

**1 - Personal Computer Specifications:****Qty: (20)**

Components	Minimum Requirement
Model	Well- Known Brand name
Manufacturing Requirements	<ul style="list-style-type: none"><li>• Main System Unit, Monitor, Mouse and Keyboard must carry the same brand name</li><li>• Tower Case (Mini or Micro)</li></ul>
Processor	6 Cores CPU from last two generations (Intel® Core™ i7 or AMD Ryzen™ 7), 8MB Cache
Chipset	Compatible Chipset with Processor
Memory	8GB DDR4, upgradable
Storage	512GB SSD M.2 NVMe
USB ports	6 ports, including 2 USB3.0 port
Video output	VGA, HDMI/DP
Expansion slots	1 x PCIe x 16
Network interface	Gigabit Ethernet R45 LAN
Graphics	2 GB Graphic Card
Pointing Device type	USB mouse, optical, wheel with mouse pad
Keyboard	USB A/L keyboard
Monitor	19" wide LCD Monitor
Audio	High definition, Integrated sound system
Power	220v, 50Hz AC power with MK cable.
Operating System	Free DOS
Drivers, Utilities & Documentation	All Drivers that support the system, Original Documentation, Manuals, Setup Utilities for installation and usage. Should be provided as sent by manufacturer
Warranty	3 years (labor, parts, on site)

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## 2 - Mini Personal Computer Specifications: Qty: (4)

Components	Minimum Requirement
Model	Well- Known Brand name
Manufacturing Requirements	<ul style="list-style-type: none"><li>Main System Unit, Mouse and Keyboard must carry the same brand name</li></ul>
Processor	6 Cores CPU from last two generations (Intel® Core™ i7 or AMD Ryzen™ 7), 8MB Cache
Chipset	Compatible Chipset with Processor
Memory	8GB DDR4, upgradable
Storage	512GB SSD M.2 NVMe
USB ports	6 ports, including 2 USB3.0 port
Video output	VGA, HDMI/DP
Expansion slots	1 x PCIe x 16
Network interface	Gigabit Ethernet R45 LAN
Graphics	2 GB Graphic Card
Pointing Device type	Wireless mouse, optical, wheel with mouse pad
Keyboard	Wireless A/L keyboard
Audio	High definition, Integrated sound system
Power	220v, 50Hz AC power with MK cable.
Operating System	Free DOS
Drivers, Utilities & Documentation	All Drivers that support the system, Original Documentation, Manuals, Setup Utilities for installation and usage. Should be provided as sent by manufacturer
Warranty	3 years (labor, parts, on site)

### 3 - Personal Computer Specifications: Qty: (2)

Components	Minimum Requirement
Model	Well- Known Brand name
Manufacturing Requirements	<ul style="list-style-type: none"> <li>Main System Unit, Monitor, Mouse and Keyboard must carry the same brand name</li> <li>Tower Case (Mini or Micro)</li> </ul>
Processor	6 Cores CPU from last two generations (Intel® Core™ i7 or AMD Ryzen™ 7), 12MB Cache
Chipset	Compatible Chipset with Processor
Memory	16GB DDR4, upgradable
Storage	1 TB SSD M.2 NVMe
USB ports	6 ports, including 2 USB3.0 port
Video output	VGA, HDMI, DP
Expansion slots	1 x PCIe x 16
Network interface	Gigabit Ethernet R45 LAN
Graphics	Better or equivalent to NVIDIA GeForce RTX 2080 with 8 GB VRAM
Pointing Device type	USB mouse, optical, wheel with mouse pad
Keyboard	USB A/L keyboard
Monitor	27" 4K UHD wide screen
Audio	High definition, Integrated sound system
Power	220v, 50Hz AC power with MK cable.
Operating System	Free DOS
Drivers, Utilities & Documentation	All Drivers that support the system, Original Documentation, Manuals, Setup Utilities for installation and usage. Should be provided as sent by manufacturer
Warranty	3 years (labor, parts, on site)
Others	HDMI and DP cables (Required to connect dual Monitors)

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**4 - Personal Computer Specifications: Qty: (1)**

Components	Minimum Requirement
Model	Well- Known Brand name
Manufacturing Requirements	<ul style="list-style-type: none"><li>• Main System Unit, Monitor, Mouse and Keyboard must carry the same brand name</li><li>• Tower Case (Mini or Micro)</li></ul>
Processor	8 Cores CPU from last two generations (Intel® Core™ i7 or AMD Ryzen™ 7), 12MB Cache
Chipset	Compatible Chipset with Processor
Memory	32GB DDR4, upgradable
Storage	1 TB SSD M.2 NVMe
USB ports	6 ports, including 2 USB3.0 port
Video output	VGA, HDMI, DP
Expansion slots	1 x PCIe x 16
Network interface	Gigabit Ethernet R45 LAN
Graphics	Better or equivalent to NVIDIA GeForce RTX 2080 with 8 GB VRAM
Pointing Device type	USB mouse, optical, wheel with mouse pad
Keyboard	USB A/L keyboard
Monitor	27" 4K UHD wide screen
Audio	High definition, Integrated sound system
Power	220v, 50Hz AC power with MK cable.
Operating System	Free DOS
Drivers, Utilities & Documentation	All Drivers that support the system, Original Documentation, Manuals, Setup Utilities for installation and usage. Should be provided as sent by manufacturer
Warranty	3 years (labor, parts, on site)
Others	HDMI and DP cables (Required to connect dual Monitors)

**5 - Personal Computer Specifications: Qty: (10)**

Components	Minimum Requirement
Model	Well- Known Brand name
Manufacturing Requirements	<ul style="list-style-type: none"> <li>• Main System Unit, Monitor, Mouse and Keyboard must carry the same brand name</li> <li>• Tower Case (Mini or Micro)</li> </ul>
Processor	6 Cores CPU from last two generations (Intel® Core™ i7 or AMD Ryzen™ 7), 12MB Cache
Chipset	Compatible Chipset with Processor
Memory	16GB DDR4, upgradable
Storage	1 TB SSD M.2 NVMe
USB ports	6 ports, including 2 USB3.0 port
Video output	VGA, HDMI/DP
Expansion slots	1 x PCIe x 16
Network interface	Gigabit Ethernet R45 LAN
Graphics	4 GB Graphic Card
Pointing Device type	USB mouse, optical, wheel with mouse pad
Keyboard	USB A/L keyboard
Monitor	24" QHD wide LCD
Audio	High definition, Integrated sound system
Power	220v, 50Hz AC power with MK cable.
Operating System	Free DOS
Drivers, Utilities & Documentation	All Drivers that support the system, Original Documentation, Manuals, Setup Utilities for installation and usage. Should be provided as sent by manufacturer
Warranty	3 years (labor, parts, on site)

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## 6 - Laptop Specifications: Qty: (3)

Components	Minimum Requirements
Model	Well- Known Brand name
Processor	6 Cores CPU from last two generations (Intel® Core™ i7 or AMD Ryzen™ 7), 12MB Cache
Chipset	Compatible Chipset with Processor
Memory	16GB, DDR4 Memory
Hard Drive	1 TB SSD M.2 NVMe
Display	15.6 Inch Display with FULL HD Resolution
Graphics	NVIDIA GeForce GTX 1650 Ti with 8 GB VRAM or equivalent
Audio	High Definition Audio
I/O Ports	Stereo headset jack; Memory card reader, VGA (optional), HDMI/DP, 2 x USB 3.1, 1 x USB2.0, Network connector (RJ-45), Integrated Microphone, Docking connector port for future need
Communication	<ul style="list-style-type: none"><li>• Wireless 802.11ac/a/b/g/n</li><li>• Bluetooth 4.2 or above</li><li>• 10/100/1000 Gigabit Ethernet</li></ul>
Keyboard	Arabic English Keyboard
Touchpad	Touchpad with two-click button
Mouse	USB original mini Mouse
Battery	High capacity battery
AC Power Adapter	220 V, 50 HZ AC Power charger
Operating System	Free DOS
Drivers, Utilities & Documentation	All Drivers that support the system, Original Documentation, Manuals, Setup Utilities for installation and usage. Should be provided as sent by manufacturer
Case	Original Carrying Case (same as brand name)
Warranty	3 years (labor, parts, on site)
Security	Finger print reader

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**7 – NAS Storage: Qty: (1)**

- Multiple RAID Architecture and levels.
  - Min. 8 disk bays any support hot swap.
  - Min. 4 SSD NVMe disks including hot spare disk.
  - Min. 4 empty disk bays for future expansion.
  - Total included Capacity: Min. 5TB.
  - Rack mountable with rack mount kit.
  - Support min. 12 concurrent users' connections.
  - User friendly GUI Management.
  - Ethernet (RJ-45) 10/100/1000 Interface.
  - Must be compatible with Microsoft Windows 7, 8, 10.
  - Must be compatible with Microsoft Windows Server 2012, 2016, 2019.
  - Support De-duplication, Snapshots and Compression (Optional).
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- Redundant power supply and fans.
  - Min. 16 GB internal Memory.
  - Min. 1Gbit/s data transfer rate.

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**8 - Multifunction A3 Heavy Duty Printer - (Print, Scan, Copy): Qty: (1)**

- Laser Printer MFP (Print, Copy and Scan).
  - Floor stand Multi-Function Printer.
  - Minimum 40 PPM for simplex printing.
  - Minimum 40 IPM for simplex 300dpi scanning.
  - Minimum 600 x 600 dpi printing resolution.
  - Support 300dpi Color and 600dpi Mono scanning.
  - Minimum one A4 Tray.
  - Minimum one A3 Tray.
  - Manual/multi-purpose tray.
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- Black output only.
  - Must have Auto feeder for copy and scan.
  - Support Auto-Duplex printing.
  - Touch screen.
  - Network interface (Ethernet).
  - Printing job with password protection.
  - Max 65dB noise.
  - Support Scan to PC and Scan to e-Mail.
  - Min. 3 years warranty, including spare parts and replacement in next business day.

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**9 - Multifunction Small Business Printer - (Print, Scan, Copy): Qty: (1)**

- Laser Printer MFP (Print, Copy and Scan).
- Minimum 30 PPM.
- Minimum 1200 x 1200 dpi printing resolution.
- Black output only.
- Must have auto feeder for copy and scan
- Built-in Ethernet.
- Min. 256 MB Memory.
- Support automatic duplex printing.
- Min. 3 years warranty, including spare parts and replacement.

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**10 - Multifunction Personal Printer - (Print, Scan, Copy): Qty: (3)**

- Laser Printer MFP (Print, Copy and Scan).
- Minimum 23 PPM.
- Minimum 600 x 600 dpi printing resolution.
- Black output only.
- Must have auto feeder for copy and scan.
- Built-in Ethernet.
- Min. 256 MB Memory.
- USB cable must be included.
- Min. 3 years warranty, including spare parts and replacement.

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**11 – Interactive Screen:****Qty: (1)**

- 4K DLED Min. 65 inches.
- DLED Type White Board, Codec, camera, microphone array, and speaker.
- Min. 2 pens (Stylus) included.
- Native conferencing.
- H.265 1080p hardware codec.
- Dual-stream resolutions for:
  - Video conferencing (1080p 30 fps + 1080p 30 fps, 1080p 30 fps + 4K 8 fps)
  - Data conferencing (1080p 30 fps, 4K 8 fps)
- Infrared Touch Technology, with minimum 20 touch points.
- Min. 30000 hours lifespan.
- Support wireless presentation sharing, using USB transmitter key connected to PC/Laptop "Click to Share", or direct wireless sharing from PC / PAD / Smart Phone.
- Support saving the whiteboard locally and continue to edit it when open it for the second time, saving it to external USB flash or send the whiteboard via email.
- Screen must support anti-reflection and glare, and 178° (H/V) viewing Angle.
- Auto Tracking 4K Camera, with 80° Ultra-wide angle.
- Camera must support anti-fog, dust-proof, and anti-flicker.
- At least 2x zoom camera.
- Min. 2 stereo speakers.
- Min. 6 built-in microphones.
- Microphones sound pickup must support minimum 8m distance and 180° angle.
- Screen must be equipped with Min. i5 OPS Module.
- OPS must have at least 8G DDR4 memory and Min. 128 internal Storage.
- OPS must support Windows 10 Operating System (license are NOT required).
- Must include both 10/100/1000 Ethernet RJ45 port and WiFi (2.4 GHz and 5 GHz).
- Min. 3 years warranty, including spare parts and replacement.