-cloud lookups for the latest threat intelligence	
6.1	Pharming Protection	
6.11	HTTP and HTTPS scanning on a per user or network policy basis with customizable rules and exceptions	
6.12	SSL protocol tunnelling detection and enforcement	
6.13	Certificate validation	
6.14	High performance web content caching	
6.15	File type filtering by mime-type, extension and active content types (e.g. ActiveX, applets, cookies, etc.)	
6.16	YouTube for Schools enforcement	
6.17	SafeSearch enforcement	
7	Application Protection and Control	
7.1	Enhanced application control with signatures and Layer 7 patterns for thousands of applications	
7.2	Application control based on category, characteristics (e.g. bandwidth and productivity consuming), technology (e.g. P2P) and risk level	
7.3	Per-user or network rule application control policy enforcement	
8	Web & App Traffic Shaping	
8.1	Custom traffic shaping (QoS) options by web category or application to limit or guarantee upload/download or total traffic priority and bitrate individually or shared	
9	Email Protection and Control	
9.1	E-mail scanning with SMTP, POP3, and IMAP support	
9.2	Reputation service with spam outbreak monitoring based on Recurrent-Pattern-Detection technology	
9.3	Block spam and malware during the SMTP transaction	
9.4	Second independent malware detection engine (Avira) for dual-scanning	
9.5	Automatic signature and pattern updates	
9.6	File-Type detection/blocking/scanning of attachments	
9.7	Accept, reject or drop over-sized messages	

9.8	Detects phishing URLs within e-mails	
9.9	TLS Encryption support for SMTP, POP and IMAP	
9.1	Append signature automatically to all outbound messages	
9.11	Email archiver	
9.12	Spam quarantine digest and notifications options	
9.13	Self-serve user portal for viewing and releasing quarantined messages	
9.14	Should have an option for email encryption with out adding any extra cost	
9.15	DLP engine with automatic scanning of emails and attachments for sensitive data	
9.16	Pre-packaged sensitive data type content control lists (CCLs) for PII, PCI, HIPAA, and more, maintained by Labs	
10	Logging & Reporting	
10.1	Dashboards (Traffic, Security, and User Threat Quotient),	
10.2	Applications Report (App Risk, Blocked Apps, Web Uses, Search Engines, Web Servers, FTP),	
10.3	Network & Threats Report (IPS, ATP, Wireless, Security Heartbeat),	
10.4	VPN Reports	
10.5	Email usage and protection Reports	
10.6	Compliance reports (HIPAA, GLBA, SOX, FISMA, PCI-DSS, NERC CIP v3, and CIPA)	
10.7	Current Activity Monitoring: system health, live users, IPsec connections, remote users, live connections, wireless clients, quarantine, and DoS attacks	
10.8	Report scheduling to multiple recipients by report group with flexible frequency options	
10.9	Export reports as HTML, PDF, Excel (XLS)	
11	Certification	
11.1	OEM should be leader in Gartner's Magic Quadrant for UTM for last 3 years	
11.2	Should have ICISA certification	
11.3	OEM should have technical support centre in India	