

## **TECHNICAL SPECIFICATION OF RC4**

### **1. DESKTOPS**

- **Medium End – Intel**

Sl No	Technical Specification	
1	Processor	Intel core i3 10th generation @3.6 GHz base frequency, 4 core, 6MB cache, TDP- 65W or better
2	Processor Testing	Video Test Condition Video will be tested on basic processor and with hardware acceleration (GPU) disabled. Sample Video (MKV and MP4) available in KSITM/KELTRON website. • CPU usage when playing above 4K video should not exceed 50 % • The Above Video should run without any lag • Testing will be done in Windows 11 platform and Ubuntu latest version and on a standardized environment in a transparent manner in presence of OEMs
3	Chipset	compatible Chipset
4	Motherboard	OEM Motherboard
5	Memory	4 GB DDR4 RAM upgradable to 32 GB
6	Hard Disk Drive	512 GB SSD or higher
7	Monitor	19.5 inch or larger TFT/LED HD Digital Colour Monitor. same make as PC
8	Keyboard	USB interface. Keyboard. Same make as PC.
9	Mouse	Optical with USB interface. Same make as PC.
10	Chassis	Chassis less than 16 L
11	Ports	6 USB Ports or more (at least 2 USB 3.0 ports and two ports in front panel (atleast 1 should be USB3.0), HDMI, Audio ports
12	Networking Facility	10/100/1000 on board integrated Network Port, & Wi-Fi 802.11 b/g/n connectivity
13	Certifications	1. EPEAT Registered / ROHS Compliance for product 2. ISO 14001 for OEM
14	Warranty	5 year comprehensive on-site warranty including Monitor, Mouse & Keyboard.

15	Operating System	Ubuntu 18.0 and higher/Win 11 Home/Win 11 Prof
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TC Recommend to float separate tender for memory 8 GB DDR4 RAM upgradable to 32 GB and remaining specifications are same.

- **Medium End – AMD**

Sl No	Technical Specification	
1	Processor	AMD Ryzen 3 4000 series or higher G @ 3.8GHz base frequency, 4 core, 6 MB Cache, TDP-65W or Better
2	Processor Testing	Video Test Condition Video will be tested on basic processor and with hardware acceleration (GPU) disabled. Sample Video (MKV and MP4) available in KSITM/KELTRON website. • CPU usage when playing above 4K video should not exceed 50 % • The Above Video should run without any lag • Testing will be done in Windows 11 platform and Ubuntu latest version and on a standardized environment in a transparent manner in presence of OEMs
3	Chipset	compatible Chipset
4	Motherboard	OEM Motherboard
5	Memory	4 GB DDR4 RAM upgradable to 32 GB
6	Hard Disk Drive	512 GB SSD or higher
7	Monitor	19.5 inch or larger TFT/LED HD Digital Colour Monitor. same make as PC
8	Keyboard	USB interface. Keyboard. Same make as PC.
9	Mouse	Optical with USB interface. Same make as PC.
10	Chassis	Chassis less than 16 L
11	Ports	6 USB Ports or more (at least 2 USB 3.0 ports and two ports in front panel (atleast 1 should be USB3.0), HDMI, Audio ports
12	Networking Facility	10/100/1000 on board integrated Network Port, & Wi-Fi 802.11 b/g/n connectivity
13	Certifications	1.EPEAT Registered / ROHS Compliance for product 2. ISO 14001 for OEM c. EPEAT Registered

14	Warranty	5 year comprehensive on-site warranty including Monitor, Mouse & Keyboard.
15	Operating System	Ubuntu 18.0 and higher/Win 11 Home/Win 11 Prof

**TC Recommend to float separate tender for memory 8 GB DDR4 RAM upgradable to 32 GB. Remaining specifications are same.**

- **High End – Intel**

Sl No	Technical Specification	
1	Processor	Intel Core i5 11400 @2.6 GHz base frequency, 6 core, 12 MB cache, TDP-65W or better
2	Processor Testing	Video Test Condition Video will be tested on basic processor and with hardware acceleration (GPU) disabled. Sample Video (MKV and MP4) available in KSITM/KELTRON website. • CPU usage when playing above 4K video should not exceed 50 % • The Above Video should run without any lag • Testing will be done in Windows 11 platform and Ubuntu latest version and on a standardized environment in a transparent manner in presence of OEMs
3	Chipset	Compatible Chipset
4	Motherboard	OEM Motherboard
5	Memory	8 GB DDR4 RAM upgradable to 32 GB.
6	Hard Disk Drive	512 GB SSD or higher.
7	Graphics Adapter	High end Graphics adapter with 2.0GB memory
8	Monitor	21.5” or larger TFT/LED Digital Colour Full HD Monitor. same make as PC
9	Keyboard	USB interface. Keyboard. Same make as PC.
10	Mouse	Optical with USB interface. Same make as PC
11	Ports	6 USB Ports or more (at least 2 USB 3.0 ports and two ports in front panel (atleast 1 should be USB 3.0 )
12	Networking Facility	10/100/1000 on board integrated Network Port, & Wi-Fi 802.11 b/g/n connectivity
13	Certifications	1. EPEAT Registered / ROHS Compliance for product

		2. ISO 14001 for OEM
14	Warranty	5 year comprehensive on-site warranty including Monitor, Mouse & Keyboard.
15	Operating System	Ubuntu 18.0 and higher/Win 11 Home/Win11 Prof

• **High End AMD**

Sl No	Technical Specification	
1	Processor	AMD Ryzen 5 5000 series G @3.7Ghz Base frequency, 6 core, 11 MB cache, TDP-65W or better
2	Processor Testing	<p>Video Test Condition</p> <p>Video will be tested on basic processor and with hardware acceleration (GPU) disabled.</p> <p>Sample Video (MKV and MP4) available in KSITM/KELTRON website.</p> <ul style="list-style-type: none"> <li>• CPU usage when playing above 4K video should not exceed 50 %</li> <li>• The Above Video should run without any lag</li> <li>• Testing will be done in Windows 11 platform and Ubuntu latest version and on a standardized environment in a transparent manner in presence of OEMs</li> </ul>
3	Chipset	Compatible Chipset
4	Motherboard	OEM Motherboard
5	Memory	8 GB DDR4 RAM upgradable to 32 GB.
6	Hard Disk Drive	512 GB SSD or higher.
7	Graphics Adapter	High end Graphics adapter with 2.0GB memory
8	Monitor	21.5” or larger TFT/LED Digital Colour full HD monitor. Same make as PC
9	Keyboard	USB interface. Keyboard. Same make as PC.
10	Mouse	Optical with USB interface. Same make as PC
11	Ports	6 USB Ports or more (at least 2 USB 3.0 ports and two ports in front panel (atleast 1 should be USB 3.0 )
12	Networking Facility	10/100/1000 on board integrated Network Port, & Wi-Fi 802.11 b/g/n connectivity
13	Certifications	<p>1.EPEAT Registered / ROHS Compliance for product</p> <p>2. ISO 14001 for OEM</p>

14	Warranty	5 year comprehensive on-site warranty including Monitor, Mouse & Keyboard.
15	Operating System	Ubuntu 18.0 and higher/Win 11 Home/Win 11 Prof

## 2. LAPTOPS

- Medium End – Intel

Sl No	Technical Specification	
1	Processor	Intel i3 11th generation, upto 3.90 GHz frequency, 2core, 6 MB cache, TDP-down 12 W or better
2	Processor Testing	Test conditions: 2 HD videos will be run simultaneously using Media Player for 2 hours on battery and the CPU usage & memory usage should not exceed 50% . Videos will be provided by KSITM
3	Chipset	OEM Compatible
4	Motherboard	OEM Compatible
5	Memory	8GB RAM Expandable up to at least 16GB & 4GB RAM Expandable up to at least 16GB
6	Hard Disk Drive	256GB SSD
7	Display	Antiglare HD LED Backlit Display
8	Display Size	14"
9	Wireless connectivity	Integrated wireless b/g/n, Integrated Bluetooth
10	Speaker	Integrated Stereo Speaker
11	Keyboard	Keyboard with Touch Pad
12	Camera	Integrated HD Camera
13	Audio	Integrated
14	Expansion Port	Minimum 3 USB Port (at least one number of USB 3.0), 10/100/1000 Ether net Card, HDMI, 1 Head phone/ micro phone combo or Separate & other Standard features
15	Power Supply	230V, 50Hz AC Supply with rechargeable Battery Pack comprising of Li-ion Polymer/ Li Polymer battery
16	Battery Backup	Test conditions: 2 HD videos will be run

		simultaneously using Media Player for 2 hours on battery and the CPU usage & memory usage should not exceed 50% . Videos will be provided by KSITM
17	Mouse	Optical Scroll mouse
18	Carry case	Backpack to be provided
19	Weight	Less than or equal to 1.7 Kg (Weight without charger)
20	Warranty	3 year comprehensive onsite OEM warranty including battery and charger
21	Certification	BIS and ROHS Compliance.
22	Operating System	Ubuntu18.0 and higher/Win11/Win 11 Prof

- **High End - Intel**

Sl No	Technical Specification	
1	Processor	Intel i5 11th generation, upto 4 GHz frequency, 4core, 8 MB cache, TDP-down 12 W or better
2	Processor Testing	Test conditions: 2 HD videos will be run simultaneously using Media Player for 2 hours on battery and the CPU usage & memory usage should not exceed 50%. Videos will be provided by KSITM
3	Chipset	OEM Compatible
4	Motherboard	OEM Compatible
5	Memory	8 GB RAM Expandable up to at least 32 GB & 16 GB expandable up to atleast 32 GB
6	Graphics Card	2 GB ( TC Recommended to float separate BOQ for 2 GB dedicated Graphic card and integrated Graphic card.)
7	Storage	256GB SSD
8	Display	Antiglare Full HD LED Backlit Display
9	Display Size	14"
10	Wireless connectivity	Integrated wireless b/g/n, Integrated Bluetooth
11	Speaker	Integrated Stereo Speaker
12	Keyboard	Keyboard with Touch Pad
13	Camera	Integrated HD Camera
14	Audio	Integrated

15	Expansion Port	Minimum 3 USB Port (at least one number of USB 3.0 and One number of Type C),10/100/1000 Ethernet Card, HDMI, 1Head phone/microphonecombo or Separate & other Standard features
16	Power Supply	230V, 50Hz AC Supply with rechargeable Battery Pack comprising of Li-ion Polymer/ Li Polymer battery
17	Battery Backup	Test conditions: 2 HD videos will be run simultaneously using Media Player for 2 hours on battery and the CPU usage & memory usage should not exceed 50%. Videos will be provided by KSITM
18	Mouse	Optical Scroll mouse
19	Carry case	Backpack to be provided
20	Weight	Less than or equal to 1.7 Kg (Weight without charger)
21	Warranty	3 year comprehensive onsite OEM warranty including charger
22	Certification	BIS and ROHS Compliance
23	Operating System	Ubuntu18.0 and higher/Win11/Win 11 Prof

- **Medium End – AMD**

Sl No	Technical Specification	
1	Processor	AMD R3 5000 series ,@2.6 GHz basic frequency,4core,6 MB cache, TDP 15 W or better
2	Processor Testing	2 HD videos will be run simultaneously using Media Player for 2 hours on battery and the CPU usage & memory usage should not exceed 50% . Videos will be provided by KSITM
3	Chipset	OEM Compatible
4	Motherboard	OEM Compatible
5	Memory	8GB RAM Expandable up to at least 16GB& 4GB RAM Expandable up to at least 16GB
6	Hard Disk Drive	256GB SSD

7	Display	Antiglare HD LED Backlit Display
8	Display Size	14"
9	Wireless connectivity	Integrated wireless b/g/n, Integrated Bluetooth
10	Speaker	Integrated Stereo Speaker
11	Keyboard	Keyboard with Touch Pad
12	Camera	Integrated HD Camera
13	Audio	Integrated
14	Expansion Port	Minimum 3 USB Port (at least one number of USB 3.0 and One number of Type C) ,10/100/1000 Ethernet Card, HDMI, 1Head phone/microphone combo or Separate & other Standard features
15	Power Supply	230V, 50Hz AC Supply with rechargeable Battery Pack comprising of Li-ion Polymer/ Li Polymer battery
16	Battery Backup	Test conditions: 2 HD videos will be run simultaneously using Media Player for 2 hours on battery and the CPU usage & memory usage should not exceed 50% . Videos will be provided by KSITM
17	Mouse	Optical Scroll mouse
18	Carry case	Backpack to be provided
19	Weight	Less than or equal to 1.8 Kg (Weight without charger)
20	Warranty	3 year comprehensive onsite OEM warranty including battery and charger
21	Certification	BIS and ROHS Compliance.
22	Operating System	Ubuntu18.0 and higher/Win11/Win 11 Prof

- **High End – AMD**

Sl	Technical Specification	
1	Processor	AMD R5 5000 series @ 2.1 GHz basic frequency,6 core,11 MB cache, TDP 15W or better
2	Processor Testing	Test conditions: 2 HD videos will be run simultaneously using Media Player for 2 hours on battery and the CPU usage & memory usage should not exceed 50%. Videos will be provided



		by KSITM
3	Chipset	OEM Compatible
4	Motherboard	OEM Compatible
5	Memory	8GB RAM Expandable up to at least 16GB& 4GB RAM Expandable up to at least 16GB
6	Graphics Card	2 GB (TC Recommended to float separate BOQ for 2 GB dedicated Graphic card and integrated Graphic card.)
7	Storage	256GB SSD
8	Display	Antiglare Full HD LED Backlit Display
9	Display Size	14"
10	Wireless connectivity	Integrated wireless b/g/n, Integrated Bluetooth
11	Speaker	Integrated Stereo Speaker
12	Keyboard	Keyboard with Touch Pad
13	Camera	Integrated HD Camera
14	Audio	Integrated
15	Expansion Port	Minimum 3 USB Port (at least one number of USB 3.0 and One number of Type C),10/100/1000 Ethernet Card, HDMI, 1Head phone/microphone combo or Separate & other Standard features
16	Power Supply	230V, 50Hz AC Supply with rechargeable Battery Pack comprising of Li-ion Polymer/ Li Polymer battery
17	Battery Backup	Test conditions: 2 HD videos will be run simultaneously using Media Player for 2 hours on battery and the CPU usage & memory usage should not exceed 50%. Videos will be provided by KSITM
18	Mouse	Optical Scroll mouse
19	Carry case	Backpack to be provided
20	Weight	Less than or equal to 1.7 Kg (Weight without charger)
21	Warranty	3 year comprehensive onsite OEM warranty including charger
22	Certification	BIS and ROHS Compliance
23	Operating System	Ubuntu18.0 and higher/Win11/Win 11 Prof

### 3. PRINTERS

- A4 Monochrome Network Laser Printer

SI No	Technical Specification	
1	Technology	Mono, Laser
2	Min Print Speed	22 PPM or higher
3	Memory	64 MB or higher
4	Interface	Hi Speed USB 2.0 and Network Port
5	Print Resolution	600*600 dpi
6	Paper Tray Capacity (Input and Output)	Min 100 sheet or higher
7	Duty Cycle	Minimum 5000 Pages per month
8	Paper size	A4,A5,A6,B5,C5
9	Supported OS	Ubuntu 18.04 and Ubuntu 20.04 & Windows
10	Auto Duplex Printing	
11	Composite Toner	
12	Warranty	3 year comprehensive onsite warranty

TC members also discussed about the cartridges for the A4 Monochrome Network Laser printers. After the detailed discussion, TC recommended that L1 calculation will be based on the product cost plus the rate of 30 toners (ie, 10 toners each year, Yield of cartridge will be 2000 pages at 5% print area) and also the toners will be available in the CPRCS Portal.

- A4 Multifunction Printers

Sl no	Technical Specification	
1	Type	Printer/Copier/Scanner
2	Print Method	Monochrome Laser
3	Paper Handling	A4,Letter
4	Paper Capacity	250 sheets + 1 sheet manual tray
5	LCD Display	
6	Supported OS	Ubuntu 18.04 and Ubuntu 20.04 & Windows
7	Memory size	64 MB or higher
8	Duty Life cycle	10000 pages or higher per month
9	Features	Support for ADF and auto duplex
<b>Printer</b>		

10	Print Speed	25ppm or above
11	Print Resolution	600X600 dpi
12	Laser Monochrome	
<b>Copiers</b>		
13	Resolution(Copier)	600X600dpi
14	Reduction/Enlargement	
<b>Scanner</b>		
15	Scan	Color, Grayscale, Monochrome
16	Scan Resolution	Minimum 600X600 dpi
17	Scan Type	Flatbed and ADF
18	Scan to PC facility	
19	Scan Formats	PDF, JPG, JPEG
<b>Interfaces</b>		
20	Local	USB, 10 Base-T/100 Base – TX Ethernet
21	Network	
22	Sharing facilities	Network printer sharing, network scanner sharing
23	Composite Toner	
24	Warranty	3 year comprehensive onsite warranty

TC members also discussed about the cartridges for the A4 Multifunction printers. After the detailed discussion, TC recommended that L1 calculation will be based on the product cost plus the rate of 30 toners (ie, 10 toners each year, Yield of cartridge will be 2000 pages at 5% print area). Also the TC recommended to add toners rate in CPRCS Portal.

#### **4. PHOTOCOPIERS**

- **MFP Entry Level**

Sl No	Technical Specification	
1	Type	Printer/Copier/Scanner
2	Copy/Print Speed	Minimum 20 PPM or higher (A4)
3	Paper Size	A4, A3
4	RAM	Min 128MB or Higher
5	Resolution (Copier)	600X600 dpi or above
6	Port	Network and USB

7	Paper Tray Capacity	Min 100 sheet or Higher
8	Paper Feed Trays	Minimum 1 Tray and a Bye-pass Tray
9	Paper Sorting	For Multiple Copies
10	Warranty	5 year comprehensive onsite warranty
11	Features	Auto Duplex
12	OS Support	Ubuntu 18.04 and Ubuntu 20.04 & Windows

- **MFP Medium End**

Sl No	Technical Specification	
1	Copy/Print Speed	Minimum 20 PPM or higher (A4)
2	Paper Size	A4, A3
3	RAM	Min 256 MB or Higher
4	Resolution (Copier)	600X600 dpi or above
5	Port	Network and USB
6	Paper Tray Capacity	Min 100 sheet or higher
7	Paper Feed Trays	Minimum 2 Trays and a Bye-pass Tray
8	Paper Sorting	for Multiple Copies
9	Warranty	5 year comprehensive onsite warranty
10	Features	Support for ADF and Auto Duplex
11	OS Support	Ubuntu 18.04 and Ubuntu 20.04 & Windows

## 5. **SCANNERS**

- **A4 Sheetfed Scanners**

Sl No	Technical Specification	
1	Scanner Type	Sheet Fed
2	Scan Resolution,Optical	600 dpi
3	Duty cycle (daily)	Daily Volume 3000 pages
4	Operating Modes	Color, Grayscale, Black & White
5	Media types	A4
6	Scan file format	PDF, JPEG, JPG

7	Automatic document feeder capacity	50 sheets
8	Automatic document feeder speed	30ppm at B&W 200 dpi
9	Scanning options (ADF)	Duplex
10	Connectivity, standard	Hi-Speed USB 2.0 or better
11	Warranty	5 year comprehensive onsite warranty
12	Supported OS	Ubuntu 18.04 and Ubuntu 20.04 & Windows

## 6. UPS

- **1 KVA with 30 Minutes**

SI No	Technical Specification	
1	UPS Rating	1 KVA/800W
2	Topology	True On-line Double Conversion UPS
3	Output power capacity	800W
4	<b>Input</b>	
	Phase	Single Phase
	Voltage	230V AC
	Voltage range	160V - 300 V AC
	Input Power factor	0.98 or more
5	<b>Output</b>	
	Nominal output voltage	220VAC / 230VA $\pm$ 1%
	Frequency	50Hz $\pm$ 0.1Hz
	Frequency synchronisation	47.5 to 52.5Hz
	Voltage THD	<3% Linear Load
		<5% Non Linear Load
	Output Power factor	0.8 or more
6	<b>Efficiency</b>	
	AC/AC (overall efficiency)	Up to 90%
7	<b>Overload capacity</b>	
	105 - 110%	10 min
	111 - 130%	1 min
8	<b>Battery Specification</b>	
	Battery	Internal/External
	Battery charging	Constant Current & Constant Voltage

	Battery type	12 V SMF Battery
	Battery make	Exide/Quanta/Panasonic
	Backup	Min 30 Minutes with full loaded
9	<b>Electrical</b>	
	Input terminal	Terminal
	Output terminal	4 Nos 6 Amps[Indian Standard]
10	<b>Features</b>	
	Converter mode	Available
	Bypass parameters configurable	Available
	Display	LCD Display
	Operating temperature	0~ 400C
	Noise Level	Less than 45dB
11	<b>Mechanical</b>	
	Ingress protection	IP 20
12	<b>Certification</b>	
	For UPS	ERTL certification or equivalent from NABL accredited agency for all specified parameters
	For OEM	ISO 9001 : 2008, 14001 : 2004
	Warranty	3 Year Comprehensive onsite warranty including battery

• **UPS 600 VA**

SI No	Technical Specification	
1	UPS Rating	600VA/360W SMPS load/Single PC load
2	<b>Input</b>	
	Input Voltage	140-300 VAC
	Input Frequency	45-55Hz -Auto sensing
3	<b>Output</b>	
	Output Power	360W
	Nominal Output Voltage	230 V±10% AC
	Output Frequency(Battery mode)	50Hz + /- 1Hz
	Waveform	Sine wave
	Transfer time	Typical 2-8 ms, max. 10ms
4	<b>Indications</b>	
	Alarms	On battery, overload, low battery, fault
	Backup mode	Beep every 10sec
	Low Battery	Beep every 1sec
	Overload	Beep every 0.5 sec

	Fault	Continuous beeping
5	<b>Backup time</b>	
	For 1PC & LCD/LED Monitor load	15-20 min
	Recharge time	4-8hrs to 90% after complete discharge
6	<b>Battery Specification</b>	
	DC Voltage	12V
	Battery Capacity	7 AH
	Battery Quantity	1 No.
	Battery Type	Sealed Maintenance Free battery
	Battery Make	Exide/Quanta/Panasonic
7	<b>Protection</b>	Battery discharge, Over charge,
		Overload, Surge
8	<b>Environment</b>	0-40(dc),0-90% RH non condensing
9	<b>Noise Level</b>	Less than 45Db
10	<b>Certifications</b>	
	For UPS	ERTL certification or equivalent from NABL accredited agency for all specified parameters
	For OEM	ISO 9001 : 2008, 14001 : 2004
11	Warranty	3 Years Comprehensive Onsite including battery

- **1 KVA with 15 Minutes**

SI No	Technical Specification	
1	UPS Rating	1 KVA/800W
2	Topology	True On-line Double Conversion UPS
3	Output power capacity	800W
4	<b>Input</b>	
	Phase	Single Phase
	Voltage	230V AC
	Voltage range	160V - 300 V AC
	Input Power factor	0.98 or more
5	<b>Output</b>	
	Nominal output voltage	220VAC / 230VA $\pm$ 1%
	Frequency	50Hz $\pm$ 0.1Hz
	Frequency synchronisation	47.5 to 52.5Hz
	Voltage THD	<3% Linear Load
		<5% Non Linear Load

	Output Power factor	0.8 or more
6	<b>Efficiency</b>	
	AC/AC (overall efficiency)	Up to 90%
7	<b>Overload capacity</b>	
	105 - 110%	10 min
	111 - 130%	1 min
	<b>Battery Specification</b>	
	Battery	Internal/External
	Battery charging	Constant Current & Constant Voltage
	Battery type	12 V SMF Battery
	Battery make	Exide/Quanta/Panasonic
	Backup	15 Minutes with full loaded
8	<b>Electrical</b>	
	Input terminal	Terminal
	Output terminal	4 Nos 6 Amps[Indian Standard]
9	<b>Features</b>	
	Converter mode	Available
	Bypass parameters configurable	Available
	Display	LCD Display
	Operating temperature	0~ 400C
	Noise Level	Less than 45dB
10	<b>Mechanical</b>	
	Ingress protection	IP 20
11	<b>Certification</b>	
	For UPS	ERTL certification or equivalent from NABL accredited agency for all specified parameters
	For OEM	ISO 9001 : 2008, 14001 : 2004
12	Warranty	3 Year Comprehensive onsite warranty including battery

## 7. A3 SHEET FED SCANNER

SI No	Technical Specification	
1	Scanner Type	Sheet fed
2	Scan Resolution, optical	600 DPI
3	Duty cycle (daily)	Daily Volume 3000 pages
4	Operating Modes:	Color, Grayscale, Black & White
5	Media types	A3, A4, Legal



6	Scan file format	PDF, JPEG, JPG
7	Automatic document feeder capacity	50 sheets
8	Automatic document feeder speed :	50 ppm at B&W 200 dpi(A4)
9	Scanning options (ADF)	Duplex
10	Connectivity, standard	Hi-Speed USB 2.0 or better
11	Warranty	5 year comprehensive onsite warranty
12	Supported OS	Ubuntu 18.04 and Ubuntu 20.04 & Windows

## 8. MINI PC

- Mini PC - Medium End

SI No	Technical Specification	
1	Processor	Intel 10th generation or higher / AMD R3 4000 series or higher
2	Chassis Volume	Chassis/CPU must be monitor rear mountable
3	TDP	Max 35 watts
4	Operating System	Ubuntu, Win 11 Home, Win 11 PRO
5	Hard disk	256 GB SSD
6	Memory	8 GB DDR4 expandable up to 32 GB
7	Audio Card	Integrated
8	Network Card	On-board PCI-E Ethernet & Wi-Fi
9	Monitor	19.5" or higher. Supporting Vesa mountable pattern. Chassis/ CPU must be monitor rear mountable. All accessories required for mounting the chassis shall be included (Vesa Mounting kit)
10	Graphic	Intergated Graphics
11	Ports	1*HDMI/DP, 1*LAN,
12	Keyboard	USB Wired keyboard
13	Mouse	USB Wired Optical
14	Audio ports	1* Mic,1* SPK or Combo port
15	USB Port	3 x USB 3.0, 2 x USB 2.0
16	Wifi	Yes
17	Certifications	ROHS

18	Warranty	5 Years comprehensive onsite warranty
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- **High End – Mini Pc**

Sl No	Technical Specification	
1	Processor	Intel 10th generation or higher /AMD R5 5000 Series or higher
2	Chassis Volume	Chassis/CPU must be monitor rear mountable
3	TDP	Max 35 watts
4	Operating system	Ubuntu, Win 11 Home, Win 11 PRO
5	Storage	512 GB SSD
6	Memory	8 GB DDR4 Expandable up to 32 GB
7	Audio Card	Integrated
8	Network Card	On-board PCI-E Ethernet & Wi-Fi
9	Monitor	21.5" Full HD Monitor
10	Ports	1*HDMI/DP,1*LAN,
11	Keyboard	Wired USB keyboard
12	Mouse	Wired USB Optical
13	Audio ports	1* Mic,1* SPK or Combo port
14	USB Port	3 x USB 3.0, 2 x USB 2.0
15	Wifi	Yes
16	Certifications	ROHS Only
17	Warranty	5 Years comprehensive onsite warranty

## 9. **Ink Tank Printers**

- **A4 Monochrome - Ink tank Printers**

Sl.No	Key Parameters	Specifications
1	Print Technology	Ink Tank - Monochrome
2	Print Speed (black ink)	10 IPM
3	Paper Size	A4, Legal, Envelope
4	Feature	Auto Duplex
5	Input Paper Capacity	150 sheets,
6	Duty cycle / Month	Max. Duty Cycle : 5000 pages per month

7	Interface	USB 2.0 and Network Port
8	Supporting Operating Systems	Ubuntu 18.0 or Higher/Windows11
9	Initial Black Ink Yield	6,000 Pages
10	Warranty	3 Years Onsite Warranty

- **A4 Multi-Function Printer B&W - Ink tank Printer**

Sl.No	Key Parameters	Specifications
1	Print Technology	Ink Tank - Monochrome
2	Print Speed (Black)	10 IPM
3	Paper Size	A4, Legal, Envelope
4	Feature	Auto Duplex
5	Input Paper Capacity	150 sheets,
6	Duty cycle / Month	Max. Duty Cycle : 5000 pages per month
7	Interface	USB 2.0 and Network Port
8	Supporting Operating Systems	Ubuntu 18.0 or Higher/Windows11
9	Initial Black Ink Yield	6,000 Pages
10	Warranty	3 Years Onsite Warranty

- **A4 Multi-Function B&W and Colour - Ink tank Printer**

Sl No	Key Parameters	Specifications
1	Print Technology	InkTank - Monochrome & colour
2	Type	Print, Scan, Copy
3	Print Speed	10 IPM
4	Print Resolution	1200x 1200 dpi or More
6	Features	Auto Duplex and ADF
7	Copy Speed	10 IPM
8	Copy Resolution	600 x 600 dpi
9	Reduction/Enlargement	25 % - 400 %

10	Scan Resolution	1200 x 2400 dpi
11	Paper Size	A4, Legal, Letter, Executive, Envelopes
12	Input Paper Capacity	Front Tray : 250 sheets
13	Duty Cycle	5000 pages per month
14	Interface	USB 2.0
15	Network Connectivity	Ethernet, WiFi IEEE 802.11b/g/n, Wi-Fi Direct.
15	Initial Black & Colour Ink Yield	4000 & 7000 Pages
17	Supporting Operating Systems	Ubuntu 18.0 or Higher , Windows11