



## 1) Desktop

**Usage:** Use of word processing, spreadsheets, e-mail, WWW browsing, Web based applications and heavy e-Governance applications.

- Processor:  
Intel i3 7th Generation or Higher with Minimum Base frequency of 3.5 GHz. TDP: 65W or lower  
Or  
AMD A10 7th Generation or Higher with Minimum Base frequency of 3.5 GHz. TDP: 65W or lower
- Chipset: compatible Chipset
- Motherboard: OEM Motherboard
- Memory: 4 GB DDR4 RAM with 8 GB Expandability.
- Hard Disk Drive: 500 GB 7200 rpm or higher.
- Monitor: 47 cm (18.5 inch) or larger TFT/LED Digital Colour Monitor. same make as PC
- Keyboard: USB interface. Keyboard. Same make as PC.
- Mouse: Optical with USB interface. Same make as PC.
- Chassis: SFF
- Ports: 4 USB Ports or more (at least 1 USB with 3.0 and two ports in front panel), VGA/HDMI port, Audio ports.
- Optical Drive: 8X or better DVD RW Drive.
- Networking facility: 10/100/1000 on board integrated Network Port
- Certifications :
  - a. ROHS Compliance for Product
  - b. ISO 14001 for OEM
  - c. EPEAT Silver for model quoted
- Warranty: 5 year comprehensive on-site warranty including Monitor
- Operating System : As per department requirement



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## **2) Laptop**

**Usage:** Use of word processing, spreadsheets, e-mail, WWW browsing, Web based applications and heavy e-Governance applications.

- Processor:  
Intel i3 7th Generation or Higher with Minimum Base frequency of 2.3 GHz. TDP: 15W or lower  
Or  
AMD A10 7th Generation or Higher with Minimum Base frequency of 2.3 GHz. TDP: 15W or lower
- Chipset: compatible Chipset
- Motherboard: OEM Compatible
- Memory: 4 GB DDR4 RAM (or Higher) Expandable up to 8GB
- Hard Disk: 500 GB, 7200rpm or Higher
- Display: LED Backlit Display
- Display Size: 14"-15.6" (As per Dept. Requirement)
- Resolution: 1366X768 WXGA or Higher
- Wireless connectivity: Integrated wireless b/g/n, Integrated Bluetooth
- Optical Writer: Integrated DVD Writer 8X or above
- Speaker: Integrated Stereo Speaker
- Keyboard: Keyboard with Touch Pad
- Camera: Integrated
- Audio: Integrated
- Expansion Port: 3 USB Ports ( Minimum One USB port should be USB 3.0 ), 10/100/1000 Ethernet Card, VGA/HDMI, 1Head phone/microphone combo or Separate & other Standard features
- Power Supply: 230V, 50Hz AC Supply with rechargeable Battery Pack comprising of Li-Ion/Li-Polymer battery suitable for minimum 4 hrs operation complete with battery charger / adapter
- Mouse: Optical Scroll mouse
- Carry case: Backpack to be provided
- Weight: Weight Less than or equal to 2.3 Kg
- Warranty: 3 year comprehensive onsite warranty including battery and charger
- Certification:
  - a. ROHS Compliance for Product
  - b.EPEAT Silver for model quoted
- Operating System: As per department requirement



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### 3) Tablet

- Processor - 1.2 Ghz or above Quad Core Processor Memory RAM - 2 GB or higher (to be certified by OEM)
- Internal Storage - 16 GB or higher
- Memory Card Option - Expandable Storage Capacity of 32 GB
- Integrated Camera - Front camera of 1.2 Mega Pixel HD or better and Rear Camera of 5 Mega Pixel HD or better
- Display & resolution –(10 +/- 0.5) inch i.e. inclusive of 9.5” and 10.5”, 1280 x 800 or higher
- **Connectivity**
  - WiFi802.11a/b/g/n/
  - 3G/4G
  - GSM/EDGE
  - Bluetooth4.0
- GPU – MALI/ Adreno/ SGX544 based GPU / Intel HD Graphics
- GNSS: GPS/GLONASS/equivalent
- Gyroscope: Yes
- Operating System - Android Kit kat or above
- Power Supply and Battery: 230V, 50 Hz AC Supply. Suitable charger shall be supplied. Built-in rechargeable battery pack/battery suitable for operation with 8 hours full HD video playback shall be made available. Sample will be tested and verified
- Weight - Less than 900 grams with battery
- Phone Feature – (As per department requirement )
- Rugged Flip Case and Tempered Glass should be provided. The tempered glass must be fitted/pre-installed before delivery



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#### **4) DLP Projector**

- Technology: DLP
- Resolution: XGA (1024X768)
- Brightness: 2500 lm Contrast Ratio:3000:1 or Higher
- Video compatibility: PAL, SECAM, NTSC, HDTV, DTV.
- Audio System: with built in speaker
- Remote Control: Full Function remote control unit for projector
- Terminal Ports: HDMI/DVI, VGA and Audio IN
- Cables & connectors: The Projector shall include power cable, HDMI and VGA cable (5 m or above as per Department requirement for connecting to PC)
- Lamp Life: Minimum of 3000 Hrs.
- Features: Support for Short / Long Throw (as per Dept requirement)
- Warranty: 5 year comprehensive onsite warranty
- Mounting Kit ( As per department requirement )

#### **5) Digital Photocopier (Medium End)**

- Monochrome Laser
- Copy/Print Speed: Minimum 20 PPM
- Paper Size: A4, A3
- RAM: Minimum 128
- Resolution(Copier): 600X600 dpi or above
- Port: Network and USB
- Paper Tray Capacity: Min 100 sheet or higher
- Paper Feed Trays: Minimum 2 Trays and a Bye-pass Tray.
- Paper Sorting for Multiple Copies
- Warranty: 3 year comprehensive onsite warranty
- Features: Support for ADF and Auto Duplex
- OS: As per Department Requirement



## 6) Digital Photocopier (High End)

- Monochrome Laser
- Copy/Print Speed: Minimum 50 PPM
- Paper Size: A4, A3
- RAM: Minimum 512
- Resolution(Copier): 600X600 dpi or above
- Port: Network and USB
- Paper Tray Capacity: Min 250 sheet or higher
- Paper Feed Trays: Minimum 2 Trays and a Bye-pass Tray.
- Paper Sorting for Multiple Copies
- Warranty: 3 year comprehensive onsite warranty
- Features: Support for ADF and Auto Duplex
- OS: As per Department Requirement

## 7) Multi Function Printer

- Type: Printer/Copier/Scanner
- Print Method: Monochrome Laser
- Paper handling: A4, Letter/Legal
- Paper capacity: 250 sheets + 1 sheet manual tray
- LCD Display
- Supported OS: As per department requirement
- Memory size: 32 MB
- Duty Life Cycle: 10000 pages per month
- Features: Support for ADF and Auto Duplex
- Warranty: 5 year comprehensive onsite warranty

### Printer

- Print Speed: 20 PPM or above
- Print Resolution: 600X600 dpi
- Laser Monochrome

### Copier

- Resolution(Copier): 600x600 dpi
- Reduction/Enlargement: 25%-400%

### Scanner

- Scan : Colour, Greyscale, Monochrome
- Scan resolution: Minimum 600x600 dpi
- Scan type: Flatbed and ADF
- Scan to PC, Scan to SFTP, facilities
- Scan Formats: PDF, Searchable PDF, JPEG, JPG, PNG

### Interfaces

- Local: Hi-Speed USB 2.0
- Network : 10-Base-T/100 Base-TX Ethernet
- Sharing facilities : Network printer sharing, network scanner sharing



### **8) A4 Monochrome Laser Printer**

- Technology: Mono ,Laser
- Min Print Speed: 20 PPM)
- Memory: 16 MB or higher
- Interface: Hi Speed USB 2.0 .
- Print Resolution : 600\*600 dpi
- Paper Tray Capacity(Input and Output) : Min 100 sheet or higher
- Duty Cycle : Minimum 5000 Pages per month
- Paper size: A4,A5,A6,B5,C5,DL
- Supported OS: As per department requirement
- Warranty: 5 year comprehensive onsite warranty

### **9) A4 Monochrome Network Laser Printer**

- Technology: Mono ,Laser
- Min Print Speed: 18 PPM
- Memory : 32 MB or higher
- Interface : Hi Speed USB 2.0 and Network Port
- Print Resolution : 600\*600 dpi
- Paper Tray Capacity(Input and Output) : Min 100 sheet or higher
- Duty Cycle : Minimum 5000 Pages per month
- Paper size: A4,A5,A6,B5,C5,DL
- Supported OS: As per department requirement
- Warranty: 5 year comprehensive onsite warranty
- Auto Duplex Printing

### **10) A4 Colour Network Laser Printer**

- Technology : Color ,Laser
- Min Print Speed : Colour:12 PPM, Monochrome :20 PPM  
Memory : 32 MB or higher
- Interface : Hi Speed USB 2.0 and Network Port
- Print Resolution : 600\*600 dpi
- Paper Tray Capacity(Input and Output) : Min 100 sheet or higher
- Duty Cycle : Minimum 5000 Pages per month
- Paper size: A4,A5,A6,B5,C5,DL
- Supported OS: As per department requirement
- Warranty: 5 year comprehensive onsite warranty



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**11) A3 Network Laser Jet Printer**

- Technology : Mono ,Laser
- Media Size Supported: A4, A3
- Min Print Speed : Minimum 25 PPM
- Memory : 256 MB or higher
- Interface : Hi Speed USB 2.0 and Network Interface
- Print Resolution : 1200\*1200 dpi
- Paper Tray Capacity(Input and Output) : Min 100 sheet or higher
- Duty Cycle : Minimum 15000 Pages per month
- Paper size: A3,A4,A5,A6,B5,C5,DL
- Supported OS: As per department requirement
- Warranty: 5 year comprehensive onsite warranty
- Auto Duplex Printing

**12) Flatbed Scanner Type 1**

- Scanner type: Flatbed
- Scan resolution: Minimum 600 dpi
- Paper Supported: A4, Legal and Letter.
- Connectivity: USB 2.0 or Higher
- Warranty: 5 year comprehensive onsite warranty
- Supported OS: As per department requirement

**13) Flatbed Scanner Type 2**

- Scanner type: Flatbed with ADF Feature
- Scan resolution: Minimum 600 dpi
- Paper Supported: A4, Legal and Letter.
- Connectivity: USB 2.0 or Higher
- Warranty: 5 year comprehensive onsite warranty
- Supported OS: As per department requirement

**14) Sheet fed Scanner**

- Scanner type: Sheetfed
- Scan resolution: Minimum 600 dpi
- Paper Supported: A4, Legal and Letter.
- Connectivity: USB 2.0 or Higher
- Warranty: 5 year comprehensive onsite warranty
- Supported OS: As per department requirement



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**15) A4 Scanner Medium Duty**

- Scanner type : Sheetfed
- Scan resolution, optical : 600 dpi
- Duty cycle (daily) : Daily Volume 3000 pages
- Operating Modes : Color, Grayscale, Black & White
- Media types : Paper (A4, Legal), )
- Scan file format : PDF, Searchable PDF, JPEG, JPG, PNG
- Automatic document feeder capacity : 50 sheets
- Automatic document feeder speed : 30ppm at B&W 200 dpi
- Scanning options (ADF) : duplex
- Connectivity, standard : Hi-Speed USB 2.0
- Warranty: 5 year comprehensive onsite warranty
- Supported OS: As per department requirement

**16) A4 Scanner Heavy Duty**

- Scanner type : Sheetfed
- Scan resolution, optical : 600 dpi
- Duty cycle (daily) : Daily Volume 3000 pages
- Operating Modes : Color, Grayscale, Black & White
- Media types : Paper (A4, Legal), Scan file format : PDF, Searchable PDF, JPEG, JPG, PNG
- Automatic document feeder capacity : 100 sheets
- Automatic document feeder speed : 60ppm at B&W 200 dpi (A4)
- Scanning options (ADF) : duplex
- Connectivity, standard : Hi-Speed USB 2.0
- Warranty: 5 year comprehensive onsite warranty
- Supported OS: As per department requirement

**17) A3 Scanner Medium Duty**

- Scanner type : Sheetfed
- Scan resolution, optical : 600 dpi
- Duty cycle (daily) : Daily Volume 3000 pages
- Operating Modes : Color, Grayscale, Black & White
- Media types : Paper (A3,A4, Legal), Scan file format : PDF, Searchable PDF, JPEGJPG, PNG
- Automatic document feeder capacity : 50 sheets
- Automatic document feeder speed : 30ppm at B&W 200 dpi (A4)
- Scanning options (ADF) : duplex
- Connectivity, standard : Hi-Speed USB 2.0
- Warranty: 5 year comprehensive onsite warranty
- Supported OS: As per department requirement





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**18) A3 Scanner Heavy Duty**

- Scanner type : Sheetfed
- Scan resolution, optical : 600 dpi
- Duty cycle (daily) : Daily Volume 3000 pages
- Operating Modes : Color, Grayscale, Black & White
- Media types : Paper (A3,A4, Legal), Scan file format : PDF, Searchable PDF, JPEGJPG, PNG
- Automatic document feeder capacity : 100 sheets
- Automatic document feeder speed : 60ppm at B&W 200 dpi (A4)
- Scanning options (ADF) : duplex
- Connectivity, standard : Hi-Speed USB 2.0
- Warranty: 5 year comprehensive onsite warranty
- Supported OS: As per department requirement



**19) Server Type-1 (Medium Level)**

<b>Feature</b>	<b>Technical Specification</b>
Form Factor	Tower
Processors	1 x Intel Xeon Processor E5-2680 v4, 14 core, 2.4 GHz, 35M Cache or higher
Chipset	Intel
Memory	32 GB DDR4 ECC Upgradable up to 128 GB
I/O Slots	5 PCIe Slots
RAID controller	SAS Controller with 512 MB battery-backed cache. Should support RAID -0,1,10,5
Drive Bays	Six 2.5" SAS or SATA Drives with hot swap option
Hard Drives	6x600 GB, 2.5" 10K 6Gbps SAS Hot Plug
DVD Drive	DVD RW 8x or better
Video Controller	To support VGA and above resolution
Ports	4 USB
Communication	Quad port 1Gbps Ethernet or better with remote management, without additional license.
Power Supply	Redundant power supply
Keyboard & mouse	101 keys keyboard and optical mouse
Certifications	Windows Server 2012 R2, VMWare and Red Hat Enterprise Linux certified, Compliance and driver support (should be verifiable from respective websites)
Warranty & Other	5 year comprehensive from the date of installation, onsite warranty from original manufacturer
Operating System	As per Department requirement



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**20) Server Type-1 (Entry Level)**

<b>Feature</b>	<b>Technical Specification</b>
Form Factor	Tower
Processors	1 x Intel Xeon Processor E5-2630 v4, 10 core, 2.2 GHz, 25M Cache
Chipset	Intel
Memory	16 GB DDR4. Upgradable up to 64 GB
I/O Slots	5PCIe Slots
RAID controller	Integrated RAID Controller with 512 MB battery-backed cache. Should support RAID 0,1,10
Drive Bays	Six 2.5" SAS or SATA Drives with hot swap option
Hard Drives	4x600 GB, 2.5" 10K 6Gbps SAS Hot Plug
DVD Drive	DVD RW 8x or better
Video Controller	To support VGA and above resolution
Ports	4 USB
Communication	Quad port 1Gbps Ethernet or better with remote management, without additional license.
Power Supply	Redundant power supply
Keyboard & mouse	101 keys keyboard and optical mouse
Certifications	Windows Server 2012 R2, VMWare and Red Hat Enterprise Linux certified, Compliance and driver support (should be verifiable from respective websites)
Warranty & Other	5 year comprehensive from the date of installation, onsite warranty from original manufacturer
Operating System	As per Department requirement



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## **21) Specification for All in One Desktop Computer**

- Form Factor: All-in-one
- Processor:
  - Intel i3 7th Generation or Higher with Minimum Base frequency of 3 GHz, TDP: 35W or lower
- OR
- AMD A10 7th Generation or Higher with Minimum Base frequency of 3 GHz. TDP: 35W or lower
- Chipset: Compatible
- Motherboard: OEM Motherboard
- Graphics: Integrated
- Memory: 4 GB DDR4 RAM (or Higher)
- Hard Disk Drive: 500 GB 7200 RPM
- Display: 19.5 inches or Higher. HD+ (1600x900) or Higher
- Keyboard: 104 keys or higher USB Keyboard
- Mouse: Optical Scroll with USB interface.
- Ports: 4 USB Ports, 1 Head phone/microphone combo, 1 RJ-45, 1 Display Port/ HDMI/VGA port.
- Wireless : Integrated 802.11b/g/n
- Optical Drive: 8X or better DVD RW Drive.
- Audio: Integrated Stereo Sound with internal speaker and Mic.
- Webcam : Integrated 1.3 Megapixel HD or better
- LAN: Integrated Gigabit Ethernet LAN 10/100/1000.
- Power Supply: Internal/external
- Certifications:
  - a) ROHS Compliance for Product
  - b) EPEAT Silver for model quoted
- Operating System: As per department requirement
- Warranty: 5 year comprehensive onsite warranty