Government of Pakistan
Ministry of Commerce
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Subject: **TECHNICAL SPECIFICATIONS OF ENTERPRISE LEVEL FIREWALL,DESKTOP COMPUTERS,LAPTOPS & PRINTERS**

1:ENTERPRISE LEVEL FIREWALL

	Specifications	
Interfaces and Modules	GE RJ45 Interfaces 16 GE SFP Slots 16 GE RJ45 Management Ports 2 USB Ports 2 RJ45 Console Port 1 Local Storage NIL Included Transceivers 2x SFP (SX 1 GE)	
System Performance — Enterprise Traffic Mix	IPS Throughput NGFW Throughput Threat Protection Throughput	5 Gbps 3.5 Gbps 3 Gbps
System Performance and Capacity	IPv4 Firewall Throughput (1518 / 512 / 64 byte, UDP)	32 / 32 / 24 Gbps
	IPv6 Firewall Throughput (1518 / 512 / 64 byte, UDP)	32 / 32 / 24 Gbps
	Firewall Latency (64 byte, UDP)	3 µs
	Firewall Throughput (Packet per Second)	30 Mpps
	Concurrent Sessions (TCP)	4 Million
	New Sessions/Second (TCP)	300,000
	Firewall Policies	10,000
	IPsec VPN Throughput (512 byte)	20 Gbps
	Gateway-to-Gateway IPsec VPN Tunnels	2,000
	Client-to-Gateway IPsec VPN Tunnels	50,000
	SSL-VPN Throughput	2.5 Gbps
	Concurrent SSL-VPN Users (Recommended Maximum, Tunnel Mode)	5,000
	SSL Inspection Throughput (IPS, avg. HTTPS)	3.9 Gbps
	SSL Inspection CPS (IPS, avg. HTTPS)	2,500
	SSL Inspection Concurrent Session (IPS, avg. HTTPS)	340,000
	Application Control Throughput (HTTP 64K)	7 Gbps
	CAPWAP Throughput (1444 byte, UDP)	5 Gbps

	Virtual Domains (Default / Maximum)	10 / 10
	Maximum Number of Switches Supported	48
	Maximum Number of APs (Total / Tunnel)	512 / 256
	Maximum Number of Tokens	5,000
	High Availability Configurations	Active-Active, Active-Passive, Clustering
Firewall Licensing (3 years)	Complete UTM Bundle includes VPN Clients (Vendor must be at least silver partner of the Principal with 24x7 support office at Islamabad	

2:Branded Desktop Computer Systems:

	Features	Specifications
	Processor	Intel Core i7, Up to 4.7 GHz, 9th Generation
Branded Desktop Computer Systems (9th Generation)	Memory	8 GB DDR4 or higher
	Internal HDDs	1 TB SATA Hard Drive or equivalent
	Graphic	Built-in Intel HD Graphics 630 or better
	DVD DRIVE	DVDRW Super Multi Dual Layer or equivalent
	NIC	• Integrated Gigabit 100/1000 LAN Card • Built in Wifi Card
	Display	19" widescreen
	Keyboard	Standard
	Mouse	Optical 3D Scroll button with Mouse pad

3: Branded Laptops:

	Features	Specifications
	Processor	Intel Core i7, up to 4.7 GHz, 9th Generation
Branded Laptops(9th Generation)	Memory	8 GB DDR4 or higher 2 x DIMM slots
	Internal HDDs	256 GB SSD + 1 TB SATA Hard Drive
	Graphic Card	3 GB or more GDDR5 type
	NIC	• Integrated Gigabit 100/1000 LAN Card • Built in Wifi Card
	Display	15.6" FHD

4. Branded Printers:

	Specifications
Branded Laser Printers (Black & White)	Print speed, Up to 40 ppm
	Processor speed Min 1200 MHz
	Print quality, black Up to 4800 x 600 dpi minimum
	Input capacity, std. Up to 350 sheets
	Ouput capacity, std. Up to 150 sheets
	Memory 256 MB DRAM;256MB Flash
	Automatic Duplex Printing
	Gigabit Ethernet, Wifi-Network, Lan Connectivity, USB
	One(01) Toner (Installed)

5: BRANDED PRINTER FOR A3 SIZE PAPER PRINTING

Branded Printer for A3 size paper printing (Black & White)	Specifications for LaserJet Printer Pro M706N A3
	Print: black & white Normal Speed: Up to 35 ppm Print quality black (best) Up to 1200 x 1200 dpi Print Resolution Technologies REt, 600, HP FastRes 1200, HP ProRes 1200 Duty cycle (monthly, A4) Up to 65,000 pages Duty cycle is defined as the maximum number of pages per month of imaged
	Maximum **printing** resolution (sv /v) 1200x1200 dpi
	Power consumption (operating) 710 W
	Memory capacity (included) 256 MB
	Processor speed 750 MHz