TECHNICAL SPECIFICATIONS OF I.T EQUIPMENTS

ITEMS	SPECIFICATIONS
Server Machine (High Spec)	• (Two/Dual Processors) Intel Xeon Gold 6548N 2.8G, 32C/64T, 20GT/s, 60M Cache, Turbo, HT (250W) DDR5-5200 • Heatsink for 2 CPU configuration (CPU greater than 165W) • Dual, Hot-Plug, Fully Redundant Power Supply (1+1), 1400W, Mixed Mode • Performance Optimized • 5600MT/s RDIMMs • 128 GB RDIMM, 5600MT/s, Dual Rank • Performance BIOS Setting • RAID card controller • 06 x 02 TB SSD SATA Read Intensive 6Gbps 512 2.5in Hot-plug AG Drive, 1 DWPD • High Performance Fan x6 • Broadcom 5720 Quad Port 1GbE BASE-T Adapter, OCP NIC 3.0 • BOSS-N1 controller card + with 1 M.2 480GB (RAID 0) • 03 Years OEM warranty • MAL letter is mandatory and must be verify from Principal
Server Machine (Low Specs)	• (One/Single Processor) Intel Xeon Gold 6534 3.9G, 8C/16T, 20GT/s, 22.5M Cache, Turbo, HT (195W) DDR5-4800 • Heatsink for 1 CPU configuration (CPU greater than 165W) • Performance Optimized • 5600MT/ss RDIMMs • 2 x 32GB RDIMM, 5600MT/s, Dual Rank • RAID CARD CONTROLLER • High Performance Fan x6 • 4 x 960 GB SSD SATA Read Intensive 6Gbps 512 2.5in Hot-plug AG Drive, 1 DWPD • Dual, Hot-Plug, Fully Redundant Power Supply (1+1), 800W, Mixed Mode • Broadcom 5720 Quad Port 1GbE BASE-T Adapter, OCP NIC 3.0 • BOSS-N1 controller card + with 1 M.2 480GB (RAID 0) • 03 Years OEM warranty • MAL letter is mandatory and must be verify from Principal
NAS (Network Access Storage Server) **High Storage**	• 16 TB Storage Capacity • 4 x 4TB 3.5" SSD • 1.6 GHz Intel Pentium N3710 Q-Core • 4GB of Onboard DDR3L RAM • 2 x Gigabit Ethernet Ports • 3 x USB 3.0 Ports • RAID 0, 1, 5, 10, and JBOD • Complete Package • Standard OEM warranty.
NAS (Network Access Storage Server) **Low Storage**	• 16 TB Storage Capacity • 4 x 4TB 3.5" HDD • 1.6 GHz Intel Pentium N3710 Q-Core • 4GB of Onboard DDR3L RAM • 2 x Gigabit Ethernet Ports • 3 x USB 3.0 Ports • RAID 0, 1, 5, 10, and JBOD • Complete Package • Standard OEM warranty.
Hardware Firewall (High Specs)	• CPU: TLR4-01680 • CPU core count: 16 • CPU nominal frequency:1.2 GHz • Dimensions: 443 x 193 x 44 mm • RouterOS license: 6 • Operating System: RouterOS • Size of RAM: 2 GB • Storage size: 512 MB • Storage type: NAND • IPsec hardware acceleration: Yes • 10/100/1000 Ethernet ports: 12 • Standard OEM warranty.

Hardware Firewall (Low Specs)	• Architecture: ARM 32bit • CPU: IPQ-8064 • CPU core count: 2 • CPU nominal frequency: 1.4 GHz • Switch chip model: QCA8337 • Dimensions: 443 x 92 x 44 mm • RouterOS license: 5 • Operating System: RouterOS v7 • Size of RAM: 1 GB • Storage size: 128 MB • Storage type: NAND • 10/100/1000 Ethernet ports: 10 • Serial console port: RJ45 • Number of USB ports: 1 • USB slot type: USB 3.0 type A • Standard OEM warranty
Network Switch (Manage)	• Interface: • **16× 10GE SFP+** Slots • 1× RJ45 Console Port • 1× Micro-USB Console Port • Power Supply: 100-240 V AC~50/60 Hz • Dimensions (W x D x H): 17.3 × 8.7 × 1.7 in (440 × 220 × 44 mm) • Mounting: Rack Mountable • Standard OEM warranty.
Network Switch (Manage)	• 8-Port Gigabit L2 Managed Switch with **2 SFP Slots** • IP-MAC-Port-VID Binding, ACL, Port Security, DoS Defend, Storm control, DHCP Snooping, 802.1X Authentication and Radius provide you robust security strategies • L2/L3/L4 QoS and IGMP snooping optimize voice and video application • WEB/CLI managed modes, SNMP, RMON bring abundant management features • Standard OEM warranty.
Network Switch (Un-Manage)	• 24-Port Gigabit Desktop/Rackmount Switch • Innovative energy-efficient technology saves power consumption • Supports MAC address self-learning, Auto MDI/MDIX and Auto negotiation • Plug & play design • Standard OEM warranty.
Ethernet Cable	• STP CAT6 Cable 23 • AWG • Length: 305 Meter Coil • Material: 99.99% Pure Copper Wire • Connectors • IOs, Faceplate Double Shutter/Backbox
Fiber Optic Cable	• Imported 12mm CLT 24 core fibre (Arial Fiber/ SM Fibre) • Length: 1500 meter • Optical Power Meter • Optical Laser light • Toolkits • 1 year maintenance
Optical Distribution Frame (ODF) 24 Cores	• 24 cores, Loaded ODF Fiber Optic Patch Panel SC-SC Connectors
Optical Distribution Frame (ODF) 12 Cores	• 12 cores, Loaded ODF Fiber Optic Patch Panel SC-SC Connectors • Wall mount
Fiber Patch Cards	• SC-SC Pigtail Patch Cord • 3-meter length
Fiber Patch Cards	• LC UPC to SC APC Duplex OS2 Single Mode Riser • 3-meter lengths
SFP Modules	• 1000Base-BX WDM Bi-Directional SFP Module • Up to 20 km transmission distance with 9/125 μm SMF (Single-Mode Fiber) • Bidirectional WDM communication on a single fiber • Compatible with Small Form Pluggable Multi-Source Agreement (SFP-MSA) • Supports Digital Diagnostic Monitoring (DDM) • Hot-swappable module designs • Work with TL-SM321A as a pair

Server Racks	- Rack Units (Size U): 42 - Usable Depth (Inches): 36.00 - Door Style: Glass / Vented - Thread Type: Cage Nut - Includes: Casters, Levelers - Rails Adjustable: Yes - Locking Side Panels: Yes - Color: Black (Powder Coat) 08 ports PDU
Network Switch Racks	4u rack - Material: Metal - Shape: Rectangular
KVM Switch	17" LED display, 8-port USB switcher to manage 8 servers. VGA interface, 1U rack mount. xL1708
Software Licenses	Trueconf users (05 users' package)
Solar Inverter System for Server	06 KVA complete solar system (Imported) - Solar Panels (585 Watt) 12 each with stands - Lithium batteries (200 amp) - Complete Accessories
UPS System for Server	06 KVA online UPS imported, 15 mins backup on 70% load for servers - APC or equivalent with network card and external battery supported
UPS System for network switches	1 KVA UPS system - Dry Batteries (200 amp)
Portable External Hard Drive	2 TB external Drives for storage with shockproof case
Surveillance Security System CCTV	- NVR 32ch 4MP/8MP - IP Cameras - CAT-6 cables - Surveillance HDD 8TB - POE Switches - Boxes 1 year warranty/maintenance.
Branded Laptops	- Processor: Intel Core i-5 13 Generation - Memory: 8 GB RAM - SSD: 512 GB - Ports: HDMI, Microphone combo jack, Standard internal speaker, Wireless Card/Wifi - LAN Card: Gigabit LAN Card (built-in) - Display: 15.6" inches - Operating System: Genuine Windows 10 Pro 64-bit licensed. - Keyboard & Touch Pad: Numeric Keyboard & touchpad 1-year local warranty
Branded Laptops	- Processor: Intel Core i-3 13 Generation - Memory: 8 GB RAM - SSD: 512 GB - Ports: HDMI, Microphone combo jack, Standard internal speaker, Wireless Card/Wifi - LAN Card: Gigabit LAN Card (built-in) - Display: 15.6" inches - Operating System: Genuine Windows 10 Pro 64-bit licensed. - Keyboard & Touch Pad: Numeric Keyboard & touchpad 1-year local warranty
LED Screens	21 Inches - HDMI and VGA ports