

Distribution Table:

Municipality	1	2	3	4	5
	Firewall	Server Room Switch	Server	6 KVA online UPS	Backup NAS Unit
Al Yamoun اليامون		1	1	1	1
Aqraba عقربا		1	1	1	1
Bayt Furik بيت فوريك	1	1	1		1
Western Bani Zayd بني زيد الغربية	1		1		1
Doha الدوحة		1	1	1	1
Ajja عجة		1	1	1	1
Total QTY	2	5	6	4	6

Hardware Specifications:

1) Firewall with Security License and Support (Equivalent to FortiGate 60F)

Brand name and model number		
(Brand Name only)		Comply/Not
Description	Firewall with 3 years license and support	
Interfaces	Interfaces = 10 x GE RJ45 Ports +1 Console Port or higher	
Firewall Throughput =	10 Gbps or higher	
Concurrent Sessions	680,000 or Higher	
New Sessions/Second	33,000 or higher	
IPsec VPN throughput	6 Gbps or Higher	
IPS Throughput	1.3 Gbps or Higher	
VPN Concurrent Users	at least 200 remote VPN users or Higher	
WiFi Controller	Firewall should work as controller for 30 Access points Min	
License	3 Year of IPS, Advance Malware Protection, Application Control, Web Filtering, Antispam and sandboxing license should be included.	
Support	Support: 3 Year, 24x7 Support and Warranty	
Installation and configuration	Install on cabinet at Municipality location	

2) Server Room Managed Switch (Equivalent to Fortiswitch124F)

Brand name and model number		
(Brand Name only)		Comply /Not
Switch Ports	24 Port 10/100/1000 + 4 x SFP+ Ports	
Form	Rack mounted Switch	
Switching Capacity	128 Gbps or Higher	
Layer	Layer 2 Switch	
Management	Telnet, SSH, HTTP, HTTPS + Console Port	
Packets per Second	170 Mpps or higher	
Warranty	Limited lifetime Warranty	
Installation and configuration	Install on cabinet at Municipality location	

3) Rack mounted Server

Brand name and model number		
(Brand Name only)		Comply /Not
Type	Rack mounted Server with handling Rails	
CPU	Dual CPU: Intel Xeon-Silver 4410Y 2.0GHz 12-core or Higher	
Memory	4x 32GB DDR5-4800 For Total 128GB Memory	
Cage	At least 8-SFF Hot Plug bays	
Storage	4 x 960GB SATA SSD SFF (RAID5)	
Network Adaptor	At least 2-port 1Gb ethernet Adaptor	
Power Supply	Dual 750-Watt Power Supply Kit or Higher	
RAID Controller	Support at least 0/1/5/6 and cover the disks bay.	
Operating System	At least Windows server 2022 Genuine with installed <u>Two Virtual machines (Licensed) License per Municipality</u>	
Warranty	3 Years Parts/On Site/Labor	
Antivirus	3 Years Antivirus license for Physical Server and <u>Two Virtual machines</u> per municipality, <u>License per Municipality</u>	
Installation and Configuration	Install Server at Municipality location	
	Configure Disks to Work in RAID5	
	Install Windows Server on <u>Two Virtual machines</u> (same Provided Windows Version)	
	Install Antivirus license on Physical Server and Virtual machines	

4) 6KVA online Rack mounted UPS

Brand name and model number		
(Brand Name only)		Comply /Not
Type	Online Single-Phase Rack mounted	
Power Rating	6KVA /5400 Watt or higher	
Input/Output	At least 220 Volt	
Display	LCD display and LED indication	
Warranty	At Least 2 Years Manufacturer Warranty (Parts /Labor/Onsite)	
Accessories	6 Outlets Rack mounted PDU Included with installation QTY=2	
Installation	Installation in the Cabinet and electrical connection to direct Single-phase line and Output line to PDU in the Cabinet	

5) Backup Solution - Rackmount NAS (Equivalent To QNAP TS-855eU or Synology RS1221+)

Brand name and model number		
(Brand Name only)		Comply /Not
Form	Rack mounted 8 Bay NAS Storage	
CPU	4 Cores CPU or Higher With clock speed of 2 GHz or Higher	
Memory	32GB Memory	
RAID	Should be able to Provide RAID0, RAID 1 and RAID 5	
Disks	6x 8TB HDD as RAID5 -Should be NAS dedicated Drives	
1Gbe Network Adaptors	At least 2 x 1Gb Ethernet Adaptors connected by Patch cord cables with server & data switch.	
Integrated Backup Software	Including Integrated Backup software that supports Physical server, Hyper-V and VMware Virtual machines.	
Installation and Configuration	Installation and Configuration are included to provide backup from all requested Servers. Any accessories needed to operate the NAS Storage with the main Data Center Switch is also included with the price.	
Training	Should provide training to IT engineer to make sure that they can operate it in the best manner if needed	
Warranty	At least 3 Years Warranty Should be included for device, at least 1 year for provided disks.	