

**Section VII- Technical Specifications-  
PROCUREMENT OF IT EQUIPMENT, PERIPHERALS AND SUPPLIES**

	active matrix Warranty: Server Warranty 3-year parts, 3-year labor, 3-year onsite support	
<b>IT PERIPHERALS &amp; SUPPLIES</b>		
16	12V valve regulated lead acid battery 7.2Ah	
17	24 ports Mountable network Switch: speed up to gbps	
18	CMOS battery (CR2025) 3V	
19	Computer Desktop Processor Processor type: core i3; Generation: at least 5th gen. Clockspeed: up to 3.70 Ghz; Slot type: LGA1151	
20	Computer mouse USB type	
21	Computer keyboard USB type	
22	DATA RACK CABINET Technical specifications: data rack cabinet 42U W-600mm by D-1200mm perforated; model: HR-DC 6242; width (mm)600; depth (mm) 1200; capacity 42U; height: 2,055mm (6'7"); description (1) front mesh door and rear mesh door, (2) with three fixed shelves; (3) 4 fans	
23	Desktop power supply SFF (small form factor) 220 watts true rated, model: H220AS-01	
24	Desktop power supply (ATX) 300watts true rated	
25	Desktop power supply (ATX) - 24+4 pin; - 750 watts	
26	DVD External Drive	
27	Gigabit router dual band wifi (2.4Ghz/5Ghz)	
28	HARD DISK DRIVE series: Blue; interface: SATA 3.0 6Gb/s; capacity: 500GB; RPM: 72000RPM; cache: 32MB; form factor: 3.5-inch	
29	Hard Disk Drive (HDD), 2.5", 1TB, SATA III, 3.0Gbps	
30	Hard Disk Drive (SSD), 2.5", 1TB, SATA III, 3.0Gbps	
31	HDD Enclosure 2.5", SATA III, 3.0Gbps	
32	Harddrive 3.5" (SATA type HDD 3.0 Gbps) capacity: 500GB	
33	Harddrive 2.5" (SATA type HDD 3.0 Gbps) capacity: 500GB	
34	Impact punch down tool for network cable	
35	KEYBOARD AND MOUSE COMBO KIT Type: keyboard and mouse ; category: A- shape keyboard; ports: USB ports; compatible with desktop and laptop	
36	LAN cable tester (RJ11, RJ45)	

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37	<p><b>LOAD BALANCER BROADBAND ROUTER</b></p> <p>Technical specification: load balancer broadband router Standards and protocols IEEE 802.3, 802.3u, 802.3x, TCP/IP, DHCP, ICMP, NAT, PPPoE, SNTP, HTTP, DDNS; interface 1 fixed 10/100 ethernet LAN port; 3 changeable 10/100 ethernet WAN/LAN ports; network media 10BASE-T: UTP category 3,4,5 cable (max 100m); 100BASE-TX: UTP category 5, 5e cable (max 100m); button reset button; power supply external 9V/0.6A DC adapter; flash 16MB; DRAM 128MB; LED PWR, SYS, WAN, LAN, WAN/LAN; Dimensions (WxDxH) 6.2 x 4.0 x 1.0 in; (158 x 101 x 25mm); performance: concurrent session 10k</p> <p><b>BASIC FUNCTIONS</b></p> <p>WAN connection type static/dynamic IP, PPPoE, PPTP, L2TP, dual access, Bigpond cable, MAC clone modify WAN/LAN MAC address; DHCP/DHCP server/client, DHCP address reservation; switch setting; rate control, port configuration, port VLAN; <b>ADVANCED FUNCTIONS</b>; ACL IP/MAC/URL/WEB filtering; IGMP IGMP proxy/IGMP snooping forwarding Virtual server, port triggering, DMZ; load balance: policy routing, link backup; Routing: Static Routing Security: FTP/S/P/PPTP/IPsec/H.323 ALG, DoS Defence, Ping of Death, IP/MAC binding; traffic control: bandwidth control, session limit</p> <p><b>MANAGEMENT</b></p> <p>Service Dynamic DNS, UPnP; maintenance System time setting; daylight saving time; SNMP; diagnostics; firmware upgrade; factory defaults/reboot; backup/restore; system log; remote management; system statistics <b>OTHERS</b>; certification CE, FCC, RoHS; package contents TL-R470T+power adapter RJ-45 ethernet cable Quick installation guide</p>	
38	<p><b>LONG-RANGE, LIGHTWEIGHT CPE ACCESS POINT</b></p> <p>Technical Specifications:</p> <p>Dimensions: 358 x 271.95 x 272.5 mm (14.09 x 10.71 x 10.73"); Power supply: 24V, 0.3A gigabit PoE adapter (included); Max. power consumption: 7W; power method: passive PoE (pairs 4, 5+, 7,8 return); supported voltage range: 24V</p>	

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	±10%; gain: 23 dBi; networking interface: (1) 10/100/1000 ethernet port processor specs: MIPS 74Kc; memory: 64 MB DDR2; LEDs: power, ethernet; channel sizes: Ptp 10/20/30/40/50/60/80 MHz; enclosure characteristics: reflector (SGCC 0.6T)/plastic: PC; mounting: pole-mounting kit (included); wind loading: 275 N @ 200 km/h (61.8 lbf @ 125 mph); wind survivability: 200km/h (125 mph); ESD/EMP protection: ± 24 kV contact/air; operating temperature: 40 to 70°C (-40 to 158°F); operating humidity: 5 to 95% noncondensing; certifications: CE, FCC, IC	
39	Memory module (RAM) for AIO-SODIMM DDR3L PC3L-12800 4GB	
40	Memory module (RAM) for desktop DIMM DDR3 PC3L-12800 4GB	
41	Mountable network patch panel 24 ports	
42	Network crimping tool 4p/6p/8p with wire stripper	
43	Power cord standard US type at least 1.5m	
44	POWER SUPPLY 650W, quiet hYB fan, active power protection, power supply; 80 PLUS bronze certified: up to 89% efficiency; 100% Japanese capacitors; 120mm hydraulic bearing (HYB) fan; single +12V rail; meet ErP LOT6 2013 (<0.5W at standby mode); OPP/UVP/OVP/SCP/OCP protection	
45	Power supply adapter 65W 3.34A for AIO computer	
46	Prepaid LTE Modem + Wifi Router B310 (Globe)	
47	Presentation clicker laser pointer Specifications: * wireless RF technology * transmitter and USB receiver included * up to 10m/30ft away * Laser color (red) * plug & play * support Windows 7 to Windows 10	
48	RANDOM ACCESS MEMORY 8GB DDR3 1600 UDIMM RAMDDR3 1600 (PC3 12800); Timing 11-11-11-28; CAS latency 11; voltage 1.5V	
49	SSD Enclosure 2.5", SATA III, 3.0Gbps	
50	Tone generator (for cable tester)	
51	UPS 650VA	
52	UPS 650VA, 230V, AVR, Universal Sockets	
53	UPS Technical specification: UPS SRV	

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	<p>3000VA/2400 230V SRV3KI High Quality, Double-conversion On-line UPS; Output: Max configurable Power (watts): 2.4kwatts/3.0kVA; output voltage note: configurable for 220:230 or 240 nominal output voltage; efficiency at full load: 88.0%; output frequency (sync to mains): 50/60 Hz +/-3 Hz sync to mains; other output voltages: 220, 240; load crest factor: 3:1; topology: double conversion online; waveform type: sine wave; bypass: internal bypass (automatic and manual) input: frequency: 40-70 Hz; input voltage range for main operations: 160-280V; number of power cords: 1; efficiency at full load: 88.0%; other input voltages: 220, 240; batteries &amp; runtime: battery type: lead-acid battery: typical recharge time: 4 hours; battery charge power (watts): 118 watts; communications &amp; management: interface port(s): DB-9 RS 232, USB; control panel: multifunction LCD status and control console; audible alarm: alarm when on battery: distinctive low battery alarm: overload continuous tone alarm; available SmartSlot™ interface quantity: 1; physical: height: 336 MM, 33.6CM; maximum width: 190MM, 19.0CM; maximum depth: 425MM, 42.5CM; net weight 26.8kg; color: black</p>	
54	USB Flash Drive Storage Protection Holder Travel Bag	
55	Wireless access point dual band antenna 802.11n/ac	
<p><b>NOTE:</b>  <b>ITEMIZED EVALUATION</b> (for item nos. 1-15)  <b>LOT EVALUATION</b> (for item nos. 16-55)</p>		199