**Kenya Power**

SPECIFICATIONS FOR STRUCTURED CABLING MATERIALS FOR MBARAKI DEPOT

| No. | Description | Type | Qty | UNIT | Unit cost Ksh | Total cost Ksh |
|---|---|---|---|---|---|---|
| 1 | Router | Integrated services router compatible with existing network | 1 | PCS | | |
| 2 | Switch 48 port | 48 PoE ports, 2 SFP and 2 10/100/100 uplinks compatible with existing network | 1 | PCS | | |
| 3 | Switch 24 port | 28-Port Gigabit PoE Managed Switch compatible with existing network | 4 | PCS | | |
| 4 | Wireless LAN controller | Compatible with existing routers | 1 | PCS | | |
| 5 | Wireless Access points | Compatible with the Controller | 4 | pcs | | |
| 6 | UPS | 1.5kVA Smart UPS | 1 | PCS | | |
| 7 | Desktop computers | Core i7-6500, 8GB RAM, - >=500 HDD, >=3.2GHz , 24" Monitor - Black | 6 | PCS | | |
| 8 | Configuration Laptop | Core i7- 12th Gen, 4GHz, 16GB RAM, ->=500 HDD,  >15" screen | 1 | PCS | | |
| 9 | Keystone Network Modules | CAT6A metallic RJ45 10G keystone jack, tool-less die cast | 96 | PCS | | |
| 10 | Face plates (White) | 2way (2) single gang 2 Port  CAT 6A keystone single gang | 48 | PCS | | |
| 11 | Fiber Patch cords | Multi-Mode Fiber Patch Cord \| SC-LC 3M | 8 | PCS | | |
| 12 | SFP Modules | Gigabit SFP transceiver module 40km range | 8 | PCS | | |
| 13 | Media Converters | RJ45 to Fiber, SC connector - 120km range | 8 | PCS | | |
| | | RJ45 to Fiber, SC connector - 80km range | 8 | PCS | | |
| 14 | CAT 6 UTP Ethernet Cable 305m | 305m | 3 | ROLL | | |
| 15 | CAT 6A 4 pair F/UTP cable 305m | 305m | 3 | ROLL | | |
| 16 | CAT 6 RJ45 Connectors | Complete with rubber boots | 500 | PCS | | |
| 17 | Toolkit | Networking repair toolkit 145 pc set | 2 | PCS | | |
| | **TOTAL** | | | | | |

## SPECIFICATIONS

1.0 Router

| Specification | Requirement | Offer |
|---|---|---|
| Product make | To be specified | |
| Product model | To be specified | |
| Manufacturer datasheet | To be submitted | |
| Configurations | | |
| Embedded hardware-based cryptography acceleration (IPSec + Secure Sockets Layer [SSL]) | Yes | |
| Unified Communications Manager Express Sessions | 450 | |
| Unified SRST sessions | 1500 | |
| Routing policies | Static routes, RIP, OSPF, IS1s BGP and EIGRP | |
| Total onboard WAN or LAN 10/100/1000 ports | 4 | |
| RJ-45-based ports | 4 | |
| SFP based ports | 2 | |
| Service-module slots | 4 | |
| Doublewide service-module slots | 1 | |
| EHWIC slots | 3 | |
| Doublewide EHWIC slots | 1 | |
| digital signal processor (DSP) slots | 3 | |
| Memory DDR2 ECC DRAM: Default | 1GB | |
| Memory DDR2 ECC DRAM: Maximum | 2GB | |
| External USB 2.0 slots (Type A) | 2 | |
| USB console port (Type B) (up to 115.2 kbps) | 1 | |
| Serial console port (up to 115.2 kbps) | 1 | |
| Serial auxiliary port (up to 115.2 kbps) | 1 | |
| Power-supply options | Internal: AC, PoE, and DC | |
| Redundant power supply | Internal: AC, PoE, and DC | |
| AC input voltage | 100 to 240 VAC autoranging | |
| AC input frequency | 47 to 63 Hz | |
| DC Operating Input Voltage | 24Vdc - 60Vdc | |
| Rack height | 3 rack units (3RU) | |
| Temperature | ~40 to 158°F (~40 to 70°C) | |

| Safety | UL 60950-1<br>CAN/CSA C22.2 No. 60950-1<br>EN 60950-1<br>AS/NZS 60950-1<br>IEC 60950-1 | |
|---|---|---|
| Telecom | TIA/EIA/IS-968 CS-03<br>ANSI T1.101 ITU-T G.823, G.824<br>IEEE 802.3<br>RTTE Directive | |
| **Accessories** | | |
| Mounting brackets/Tray for 19" rack | Yes | |
| **Warranty and Support** | | |
| Warranty period | 1 years limited warranty | |

2.0 ETHERNET SWITCH 48 port

| Specification | Requirement | Offer |
|---|---|---|
| Product make | To be specified | |
| Product model | To be specified | |
| Manufacturer datasheet | To be submitted | |
| **Configurations** | | |
| Ports | 48x10/100/1000 Ethernet PoE+ ports, 4x1G SFP uplinks | |
| 10/100/1000 Ethernet ports | 48 | |
| Uplink interfaces | 4 SFP | |
| Available PoE power | 370W | |
| Dimensions (WxHxD) | 17.5" x 1.7" x 11.5" | |
| **Console ports** | | |
| RJ45 Ethernet | 1 | |
| USB mini-B | 1 | |
| USB-A port for storage and Bluetooth console | 1 | |
| **Memory and Processor** | | |
| CPU | ARMv7 800 MHz | |
| DRAM | 512 MB | |
| Flash memory | 256 MB | |
| **Performance** | | |
| Forwarding bandwidth | 52 Gbps | |
| Switching bandwidth | 104 Gbps | |
| Forwarding rate (64-byte L3 packets) | 77.38 Mpps | |
| Unicast MAC addresses | 8K | |
| Maximum active VLANs | 64 | |
| VLAN IDs available | 4094 | |
| Maximum STP instances | 64 | |
| Maximum SPAN sessions | 1 | |
| MTU-L3 packet | 9198 bytes | |

| | |
|---|---|
| Jumbo Ethernet frame | 10,240 bytes |
| Voltage (autoranging) | 110 to 220V AC in |
| Frequency | 50 to 60 Hz |
| Current | 0.37A to 0.64A |
| Power rating (max) | 0.48 kVA |
| Safety and Compliance | |
| Safety | UL 60950-1 Second Edition, CAN/CSA-C22.2 No. 60950-1 Second Edition, EN 60950-1 Second Edition, IEC 60950-1 Second Edition, AS/NZS 60950-1 |
| EMC: emissions | 47CFR Part 15 (CFR 47) Class A, AS/NZS CISPR22 Class A, CISPR22 Class A, EN55022 Class A, ICES003 Class A, VCCI Class A, EN61000-3-2, EN61000-3-3, KN22 Class A, CNS13438 Class A |
| Environmental | Reduction of Hazardous Substances (RoHS) including Directive 2011/65/EU |
| Connectors and Interfaces | |
| Ethernet interfaces | 10BASE-T ports:  RJ-45 connectors, 2-pair Category 3, 4, or 5 unshielded twisted-pair (UTP) cabling<br>100BASE-TX ports:  RJ-45 connectors, 2-pair Category 5 UTP cabling<br>1000BASE-T ports:  RJ-45 connectors, 4-pair Category 5 UTP cabling<br>1000BASE-T SFP-based ports:  RJ-45 connectors, 4-pair Category 5 UTP cabling |
| Indicator LEDs | Per-port status: link integrity, disabled, activity, speed, and full duplex<br>System status: system, PoE, and link speed |
| | CAB-CONSOLE-RJ45 Console cable 6 ft. with RJ-45<br>CAB-CONSOLE-USB Console cable 6 ft. with USB Type A and mini-B connectors |
| Accessories | |
| Mounting brackets/Tray for 19" rack | Yes |
| Warranty and Support | |
| Warranty period | 1 years limited warranty |

3.0 ETHERNET SWITCH 28port

| Specification | Requirement | Offer |
|---|---|---|
| Product make | To be specified | |
| Product model | To be specified | |
| Manufacturer datasheet | To be submitted | |
| Total Ports | 28 Gigabit Ethernet - 24 10/100/1000 ports (24 PoE ports with 195W power budget), 2 Gigabit copper/SFP combo + 2 SFP ports | |
| RJ-45 Ports | 24 Gigabit Ethernet | |

| | | |
|---|---|---|
| Combo Ports (RJ-45 + SFP) | 2 SFP slots, 2 Gigabit Ethernet combo | |
| Power Dedicated to PoE | 195 W | |
| Forwarding rate in millions of packets per second (mpps; 64-byte packets) | 41.67 | |
| Switching capacity in Gigabits per second | 56.0 | |
| Packet Buffer | 12Mb | |
| Spanning Tree Protocol (STP) | • Standard 802.1d Spanning Tree support<br>• Fast convergence using 802.1w or Rapid Spanning Tree (RSTP), enabled by default<br>• 8 instances are supported<br>• Multiple Spanning Tree instances using 802.1s (MSTP) | |
| Port Grouping | Support for IEEE 802.3ad Link Aggregation Control Protocol (LACP)<br>• Up to 8 groups<br>• Up to 8 ports per group with 16 candidate ports for each (dynamic) 802.3ad link aggregation | |
| Virtual Local Area Network (VLAN) | • Support for up to 4096 VLANs simultaneously<br>• Port-based and 802.1Q tag-based VLANs<br>• Media Access Control (MAC)-based VLAN<br>• Management VLAN<br>• Private VLAN Edge (PVE), also known as protected ports, with multiple uplinks<br>• Guest VLAN<br>• Unauthenticated VLAN<br>• Dynamic VLAN assignment via RADIUS server along with 802.1x client authentication<br>• Customer Premises Equipment (CPE) VLAN | |
| Voice VLAN | • Voice traffic is automatically assigned to a voice-specific VLAN and treated with appropriate levels of QoS.<br>• Auto voice capabilities deliver network wide zero-touch deployment of voice endpoints and call control devices. | |
| Multicast TV VLAN | Multicast TV VLAN allows the single multicast VLAN to be shared in the network while subscribers remain in separate VLANs, also known as Multicast VLAN Registration(MVR) | |
| Q-in-Q VLAN | VLANs transparently cross a service provider network while isolating traffic among customers | |
| Generic VLAN Registration Protocol (GVRP) and Generic Attribute Registration Protocol (GARP) | Protocols for automatically propagating and configuring VLANs in a bridged domain | |
| Unidirectional Link Detection (UDLD) | UDLD monitors physical connection to detect unidirectional links caused by incorrect wiring or cable/port | |

| | | |
|---|---|---|
| | faults to prevent forwarding loops and blackholing of traffic in switched networks | |
| Dynamic Host Configuration Protocol Relay at Layer 2 | Relay of DHCP traffic to DHCP server in different VLAN; works with DHCP Option 82 | |
| Internet Group Management Protocol (IGMP) versions 1, 2, and 3 snooping | IGMP limits bandwidth-intensive multicast traffic to only the requesters; supports 1 K multicast groups (source-specific multicasting is also supported) | |
| IGMP Querier | IGMP querier is used to support a Layer 2 multicast domain of snooping switches in the absence of a multicast router | |
| Head-of-Line (HOL) Blocking | HOL blocking prevention | |
| Jumbo Frame | Up to 9K (9216) bytes | |
| IPv4 routing | Wirespeed routing of IPv4 packets Up to 512 static routes and up to 128 IP interfaces | |
| Classless Inter domain Routing (CIDR) | Support for CIDR | |
| Layer 3 Interface | Configuration of Layer 3 interface on physical port, LAG, VLAN interface, or loopback interface | |
| DHCP relay at Layer 3 | Relay of DHCP traffic across IP domains | |
| User Datagram Protocol (UDP) relay | Relay of broadcast information across Layer 3 domains for application discovery or relaying of bootP/DHCP packets | |
| DHCP Server | Switch functions as an IPv4 DHCP server serving IP addresses for multiple DHCP pools/scopes Support for DHCP options | |
| Dimensions (W x H x D) | 17.3 x 1.45 x 10.1 in. (440 x 44.45 x 202 mm) | |
| Power | 100-240V 50-60 Hz | |
| Certification | UL (UL 60950), CSA (CSA 22.2), CE mark, FCC Part 15 (CFR 47) Class A | |
| Operating Temperature | 32° to 104°F (0° to 40°C) | |
| Operating Humidity | 10% to 90%, relative, noncondensing | |
| Accessories | | |
| Mounting brackets/Tray for 19" rack | Yes | |
| Warranty and Support | | |
| Warranty period | 1 years limited warranty | |

4.0 Wireless LAN Controller

| Specification | Requirement | Offer |
|---|---|---|
| Product make | To be specified | |
| Product model | To be specified | |
| Manufacturer datasheet | To be submitted | |
| Access points | 25 licenses include | |
| ports | 4*10/100/1000 ports | |
| Console port | 10/100/100 RJ-45 | |
| Wireless standard | 802.11a/b/g/d/e/h/k/n/r/u/w/ac | |
| Security algorithms | 3DES, DES, MD5,SSL/TLS,WPA,WPA2 | |
| Security policy | Centralized security policies | |

| Accessories | | |
|---|---|---|
| Mounting brackets | Yes | |

| Warranty and Support | | |
|---|---|---|
| Warranty period | 1 years limited warranty | |

5.0 Wireless Access points

| Specification | Requirement | Offer |
|---|---|---|
| Product make | To be specified | |
| Product model | To be specified | |
| Manufacturer datasheet | To be submitted | |
| Wireless standards | 802.11g/n | |
| Antenna | integrated | |
| Frequency band | 2.4GHz, 5GHz | |
| Data link protocol | IEEE 802.11b/g/n | |
| Power over Ethernet | PoE | |
| Device type | Radio Access point | |
| RAM | 128MB | |
| Accessories | | |
| Mounting brackets | Yes | |
| Warranty and Support | | |
| Warranty period | 1 years limited warranty | |

6.0 UPS

| Specification | Requirement | Offer |
|---|---|---|
| Product make | To be specified | |
| Product model | To be specified | |
| Manufacturer datasheet | To be submitted | |
| Output | | |
| Output Power Capacity | 900 Watts / 1500 VA | |
| Max Configurable Power | 900 Watts / 1500 VA | |
| Nominal Output Voltage | 230V | |
| Output Voltage Distortion | Less than 5% at full load | |
| Output Frequency (sync to mains) | 47 ~ 53 Hz for 50 Hz nominal Line Interactive | |
| Waveform Type | Sine wave | |
| Input | | |
| Nominal Input Voltage | 230V | |
| Input Frequency | 50/60 Hz +/~ 3 Hz (auto sensing) | |
| Input Connections | IEC~320 C14 | |
| Input voltage range for main operations | 180 ~ 287 V | |
| Input voltage adjustable range for mains operation | 170 ~ 300V | |
| Other Input Voltages | 220 | |
| Batteries and runtime | | |
| Battery Type | Maintenance-free sealed Lead-Acid battery with suspended | |

| | electrolyte : leakproof | |
|---|---|---|
| Typical recharge time | 3 hour(s) | |
| **Communication & Management** | | |
| Interface Port(s) | USB | |
| Control panel | Multi-function LCD status and control console | |
| Audible Alarm | Alarm when on battery : distinctive low battery alarm : configurable delays | |
| Emergency Power Off (EPO) | | |
| **Surge protection and filtering** | | |
| Surge Protection | Yes | |
| Filtering | Full time multi-pole noise filtering : 0.3% IEEE surge let-through : zero clamping response time | |
| **Physical** | | |
| Color | Black | |
| Form factor | Tower or Rackmount 19" | |
| **Environmental** | | |
| Operating Environment | 0 ~ 40 °C | |
| Operating Relative Humidity | 0 ~ 95 % | |

7.0 DESKTOP COMPUTERS

| Specification | Requirement | Offer |
|---|---|---|
| **Desktop PC** | | |
| Product make | To be specified | |
| Product model | To be specified | |
| Manufacturer datasheet | To be submitted | |
| Color | Black | |
| Form factor | Tower | |
| Processor | Intel Core i7-6700 3.4 2133 4C CPU | |
| Processor speed | 3.4 GHz 8MB Cache | |
| Graphics | Nvidia Quadro K620 | |
| Hard Disk | >=500 GB SATA 7200 rpm 6Gb/s 3.5-in HDD | |
| RAM | >=8 GB DDR4 RAM 2133 MHz | |
| Operating system | Windows 10 Pro X64 | |
| System type | 64 Bit | |
| Keyboard | USB Slim Keyboard Europe | |
| Mouse | USB Optical mouse | |
| Rated Voltage | 100 ~240 VAC | |
| Rated Frequency | 50 ~ 60 Hz | |
| Warranty | 1 years | |
| **Display Monitor** | | |
| Make: | To be specified | |

| Model: | To be specified | |
|---|---|---|
| Manufacturers data Sheet | To be submitted | |
| Color | Black | |
| Display type | 24 inch IPS Gen 2, LED backlit | |
| Viewable image area | 60.96 cm (24 in) wide screen | |
| Panel active area (W x H) | 51.84 x 32.4 cm (20.4 x 12.75 in) | |
| Aspect Ratio | 16:10 | |
| Native Resolution | 1920 x 1200 | |
| View angle | 178° horizontal, 178° vertical | |
| Screen coating | Anti-Glare | |
| Rated Voltage | 100 ~240 VAC | |
| Rated Frequency | 50 ~ 60 Hz | |
| Warranty | 1 years | |

8.0 LAPTOP

| Specification | Requirement | Offer |
|---|---|---|
| Product make | To be specified | |
| Product model | To be specified | |
| Manufacturer datasheet | To be submitted | |
| Processor | | |
| Processor manufacture | Intel | |
| Processor family | Intel® Core™ i7 | |
| Processor generation | 12th gen Intel® Core™ i7 | |
| Processor cache | 24MB | |
| Processor cache type | L3 | |
| Memory | | |
| Internal memory | 16GB | |
| Internal memory type | DDR5-SDRAM | |
| Memory clock speed | 4800 MHz | |
| Memory layout (slots x size) | 2 x 8 GB | |
| Memory slots | 2x SO-DIMM | |
| Number of free internal memory expansion slots | 2 | |
| Storage | | |
| Total storage capacity | 500GB to 1TB | |
| Storage media | SSD | |
| Total SSDs capacity | 1TB | |
| SSD memory type | TLC | |
| SSD interface | PCI Express, NVMe | |
| Compatible memory cards | MicroSD (TransFlash) | |
| Display | | |
| Display diagonal | >=15" multitouch | |

| | | |
|---|---|---|
| Display resolutio | 2560 x 1600 pixels | |
| Native aspect ratio | 16:10 | |
| Display glass type | Edge to Edge Glass | |
| Display bezel technology | Micro-Edge | |
| **Ports** | | |
| USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity | 2 | |
| USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity | 2 | |
| HDMI ports quantity | 1 (ver  2.1) | |
| Serial port | Provide USB to serial adapter | |
| RJ45 network port | Provide multiport USB to Ethernet adapter | |
| **Keyboard** | | |
| Pointing device | Touchpad | |
| Keyboard backlit | Yes | |
| Full-size keyboar | Yes | |
| Wireless/BT mouse | To be provided | |
| **Network** | | |
| Wi-Fi standards | Wi-Fi 6E (802.11ax) | |
| WLAN controller | Intel Wi-Fi 6E AX211 | |
| Bluetooth | Yes, (ver 5.1) | |
| **Power** | | |
| AC adapter power | 150 W | |
| Rated Voltage | 100 ~240 VAC | |
| Rated Frequency | 50 ~ 60 Hz | |
| Warranty | 1 years | |
| Laptop bag | Yes | |

9.0 KEYSTONE NETWORK MODULES

| Specification | Requirement | Offer |
|---|---|---|
| Keystone module | CAT6A metallic RJ45 10G keystone jack, tool-less die cast | |

10.0     FACE PLATES

| Specification | Requirement | Offer |
|---|---|---|
| Type | 2 way (2) single gang 2 Port CAT 6A keystone single gang | |
| No. of Ports: | Two | |
| Compatibility: | Angled or flat MAX modules | |
| Module mounting: | Allows MAX, Z-MAX, CT, and TERA modules to be mounted | |
| Labelling: | Pressure release designation label covers for quick, tool-less removal | |
| Color | White | |

11.0     FIBER PATCHCORDS

| Specification | Requirement | Offer |
|---|---|---|

| | | |
|---|---|---|
| Fiber Patch cords | Singlemode fiber patchcords SC – LC 3m | |

## 12.0    SFP MODULES

| Specification | Requirement | Offer |
|---|---|---|
| Product make | To be specified | |
| Product model | To be specified | |
| Manufacturer datasheet | To be submitted | |
| Type | SFP transceiver module | |
| Rate | 1.25g/2.5/4.25g/10g | |
| Distance | 40km @ 4 pairs | |
| | Hot pluggable SFP | |

## 13.0    MEDIA CONVERTERS

| Specification | Requirement | Offer |
|---|---|---|
| Product make | To be specified | |
| Product model | To be specified | |
| Manufacturer datasheet | To be submitted | |
| Type | Fiber media convertor | |
| Interface | RJ45 to fiber | |
| Wavelength | 1330, 1550 nm | |
| Fiber connector | SC connector | |
| Data rate | 10/100mbps | |
| Distance | 40 km @ 4 pairs | |
| Fiber type | Single mode | |

## 14.0    CAT 6 UTP ETHERNET CABLE 305M

| Specification | Requirement | Offer |
|---|---|---|
| Cable Type: | Cat 6 (Category 6) 4-pair  UTP cable | |
| Cable  Length: | 305 meters ( 1000 feet) | |
| Construction: | Unshielded Twisted pair | |
| Conductor Gauge: | 23 AWG (American  Wire Gauge) solid bare copper | |
| Conductor Material: | High-quality  bare  copper for excellent  conductivity and signal integrity | |
| Insulation Material | Polyethylene (PE) insulation | |
| Jacket  Material: | Fire Retardant PVC Jacket | |
| Performance: | bandwidth up to 1 Gbps | |
| Color: | Grey | |
| Wiring: | 4-pair twisted pair wiring with color-coded conductors for easy termination  and installation | |
| Certification: | IEC 61156-5 Ed 2.0  certifications | |
| Application: | 1000BASE-T  Gigabit  and 100BASE-T 10BASE-T- Fast Ethernet Speeds Suitable for LAN networks, CCTV Installation and Voice | |

## 15.0    CAT 6A 4 PAIR F/UTP ETHERNET CABLE 305M

| Specification | Requirement | Offer |
|---|---|---|
| Cable Type: | Cat6A  (Category 6A) 4-pair F/UTP cable | |
| Cable  Length: | 305 meters ( 1000feet) | |
| Construction: | Foil shielding around  each  individual  pair to minimize crosstalk and electromagnetic  interference (EMI) | |
| Conductor Gauge: | 23 AWG (American  Wire Gauge)  solid copper conductors for optimal  signal transmission | |
| Conductor Material: | High-quality  bare  copper for excellent conductivity and signal integrity | |
| Insulation Material | High-density polyethylene (HOPE) insulation for protection and durability | |
| Shielding: | Aluminum foil shielding around each individual pair for enhanced electromagnetic shielding. | |
| Jacket  Material: | PVC jacket  for mechanical strength and protection against environmental factors | |
| Performance: | Supports high-speed  data  transmission up to 10 Gigabit Ethernet ( 1  OGBASE-T) with reduced signal degradation and improved noise immunity | |
| Color: | Purple for Easier identification | |
| Wiring: | 4-pair twisted pair wiring with color-coded conductors for easy termination  and installation | |
| Certification: | Meets or exceeds  Cat6A performance   standards and TIA/EIA-568-C.2  specifications | |
| Application: | Suitable  for high-speed  data  applications, including structured  cabling  systems and  Ethernet  networks | |

## 16.0    CAT 6 RJ45 CONNECTORS

| Specification | Requirement | Offer |
|---|---|---|
| Cable Termination | Cat6A | |
| Color | Transparent | |
| Gender | Jack Plug | |
| Housing Material | Quality Polycarbonate | |
| Termination Wiring | Supports both T568A and T568B | |
| Rubber Boots | Yes | |

## 17.0    TOOLKIT 145 PIECE COMPUTER REPAIR TOOLKIT

| Specification | Requirement | Offer |
|---|---|---|
| 145 piece computer/ network repair toolkit | 5″ Wire Cutter/Stripper | |
| | 8″ Crimping Tool | |
| | Brush | |
| | Soldering Iron, Wick and Reel | |
| | Mini Hammer | |

| | | |
|---|---|---|
| | 9pcs Allen Wrenches | |
| | Vacuum Cleaner Set with Attachments | |
| | Cable Ties | |
| | Magnetic Telescoping Pick Up Tool | |
| | Electronic Voltage Tester | |
| | 9 pcs Hollow Star :T8H, T10H, T15H, T20H, T25H, T27H, T30H, T35H, T40H | |
| | 6 pcs Hex Key : 5/64″, 3/32″, 7/64″, 1/8″, 9/64″, 5/32″ | |
| | 6 pcs Hex:2, 2.5, 3, 4, 5, 6mm ; 4 pcs Tri-ing:1, 2, 3, 4 | |
| | 4 pcs Spanner:4, 6, 8, 10 mm ; 3 pcs Torq:6, 8, 10mm | |
| | 1 pc 60mm Magnetic Bit Holder | |
| | 7-Bits: 4 pcs Star : T10, T15, T20, T25 ; | |
| | 2 pcs Slotted:4, 6 mm | |
| | 1 pc Philips:PH1 | |
| | 7-Bits:1 pc Star:T8 , 4 pcs Square:S0, S1, S2, S3 | |
| | 1 pc Pozi:PZ1 , 1 pc Adaptor Bit for Socket | |
| | 5pcs Sockets: 3/16″~1/4″~5/16″~11/32″~3/8″ | |
| | 5pcs Sockets:6~7~8~9~10mm | |
| | Reversible Ratchet Handle | |
| | 42 PCS Terminals | |
| | Pen Knife | |
| | Tweezers Serrated Inside Point | |
| | 5″ Long Nose Pliers | |
| | 4 1/2″ Side Cutter | |
| | 6pcs Precision Screwdriver Set | |
| | IC Extractor | |
| | 3-Claw Parts Retriever | |
| | Mini Flashlight | |
| | Insulated Tape | |