		Bidder's Response	Technical D (
No	Minimum Specification	Yes / No (If No indicate your offer )	Technical Reference
1	Make		
2	Model		
3	Type of the firewall (Hardware/Software)		
4	Country of Origin		
5	The vendor should be in leaders quadrant as per last 5 years Gartner Reports for Unified Threat Management and Enterprise Firewall		
6	The vendor should be in leaders quadrant Gartner Reports for SD-WAN		
7	Vender should have ICSA certification for AntiVirus ,IPS, Firewall, IPSec and SSL VPN technologies		
8	The Firewall must be appliance based platform with security-hardened, purpose- built operating system		
9	The Firewall Appliance must include the Hardware Warranty , 24*7 vendor technical support and licenses for all the requested features and Softwares for 3 Years.		
10	The platform should use hardware acceleration architecture to optimize the packet, encryption/decryption and application level content processing.		
11	The Firewall should be able to upgrade using UTM feature licenses or downgrade to the basic license in the renewal.		
12	Licensing should be per device license for unlimited users for Firewall / VPN (IPSec & SSL) and other features. There should not have any user/IP/host based licenses – Please specify if the product does not follow the required licensing policy.		
13	Should support USB interfaces for config backup/restore, upgrading images and for connecting 3G Modems as fall-back.		
14	Should support more than one ISP with automatic ISP failover as well as ISP load sharing for outbound traffic.		
15	Should support inbuilt SDWAN functionality from day 1 and able to manage multiples ISP links using SD-WAN without additional licenses.		
16	No of concurrent users (200 minimum)		
17	Should have support for DHCP servers without any additional licenses.		
18	Should support L4-7 Server Load Balancing		

## SPECIFICATION OF THE FIREWALL FOR THE SRI LANKA LAW COLLEGE

19	The platform must be capable of supporting a minimum of 4 configurable 1G copper interfaces for WAN links, 1 configurable 1 gigabit copper interface for DMZ links, 4 Copper interfaces for LAN Links	
20	The platform should support VLAN tagging(IEEE 802.1q) with about 4096 VLANs supported (in NAT/Route mode)	
21	The platform should support the standards based Multi-Link aggregation technology (IEEE 802.3ad) to achieve higher bandwidth.	
22	The Firewall must support at least 1.5 Million concurrent connections	
23	The Firewall must support at least 35,000 new sessions per second processing.	
24	The Firewall should support Next Generation Firewall throughputs of minimum 1.0 Gbps for IMIX	
25	The firewall should support a minimum of at least 1.8 Gbps of Application control throughput	
26	Static routing must be supported	
27	Policy based Routing must be supported	
28	Dynamic Routing (RIP, OSPF,BGP & IS-IS) must be supported for both IPv4 and IPv6	
29	Multicast Routing must be supported	
30	Should support netFlow or sFlow	
31	It should be possible to operate the firewall in "bridge mode" or "transparent mode"	
	apart from the standard NAT mode	
32	The Firewall must provide NAT functionality, including PAT.	
33	Should support "Policy-based NAT"	
34	Firewall should support Voice based protocols like H.323, SIP, SCCP, MGCP etc and RTP Pinholing.	
35	The Firewall should support User-Group based Authentication (Identity based Firewalling) & Scheduling	
36	Should support device and OS based policies	
37	IPv6 support for both NAT and Transparent Mode	
38	Should support dual stack architecture for both IPv4 and IPv6 traffic and routes , tunnelling IPv6 over IPv4, tunnelling IPv4 over IPv6 and IPv6 traffic over IPsec VPN	
39	Support for authentication at the firewall policy level (Local and Remote)	
40	Support for external RADIUS, LDAP and TACACS+ integration for User and Administrator Authentication	

41	Support for Native Windows Active Directory	
	Integration	
1	Should support PKI / Digital Certificate based	
42	two-factor Authentication for both Users and	
	Firewall Administrators	
	The VPN should be integrated with firewall.	
43	Should support the following protocols	
	DES,3DES, MD5, SHA-1,SHA-256, MD5, Diffie-	
	Hellman Group 1, Group 2, Group 5, IKE v1/2,	
	AES 128/192/256	
	120/152/250	
44	Should support Hub and Spoke VPN topology	
45	IPSec VPN should support XAuth over	
45	RADIUS and RSA SecurID or similar product.	
	Should have integrated SSL VPN with no user	
46	license slab restriction. Please specify if the	
	product does not follow the required	
	licensing policy	
47	Should support SSL Two-factor	
	Authentication with Digital Certificates	
48	Should support Single Sign-On Bookmarks for	
40	SSL Web VPN	
	Should support Windows, Linux and MAC OS	
40	for SSL-VPN (Should have always-on clients	
49	for these OS apart from browser based	
1	access)	
	Should support NAT within IPSec/SSL VPN	
50	tunnels	
	Should also support PPTP and L2TP over	
51	IPSec VPN protocols.	
	The device must support Active-Active as	
52	well as Active-Passive High Availability	
52	modes.	
	The Firewall must support stateful failover	
53	for both Firewall and VPN sessions in High	
55	C	
	Availability. The HA Architecture should have the ability	
<b>F</b> 4		
54	for Device Failure Detection and Notification	
	as well as Link Status Monitor	
55	Should support VRRP and Link Failure Control	
	The device must support Web UI	
56	(HTTP/HTTPS) and CLI (Telnet / SSH) based	
	Management	
1	Should have configurable option to define	
1	remote access to the Firewall on any	
57	interface and restrict the same to a specific	
	IP/Subnet (ie Trusted Hosts for Management)	
	There must be a means of connecting	
58	directly to the firewall through a console	
	connection (RJ45 or DB9)	
L		

	The device should have SNMPv2c and	
59	SNMPv3 support (for sending alerts to NMS	
	in case of threats and system failures).	
	Provision to generate automatic notification	
60	of events via mails / syslog	
	Provision to send alerts to multiple email	
61	recipients	
	Support for role based administration of	
62	firewall	
	Should support simultaneous login of	
63	Multiple Administrators.	
64	Should have provision to customize the	
	dashboard (eg: by selecting suitable Widgets)	
	The Firewall must provide a means for	
65	exporting the firewall rules set and	
	configuration to a text file via Web or TFTP	
66	Support for Image upgrade via FTP, TFTP and	
00	WebUI	
67	Should support system software rollback to	
07	the previous version during upgrade	
68	Should have a built-in Signature and Anomaly	
00	based IPS engine on the same unit	
69	Able to prevent denial of service and	
	Distributed Denial of Service attacks.	
70	Should Identify and control applications (ie	
	Application control feature)	
	Should perform Traffic Shaping of popular	
71	P2P applications like KaZaa, Gnutella,	
	BitTorrent, WinNY, eDonkey etc	
	Should control popular IM/P2P applications	
72	regardless of port/protocol like Yahoo, MSN,	
	Skype, AOL, ICQ etc Should support out of the box centralized	
73	real time and on demand reporting without	
75	firewall performance degradation	
	Minimum One engineer should certified in	
74	high level for the product supplied. Please	
, r	attach the certificate of the engineer.	
	Vendor should operate 24/7/365 global	
75	Technical Assistance Center (TAC) with	
-	phone and e-mail support	
	Vendor should have a customer portal which	
76	provides a knowledge base, maintenance	
	versions, documentation, and hot fixes	
77	Vendor should provide escalation process	
77	through 24/7/365 staffed TAC	
70	Vendor should provide RMA for all hardware	
78	platform globally	
79	Vendor's RMA process should include next	
75	business day onsite replacement	
	Comprehensive warranty for 1 years and	
80	Original Equipment Manufacture should have	
	a local parts depot in Sri Lanka.	

Design, implementation and support services requirements.			
Sr. No.	Requirements	Compliance	Comments
1	Design should be categorized and completed in different levels and We should be able to add, edit or remove the requirements until the design document's sign off.		
2	The Implementation plan / Migration plan should have clearly defined roll-back plans to earlier working stage in any level to minimize any unplanned network outage.		
3	An offsite vender dependent training needs to be offered to minimum 1 technical staff to excel the administration of the product.		
4	The Managed Support Service Provider should be able to provide 24*7 support remotely and provide On-site support if required within 4-6 hours.		
5	The Managed Support Service Provider should provide the consultancy services for any solutions related requirements.		
6	24*7 Remote Support Services should be included for 3 Years.		
7	All the renewal agreements for consecative 3 years should be quoted (after the free remote support period)		

## Design ,Implementation and Support Services Requirements: