महाराष्ट्र शासन
माहिती तंत्रज्ञान संचालनालय ,मुंबई.

७ वा मजला, मंत्रालय विस्तार इमारत,मंत्रालय, मुंबई ४०० ०३२.

दुरध्वनी क्र. ०२२-२२०२४१७७   ई – मेल: director.it@maharashtra.gov.in

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क्रमांक- मातंस२०२५/तां.मा./से-३/७५   दि.- Digital Sign Date

प्रति,
मा. अपर मुख्य सचिव/ प्रधान सचिव/ सचिव (सर्व)
मा. विभागीय आयुक्त (सर्व)
महापालिका आयुक्त (सर्व)
जिल्हाधिकारी (सर्व)
मुख्य कार्यकारी अधिकारी (सर्व)
पोलीस आयुक्त (सर्व)
पोलीस अधीक्षक (सर्व)
जिल्हास्तरीय विभाग प्रमुख (सर्व) मार्फत जिल्हाधिकारी,

विषय :- माहिती व तंत्रज्ञान विषयक बाबींच्या खरेदीसाठी सर्वसाधारण तांत्रिक विनिर्देश (Technical Specification) निश्चित करणेबाबत...

संदर्भ:- १. शासन निर्णय क्र: भांखस २०१७/प्र. क्र. २०४/उद्योग-४, दिनांक- ८ डिसेंबर, २०१७

२. शासन निर्णय क्र: संकीर्ण-१७२५/प्र.क्र. २९९/मातं, दिनांक- १८ नोव्हेंबर, २०२५

महोदय,

संदर्भ क्र.१ मधील निर्देशानुसार खरेदीदार विभागाने माहिती व तंत्रज्ञान विषयक विशेष प्रकल्प व त्यासाठी खरेदी विविध वस्तू व सेवाचे तांत्रिक विनिर्देश (Technical Specification) माहिती व तंत्रज्ञान विभागाकडून तपासून घ्यावेत व त्यानुसार खरेदी प्रक्रिया राबविण्यासंबंधी सूचना देण्यात आल्या आहेत.

माहिती व तंत्रज्ञान कडून कार्यालयीन कामकाजासाठी नियमितपणे सर्वसाधारणतः एकल किंवा मर्यादित स्वरूपात लागणाऱ्या माहिती व तंत्रज्ञान विषयक वस्तू व सेवांचे शासनामध्ये एकच प्रमाणिकरण असण्यासाठी त्यांचे तांत्रिक विनिर्देश (Technical Specification) दिनांक- ३१ मार्च, २०२६ पर्यंत या

पत्राद्वारे निश्चित करण्यात येत आहेत. त्यानंतर तांत्रिक विनिर्देश अद्ययावत करून संचालक यांचेकडून यथावकाश सर्व विभागांना कळविण्यात येतील.

उद्योग, ऊर्जा, व कामगार विभागाच्या संदर्भ क्रमांक-१ येथील दिनांक ०८ डिसेंबर, २०१७ रोजीच्या शासन निर्णयान्वये माहिती व तंत्रज्ञान विभागाकडून माहिती व तंत्रज्ञान विषयक वस्तूंचे तांत्रिक विनिर्देश निश्चित केले असून सोबत जोडलेल्या (परिशिष्ट 'अ') नमूद केलेल्या वस्तूंच्या (Hardware) खरेदीसाठी माहिती तंत्रज्ञान विभागाकडे प्रस्ताव पाठविण्याची आवश्यकता नाही. याबाबतचे तांत्रिक विनिर्देश महाराष्ट्र सरकारच्या वेबसाइट https://maharashtra.gov.in वर देखील अपलोड केले आहेत.

सोबत जोडलेल्या परिशिष्ट 'अ' व्यतिरिक्त माहिती व तंत्रज्ञान विषयक प्रकल्पांचे तसेच वेळोवेळी नव्याने खरेदी करणे आवश्यक असलेल्या माहिती व तंत्रज्ञान विषयक वस्तू/सेवा बाबतचे प्रस्ताव फक्त संबंधित प्रशासकीय विभागांकडून सचिव (माहिती तंत्रज्ञान) मार्फत संचालक (माहिती तंत्रज्ञान) यांच्याकडे सादर होणे आवश्यक आहे.

Digitally signed by Sanjay Shripatrao Katkar Date: 19-12-2025 12:00:55

(संजय काटकर, भा.प्र.से.)

संचालक

माहिती तंत्रज्ञान संचालनालय

प्रत- मा. सचिव, माहिती व तंत्रज्ञान

`परिशिष्ट 'अ'

Government of Maharashtra

General Administrative Department (Information Technology)

क्रमांक- मातंस 2025/तां.मा./से-3/75   **Date: Digital Signature Date**

Subject: Generic Technical specifications of ICT items - Regarding

As per the GR of Industry, Energy and Labour Department, dated 8th Dec 2017; all departments of Government of Maharashtra are required to send the proposals about procurement of IT related Hardware /Software for technical vetting to Information Technology Department.

The generic technical specifications of ICT items given below at the index are being issued by the Information Technology Department to facilitate the procurement process and obviate the need to send proposals for vetting/providing technical specifications for common ICT items.

It is advised that:

1. The ICT items should be procured as per the Government Purchase procedure and as technical specifications given below (Also uploaded on Maharashtra Government website https://maharashtra.gov.in). This will help to encourage fair competition, maintain price competitiveness, vendor neutrality and avoid monopoly.

2. It is also clarified that, procurement of IT Hardware or related items other than below mentioned list of items should be vetted by Director of Information Technology, Maharashtra. Such proposals need to be sent by the Departments to Secretary IT.

3. It will be responsibility of the department to ensure that no additions or alterations are made to the generic specifications provided. Any additions or alterations in any of the specifications and certifications mentioned herein will not be considered valid. Departments are strictly advised to publish two different technology items separately without using OR and Slash ('/') in between items.

This is issued with the approval of competent authority.

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Category 1: Desktop Computer

Entry Level Configuration

A. Intel i3 with 14th Generation (estimated cost Rs.60,000/- considering pre-installed Genuine Windows 11 Professional, 16 GB RAM and 1 TB Storage)

Parameter	Generic Technical Specification
Processor	Intel i3, 4 Core or higher, with minimum 3.0 GHz or higher (Base Frequency), 12 MB Cache or higher with 14th or higher Generation and to be Certified by OEM
Chipset	Compatible Chipset
Operating System	1. Pre-installed OEM Certified Genuine Microsoft Windows 11 Professional (64 bit) or higher/ Latest Linux version (to be decided by concerned Dept. as per requirement) 2. Recovery partition (applicable for Windows).
Memory (RAM)	8 GB/ 16 GB DDR5 4400 MHz or higher with 64 GB Expandability (As per requirement of Dept. for selection of 8 GB or 16 GB)
Storage	512 GB/ 1 TB SSD *(As per requirement of Dept. for selection of 512 GB or 1 TB)*
Graphics	Integrated HD Graphic card or higher
Ports	Minimum 5 USB ports with at least 2 USB 3.0 or higher ports, HDMI, Display port, Audio jack for headphone & microphone
Display	Minimum 21 inches or higher, Resolution 1600 x 900 or higher Display
Antivirus	Minimum 3 years subscription of Antivirus with protection for Ransomware, Browsing, Phishing along with OEM undertaking to be provided.
Model specific Certification	BIS (for Monitor only)
Compliance	RoHS, ISO 9001
Keyboard & Mouse	USB Keyboard & USB two button optical Mouse with Mouse Pad (Same make as Desktop)
Network Interface	Integrated 10/100/1000 GB Ethernet, Integrated 802.11ac Wi-Fi and Bluetooth 5.0 or higher
Form Factor	SFF/MT
Accessories	All necessary cables
Security	2.0 Trusted Platform Module (TPM) (Hardware/Firmware)
Expansion slots	Minimum two PCIe slots
Warranty	3 Years comprehensive on site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

Note: NVIDIA 4GB Graphics Card having estimated cost of Rs. 20,000/- may be added separately by the Departments as per their requirement in Desktops.

B. Ryzen 3 with 8000 Series (estimated cost Rs. 60,000/- considering pre-installed Genuine Windows 11 Professional, 16 GB RAM and 1 TB Storage)

Parameter	Generic Technical Specification
Processor	Ryzen 3, 4 Core or higher, with minimum 3.4 GHz or higher (Base Frequency), 12 MB Cache or higher with 8000 Series or higher and to be Certified by OEM
Chipset	AMD
Operating System	1. Pre-installed OEM Certified Genuine Microsoft Windows 11 Professional (64 bit) or higher/ Latest Linux version (to be decided by concerned Dept. as per requirement) 2. Recovery partition (applicable for Windows).
Memory (RAM)	8 GB/ 16 GB DDR5 4400 MHz or higher with 64 GB Expandability *(As per requirement of Dept. for selection of 8 GB or 16 GB)*
Storage	512 GB/ 1 TB SSD *(As per requirement of Dept. for selection of 512 GB or 1 TB)*
Graphics	Integrated HD Graphic card or higher
Ports	Minimum 5 USB ports with at least 2 USB 3.0 or higher ports, HDMI, Display port, Audio jack for headphone & microphone
Display	Minimum 21 inches or higher, Resolution 1600x900 or higher Display
Antivirus	Minimum 3 years subscription Antivirus with protection for Ransomware, Browsing, Phishing along with OEM undertaking to be provided.
Model specific Certification	BIS (for Monitor only)
Compliance	RoHS, ISO 9001
Keyboard & Mouse	USB Keyboard & USB two button optical Mouse with Mouse Pad (Same make as Desktop)
Network Interface	Integrated 10/100/1000 GB Ethernet, Integrated 802.11ac Wi-Fi and Bluetooth 5.0 or higher
Form Factor	SFF/MT
Accessories	All necessary cables
Security	2.0 Trusted Platform Module (TPM) (Hardware/Firmware)
Expansion slots	Minimum two PCIe slots
Warranty	3 Years comprehensive on site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

Note: NVIDIA 4GB Graphics Card having estimated cost of Rs. 20,000/- may be added separately by the Departments as per their requirement in Desktops.

C. **Intel i3 with 13th Generation** (estimated cost Rs. 50,000/- considering pre-installed Genuine Windows 11 Professional, 16 GB RAM and 1 TB Storage)

Parameter	Generic Technical Specification
Processor	Intel i3, 4 Core or higher, with minimum 3.0 GHz or higher (Base Frequency), 10 MB Cache or higher with 13th or higher Generation and to be Certified by OEM
Chipset	Compatible Chipset
Operating System	1. Pre-installed OEM Certified Genuine Microsoft Windows 11 Professional (64 bit) or higher/ Latest Linux version (to be decided by concerned Dept. as per requirement) 2. Recovery partition (applicable for Windows).
Memory (RAM)	8 GB/ 16 GB DDR4 3200MHz or higher with 64 GB Expandability *(As per requirement of Dept. for selection of 8 GB or 16 GB)*
Storage	256 GB/ 512 GB/ 1 TB SSD (As per requirement of Dept. for selection of 256 GB or 512 GB or 1 TB)
Graphics	Integrated HD Graphic card or higher
Ports	Minimum 5 USB ports with at least 2 USB 3.0 or higher ports, HDMI, Display port, Audio jack for headphone & microphone
Display	Minimum 19.5 inch or higher, Resolution 1600x900 or higher Display
Antivirus	Minimum 3 years subscription Antivirus with protection for Ransomware, Browsing, Phishing along with OEM undertaking to be provided.
Model specific Certification	BIS (for Monitor only)
Compliance	RoHS, ISO 9001
Keyboard & Mouse	USB Keyboard & USB two button optical Mouse with Mouse Pad (Same make as Desktop)
Network Interface	Integrated 10/100/1000 GB Ethernet, Integrated 802.11ac Wi-Fi and Bluetooth 4.0 or higher
Form Factor	SFF/MT
Accessories	All necessary cables
Security	2.0 Trusted Platform Module (TPM) (Hardware/Firmware)
Expansion slots	Minimum two PCIe slots
Warranty	3 Years comprehensive on site OEM warranty

Note:
Any deviation/ alteration/ modification in the specification will not be considered valid.

D. Ryzen 3 with 5000 Series (estimated cost Rs. 50,000/- considering pre-installed Genuine Windows 11 Professional, 16 GB RAM and 1 TB Storage)

Parameter	Generic Technical Specification
Processor	Ryzen 3, 4 Core or higher, with minimum 4 GHz or higher (Base Frequency), 10 MB Cache or higher with 5000 Series or higher and to be Certified by OEM
Chipset	AMD
Operating System	1. Pre-installed OEM Certified Genuine Microsoft Windows 11 Professional (64 bit) or higher/ Latest Linux version (to be decided by concerned Dept. as per requirement) 2. Recovery partition (applicable for Windows).
Memory (RAM)	8 GB/ 16 GB DDR4 3200MHz or higher with 64 GB Expandability *(As per requirement of Dept. for selection of 8 GB or 16 GB)*
Storage	256 GB/ 512 GB/ 1 TB SSD *(As per requirement of Dept. for selection of 256 GB or 512 GB or 1 TB)*
Graphics	Integrated HD Graphic card or higher
Ports	Minimum 5 USB ports with at least 2 USB 3.0 or higher ports, HDMI, Display port, Audio jack for headphone & microphone
Display	Minimum 19.5 inch or higher, Resolution 1600x900 or higher Display
Antivirus	Minimum 3 years subscription of Antivirus with protection for Ransomware, Browsing, Phishing along with OEM undertaking to be provided.
Model specific Certification	BIS (for Monitor only)
Compliance	RoHS, ISO 9001
Keyboard & Mouse	USB Keyboard & USB two button optical Mouse with Mouse Pad (Same make as Desktop)
Network Interface	Integrated 10/100/1000 GB Ethernet, Integrated 802.11ac Wi-Fi and Bluetooth 4.0 or higher
Form Factor	SFF/MT
Accessories	All necessary cables
Security	2.0 Trusted Platform Module (TPM) (Hardware/Firmware)
Expansion slots	Minimum two PCIe slots
Warranty	3 Years comprehensive on site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

Medium level configuration

A. Intel i5 with 14th Generation (estimated cost Rs. 75,000/- considering pre-installed Genuine Windows 11 Professional, 16 GB RAM and 1 TB Storage)

Parameter	Generic Technical Specification
Processor	Intel i5, 10 Core or higher, with minimum 2.5 GHz or higher (Base Frequency), 20 MB Cache or higher with 14th or higher Generation and to be Certified by OEM
Chipset	Compatible Chipset
Operating System	1. Pre-installed OEM Certified Genuine Microsoft Windows 11 Professional (64 bit) or higher/ Latest Linux version (to be decided by concerned Dept. as per requirement) 2. Recovery partition (applicable for Windows).
Memory (RAM)	8 GB/ 16 GB DDR5 4400 MHz or higher with 64 GB Expandability (As per requirement of Dept. for selection of 8 GB or 16 GB)
Storage	512 GB/ 1 TB SSD (As per requirement of Dept. for selection of 512 GB or 1 TB)
Graphics	Integrated HD Graphic card or higher
Ports	Minimum 5 USB ports with at least 2 USB 3.0 or higher ports, HDMI, Display port, Audio jack for headphone & microphone
Display	Minimum 21 inches or higher, Resolution 1600x900 or higher Display
Antivirus	Minimum 3 years subscription of Antivirus with protection for Ransomware, Browsing, Phishing along with OEM undertaking to be provided.
Model specific Certification	BIS (for Monitor only)
Compliance	RoHS, ISO 9001
Keyboard & Mouse	USB Keyboard & USB two button optical Mouse with Mouse Pad (Same make as Desktop)
Network Interface	Integrated 10/100/1000 GB Ethernet, Integrated 802.11ac Wi-Fi and Bluetooth 5.0 or higher
Form Factor	SFF/MT
Accessories	All necessary cables
Security	2.0 Trusted Platform Module (TPM) (Hardware/Firmware)
Expansion slots	Minimum two PCIe slots
Warranty	3 Years comprehensive on site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

Note: NVIDIA 4GB Graphics Card having estimated cost of Rs. 20, 000/- may be added separately by the Departments as per their requirement in Desktops.

B. Ryzen 5 with 8000 Series (estimated cost Rs. 75,000/- considering pre-installed Genuine Windows 11 Professional, 16 GB RAM and 1 TB Storage)

Parameter	Generic Technical Specification
Processor	Ryzen 5, 6 Core or higher, with minimum 2.7 GHz or higher (Base Frequency), 22 MB Cache or higher with 8000 Series or higher and to be Certified by OEM
Chipset	AMD
Operating System	1. Pre-installed OEM Certified Genuine Microsoft Windows 11 Professional (64 bit) or higher/ Latest Linux version (to be decided by concerned Dept. as per requirement) 2. Recovery partition (applicable for Windows).
Memory (RAM)	8 GB/ 16 GB DDR5 4400 MHz or higher with 64 GB Expandability *(As per requirement of Dept. for selection of 8 GB or 16 GB)*
Storage	512 GB/ 1 TB SSD (As per requirement of Dept. for selection of 512 GB or 1 TB)
Graphics	Integrated HD Graphic card or higher
Ports	Minimum 5 USB ports with at least 2 USB 3.0 or higher ports, HDMI, Display port, Audio jack for headphone & microphone
Display	Minimum 21 inches or higher, Resolution 1600x900 or higher Display
Antivirus	Minimum 3 years subscription of Antivirus with protection for Ransomware, Browsing, Phishing along with OEM undertaking to be provided.
Model specific Certification	BIS (for Monitor only)
Compliance	RoHS, ISO 9001
Keyboard & Mouse	USB Keyboard & USB two button optical Mouse with Mouse Pad (Same make as Desktop)
Network Interface	Integrated 10/100/1000 GB Ethernet, Integrated 802.11ac Wi-Fi and Bluetooth 5.0 or higher
Form Factor	SFF/MT
Accessories	All necessary cables
Security	2.0 Trusted Platform Module (TPM) (Hardware/Firmware)
Expansion slots	Minimum two PCIe slots
Warranty	3 Years comprehensive on site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

Note: NVIDIA 4GB Graphics Card having estimated cost of Rs. 20,000/- may be added separately by the Departments as per their requirement in Desktops.

C. Intel i5 with 13th Generation (estimated cost Rs. 60,000/- considering pre-installed Genuine Windows 11 Professional, 16 GB RAM and 1 TB Storage)

Parameter	Generic Technical Specification
Processor	Intel i5, 6 Core or higher, with minimum 2.5 GHz or higher (Base Frequency), 18 MB Cache or higher with 13th or higher Generation and to be Certified by OEM
Chipset	Compatible Chipset
Operating System	1. Pre-installed OEM Certified Genuine Microsoft Windows 11 Professional (64 bit) or higher/ Latest Linux version (to be decided by concerned Dept. as per requirement) 2. Recovery partition (applicable for Windows).
Memory (RAM)	8 GB/ 16 GB DDR4 3200MHz or higher with 64 GB Expandability *(As per requirement of Dept. for selection of 8 GB or 16 GB)*
Storage	512 GB/ 1 TB SSD *(As per requirement of Dept. for selection of 512 GB or 1 TB)*
Graphics	Integrated HD Graphic card or higher
Ports	Minimum 5 USB ports with at least 2 USB 3.0 or higher ports, HDMI, Display port, Audio jack for headphone & microphone
Display	Minimum 19.5 inch or higher, Resolution 1600x900 or higher Display
Antivirus	Minimum 3 years subscription of Antivirus with protection for Ransomware, Browsing, Phishing along with OEM undertaking to be provided.
Model specific Certification	BIS (for Monitor only)
Compliance	RoHS, ISO 9001
Keyboard & Mouse	USB Keyboard & USB two button optical Mouse with Mouse Pad (Same make as Desktop)
Network Interface	Integrated 10/100/1000 GB Ethernet, Integrated 802.11ac Wi-Fi and Bluetooth 4.0 or higher
Form Factor	SFF/MT
Accessories	All necessary cables
Security	2.0 Trusted Platform Module (TPM) Hardware/Firmware
Expansion slots	Minimum two PCIe slots
Warranty	3 Years comprehensive on site OEM warranty

Note:
Any deviation/ alteration/ modification in the specification will not be considered valid.

D. Ryzen 5 with 5000 Series (Estimated cost Rs. 60,000/- considering pre-installed Genuine Windows 11 Professional, 16 GB RAM and 1 TB Storage)

Parameter	Generic Technical Specification
Processor	Ryzen 5, 6 Core or higher, with minimum 3.9 GHz or higher (Base Frequency), 18 MB Cache or higher with 5000 Series or higher and to be Certified by OEM
Chipset	AMD
Operating System	1. Pre-installed OEM Certified Genuine Microsoft Windows 11 Professional (64 bit) or higher/ Latest Linux version (to be decided by concerned Dept. as per requirement) 2. Recovery partition (applicable for Windows).
Memory (RAM)	8 GB/ 16 GB DDR4 3200MHz or higher with 64 GB Expandability *(As per requirement of Dept. for selection of 8 GB or 16 GB)*
Storage	512 GB/ 1 TB SSD (As per requirement of Dept. for selection of 512 GB or 1 TB)
Graphics	Integrated HD Graphic card or higher
Ports	Minimum 5 USB ports with at least 2 USB 3.0 or higher ports, HDMI, Display port, Audio jack for headphone & microphone
Display	Minimum 19.5 inch or higher, Resolution 1600x900 or higher Display
Antivirus	Minimum 3 years subscription of Antivirus with protection for Ransomware, Browsing, Phishing along with OEM undertaking to be provided.
Model specific Certification	BIS (for Monitor only)
Compliance	RoHS, ISO 9001
Keyboard & Mouse	USB Keyboard & USB two button optical Mouse with Mouse Pad (Same make as Desktop)
Network Interface	Integrated 10/100/1000 GB Ethernet, Integrated 802.11ac Wi-Fi and Bluetooth 4.0 or higher
Form Factor	SFF/MT
Accessories	All necessary cables
Security	2.0 Trusted Platform Module (TPM) (Hardware/Firmware)
Expansion slots	Minimum two PCIe slots
Warranty	3 Years comprehensive on site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

Mid-High-level configuration

A. **Intel i7 with 14th Generation** (Estimated cost Rs. 90,000/- considering pre-installed Genuine Windows 11 Professional, 16 GB RAM and 1 TB Storage)

Parameter	Generic Technical Specification
Processor	Intel i7, 20 Core or higher, with minimum 2.1 GHz or higher (Base Frequency), 33 MB Cache or higher with 14th or higher Generation and to be Certified by OEM
Chipset	Compatible Chipset
Operating System	1. Pre-installed OEM Certified Genuine Microsoft Windows 11 Professional (64 bit) or higher/ Latest Linux version (to be decided by concerned Dept. as per requirement) 2. Recovery partition (applicable for Windows).
Memory (RAM)	8 GB/ 16 GB DDR5 4400 MHz or higher with 64 GB Expandability *(As per requirement of Dept. for selection of 8 GB or 16 GB)*
Storage	512 GB/ 1 TB SSD *(As per requirement of Dept. for selection of 512 GB or 1 TB)*
Graphics	Integrated HD Graphic card or higher
Ports	Minimum 5 USB ports with at least 2 USB 3.0 or higher ports, HDMI, Display port, Audio jack for headphone & microphone
Display	Minimum 21 inches or higher, Resolution 1600x900 or higher Display
Antivirus	Minimum 3 years subscription of Antivirus with protection for Ransomware, Browsing, Phishing along with OEM undertaking to be provided.
Model specific Certification	BIS (for Monitor only)
Compliance	RoHS, ISO 9001
Keyboard & Mouse	USB Keyboard & USB two button optical Mouse with Mouse Pad (Same make as Desktop)
Network Interface	Integrated 10/100/1000 GB Ethernet, Integrated 802.11ac Wi-Fi and Bluetooth 5.0 or higher
Form Factor	SFF/MT
Accessories	All necessary cables
Security	2.0 Trusted Platform Module (TPM) (Hardware/Firmware)
Expansion slots	Minimum two PCIe slots
Warranty	3 Years comprehensive on site OEM warranty

Note:
Any deviation/ alteration/ modification in the specification will not be considered valid.

Note: NVIDIA 4GB Graphics Card having estimated cost of Rs. 20,000/- may be added separately by the Departments as per their requirement in Desktops.

B. Ryzen 7 with 8000 Series (Estimated cost Rs. 90,000/- considering pre-installed Genuine Windows 11 Professional, 16 GB RAM and 1 TB Storage)

Parameter	Generic Technical Specification
Processor	Ryzen 7, 8 Core or higher, with minimum 2.10 GHz or higher (Base Frequency), 24 MB Cache or higher with 8000 Series or higher and to be Certified by OEM
Chipset	AMD
Operating System	1. Pre-installed OEM Certified Genuine Microsoft Windows 11 Professional (64 bit) or higher/ Latest Linux version (to be decided by concerned Dept. as per requirement) 2. Recovery partition (applicable for Windows).
Memory (RAM)	8 GB/ 16 GB DDR5 4400 MHz or higher with 64 GB Expandability (As per requirement of Dept. for selection of 8 GB or 16 GB)
Storage	512 GB/ 1 TB SSD (As per requirement of Dept. for selection of 512 GB or 1 TB)
Graphics	Integrated HD Graphic card or higher
Ports	Minimum 5 USB ports with at least 2 USB 3.0 or higher ports, HDMI, Display port, Audio jack for headphone & microphone
Display	Minimum 21 inches or higher, Resolution 1600x900 or higher Display
Antivirus	Minimum 3 years subscription of Antivirus with protection for Ransomware, Browsing, Phishing along with OEM undertaking to be provided.
Model specific Certification	BIS (for Monitor only)
Compliance	RoHS, ISO 9001
Keyboard & Mouse	USB Keyboard & USB two button optical Mouse with Mouse Pad (Same make as Desktop)
Network Interface	Integrated 10/100/1000 GB Ethernet, Integrated 802.11ac Wi-Fi and Bluetooth 5.0 or higher
Form Factor	SFF/MT
Accessories	All necessary cables
Security	2.0 Trusted Platform Module (TPM) (Hardware/Firmware)
Expansion slots	Minimum two PCIe slots
Warranty	3 Years comprehensive on site OEM warranty

Note:

Any deviation/ alteration/ modification in the specification will not be considered valid.

Note: NVIDIA 4GB Graphics Card having estimated cost of Rs. 20,000/- may be added separately by the Departments as per their requirement in Desktops.

C. Intel i7 with 13th Generation (Estimated cost Rs. 75,000/- considering pre-installed   Genuine Windows 11 Professional, 16 GB RAM and 1 TB Storage)

Parameter	Generic Technical Specification
Processor	Intel i7, 12 Core or higher, with minimum 2.1 GHz or higher (Base Frequency), 12 MB Cache or higher with 13th or higher Generation and to be Certified by OEM
Chipset	Compatible Chipset
Operating System	1. Pre-installed OEM Certified Genuine Microsoft Windows 11 Professional (64 bit) or higher/ Latest Linux version (to be decided by concerned Dept. as per requirement) 2. Recovery partition (applicable for Windows).
Memory (RAM)	8 GB/ 16 GB DDR4 3200MHz or higher with 64 GB Expandability (As per requirement of Dept. for selection of 8 GB or 16 GB)
Storage	512 GB/ 1 TB SSD (As per requirement of Dept. for selection of 512 GB or 1 TB)
Graphics	Integrated HD Graphic card or higher
Ports	Minimum 5 USB ports with at least 2 USB 3.0 or higher ports, HDMI, Display port, Audio jack for headphone & microphone
Display	Minimum 19.5 inch or higher, Resolution 1600x900 or higher Display
Antivirus	Minimum 3 years subscription of Antivirus with protection for Ransomware, Browsing, Phishing along with OEM undertaking to be provided.
Model specific Certification	BIS (for Monitor only)
Compliance	RoHS, ISO 9001
Keyboard & Mouse	USB Keyboard & USB two button optical Mouse with Mouse Pad (Same make as Desktop)
Network Interface	Integrated 10/100/1000 GB Ethernet, Integrated 802.11ac Wi-Fi and Bluetooth 4.0 or higher
Form Factor	SFF/MT
Accessories	All necessary cables
Security	2.0 Trusted Platform Module (TPM) (Hardware/Firmware)
Expansion slots	Minimum two PCIe slots
Warranty	3 Years comprehensive on site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

D. Ryzen 7 with 5000 Series (Estimated cost Rs.75,000/- considering pre-installed Genuine Windows 11 Professional, 16 GB RAM and 1 TB Storage)

Parameter	Generic Technical Specification
Processor	Ryzen7, 8 Core or higher, with minimum 3.8 GHz or higher (Base Frequency), 20 MB Cache or higher with 5000 Series or higher and to be Certified by OEM
Chipset	AMD
Operating System	1. Pre-installed OEM Certified Genuine Microsoft Windows 11 Professional (64 bit) or higher/ Latest Linux version (to be decided by concerned Dept. as per requirement) 2. Recovery partition (applicable for Windows).
Memory (RAM)	8 GB/ 16 GB DDR4 3200MHz or higher with 64 GB Expandability (As per requirement of Dept. for selection of 8 GB or 16 GB)
Storage	512 GB/ 1 TB SSD (As per requirement of Dept. for selection of 512 GB or 1 TB)
Graphics	Integrated HD Graphic card or higher
Ports	Minimum 5 USB ports with at least 2 USB 3.0 or higher ports, HDMI, Display port, Audio jack for headphone & microphone
Display	Minimum 19.5 inch or higher, Resolution 1600x900 or higher Display
Antivirus	Minimum 3 years subscription of Antivirus with protection for Ransomware, Browsing, Phishing along with OEM undertaking to be provided.
Model specific Certification	BIS (for Monitor only)
Compliance	RoHS, ISO 9001
Keyboard & Mouse	USB Keyboard & USB two button optical Mouse with Mouse Pad (Same make as Desktop)
Network Interface	Integrated 10/100/1000 GB Ethernet, Integrated 802.11ac Wi-Fi and Bluetooth 4.0 or higher
Form Factor	SFF/MT
Accessories	All necessary cables
Security	2.0 Trusted Platform Module (TPM) (Hardware/Firmware)
Expansion slots	Minimum two PCIe slots
Warranty	3 Years comprehensive on site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

Category 2. All in one Desktop computer

Entry level configuration

A. **Intel i3 with 14th Generation** (estimated cost Rs. 75,000/- considering pre-installed Genuine Windows 11 Professional, 16 GB RAM and 1 TB Storage)

Parameter	Generic Technical Specification
Processor	Intel i3, 4 Core or higher, with minimum 3.0 GHz or higher (Base Frequency), 12 MB Cache or higher with 14th or higher Generation and to be Certified by OEM
Chipset	Compatible Chipset
Operating System	1. Pre-installed OEM Certified Genuine Microsoft Windows 11 Professional (64 bit) or higher/ Latest Linux version (to be decided by concerned Dept. as per requirement) 2. Recovery partition (applicable for Windows).
Memory (RAM)	8 GB/ 16 GB DDR5 4400MHz or higher with 64 GB Expandability (As per requirement of Dept. for selection of 8 GB or 16 GB)
Storage	512 GB/ 1 TB SSD (As per requirement of Dept. for selection of 512 GB or 1 TB)
Audio	Integrated audio controller with internal Speaker
Ports	Minimum 5 USB ports with at least 2 USB 3.0 or higher ports, HDMI, Display port, Type-C Port, Audio jack for headphone & microphone
Camera	Integrated webcam 2 MP or higher
Display	Minimum 23.8 inches or higher, Resolution 1920x1080 or higher Display
Antivirus	Minimum 3 years subscription of Antivirus with protection for Ransomware, Browsing, Phishing along with OEM undertaking to be provided.
Model specific Certification	BIS
Compliance	RoHS, ISO 9001
Keyboard & Mouse	USB Keyboard & USB two button optical Mouse with Mouse Pad (Same make as AIO)
Network Interface	Integrated 10/100/1000 GB Ethernet, Integrated 802.11ac Wi-Fi and Bluetooth 5.0 or higher
Accessories	All necessary cables
Security	2.0 Trusted Platform Module (TPM) (Hardware/Firmware)
Warranty	3 Years comprehensive on-site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

B. Ryzen 3 with 8000 Series (Estimated cost Rs. 75,000/- considering pre-installed Genuine Windows 11 Professional, 16 GB RAM and 1 TB Storage)

Parameter	Generic Technical Specification
Processor	4 Core or higher, with minimum 3.4 GHz or higher (Base Frequency), 12 MB Cache or higher with 8000 Series or higher and to be Certified by OEM
Chipset	AMD
Operating System	1. Pre-installed OEM Certified Genuine Microsoft Windows 11 Professional (64 bit) or higher/ Latest Linux version (to be decided by concerned Dept. as per requirement) 2. Recovery partition (applicable for Windows).
Memory (RAM)	8 GB/ 16 GB DDR5 4400MHz or higher with 64 GB Expandability (As per requirement of Dept. for selection of 8 GB or 16 GB)
Storage	512 GB/ 1 TB SSD (As per requirement of Dept. for selection of 512 GB or 1 TB)
Audio	Integrated audio controller with internal Speaker
Ports	Minimum 5 USB ports with at least 2 USB 3.0 or higher ports, HDMI, Display port, Type-C Port, Audio jack for headphone & microphone
Camera	Integrated webcam 2 MP or higher
Display	Minimum 23.8 inches or higher, Resolution 1920x1080 or higher Display
Antivirus	Minimum 3 years subscription of Antivirus with protection for Ransomware, Browsing, Phishing along with OEM undertaking to be provided.
Model specific Certification	BIS
Compliance	RoHS, ISO 9001
Keyboard & Mouse	USB Keyboard & USB two button optical Mouse with Mouse Pad (Same make as AIO)
Network Interface	Integrated 10/100/1000 GB Ethernet, Integrated 802.11ac Wi-Fi and Bluetooth 5.0 or higher
Accessories	All necessary cables
Security	2.0 Trusted Platform Module (TPM) (Hardware/Firmware)
Warranty	3 Years comprehensive on-site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

C. Intel i3 with 13th Generation (Estimated cost Rs. 65,000/- considering pre-installed Genuine Windows 11 Professional, 16 GB RAM and 1 TB Storage)

Parameter	Generic Technical Specification
Processor	Intel i3, 4 Core or higher, with minimum 2.7 GHz or higher (Base Frequency), 10 MB Cache or higher with 13th or higher Generation and to be Certified by OEM
Chipset	Compatible Chipset
Operating System	1. Pre-installed OEM Certified Genuine Microsoft Windows 11 Professional (64 bit) or higher/ Latest Linux version (to be decided by concerned Dept. as per requirement) 2. Recovery partition (applicable for Windows).
Memory (RAM)	8 GB/ 16 GB DDR4 3200MHz or higher with 64 GB Expandability (As per requirement of Dept. for selection of 8 GB or 16 GB)
Storage	256 GB/ 512 GB/ 1 TB SSD (As per requirement of Dept. for selection of 256 GB or 512 GB or 1 TB)
Audio	Integrated audio controller with internal Speaker
Ports	Minimum 5 USB ports with at least 2 USB 3.0 or higher ports, HDMI, Display port, Type-C Port, Audio jack for headphone & microphone
Camera	Integrated webcam 2 MP or higher
Display	Minimum 23.8 inches or higher, Resolution 1920x1080 or higher Display
Antivirus	Minimum 3 years subscription of Antivirus with protection for Ransomware, Browsing, Phishing along with OEM undertaking to be provided.
Model specific Certification	BIS
Compliance	RoHS, ISO 9001
Keyboard & Mouse	USB Keyboard & USB two button optical Mouse with Mouse Pad (Same make as AIO)
Network Interface	Integrated 10/100/1000 GB Ethernet, Integrated 802.11ac Wi-Fi and Bluetooth 4.0 or higher
Accessories	All necessary cables
Security	2.0 Trusted Platform Module (TPM) (Hardware/Firmware)
Warranty	3 Years comprehensive on-site OEM warranty

Note:

Any deviation/ alteration/ modification in the specification will not be considered valid.

D. Ryzen 3 with 5000 Series (Estimated cost Rs. 65,000/- considering pre-installed Genuine Windows 11 Professional, 16 GB RAM and 1 TB Storage)

Parameter	Generic Technical Specification
Processor	4 Core or higher, with minimum 2.7 GHz or higher (Base Frequency), 10 MB Cache or higher with 5000 Series or higher and to be Certified by OEM
Chipset	AMD
Operating System	1. Pre-installed OEM Certified Genuine Microsoft Windows 11 Professional (64 bit) or higher/ Latest Linux version (to be decided by concerned Dept. as per requirement) 2. Recovery partition (applicable for Windows).
Memory (RAM)	8 GB/ 16 GB DDR4 3200MHz or higher with 64 GB Expandability (As per requirement of Dept. for selection of 8 GB or 16 GB)
Storage	256 GB/ 512 GB/ 1 TB SSD *(As per requirement of Dept. for selection of 256 GB or 512 GB or 1 TB)*
Audio	Integrated audio controller with internal Speaker
Ports	Minimum 5 USB ports with at least 2 USB 3.0 or higher ports, HDMI, Display port, Type-C Port, Audio jack for headphone & microphone
Camera	Integrated webcam 2 MP or higher
Display	Minimum 23.8 inches or higher, Resolution 1920x1080 or higher Display
Antivirus	Minimum 3 years subscription of Antivirus with protection for Ransomware, Browsing, Phishing along with OEM undertaking to be provided.
Model specific Certification	BIS
Compliance	RoHS, ISO 9001
Keyboard & Mouse	USB Keyboard & USB two button optical Mouse with Mouse Pad (Same make as AIO)
Network Interface	Integrated 10/100/1000 GB Ethernet, Integrated 802.11ac Wi-Fi and Bluetooth 4.0 or higher
Accessories	All necessary cables
Security	2.0 Trusted Platform Module (TPM) (Hardware/Firmware)
Warranty	3 Years comprehensive on-site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

Medium level configuration

A. Intel i5 with 14th Generation (Estimated cost Rs. 85,000/- considering pre-installed Genuine Windows 11 Professional, 16 GB RAM and 1 TB Storage)

Parameter	Generic Technical Specification
Processor	Intel i5, 10 Core or higher, with minimum 2.5 GHz or higher (Base Frequency), 20 MB Cache or higher with 14th or higher Generation and to be Certified by OEM
Chipset	Compatible Chipset
Operating System	1. Pre-installed OEM Certified Genuine Microsoft Windows 11 Professional (64 bit) or higher/ Latest Linux version (to be decided by concerned Dept. as per requirement) 2. Recovery partition (applicable for Windows).
Memory (RAM)	8 GB/ 16 GB DDR5 4400MHz or higher with 64 GB Expandability *(As per requirement of Dept. for selection of 8 GB or 16 GB)*
Storage	512 GB/ 1 TB SSD *(As per requirement of Dept. for selection of 512 GB or 1 TB)*
Audio	Integrated audio controller with internal Speaker
Ports	Minimum 5 USB ports with at least 2 USB 3.0 or higher ports, HDMI, Display port, Type-C Port, Audio jack for headphone & microphone
Camera	Integrated webcam 2 MP or higher
Display	Minimum 23.8 inches or higher, Resolution 1920x1080 or higher Display
Antivirus	Minimum 3 years subscription of Antivirus with protection for Ransomware, Browsing, Phishing along with OEM undertaking to be provided.
Model specific Certification	BIS
Compliance	RoHS, ISO 9001
Keyboard & Mouse	USB Keyboard & USB two button optical Mouse with Mouse Pad (Same make as AIO)
Network Interface	Integrated 10/100/1000 GB Ethernet, Integrated 802.11ac Wi-Fi and Bluetooth 5.0 or higher
Accessories	All necessary cables
Security	2.0 Trusted Platform Module (TPM) (Hardware/Firmware)
Warranty	3 Years comprehensive on-site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

B. Ryzen 5 with 8000 Series (Estimated cost Rs. 85,000/- considering pre-installed Genuine Windows 11 Professional, 16 GB RAM and 1 TB Storage)

Parameter	Generic Technical Specification
Processor	6 Core or higher, with minimum 2.7 GHz or higher (Base Frequency), 22 MB Cache or higher with 8000 Series or higher and to be Certified by OEM
Chipset	AMD
Operating System	1. Pre-installed OEM Certified Genuine Microsoft Windows 11 Professional (64 bit) or higher/ Latest Linux version (to be decided by concerned Dept. as per requirement) 2. Recovery partition (applicable for Windows).
Memory (RAM)	8 GB/ 16 GB DDR5 4400MHz or higher with 64 GB Expandability *(As per requirement of Dept. for selection of 8 GB or 16 GB)*
Storage	512 GB/ 1 TB SSD *(As per requirement of Dept. for selection of 512 GB or 1 TB)*
Audio	Integrated audio controller with internal Speaker
Ports	Minimum 5 USB ports with at least 2 USB 3.0 or higher ports, HDMI, Display port, Type-C Port, Audio jack for headphone & microphone
Camera	Integrated webcam 2 MP or higher
Display	Minimum 23.8 inches or higher, Resolution 1920x1080 or higher Display
Antivirus	Minimum 3 years subscription of Antivirus with protection for Ransomware, Browsing, Phishing along with OEM undertaking to be provided.
Model specific Certification	BIS
Compliance	RoHS, ISO 9001
Keyboard & Mouse	USB Keyboard & USB two button optical Mouse with Mouse Pad (Same make as AIO)
Network Interface	Integrated 10/100/1000 GB Ethernet, Integrated 802.11ac Wi-Fi and Bluetooth 5.0 or higher
Accessories	All necessary cables
Security	2.0 Trusted Platform Module (TPM) (Hardware/Firmware)
Warranty	3 Years comprehensive on-site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

C. Intel i5 with 13th Generation (Estimated cost Rs.75,000/- considering pre-installed Genuine Windows 11 Professional, 16 GB RAM and 1 TB Storage)

Parameter	Generic Technical Specification
Processor	Intel i5, 6 Core or higher, with minimum 2.5 GHz or higher (Base Frequency), 18 MB Cache or higher with 13th or higher Generation and to be Certified by OEM
Chipset	Compatible Chipset
Operating System	1. Pre-installed OEM Certified Genuine Microsoft Windows 11 Professional (64 bit) or higher/ Latest Linux version *(To be decided by concerned Dept. as per requirement)* 2. Recovery partition (applicable for Windows)
Memory (RAM)	8 GB/ 16 GB DDR4 3200MHz or higher with 64 GB Expandability *(As per requirement of Dept. for selection of 8 GB or 16 GB)*
Storage	512 GB/ 1 TB SSD *(As per requirement of Dept. for selection of 512 GB or 1 TB)*
Audio	Integrated audio controller with internal Speaker
Ports	Minimum 5 USB ports with at least 2 USB 3.0 or higher ports, HDMI, Display port, Type-C Port, Audio jack for headphone & microphone
Camera	Integrated webcam 2 MP or higher
Display	Minimum 23.8 inches or higher, Resolution 1920x1080 or higher Display
Antivirus	Minimum 3 years subscription of Antivirus with protection for Ransomware, Browsing, Phishing along with OEM undertaking to be provided.
Model specific Certification	BIS
Compliance	RoHS, ISO 9001
Keyboard & Mouse	USB Keyboard & USB two button optical Mouse with Mouse Pad (Same make as AIO)
Network Interface	Integrated 10/100/1000 GB Ethernet, Integrated 802.11ac Wi-Fi and Bluetooth 4.0 or higher
Accessories	All necessary cables
Security	2.0 Trusted Platform Module (TPM) (Hardware/Firmware)
Warranty	3 Years comprehensive on-site OEM warranty

Note:
Any deviation/ alteration/ modification in the specification will not be considered valid.

D. Ryzen 5 with 5000 Series (Estimated cost Rs.75,000/- considering pre-installed Genuine Windows 11 Professional, 16 GB RAM and 1 TB Storage)

Parameter	Generic Technical Specification
Processor	6 Core or higher, with minimum 2.5 GHz or higher (Base Frequency), 18 MB Cache or higher with 5000 Series or higher and to be Certified by OEM
Chipset	AMD
Operating System	1. Pre-installed Genuine Microsoft Windows 11 Professional (64 bit) or higher/ Latest Linux version (to be decided by concerned Dept. as per requirement) 2. Recovery partition (applicable for Windows).
Memory (RAM)	8 GB/ 16 GB DDR4 3200MHz or higher with 64 GB Expandability (As per requirement of Dept. for selection of 8 GB or 16 GB)
Storage	512 GB/ 1 TB SSD *(As per requirement of Dept. for selection of 512 GB or 1 TB)*
Audio	Integrated audio controller with internal Speaker
Ports	Minimum 5 USB ports with at least 2 USB 3.0 or higher ports, HDMI, Display port, Type-C Port, Audio jack for headphone & microphone
Camera	Integrated webcam 2 MP or higher
Display	Minimum 23.8 inch or higher, Resolution 1920x1080 or higher Display
Antivirus	Minimum 3 years subscription of Antivirus with protection for Ransomware, Browsing, Phishing along with OEM undertaking to be provided.
Model specific Certification	BIS
Compliance	RoHS, ISO 9001
Keyboard & Mouse	USB Keyboard & USB two button optical Mouse with Mouse Pad (Same make as AIO)
Network Interface	Integrated 10/100/1000 GB Ethernet, Integrated 802.11ac Wi-Fi and Bluetooth 4.0 or higher
Accessories	All necessary cables
Security	2.0 Trusted Platform Module (TPM) (Hardware/Firmware)
Warranty	3 Years comprehensive on-site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

Mid-High-level configuration

A. **Intel i7 with 14th Generation** (Estimated cost Rs.1,00,000/- considering preinstalled Genuine Windows 11 Professional, 16 GB RAM and 1 TB Storage)

Parameter	Generic Technical Specification
Processor	Intel i7, 20 Core or higher, with minimum 2.1 GHz or higher (Base Frequency), 33 MB Cache or higher with 14th or higher Generation and to be Certified by OEM
Chipset	Compatible Chipset
Operating System	1. Pre-installed OEM Certified Genuine Microsoft Windows 11 Professional (64 bit) or higher/ Latest Linux version (to be decided by concerned Dept. as per requirement) 2. Recovery partition (applicable for Windows).
Memory (RAM)	8 GB/ 16 GB DDR5 4400MHz or higher with 64 GB Expandability (As per requirement of Dept. for selection of 8 GB or 16 GB)
Storage	512 GB/ 1 TB SSD *(As per requirement of Dept. for selection of 512 GB or 1 TB)*
Audio	Integrated audio controller with internal Speaker
Ports	Minimum 5 USB ports with at least 2 USB 3.0 or higher ports, HDMI, Display port, Type-C Port, Audio jack for headphone & microphone
Camera	Integrated webcam 2 MP or higher
Display	Minimum 23.8 inch or higher, Resolution 1920x1080 or higher Display
Antivirus	Minimum 3 years subscription of Antivirus with protection for Ransomware, Browsing, Phishing along with OEM undertaking to be provided.
Model specific Certification	BIS
Compliance	RoHS, ISO 9001
Keyboard & Mouse	USB Keyboard & USB two button optical Mouse with Mouse Pad (Same make as AIO)
Network Interface	Integrated 10/100/1000 GB Ethernet, Integrated 802.11ac Wi-Fi and Bluetooth 5.0 or higher
Accessories	All necessary cables
Security	2.0 Trusted Platform Module (TPM) (Hardware/Firmware)
Warranty	3 Years comprehensive on-site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

B. Ryzen 7 with 8000 Series (Estimated cost Rs.1,00,000/- considering pre-installed Genuine Windows 11 Professional, 16 GB RAM and 1 TB Storage)

Parameter	Generic Technical Specification
Processor	8 Core or higher, with minimum 2.1 GHz or higher (Base Frequency), 24 MB Cache or higher with 8000 Series or higher and to be Certified by OEM
Chipset	AMD
Operating System	1. Pre-installed OEM Certified Genuine Microsoft Windows 11 Professional (64 bit) or higher/ Latest Linux version (to be decided by concerned Dept. as per requirement) 2. Recovery partition (applicable for Windows).
Memory (RAM)	8 GB/ 16 GB DDR5 4400MHz or higher with 64 GB Expandability (As per requirement of Dept. for selection of 8 GB or 16 GB)
Storage	512 GB/ 1 TB SSD *(As per requirement of Dept. for selection of 512 GB or 1 TB)*
Audio	Integrated audio controller with internal Speaker
Ports	Minimum 5 USB ports with at least 2 USB 3.0 or higher ports, HDMI, Display port, Type-C Port, Audio jack for headphone & microphone
Camera	Integrated webcam 2 MP or higher
Display	Minimum 23.8 inch or higher, Resolution 1920x1080 or higher Display
Antivirus	Minimum 3 years subscription of Antivirus with protection for Ransomware, Browsing, Phishing along with OEM undertaking to be provided.
Model specific Certification	BIS
Compliance	RoHS, ISO 9001
Keyboard & Mouse	USB Keyboard & USB two button optical Mouse with Mouse Pad (Same make as AIO)
Network Interface	Integrated 10/100/1000 GB Ethernet, Integrated 802.11ac Wi-Fi and Bluetooth 5.0 or higher
Accessories	All necessary cables
Security	2.0 Trusted Platform Module (TPM) (Hardware/Firmware)
Warranty	3 Years comprehensive on-site OEM warranty

Note: Any deviation/ alteration/ modification in the specification will not be considered valid.

C. **Intel i7 with 13th Generation** (Estimated cost Rs.90,000/- considering pre-installed Genuine Windows 11 Professional, 16 GB RAM and 1 TB Storage)

Parameter	Generic Technical Specification
Processor	Intel i7, 8 Core or higher, with minimum 2.1 GHz or higher (Base Frequency), 20 MB Cache or higher with 13th or higher Generation and to be Certified by OEM
Chipset	Compatible Chipset
Operating System	1. Pre-installed OEM Certified Genuine Microsoft Windows 11 Professional (64 bit) or higher/ Latest Linux version (to be decided by concerned Dept. as per requirement) 2. Recovery partition (applicable for Windows).
Memory (RAM)	8 GB/ 16 GB DDR4 3200MHz or higher with 64 GB Expandability (As per requirement of Dept. for selection of 8 GB or 16 GB)
Storage	512 GB/ 1 TB SSD *(As per requirement of Dept. for selection of 512 GB or 1 TB)*
Audio	Integrated audio controller with internal Speaker
Ports	Minimum 5 USB ports with at least 2 USB 3.0 or higher ports, HDMI, Display port, Type-C Port, Audio jack for headphone & microphone
Camera	Integrated webcam 2 MP or higher
Display	Minimum 23.8 inch or higher, Resolution 1920x1080 or higher Display
Antivirus	Minimum 3 years subscription of Antivirus with protection for Ransomware, Browsing, Phishing along with OEM undertaking to be provided.
Model specific Certification	BIS
Compliance	RoHS, ISO 9001
Keyboard & Mouse	USB Keyboard & USB two button optical Mouse with Mouse Pad (Same make as AIO)
Network Interface	Integrated 10/100/1000 GB Ethernet, Integrated 802.11ac Wi-Fi and Bluetooth 4.0 or higher
Accessories	All necessary cables
Security	2.0 Trusted Platform Module (TPM) (Hardware/Firmware)
Warranty	3 Years comprehensive on-site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

D. Ryzen 7 with 5000 Series (Estimated cost Rs.90,000/- considering pre-installed Genuine Windows 11 Professional, 16 GB RAM and 1 TB Storage)

Parameter	Generic Technical Specification
Processor	8 Core or higher, with minimum 2.1 GHz or higher (Base Frequency), 20 MB Cache or higher with 5000 Series or higher and to be Certified by OEM
Chipset	AMD
Operating System	1. Pre-installed OEM Certified Genuine Microsoft Windows 11 Professional (64 bit) or higher/ Latest Linux version (to be decided by concerned Dept. as per requirement) 2. Recovery partition (applicable for Windows).
Memory (RAM)	8 GB/ 16 GB DDR4 3200MHz or higher with 32/ 64 GB Expandability (As per requirement of Dept. for selection of 8 GB or 16 GB)
Storage	512 GB/ 1 TB SSD *(As per requirement of Dept. for selection of 512 GB or 1 TB)*
Audio	Integrated audio controller with internal Speaker
Ports	Minimum 5 USB ports with at least 2 USB 3.0 or higher ports, HDMI, Display port, Type-C Port, Audio jack for headphone & microphone
Camera	Integrated webcam 2 MP or higher
Display	Minimum 23.8 inch or higher, Resolution 1920x1080 or higher Display
Antivirus	Minimum 3 years subscription of Antivirus with protection for Ransomware, Browsing, Phishing along with OEM undertaking to be provided.
Model specific Certification	BIS
Compliance	RoHS, ISO 9001
Keyboard & Mouse	USB Keyboard & USB two button optical Mouse with Mouse Pad (Same make as AIO)
Network Interface	Integrated 10/100/1000 GB Ethernet, Integrated 802.11ac Wi-Fi and Bluetooth 4.0 or higher
Accessories	All necessary cables
Security	2.0 Trusted Platform Module (TPM) (Hardware/Firmware)
Warranty	3 Years comprehensive on-site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

Category 3. Laptop computer

Entry level configuration

A. **Intel i3** (Estimated cost Rs.50,000/- considering pre-installed Genuine Windows 11 Professional, 16 GB RAM and 512 GB Hard Drive)

Parameter	Generic Technical Specification
Processor	Intel i3, Minimum 4 core or higher, 10 MB Cache or higher with 13th or higher Generation and to be Certified by OEM
Operating System	1. Pre-installed OEM Certified Genuine Microsoft Windows 11 Professional (64 bit) or higher/ Latest Linux version (to be decided by concerned Dept. as per requirement) 2. Recovery partition (applicable for Windows).
Display	14" HD (1366 × 768 HD display)/ Full HD Display (1920 × 1080 FHD display)
Memory (RAM)	8 GB/ 16 GB DDR4 or higher with 32/ 64 GB Expandability (As per requirement of Dept. for selection of 8 GB or 16 GB)
Hard Drive	256 GB/ 512 GB (As per requirement of Dept. for selection of 256 GB or 512 GB)
Speaker & Microphone	Inbuilt speakers and integrated digital microphone
Connection Type	Min 2 USB 3.0 Type A or higher, USB 3.0 Type C or higher, 1 Headphone/ Microphone combo/ separate, HDMI 1.4 port or higher
Network card	Integrated 10/100/1000 GB Ethernet
Wireless Connectivity	Bluetooth 4.0 or above & integrated Wi-Fi 802.11 b/g/n or higher
Web Cam	Integrated HD Web Camera (Front facing)
Battery	Minimum 40Whr
Power Adapter	Standard power adapter
Antivirus	Minimum 3 years subscription of Antivirus with protection for Ransomware, Browsing, Phishing along with OEM undertaking to be provided.
Model specific Certification	BIS
Compliance	RoHS, ISO 9001
Accessories	Carry Bag
Warranty	3 Years comprehensive on site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

B. Ryzen 3 (Estimated cost Rs.50,000/- considering pre-installed Genuine Windows 11 Professional, 16 GB RAM and 512 GB Hard Drive)

Parameter	Generic Technical Specification
Processor	Minimum 4 core or higher, 10 MB Cache or higher 7330 Series or higher and minimum 2.30 GHz or higher (Base Frequency) to be Certified by OEM
Operating System	1. Pre-installed OEM Certified Genuine Microsoft Windows 11 Professional (64 bit) or higher/ Latest Linux version (to be decided by concerned Dept. as per requirement) 2. Recovery partition (applicable for Windows).
Display	14" HD (1366 × 768 HD display)/ Full HD Display (1920 × 1080 FHD display)
Memory (RAM)	8 GB/ 16 GB DDR4 or higher with 32/ 64 GB Expandability (As per requirement of Dept. for selection of 8 GB or 16 GB)
Hard Drive	256 GB/ 512 GB (As per requirement of Dept. for selection of 256 GB or 512 GB)
Speaker & Microphone	Inbuilt speakers and integrated digital microphone
Connection Type	Min 2 USB 3.0 Type A or higher, USB 3.0 Type C or higher, 1 Headphone/ Microphone combo/ separate, HDMI 1.4 port or higher
Network card	Integrated 10/100/1000 GB Ethernet
Wireless Connectivity	Bluetooth 4.0 or above & integrated Wi-Fi 802.11 b/g/n or higher
Web Cam	Integrated HD Web Camera (Front facing)
Battery	Minimum 40Whr
Power Adapter	Standard power adapter
Antivirus	Minimum 3 years subscription of Antivirus with protection for Ransomware, Browsing, Phishing along with OEM undertaking to be provided.
Model specific Certification	BIS
Compliance	RoHS, ISO 9001
Accessories	Carry Bag
Warranty	3 Years comprehensive on site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

Medium level configuration

A. Intel i5 (Estimated cost Rs.70,000/- considering pre-installed Genuine Windows 11 Professional)

Parameter	Generic Technical Specification
Processor	Intel i5, Minimum 4 core or higher, 12 MB Cache or higher 13th or higher Generation and to be Certified by OEM
Operating System	1. Pre-installed OEM Certified Genuine Microsoft Windows 11 Professional (64 bit) or higher/ Latest Linux version (to be decided by concerned Dept. as per requirement) 2. Recovery partition (applicable for Windows).
Display	14" or higher diagonal Full HD Display
Memory (RAM)	16 GB DDR4 or higher expandable up to 32 GB
Hard Drive	512 GB SSD or higher
Speaker & Microphone	Inbuilt speakers and integrated digital microphone
Connection Type	Minimum 2 USB 3.0 or higher, HDMI 1.4, Headphone/ Microphone combo/ separate, 1- USB type c
Network card	Integrated 10/100/1000 GB Ethernet
Wireless Connectivity	Bluetooth 4.0 or above & integrated Wi-Fi 802.11 b/g/n or higher
Web Cam	Integrated HD Web Camera (Front facing)
Battery	Minimum 40Whr
Power Adapter	Standard power adapter
Antivirus	Minimum 3 years subscription of Antivirus with protection for Ransomware, Browsing, Phishing along with OEM undertaking to be provided.
Model specific Certification	BIS
Compliance	RoHS, ISO 9001
Accessories	Carry Bag
Warranty	3 Years comprehensive on site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

B. **Ryzen 5** (Estimated cost Rs.70,000/- considering pre-installed Genuine Windows 11 Professional

Parameter	Generic Technical Specification
Processor	Minimum 6 core or higher, 18 MB Cache or higher 7530 Series or higher and minimum 2.00 GHz or higher (Base Frequency) and to be Certified by OEM
Operating System	1. Pre-installed OEM Certified Genuine Microsoft Windows 11 Professional (64 bit) or higher/ Latest Linux version (to be decided by concerned Dept. as per requirement) 2. Recovery partition (applicable for Windows).
Display	14" or higher diagonal Full HD Display
Memory (RAM)	16 GB DDR4 or higher expandable up to 32 GB
Hard Drive	512 GB SSD or higher
Speaker & Microphone	Inbuilt speakers and integrated digital microphone
Connection Type	Minimum 2 USB 3.0 or higher, HDMI 1.4, Headphone/ Microphone combo/ separate, 1- USB type c
Network card	Integrated 10/100/1000 GB Ethernet
Wireless Connectivity	Bluetooth 4.0 or above & integrated Wi-Fi 802.11 b/g/n or higher
Web Cam	Integrated HD Web Camera (Front facing)
Battery	Minimum 40Whr
Power Adapter	Standard power adapter
Antivirus	Minimum 3 years subscription of Antivirus with protection for Ransomware, Browsing, Phishing along with OEM undertaking to be provided.
Model specific Certification	BIS
Compliance	RoHS, ISO 9001
Accessories	Carry Bag
Warranty	3 Years comprehensive on site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

Mid-High-level configuration

A. Intel i7 (Estimated cost Rs.75,000/- considering pre-installed Genuine Windows 11 Professional)

Parameter	Generic Technical Specification
Processor	Intel i7, Minimum 8 core or higher, 12 MB Cache or higher 13th or higher Generation and to be Certified by OEM
Operating System	1. Pre-installed OEM Certified Genuine Microsoft Windows 11 Professional (64 bit) or higher/ Latest Linux version (to be decided by concerned Dept. as per requirement) 2. Recovery partition (applicable for Windows).
Display	14" or higher diagonal Full HD Display
Memory (RAM)	16 GB DDR4 or higher expandable up to 32 GB
Hard Drive	1 TB SSD or higher
Speaker & Microphone	Inbuilt speakers and integrated digital microphone
Connection Type	Minimum 2 USB 3.0 or higher, HDMI 1.4, Headphone/ Microphone combo/ separate, 1- USB type c
Network card	Integrated 10/100/1000 GB Ethernet
Wireless Connectivity	Bluetooth 4.0 or above & integrated Wi-Fi 802.11 b/g/n or higher
Web Cam	Integrated HD Web Camera (Front facing)
Battery	Minimum 40Whr
Power Adapter	Standard power adapter
Antivirus	Minimum 3 years subscription of Antivirus with protection for Ransomware, Browsing, Phishing along with OEM undertaking to be provided.
Model specific Certification	BIS
Compliance	RoHS, ISO 9001
Accessories	Carry Bag
Warranty	3 Years comprehensive on site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

B. Ryzen 7 (Estimated cost Rs.75,000/- considering pre-installed Genuine Windows 11 Professional)

Parameter	Generic Technical Specification
Processor	Minimum 8 core or higher, 20 MB Cache or higher 7730 Series or higher and minimum 2.00 GHz or higher (Base Frequency) and to be Certified by OEM
Operating System	1. Pre-installed OEM Certified Genuine Microsoft Windows 11 Professional (64 bit) or higher/ Latest Linux version (to be decided by concerned Dept. as per requirement) 2. Recovery partition (applicable for Windows).
Display	14" or higher diagonal Full HD Display
Memory (RAM)	16 GB DDR4 or higher expandable up to 32 GB
Hard Drive	1 TB SSD or higher
Speaker & Microphone	Inbuilt speakers and integrated digital microphone
Connection Type	Minimum 2 USB 3.0 or higher, HDMI 1.4, Headphone/ Microphone combo/ separate, 1- USB type c
Network card	Integrated 10/100/1000 GB Ethernet
Wireless Connectivity	Bluetooth 4.0 or above & integrated Wi-Fi 802.11 b/g/n or higher
Web Cam	Integrated HD Web Camera (Front facing)
Battery	Minimum 40Whr
Power Adapter	Standard power adapter
Antivirus	Minimum 3 years subscription of Antivirus with protection for Ransomware, Browsing, Phishing along with OEM undertaking to be provided.
Model specific Certification	BIS
Compliance	RoHS, ISO 9001
Accessories	Carry Bag
Warranty	3 Years comprehensive on site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

Category 4. Thin Client
(Estimated cost Rs. 25,000/-)

Parameter	Generic Technical Specification
Processor	Intel/AMD Dual Core or higher Processor, minimum 2.0 GHz with 4 MB or Higher Cache
Mother Board	Compatible Chipset
Graphic	HD Graphic
Memory (RAM)	4 GB DDR4 RAM or higher, 2400 MHz or Higher upgradable 16 GB
Storage	256 GB SSD or Higher
Display	21.5-inch (or higher) HD Color Monitor with1920 * 1080 or Higher resolution
Keyboard-Mouse	USB Keyboard (104 Keys) & Optical Scroll Mouse with mouse pad
Accessories	All necessary cables (power and data cables), Vesa kit for wall mounting
I/O Port	Minimum 4 USB (Min 2x3.0) ports, HDMI, Universal Audio Port/ Mic in-Speaker Out Port with extension to support two headphone
Network and connectivity	1 G LAN Ethernet, Integrated 5 G Dual band Wi-Fi
Features	Capable to work on RDP protocol as independent system
Operating System	Preloaded latest Linux version with connection broker Citrix or VMware
Preloaded software	(1) Open office latest version (2) Adobe Acrobat Reader
Model specific Certification	BIS
Compliance	ROHS, ISO 9001
Warranty	3 years comprehensive on-site warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

Category 5. Printer

Entry Level Configuration

A. Laser - 18 PPM (Estimated cost Rs.10,000/-)

Parameter	Generic Technical Specification
Functions	Print
Printing technology	Laser
Paper size	A4 or higher
Print Speed (Minimum)	18 PPM (Mono) or higher
Print Resolution	600 x 600 dpi or higher
Duplex	Manual Duplex
Connectivity	Hi-Speed USB 2.0 port
Duty Cycle (Monthly)	5000 pages or higher
Memory	16 MB or higher
Input paper tray capacity	100 pages or higher
Compatible OS	Windows and Linux
Cables/ Accessories	All the required cables, accessories
Software Media	Driver & Utility software
Model specific Certifications	BIS
Compliance	RoHS, ISO 9001
Warranty	3 Years comprehensive on site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

B. InkTank - 18PPM (Estimated cost Rs. 10,000/-)

Parameter	Generic Technical Specification
Functions	Print
Printing technology	InkTank (Bottle/ Pouch Based)
Paper size	A4 or higher
Print Speed (Minimum)	18 PPM (Mono) or higher
Print Resolution	600 x 600 dpi or higher
Duplex	Manual Duplex
Connectivity	Hi-Speed USB 2.0 port
Duty Cycle (Monthly)	5000 pages or higher
Memory	16 MB or higher
Input paper tray capacity	100 pages or higher
Compatible OS	Windows and Linux
Cables/ Accessories	All the required cables, accessories
Software Media	Driver & Utility software
Model specific Certifications	BIS
Compliance	RoHS, ISO 9001
Warranty	3 Years comprehensive on site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

C. Laser - 18 PPM (Estimated cost Rs. 15,000/-)

Parameter	Generic Technical Specification
Functions	Print
Printing technology	Laser
Paper size	A4 or higher
Print Speed (Minimum)	18 PPM (Mono) or higher
Print Resolution	600 x 600 dpi or higher
Duplex	Auto
Connectivity	Hi-Speed USB 2.0 port, Wi-Fi
Duty Cycle (Monthly)	5000 pages or higher
Memory	32 MB or higher
Input paper tray capacity	100 pages or higher
Compatible OS	Windows and Linux
Cables/ Accessories	All the required cables, accessories
Software Media	Driver & Utility software
Model specific Certifications	BIS
Compliance	RoHS, ISO 9001
Warranty	3 Years comprehensive on site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

D. InkTank - 18 PPM (Estimated cost Rs.15,000/-)

Parameter	Generic Technical Specification
Functions	Print
Printing technology	InkTank (Bottle/ Pouch Based)
Paper size	A4 or higher
Print Speed (Minimum)	18 PPM (Mono) or higher
Print Resolution	600 x 600 dpi or higher
Duplex	Auto
Connectivity	Hi-Speed USB 2.0 port, Wi-Fi
Duty Cycle (Monthly)	5000 pages or higher
Memory	32 MB or higher
Input paper tray capacity	100 pages or higher
Compatible OS	Windows and Linux
Cables/ Accessories	All the required cables, accessories
Software Media	Driver & Utility software
Model specific Certifications	BIS
Compliance	RoHS, ISO 9001
Warranty	3 Years comprehensive on site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

E. Laser - 18 PPM with Wi-Fi & Ethernet (Estimated cost Rs. 20,000/-)

Parameter	Generic Technical Specification
Functions	Print
Printing technology	Laser
Paper size	A4 or higher
Print Speed (Minimum)	18 PPM (Mono) or higher
Print Resolution	600 x 600 dpi or higher
Duplex	Auto
Connectivity	Hi-Speed USB 2.0 port, Wi-Fi, Ethernet
Duty Cycle (Monthly)	8000 pages or higher
Memory	64 MB or higher
Input paper tray capacity	100 pages or higher
Compatible OS	Windows and Linux
Cables/ Accessories	All the required cables, accessories
Software Media	Driver & Utility software
Model specific Certifications	BIS
Compliance	RoHS, ISO 9001
Warranty	3 Years comprehensive on site OEM warranty

Note: Any deviation/ alteration/ modification in the specification will not be considered valid.

F. InkTank 18 PPM with Wi-Fi & Ethernet (Estimated cost Rs.20,000/-)

Parameter	Generic Technical Specification
Functions	Print
Printing technology	InkTank (Bottle/ Pouch Based)
Paper size	A4 or higher
Print Speed (Minimum)	18 PPM (Mono) or higher
Print Resolution	600 x 600 dpi or higher
Duplex	Auto
Connectivity	Hi-Speed USB 2.0 port, Wi-Fi, Ethernet
Duty Cycle (Monthly)	8000 pages or higher
Memory	64 MB or higher
Input paper tray Capacity	100 pages or higher
Compatible OS	Windows and Linux
Cables/ Accessories	All the required cables, accessories
Software Media	Driver & Utility software
Model specific Certifications	BIS
Compliance	RoHS, ISO 9001
Warranty	3 Years comprehensive on site OEM warranty

Note: Any deviation/ alteration/ modification in the specification will not be considered valid.

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Medium Level Configuration

A. Laser - 25 PPM (Estimated cost Rs.20,000/-)

Parameter	Generic Technical Specification
Functions	Print
Printing technology	Laser
Paper size	A4, Legal or higher
Print Speed (Minimum)	25 PPM (Mono) or higher
Print Resolution	600 x 600 dpi or higher
Duplex	Auto
Connectivity	Hi-Speed USB 2.0 port or higher
Duty Cycle (Monthly)	10000 pages or higher
Memory	128 MB or higher
Input paper tray capacity	150 pages or higher
Compatible OS	Windows and Linux
Cables/ Accessories	All the required cables, accessories
Software Media	Driver & Utility software
Model specific Certifications	BIS
Compliance	RoHS, ISO 9001
Warranty	3 Years comprehensive on site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

B. InkTank - 25 PPM (Estimated cost Rs.20,000/-)

Parameter	Generic Technical Specification
Functions	Print
Printing technology	InkTank (Bottle/ Pouch Based)
Paper size	A4, Legal or higher
Print Speed (Minimum)	25 PPM (Mono) or higher
Print Resolution	600 x 600 dpi or higher
Duplex	Auto
Connectivity	Hi-Speed USB 2.0 port or higher
Duty Cycle (Monthly)	10000 pages or higher
Memory	128 MB or higher
Input paper tray capacity	150 pages or higher
Compatible OS	Windows and Linux
Cables/ Accessories	All the required cables, accessories
Software Media	Driver & Utility software
Model specific Certifications	BIS
Compliance	RoHS, ISO 9001
Warranty	3 Years comprehensive on site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

C. Laser - 25 PPM with Wi-Fi & Ethernet (Estimated cost Rs.25,000/-)

Parameter	Generic Technical Specification
Functions	Print
Printing technology	Laser
Paper size	A4, Legal or higher
Print Speed (Minimum)	25 PPM (Mono) or higher
Print Resolution	600 x 600 dpi or higher
Duplex	Auto
Connectivity	Hi-Speed USB 2.0 port or higher, Wi-Fi, Ethernet
Duty Cycle (Monthly)	10000 pages or higher
Memory	128 MB or higher
Input paper tray capacity	150 pages or higher
Compatible OS	Windows and Linux
Cables/ Accessories	All the required cables, accessories
Software Media	Driver & Utility software
Model specific Certifications	BIS
Compliance	RoHS, ISO 9001
Warranty	3 Years comprehensive on site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

D. InkTank - 25 PPM (Estimated cost Rs.25,000/-)

Parameter	Generic Technical Specification
Functions	Print
Printing technology	InkTank (Bottle/ Pouch Based)
Paper size	A4, Legal or higher
Print Speed (Minimum)	25 PPM (Mono) or higher
Print Resolution	600 x 600 dpi or higher
Duplex	Auto
Connectivity	Hi-Speed USB 2.0 port or higher, Wi-Fi, Ethernet
Duty Cycle (Monthly)	10000 pages or higher
Memory	128 MB or higher
Input paper tray capacity	150 pages or higher
Compatible OS	Windows and Linux
Cables/ Accessories	All the required cables, accessories
Software Media	Driver & Utility software
Model specific Certifications	BIS
Compliance	RoHS, ISO 9001
Warranty	3 Years comprehensive on site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

Mid-High-Level Configuration

A. Laser - 30 PPM (Estimated cost Rs. 30,000/-)

Parameter	Generic Technical Specification
Functions	Print
Printing technology	Laser
Paper size	A4, Legal or higher
Print Speed (Minimum)	30 PPM (Mono) or higher
Print Resolution	600 x 600 dpi or higher
Duplex	Auto
Connectivity	Hi-Speed USB 2.0 port or higher, Wi-Fi, Ethernet
Duty Cycle (Monthly)	10000 pages or higher
Memory	256 MB or higher
Input paper tray capacity	200 pages or higher
Compatible OS	Windows and Linux
Cables/ Accessories	All the required cables, accessories
Software Media	Driver & Utility software
Model specific Certifications	BIS
Compliance	RoHS, ISO 9001
Warranty	3 Years comprehensive on site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

B. InkTank - 30 PPM (Estimated cost Rs.30,000/-)

Parameter	Generic Technical Specification
Functions	Print
Printing technology	InkTank (Bottle/ Pouch Based)
Paper size	A4, Legal or higher
Print Speed (Minimum)	30 PPM (Mono) or higher
Print Resolution	600 x 600 dpi or higher
Duplex	Auto
Connectivity	Hi-Speed USB 2.0 port or higher, Wi-Fi, Ethernet
Duty Cycle (Monthly)	10000 pages or higher
Memory	256 MB or higher
Input paper tray capacity	200 pages or higher
Compatible OS	Windows and Linux
Cables/ Accessories	All the required cables, accessories
Software Media	Driver & Utility software
Model specific Certifications	BIS
Compliance	RoHS, ISO 9001

Warranty	3 Years comprehensive on site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

C. Colour Printer Laser - 20 PPM (Estimated cost Rs. 30,000/-)

Parameter	Generic Technical Specification
Printing Technology	Laser
Printing Function	Print
Type of Printing	Colour
Duplex	Auto
Paper Size	A4, Legal
Print Speed (A4) Mono	20 PPM or higher
Print Speed (A4) color	20 PPM or higher
Print Resolution	600x600 Dpi or higher
Memory	256 MB or higher
Network Connectivity	USB, Ethernet, Wi-Fi
Cartridges	Black &Color Cartridges per install
Paper Tray Capacity (A4)	150 pages or higher
Duty Cycle (Monthly)	8000 pages or higher
Software media	Driver & Utility Software
Compatible Operating System	Windows, Linux, Mac OS.
Accessories	All necessary cables (Power & Communication)
Model specific Certification	BIS
Compliance	ROHS, ISO 9001
Warranty	3 Years comprehensive on site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

D. Dot Matrix Printer (DMP) (Estimated cost Rs. 18,000/-)

Parameter	Generic Technical Specifications
Pin	9 Pin
Columns	80 Column
High Speed Draft	500 CP Sat High Speed, Draft, 12 CPI or higher
Draft	300 CP Sat Draft, 10 CPI
Copies	1+4
Interface	Parallel and USB (Both USB and parallel cables along with accessories to be provided)
Input Buffer	100 KB or higher
Drivers	Windows/ Linux through website
Print Head Life	Min. 200 million character or better
MTBF (hrs. at 25% of duty cycle)	20000 POH or higher

Ribbon (Million Characters)	Min.7.5 or higher
MTBF (POH) @ 25% duty cycle)	Min.15,000
Accessories	All Accessories cables (Power and Data Cable) to be included
Warranty	3 years comprehensive on-site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

E. Dot Matrix Printer 80 Column: (Overall estimated cost Rs. 25,000/-)

Features	Specification
Printer type	Dot Matrix Printer
Pins	24 pins
Column	80 column or higher
Print speed in 12 CPI HSD	400 CPS or higher
Print speed in 10 CPI HSD	340 CPS or higher
Print speed in 10 CPI Draft	250 CPS or higher
Built in Barcode fonts	Yes. 8 built in barcode fonts
Built in Indian Language Fonts	YES
Paper path	Rear and Top Rear in, Top out
Copy capability	Min. 1+3 copies
Input Data Buffer	128 KB or higher
Standard Interface	Parallel, USB 2.0 and Serial
Ribbon Life	3 Million characters
Print Head Life	400 Mn strokes / pin
MTBF	10000 PoH
Acoustic Noise	53 DB
Operating System support	Windows and Linux
Model specific Certifications	BIS
Compliance	RoHS, ISO 9001
Warranty	3 Years OEM onsite warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

F. Dot Matrix Printer 136 Column: (Overall estimated cost Rs. 45,000/-)

Features	Specification
Printer type	Dot Matrix Printer
Pins	24 pins
Column	136 column or higher
Print speed in 12 CPI HSD	400 CPS or higher
Print speed in 10 CPI HSD	340 CPS or higher
Print speed in 10 CPI Draft	250 CPS or higher

Built in Barcode fonts	Yes. 8 built in barcode fonts
Built in Indian Language Fonts	YES
Paper path	Rear and Top Rear in, Top out
Copy capability	Min. 1+3 copies
Input Data Buffer	128 KB or higher
Standard Interface	Parallel, USB 2.0 and Serial
Ribbon Life	3 Million characters
Print Head Life	400 Mn strokes / pin
MTBF	10000 PoH
Acoustic Noise	53 DB
Operating System support	Windows and Linux
Model specific Certifications	BIS
Compliance	RoHS, ISO 9001
Warranty	3 Years OEM onsite warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

G. Barcode Printer (Estimated cost Rs. 12,000/-)

Parameter	Generic Technical Specification
Printing Technology	Thermal Transfer
Print Speed	2 IPS or higher
Print Width	100mm (4.09") or higher
Print Length	991mm (39.33") or higher
Ribbon Length	Minimum 300 Mtr.
Ribbon	Automatic Ribbon Control & Positioning System
Label Sensor Type	Fully Adjustable Sensor with Label gap, card notch & reflective black mark
Label Roll Capacity	Internal- 125 mm OD
Memory	Flash -2MB, DRAM-6 MB
Interface	RS-232/ Centronics Parallel Port, USB
Bar Code	1D Barcodes: Min.12standard barcodes 22D Barcodes: Min. PDF-417, Maxi code, Data matrix
Media Type	Roll-fed, Fan fold, Continuous, Die cut, black mark, ticket, tag
Media Width	1" to 4.1" with adjustable printing size.
Cables & Interfaces	All necessary cables & interfaces for connectivity to Mains & Computer.
Others	Should come with drivers for Windows, Mac OS
Integration	Easy integration with HIS application
Accessories	All Accessories cables (Power and Data Cable) to be included
Warranty	3 years comprehensive on-site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

Category 6. Multifunctional Printer

Entry Level Configuration

A. Laser -18 PPM (Estimated cost Rs.16,000/-)

Parameter	Generic Technical Specification
Functions	Print, Scan, Copy
Printing Technology	Laser
Print Speed (Minimum)	18 PPM (Mono) or higher
Paper Size	A4 or above
Print Resolution	600 x 600 dpi or higher
Duplex	Manual
Memory	64 MB or higher
Display	Yes
Connectivity	USB/ Ethernet, Wi-Fi
Duty Cycle (Monthly)	5000 pages or higher
Copy Speed	10 PPM or higher
Copy Resolution	600 x 600 dpi or higher
Scan File Format	PDF, JPEG etc.
Scan Resolution	600 x 600 dpi or higher
Scan Type	FLATBED
Input paper tray capacity	150 pages or higher
Compatible OS	Windows and Linux
Cables/ Accessories	All the required cables, accessories
Software Media	Driver & Utility software
Model specific Model specific Certifications	BIS
Compliance	RoHS, ISO 9001, ISO 9001
Warranty	3 years comprehensive on-site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

B. InkTank -18 PPM (Estimated cost Rs.16,000/-)

Parameter	Generic Technical Specification
Functions	Print, Scan, Copy
Printing Technology	InkTank (Bottle/ Pouch Based)
Print Speed (Minimum)	18 PPM (Mono) or higher
Paper Size	A4 or above
Print Resolution	600 x 600 dpi or higher
Duplex	Manual
Memory	64 MB or higher

Display	Yes
Connectivity	USB/ Ethernet, Wi-Fi
Duty Cycle (Monthly)	5000 pages or higher
Copy Speed	10 PPM or higher
Copy Resolution	600 x 600 dpi or higher
Scan File Format	PDF, JPEG etc.
Scan Resolution	600 x 600 dpi or higher
Scan Type	FLATBED
Input paper tray capacity	150 pages or higher
Compatible OS	Windows and Linux
Cables/ Accessories	All the required cables, accessories
Software Media	Driver & Utility software
Model specific Model specific Certifications	BIS
Compliance	RoHS, ISO 9001, ISO 9001
Warranty	3 years comprehensive on-site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

C. Laser - 20 PPM (Estimated cost Rs.17,000/-)

Parameter	Generic Technical Specification
Functions	Print, Scan, Copy
Printing Technology	Laser
Print Speed (Minimum)	20 PPM (Mono) or higher
Paper Size	A4 or above
Print Resolution	600 x 600 dpi or higher
Duplex	Manual
Memory	64 MB or higher
Display	Yes
Connectivity	USB/ Ethernet, Wi-Fi
Duty Cycle (Monthly)	5000 pages or higher
Copy Speed	10 PPM or higher
Copy Resolution	600 x 600 dpi or higher
Scan File Format	PDF, JPEG etc.
Scan Resolution	600 x 600 dpi or higher
Scan Type	FLATBED
Input paper tray capacity	150 pages or higher
Compatible OS	Windows and Linux
Cables/ Accessories	All the required cables, accessories
Software Media	Driver & Utility software

Model specific Certifications	BIS
Compliance	RoHS, ISO 9001
Warranty	3 years comprehensive on-site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

D. InkTank - 20 PPM (Estimated cost Rs.17,000/-**)**

Parameter	Generic Technical Specification
Functions	Print, Scan, Copy
Printing Technology	InkTank (Bottle/ Pouch Based)
Print Speed (Minimum)	20 PPM (Mono) or higher
Paper Size	A4 or above
Print Resolution	600 x 600 dpi or higher
Duplex	Manual
Memory	64 MB or higher
Display	Yes
Connectivity	USB/ Ethernet, Wi-Fi
Duty Cycle (Monthly)	5000 pages or higher
Copy Speed	10 PPM or higher
Copy Resolution	600 x 600 dpi or higher
Scan File Format	PDF, JPEG etc.
Scan Resolution	600 x 600 dpi or higher
Scan Type	FLATBED
Input paper tray capacity	150 pages or higher
Compatible OS	Windows and Linux
Cables/ Accessories	All the required cables, accessories
Software Media	Driver & Utility software
Model specific Certifications	BIS
Compliance	RoHS, ISO 9001
Warranty	3 years comprehensive on-site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

Medium Level Configuration

A. Laser 25 PPM (Estimated cost Rs.25,000/-)

Parameter	Generic Technical Specification
Functions	Print, Scan, Copy
Printing Technology	Laser
Print Speed (Minimum)	25 PPM (Mono) or higher
Paper Size	A4 or above
Print Resolution	600 x 600 dpi or higher
Duplex	Auto
Memory	64 MB or higher
Display	Yes
Connectivity	USB, Ethernet, Wi-Fi
Duty Cycle (Monthly)	8000 pages or higher
Copy Speed	10 PPM or higher
Copy Resolution	600 x 600 dpi or higher
Scan File Format	PDF, JPEG etc.
Scan Resolution	600 x 600 dpi or higher
Scan Type	FLATBED with ADF/ DADF or better
Input paper tray capacity	150 pages or higher
Compatible OS	Windows and Linux
Cables/ Accessories	All the required cables, accessories
Software Media	Driver & Utility software
Model specific Certifications	BIS
Compliance	RoHS, ISO 9001
Warranty	3 years comprehensive on-site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

B. InkTank - 25 PPM (Estimated cost Rs. 25,000/-)

Parameter	Generic Technical Specification
Functions	Print, Scan, Copy
Printing Technology	InkTank (Bottle/ Pouch Based)
Print Speed (Minimum)	25 PPM (Mono) or higher
Paper Size	A4 or above
Print Resolution	600 x 600 dpi or higher
Duplex	Auto
Memory	64 MB or higher
Display	Yes
Connectivity	USB, Ethernet, Wi-Fi

Duty Cycle (Monthly)	8000 pages or higher
Copy Speed	10 PPM or higher
Copy Resolution	600 x 600 dpi or higher
Scan File Format	PDF, JPEG etc.
Scan Resolution	600 x 600 dpi or higher
Scan Type	FLATBED with ADF/ DADF or better
Input paper tray capacity	150 pages or higher
Compatible OS	Windows and Linux
Cables/ Accessories	All the required cables, accessories
Software Media	Driver & Utility software
Model specific Certifications	BIS
Compliance	RoHS, ISO 9001
Warranty	3 years comprehensive on-site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

C. Laser - 30 PPM (Estimated cost Rs.30,000/-)

Parameter	Generic Technical Specification
Functions	Print, Scan, Copy
Printing Technology	Laser
Print Speed (Minimum)	30 PPM (Mono) or higher
Paper Size	A4 or above
Print Resolution	600 x 600 dpi or higher
Duplex	Auto
Memory	128 MB or higher
Display	Yes
Connectivity	USB, Ethernet, Wi-Fi
Duty Cycle (Monthly)	10000 pages or higher
Copy Speed	10 PPM or higher
Copy Resolution	600 x 600 dpi or higher
Scan File Format	PDF, JPEG etc.
Scan Resolution	600 x 600 dpi or higher
Scan Type	FLATBED with ADF/ DADF or better
Input paper tray capacity	200 pages or higher
Compatible OS	Windows and Linux
Cables/ Accessories	All the required cables, accessories
Software Media	Driver & Utility software
Model specific Certifications	BIS
Compliance	RoHS, ISO 9001
Warranty	3 years comprehensive on-site OEM warranty

Note: Any deviation/ alteration/ modification in the specification will not be considered valid.

D. InkTank - 30 PPM (Estimated cost Rs.30,000/-**)**

Parameter	Generic Technical Specification
Functions	Print, Scan, Copy
Printing Technology	InkTank (Bottle/ Pouch Based)
Print Speed (Minimum)	30 PPM (Mono) or higher
Paper Size	A4 or above
Print Resolution	600 x 600 dpi or higher
Duplex	Auto
Memory	128 MB or higher
Display	Yes
Connectivity	USB, Ethernet, Wi-Fi
Duty Cycle (Monthly)	10000 pages or higher
Copy Speed	10 PPM or higher
Copy Resolution	600 x 600 dpi or higher
Scan File Format	PDF, JPEG etc.
Scan Resolution	600 x 600 dpi or higher
Scan Type	FLATBED with ADF/ DADF or better
Input paper tray capacity	200 pages or higher
Compatible OS	Windows and Linux
Cables/ Accessories	All the required cables, accessories
Software Media	Driver & Utility software
Model specific Certifications	BIS
Compliance	RoHS, ISO 9001
Warranty	3 years comprehensive on-site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

Mid-High-Level Configuration

A. Laser - 35 PPM (Estimated cost Rs.40,000/-)

Parameter	Generic Technical Specification
Functions	Print, Scan, Copy
Printing Technology	Laser
Print Speed (Minimum)	35 PPM (Mono) or higher
Paper Size	A4, Legal or above
Print Resolution	600 x 600 dpi or higher
Duplex	Auto
Memory	256 MB or higher
Display	Yes
Connectivity	USB, Ethernet, Wi-Fi
Duty Cycle (Monthly)	20000 pages or higher
Copy Speed	10 PPM or higher
Copy Resolution	600 x 600 dpi or higher
Scan File Format	PDF, JPEG etc.
Scan Resolution	600 x 600 dpi or higher
Scan Type	FLATBED with ADF/ DADF or better
Input paper tray capacity	200 pages or higher
Compatible OS	Windows and Linux
Cables/ Accessories	All the required cables, accessories
Software Media	Driver & Utility software
Model specific Certifications	BIS
Compliance	RoHS, ISO 9001
Warranty	3 years comprehensive on-site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

B. InkTank - 35 PPM (Estimated cost Rs.40,000/-)

Parameter	Generic Technical Specification
Functions	Print, Scan, Copy
Printing Technology	InkTank (Bottle/ Pouch Based)
Print Speed (Minimum)	35 PPM (Mono) or higher
Paper Size	A4 or above
Print Resolution	600 x 600 dpi or higher
Duplex	Auto
Memory	256 MB or higher
Display	Yes
Connectivity	USB, Ethernet, Wi-Fi

Duty Cycle (Monthly)	20000 pages or higher
Copy Speed	10 PPM or higher
Copy Resolution	600 x 600 dpi or higher
Scan File Format	PDF, JPEG etc.
Scan Resolution	600 x 600 dpi or higher
Scan Type	FLATBED with ADF/ DADF or better
Input paper tray capacity	200 pages or higher
Compatible OS	Windows and Linux
Cables/ Accessories	All the required cables, accessories
Software Media	Driver & Utility software
Model specific Certifications	BIS
Compliance	RoHS, ISO 9001
Warranty	3 years comprehensive on-site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

C. A3 Laser - 20 PPM: (Estimated cost Rs. 50,000/-)

Parameter	Generic Technical Specification
Functions	Print, Scan, Copy
Printing Method	Laser Mono
Paper size support	A3 or higher
Print Speed	20 PPM for A4 10 PPM for A3
Print Resolution	600 x 600 dpi or higher
Auto Duplex Print (For A3 and A4 for both)	Yes
Memory	128 MB or higher
Connectivity	USB/ Ethernet
Duty Cycle (Monthly)	5000 pages or higher
Copy Speed	20 PPM or higher
Copy Resolution	600 x 600 dpi or higher
Scan File Format	PDF, JPEG etc.
Scan Type	RADF/ DADF/ SPDF or better
ADF paper tray capacity	40 pages or higher
Scan Resolution	600 x 600 dpi or higher
Input paper tray capacity	Minimum 100 or higher pages
Display	Yes
Compatible operating systems	Windows & Linux
Cables / Accessories	All the required cables, accessories
Software Media	Driver & Utility software
Model specific Certifications	BIS
Compliance	ROHS, ISO 9001
Warranty	3 years comprehensive onsite OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

D. A3 Ink tank - 20 PPM: (Estimated cost Rs. 50,000/-)

Parameters	Generic Technical Specification
Functions	Print, Scan, Copy
Printing Method	Inktank (Bottle/ Pouch Based) Mono
Paper size support	A3 or higher
Print Speed	20 PPM for A4 10 PPM for A3
Print Resolution	600 x 600 dpi or higher
Auto Duplex Print (For A3 and A4 for both)	Yes
Memory	128 MB or higher
Connectivity	USB/ Ethernet
Duty Cycle (Monthly)	5000 pages or higher
Copy Speed	20 PPM or Higher
Copy Resolution	600 x 600 dpi or higher
Scan File Format	PDF, JPEG etc.
Scan Type	RADF/ DADF/ SPDF or better
ADF paper tray capacity	40 pages or higher
Scan Resolution	600 x 600 dpi or higher
Input paper tray capacity	Minimum 100 or higher pages
Display	Yes
Compatible operating systems	Windows & Linux
Cables / Accessories	All the required cables, accessories
Software Media	Driver & Utility software
Model specific Certifications	BIS
Compliance	ROHS, ISO 9001
Warranty	3 years comprehensive onsite OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

MFP Color

A. Color 20 PPM InkTank: (Estimated cost Rs. 45,000/-**)**

Parameter	Generic Technical Specification
Functions	Print, Scan, Copy
Printing Technology	InkTank (Bottle/ Pouch Based)
Print Speed (Mono)	20 PPM or higher
Print Speed (Color)	20 PPM or higher
Paper Size	A4 or above
Print Resolution	600 x 600 dpi or higher
Duplex	Auto

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Memory	64 MB or higher
Display	Yes
Connectivity	USB/ Ethernet, Wi-Fi
Duty Cycle (Monthly)	10000 pages or higher
Copy Speed	10 PPM or higher
Copy Resolution	600 x 600 dpi or higher
Scan File Format	PDF, JPEG etc.
Scan Resolution	600 x 600 dpi or higher
Scan Type	FLATBED with ADF/ DADF or better
Input paper tray capacity	150 pages or higher
Compatible OS	Windows and Linux
Cables/ Accessories	All the required cables, accessories
Software Media	Driver & Utility software
Model specific Certifications	BIS
Compliance	RoHS, ISO 9001
Warranty	3 years comprehensive on-site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

B.   Color 20 PPM Laser: (Estimated cost Rs. 45,000/-**)**

Parameter	Generic Technical Specification
Functions	Print, Scan, Copy
Printing Technology	Laser
Print Speed (Mono)	20 PPM or higher
Print Speed (Color)	20 PPM or higher
Paper Size	A4 or above
Print Resolution	600 x 600 dpi or higher
Duplex	Auto
Memory	64 MB or higher
Display	Yes
Connectivity	USB/ Ethernet, Wi-Fi
Duty Cycle (Monthly)	10000 pages or higher
Copy Speed	10 PPM or higher
Copy Resolution	600 x 600 dpi or higher
Scan File Format	PDF, JPEG etc.
Scan Resolution	600 x 600 dpi or higher
Scan Type	FLATBED with ADF/ DADF or better
Input paper tray capacity	150 pages or higher
Compatible OS	Windows and Linux
Cables/ Accessories	All the required cables, accessories

Software Media	Driver & Utility software
Model specific Certifications	BIS
Compliance	RoHS, ISO 9001
Warranty	3 years comprehensive on-site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

C.   A3 InkTank 20 PPM: (Estimated cost Rs. 55,000/-**)**

Parameters	Generic Technical Specification
Functions	Print, Scan, Copy
Printing Method	Inktank (Bottle/ Pouch Based) Colour & Mono both
Paper size support	A3 or higher
Print Speed	20 PPM (Mono & Colour) for A4 10 PPM (Mono & Colour) for A3
Print Resolution	600 x 600 dpi or higher
Auto Duplex Print (For A3 and A4 for both)	Yes
Memory	128 MB or higher
Connectivity	USB, Ethernet, Wi-Fi
Duty Cycle (Monthly)	5000 pages or higher
Copy Speed	20 PPM or Higher for mono and colour both
Copy Resolution	600 x 600 dpi or higher
Scan File Format	PDF, JPEG etc.
Scan Type	RADF/ DADF/ SPDF or better
ADF paper tray capacity	40 pages or higher
Scan Resolution	600 x 600 dpi or higher
Input paper tray capacity	Minimum 100 or higher pages
Display	Yes
Compatible operating systems	Windows & Linux
Cables / Accessories	All the required cables, accessories
Software Media	Driver & Utility software
Model specific Certifications	BIS
Compliance	ROHS, ISO 9001
Warranty	3 years comprehensive onsite OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

D.   A3 Laser - 20 PPM: (Estimated cost Rs. 55,000/-**)**

Parameter	Generic Technical Specification
Functions	Print, Scan, Copy
Printing Method	Laser Colour & Mono both

Paper size support	A3 or higher
Print Speed	20 PPM (Mono & Colour) for A4 10 PPM (Mono & Colour) for A3
Print Resolution	600 x 600 dpi or higher
Auto Duplex Print (For A3 and A4 for both)	Yes
Memory	128 MB or higher
Connectivity	USB, Ethernet, Wi-Fi
Duty Cycle (Monthly)	5000 pages or higher
Copy Speed	20 PPM or Higher for mono and colour both
Copy Resolution	600 x 600 dpi or higher
Scan File Format	PDF, JPEG etc.
Scan Type	RADF/ DADF/ SPDF or better
ADF paper tray capacity	40 pages or higher
Scan Resolution	600 x 600 dpi or higher
Input paper tray capacity	Minimum 100 or higher pages
Display	Yes
Compatible operating systems	Windows & Linux
Cables / Accessories	All the required cables, accessories
Software Media	Driver & Utility software
Model specific Certifications	BIS
Compliance	ROHS, ISO 9001
Warranty	3 years comprehensive onsite OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

Category 7. Scanner

A. Flatbed Scanner (A4) (Estimated cost Rs. 10,000/-)

Parameter	Generic Technical Specification
Type	Flatbed
Print Resolution	600 x 600 dpi
Light source	RGB LED
Paper size support	A4
Interface	USB
Model specific Certification	BIS
Compliance	ROHS, ISO 9001
Warranty	3 years comprehensive on site OEM warranty
Note: Any deviation / alteration/ modification in the specification will not be considered valid.	

B. Flatbed with ADF Scanner (A4) (Estimated cost Rs. 25,000/-)

Parameter	Generic Technical Specification
Type	Flatbed with ADF
Speed (minimum)	25 PPM or higher
Print Resolution	600 x 600 dpi
Light source	RGB LED
Paper size support	A4, Letter, Legal, Envelop
Duplex paper support	A4 or higher
Interface	USB
Daily Duty cycle (minimum)	1000 scan/ day
ADF feeder capacity (minimum)	50 sheets or higher
Model specific Certification	BIS
Compliance	ROHS, ISO 9001
Warranty	3 years comprehensive on-site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

C. Sheet Feed Scanner (A4/ Legal) (Estimated cost Rs. 30,000/-)

Parameter	Generic Technical Specification
Scanner Type	Sheet Feed Scanner
ADF Capacity	Min. 50 Sheets or higher
Scanning	Simplex, Single Pass Duplex
Paper Size Support	A4, Legal, Letter
Optical resolutions	600 x 600 dpi (Color and Mono Sheet Feed)
Daily Duty Cycle	Approx. 3000 scans per day or higher
Scan Speed	25 PPM or higher
Interface	USB 2.0 or higher

Scan Format	PDF, JPEG/ PNG
Light Source	LED
Accessories	USB Cable, AC adaptor, Power Cable, Setup guide document, Installation software
Model specific Certification	BIS
Compliance	RoHS, ISO 9001
Warranty	3 years comprehensive on-site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

D.   Flatbed Scanner (A3 Size) (Estimated cost Rs. 70,000/-)

Parameter	Generic Technical Specification
Paper size Support	A3, A4, Legal
Scanning Resolution	minimum 600*600 dpi or higher
Interface	USB 2.0
Sensor	Contact Image Sensor (CIS)/ Charge Coupled Device (CCD)
Scan Format	PDF, PDF/ A
Light Source	LED
Operating System Support	Windows/ Linux
Bundled Software Solutions	Industry standard interfaces for connecting software e.g. Windows ISIS/ TWAIN and Mac TWAIN drivers
Accessories	USB Cable, AC adaptor, Power Cable, Setup guide document, Installation software
Model specific Certification	BIS
Compliance	ROHS, ISO 9001
Warranty	3 years comprehensive on-site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

E.   Barcode Scanner (Estimated cost Rs. 6,000/-)

Parameter	Generic Technical Specification
Compatible Devices	Laptops and PC or Mobile / Tablet Devices
Connectivity Technology	USB
Scan Speed	100 scan/ Sec. or higher
Light source	LED/Infrared light/Visible light/laser
Scanner Type	Portable
Model specific Certifications	BIS
Compliance	RoHS, ISO 9001
Warranty	3 years comprehensive on-site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

Category 8. Tablet

A.   Tablet (10 inch-3GB - 32GB) (Estimated cost Rs. 12,000/-**)**

Parameter	Generic Technical Specifications
Display Size (Min.) (Inch)	10 Inch or higher
Display Resolution (Pixels)	1920*1200 or higher
Display Type	IPS/ TFT LCD or equivalent
Brightness (Nits)	350 or higher
Operating System	Android 11.0 or Higher
Connectivity Type	Wi-Fi
Wi-Fi Connectivity Type	802.11 a/b/g/n or higher
Bluetooth Connectivity	5.0 or higher
Processor	Octa Core 2.0 GHz or Higher (Cellular data Support4G/LTE)
RAM Size and type	3 GB LPDDR3 or higher
Internal Storage	32 GB or higher
Location Technology	GPS/ A.GPS
Storage upgradable up to (Through Micro SD Card)	256 GB or higher
Rear Camera	8 MP or higher
Front Camera	5 MP or higher
Battery Capacity (Min.)	7000 mAh or higher
Model specific Certification	BIS
Compliance	ROHS, ISO 9001
Additional Accessories	USB Cable & Charger
Tablet Cover	Compatible Smart cover for TAB, cover should have stand to hold the TAB
Warranty	3 years comprehensive OEM warranty including battery
Declaration on Land Border Clause	Declaration from OEM and Bidder
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

B. Tablet (10.1 inch-6 GB- 128 GB) (Estimated cost Rs.20,000/-**)**

Parameter	Minimum Specification
Type	Touch Screen
Operating System	Android 11.0 or higher
Display Size	10.1 inch or higher
RAM Size	6 GB or higher
Internal Storage	128 GB or higher
Connectivity	Wi-Fi 802.11 a/b/g/n/ac 2.4G&5GHz, Cellular, Bluetooth Ver. 5.0 or higher

Parameter	Generic Technical Specifications
Cellular Data Support	4G/ LTE or higher
Processor	Octa Core with 2.0 GHz or better (MediaTek/ Exynos/ Qualcomm Snapdragon)
Storage upgradable up to	256 GB or higher
Display Resolution	1920x1200 or better (Pixels)
Rear Camera (MP)	8 MP or more
Front Camera (MP)	5 MP or more
Battery Capacity	7000 mAh or higher
Location Technology	GPS & A-GPS
Weight	550gm or less
Model specific Certification	BIS
Compliance	ROHS, ISO 9001
Warranty	3 years comprehensive OEM warranty including battery
Accessories	USB cable and charger

Note: Any deviation/ alteration/ modification in the specification will not be considered valid.

C. **Tablet (8.5 inch- 4 GB ‗ 64 GB) (**Estimated cost Rs.14,000/-**)**

Parameter	Generic Technical Specifications
Display Size (Min.) (Inch)	8.5" Inch or higher
Display Resolution (Pixels)	1340*800 or higher
Display Type	IPS/ TFT LCD or equivalent
Brightness (Nits)	350 or higher
Operating System	Android 13.0 or Higher
Connectivity Type	Wi-Fi & 4G/LTE
Wi-Fi Connectivity Type	802.11 a/b/g/n or higher
Bluetooth Connectivity	5.0 or higher
Processor	Octa Core 2.0 GHz or Higher
RAM Size and type	4 GB LPDDR3 or higher
Internal Storage	64 GB or higher
Location Technology	GPS/ AGPS
Storage upgradable up to (Through Micro SD Card)	256 GB or higher
Rear Camera	8 MP or higher
Front Camera	2 MP or higher
Battery Capacity (Min.)	5000 mAh or higher
Model specific Certification	BIS
Compliance	ROHS, ISO 9001
Additional Accessories	USB Cable & Charger
Warranty	3 years comprehensive OEM warranty including battery

Note:

Any deviation/ alteration/ modification in the specification will not be considered valid.

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Category 9. UPS

A. 1 KVA (Estimated cost Rs. 7,500/-)

Parameter	Generic Technical Specifications
UPS Capacity	1 KVA
Mode	Line interactive
Protection	Full Protection
voltage	230V / 50 Hz
Range	170V- 270V
Power factor	0.6 or higher
Back up time	168 VAH for 20 Minutes back upon 1 PC (In built Batteries)
Indicator	Mains On/ On Battery/ Low Battery/ Fault/ Overload
Plug and cable	As per standard
Battery Type	Sealed Lead Acid Valve Regulated
Alarm	ON Battery/ Fault Overload, Low Battery
Model specific Certifications	BIS
Compliance	ISO 9001
Test report	OEM should submit test report for the quoted model issued by State/ Central laboratory/ NABL accredited labs (not old from last 5 Years)
Warranty	3 Years comprehensive on site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

B. 2 **KVA (**Estimated cost of Rs. 10,000/-**)**

Parameter	Generic Technical Specifications
UPS Capacity	2 KVA
Mode	Line interactive
Protection	Full Protection
voltage	230V/ 50Hz
Range	170V-270V
Power factor	0.6 or higher
Back up time	504 VAH for 30 Minutes back upon 4 PC (In built Batteries)
Indicator	Mains On/ On Battery/ Low Battery/ Fault/ Overload
Plug and cable	As per standard
Battery Type	Sealed Lead Acid Valve Regulated
Alarm	ON Battery/ Fault Overload, Low Battery
Model specific Certifications	BIS
Compliance	ISO 9001
Test report	OEM should submit test report for the quoted model issued by State/ Central laboratory/ NABL accredited labs (not old from last 5 Years)

Warranty	3 Years comprehensive on site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

C. Online UPS 1 KVA (Estimated cost Rs. 20,000/-)

Parameter	Generic Technical Specifications
UPS Capacity	1 KVA
Mode	Online
Protection	Full Protection
voltage	230V/ 50Hz
Range	110V-280V @ < 50% load, 170V -280V @100% load
Power factor	0.8 or higher
Back up time	336 VAH for 30 Minutes back upon 2 PC
Indicator/ Display	Mains On/ On Battery/ Low Battery/ Fault/ Overload
Plug and cable	As per standard
Battery Type	Battery shall be of Sealed Maintenance (SMF) or VRLA type with rack/ tray
Alarm	ON Battery/ Fault Overload, Low Battery
Model specific Certifications	BIS
Compliance	ROHS (Only UPS), ISO 9001
Test report	OEM should submit test report for the quoted model issued by State/ Central laboratory/ NABL accredited labs (not old from last 5 Years)
Warranty	3 Years comprehensive on site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

D. Online UPS 2 KVA (Estimated cost of Rs. 50,000/-**)**

Parameter	Generic Technical Specifications
UPS Capacity	2 KVA
Mode	Online
Protection	Full Protection
voltage	230V/ 50Hz
Range	110V-280V @ < 50% load, 170V -280V @100% load
Power factor	0.8 or higher
Back up time	672 VAH for 30 Minutes back upon 5 PC
Indicator/ Display	Mains On/ On Battery/ Low Battery/ Fault/ Overload
Plug and cable	As per standard
Battery Type	Battery shall be of Sealed Maintenance (SMF) or VRLA type with rack/ tray
Alarm	ON Battery/ Fault Overload, Low Battery

Model specific Certifications	BIS
Compliance	ROHS (Only UPS), ISO 9001
Test report	OEM should submit test report for the quoted model issued by State/ Central laboratory/ NABL accredited labs (not old from last 5 Years)
Warranty	3 Years comprehensive on site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

    E. Online UPS 3 KVA (Estimated cost Rs. 80,000/-**)**

Parameter	Generic Technical Specification
Rated Capacity	3 KVA
Mode	Online
Input Voltage Range (Load <50%)	118~280V (± 5V)
Input Voltage Range (Load >50%)	170~280V (± 5V)
Frequency	50 Hz ± 0.1 Hz
Phase	Single Phase with Ground
Power Factor	> 0.8
Output Voltage Range	208 / 220 / 230 / 240 V AC
Frequency Range (Synchronized Range)	47 ~ 53 Hz or 57 ~ 63 Hz
Frequency Range (Battery Mode)	50 Hz ± 0.1 Hz or 60Hz ± 0.1 Hz
Thd (Linear Load)	<2%
Thd (Non-Linear Load)	<5%
Overload	>110% for 1 Min
	>150% instant turn to Bypass
Crest Factor	3:1 (Max)
Short Circuit Protection	5 cycles turn Off Inverter, no transfer to Bypass, provide Alarm (AC Mode), 5 cycles turn Off Inverter, provide Alarm (Battery Mode), Input Fuse blown or Breaker action
Waveform	Pure Sinewave
TRANSFER TIME (AC Mode To Battery Mode)	ZERO
(Inverter To Bypass)	<4 ms
Efficiency	85%~ 92%
Battery	Battery shall be of Sealed Maintenance (SMF) or VRLA type with minimum 1 Hrs. Battery Backup at full load, ISO 9001 & 14001 Certified with Rack/ Trays
RS232, SNMP (Optional)	RS232, SNMP (Optional)
Model specific Certifications	BIS
Compliance	ROHS (Only UPS), ISO 9001

Test report	OEM should submit test report for the quoted model issued by State/ Central laboratory (not old from last 5 Years),
Warranty	3 years comprehensive on-site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

F. Online UPS 5 KVA (Estimated cost Rs. 1,75,000/-)

Item	Generic Technical Specifications
UPS Capacity	5 KVA
Mode	Online
DC Voltage	Default 192V+, (192 ,240 Settable)
Type	Single phase, IGBT based, true Online UPS
Input	Single phase-three wires, the bidder has to supply equipment as per power supply available
Output	Single phase-three wires
Output Waveform	Sinusoidal
Power Factor	> 0 9
Voltage Regulation	< ±2%
Inverter Efficiency	> 93%
Overload Capability	110% for > 10 Minutes
Total Harmonic distortion (THDI)	<5% at Full load
Transient response	Less than ±10% voltage variation at sudden application/ removal of full load and it shall recover within 20 msec.
Environment	Approx.:0-50°C & 95% RH
Charger	Charging mode shall be provided Battery Charging Voltage & Current shall be adjustable Line & load Regulation: < +2% Output Ripple: < 3%
Battery	Battery shall be of Sealed Maintenance (SMF) or VRLA type with minimum 1 Hrs. Battery Backup at full load, ISO 9001 & 14001 Certified with Rack/ Tray
Other Requirement	Both Manual & Static bypass switch should be Provided. Build in display for displaying all requisite UPS & battery parameters for both input & output
Model specific Certifications	BIS
Compliance	ROHS (Only UPS), ISO 9001
Test report	OEM should submit test report for the quoted model issued by State/ Central laboratory (not old from last 5 Years),
Warranty	3 years comprehensive on-site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

Category 10. TV

1. LED 32"

A. LED 32" with 16/7 duty cycle & 300 Nits or higher brightness: (Estimated cost Rs. 20,000/-)

Parameter	Generic Technical Specification
Size	32"
Resolution	1920*1080 (FHD)
Brightness	300 Nits or higher
Panel Technology	IPS/ VA
Viewing Angle (H/V)	178°
Display Colors	16.7 million
Color Gamut	60%
Audio	Built in Speaker (10W + 10W)
Input	HDMI 2.0 x 2, USB 2.0x1
Output	Line Level Audio Out-3.5MM Jack/ Bluetooth Audio Connectivity/ Digital out Audio (optical)
Duty Cycle	16/7 Hrs.
Special Features	Built-in Signage Software from same OEM, Smart Share, Web browser, Plug & Play
External Control	RJ45
Mounting	Wall Mount, all required accessories must be supply for installation
Model specific Certification	BIS and UL/ CE/ CB/ CSA/ FCC
Compliance	ROHS, ISO 9001
Warranty	3 years comprehensive on-site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

B. LED 32" with 16/7 duty cycle & 400 Nits or higher brightness (Estimated cost Rs. 25,000/-)

Parameter	Generic Technical Specification
Size	32"
Resolution	1920*1080 (FHD)
Brightness	400 Nits or higher
Panel Technology	IPS/ VA
Viewing Angle (H/V)	178°
Display Colors	16.7 million
Color Gamut	60%%
Audio	Built in Speaker (10W + 10W)
Input	HDMI 2.0 x 2, USB 2.0x1
Output	Line Level Audio Out-3.5MM Jack/ Bluetooth Audio

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	Connectivity/ Digital out Audio (optical)
Duty Cycle	16/7 Hrs.
Special Features	Built-in Signage Software from same OEM, Smart Share, Web browser, Plug & Play
External Control	RJ45
Mounting	Wall Mount, all required accessories must be supply for installation `
Model Specific Certification	BIS and UL/ CE/ CB/ CSA/ FCC
Compliance	ROHS, ISO 9001
Warranty	3 years comprehensive on-site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

2. LED 43"

A. LED 43" with 16/7 duty cycle & 300 Nits or higher brightness **(**Estimated cost Rs. 40,000/-**)**

Parameter	Generic Technical Specification
Size	43"
Resolution	3840*2160 (4KUHD)
Brightness	300 Nits or higher
Panel Technology	IPS/ VA
Viewing Angle (H/V)	178°
Display Colors	16.7 million
Color Gamut	72%
Audio	Built in Speaker (10W + 10W)
Input	HDMI 2.0 x 2, USB 2.0x1
Output	Line Level Audio Out-3.5MM Jack/ Bluetooth Audio Connectivity/ Digital out Audio (optical)
Duty Cycle	16/7 Hrs.
Special Features	Built-in Signage Software from same OEM, Smart Share, Web browser, Plug & Play
External Control	RJ45
Mounting	Wall Mount, all required accessories must be supply for installation `
Model specific Certification	BIS and UL/ CE/ CB/ CSA/ FCC
Compliance	ROHS, ISO 9001
Warranty	3 years comprehensive on-site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

B. LED 43" with 16/7 duty cycle & 400 Nits or higher brightness: **(**Estimated cost Rs. 45,000/-**)**

Parameter	Generic Technical Specification
Size	43"

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Resolution	3840*2160 (4KUHD)
Brightness	400 Nits or higher
Panel Technology	IPS/ VA
Viewing Angle (H/V)	178°
Display Colors	16.7 million
Color Gamut	72%
Audio	Built in Speaker (10W + 10W)
Input	HDMI 2.0 x 2, USB 2.0x1
Output	Line Level Audio Out-3.5MM Jack/ Bluetooth Audio Connectivity/ Digital out Audio (optical)
Duty Cycle	16/7 Hrs.
Special Features	Built-in Signage Software from same OEM, Smart Share, Web browser, Plug & Play
External Control	RJ45
Mounting	Wall Mount, all required accessories must be supply for installation `
Model Specific Certification	BIS and UL/ CE/ CB/ CSA/ FCC
Compliance	ROHS, ISO 9001
Warranty	3 years comprehensive on-site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

C. LED 43" with 24/7 duty cycle & 500 Nits or higher brightness: **(**Estimated cost Rs. 50,000/-**)**

Parameter	Generic Technical Specification
Size	43"
Resolution	3840*2160 (4KUHD)
Brightness	500 Nits or higher
Panel Technology	IPS/ VA
Viewing Angle (H/V)	178°
Display Colors	16.7 million
Color Gamut	72%
Audio	Built in Speaker (10W + 10W)
Input	HDMI 2.0 x 2, USB 2.0x1
Output	Line Level Audio Out-3.5MM Jack/ Bluetooth Audio Connectivity/ Digital out Audio (optical)
Duty Cycle	24/7 Hrs.
Special Features	Built-in Signage Software from same OEM, Smart Share, Web browser, Plug & Play
External Control	RJ45
Mounting	Wall Mount, all required accessories must be supply for installation
Model specific Certification	BIS and UL/ CE/ CB/ CSA/ FCC
Compliance	ROHS, ISO 9001

Warranty	3 years comprehensive on-site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

3. LED 48"

A. LED 48" with 16/7 duty cycle & 300 Nits or higher brightness: **(**Estimated cost Rs. 42,000/-**)**

Parameter	Generic Technical Specification
Size	48"
Resolution	3840*2160 (4KUHD)
Brightness	300 Nits or higher
Panel Technology	IPS/ VA
Viewing Angle (H/V)	178°
Display Colors	16.7 million
Color Gamut	72%
Audio	Built in Speaker (10W + 10W)
Input	HDMI 2.0 x 2, USB 2.0x1
Output	Line Level Audio Out-3.5MM Jack/ Bluetooth Audio Connectivity/ Digital out Audio (optical)
Duty Cycle	16/7 Hrs.
Special Features	Built-in Signage Software from same OEM, Smart Share, Web browser, Plug & Play
External Control	RJ45
Mounting	Wall Mount, all required accessories must be supply for installation
Model specific Certification	BIS and UL/ CE/ CB/ CSA/ FCC
Compliance	ROHS, ISO 9001
Warranty	3 years comprehensive on-site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

B. LED 48" with 16/7 duty cycle & 400 Nits or higher brightness: **(**Estimated cost Rs. 45,000/-**)**

Parameter	Generic Technical Specification
Size	48"
Resolution	3840*2160 (4KUHD)
Brightness	400 Nits or higher
Panel Technology	IPS/ VA
Viewing Angle (H/V)	178°
Display Colors	16.7 million
Color Gamut	72%
Audio	Built in Speaker (10W + 10W)
Input	HDMI 2.0 x 2, USB 2.0x1
Output	Line Level Audio Out-3.5MM Jack/ Bluetooth Audio Connectivity/ Digital out Audio (optical)
Duty Cycle	16/7 Hrs.

Special Features	Built-in Signage Software from same OEM, Smart Share, Web browser, Plug & Play
External Control	RJ45
Mounting	Wall Mount, all required accessories must be supply for installation `
Model Specific Certification	BIS and UL/ CE/ CB/ CSA/ FCC
Compliance	ROHS, ISO 9001
Warranty	3 years comprehensive on-site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

C. LED 48" with 24/7 duty cycle & 500 Nits or higher brightness: **(**Estimated cost Rs. 50,000/-**)**

Parameter	Generic Technical Specification
Size	48"
Resolution	3840*2160 (4KUHD)
Brightness	500 Nits or higher
Panel Technology	IPS/ VA
Viewing Angle (H/V)	178°
Display Colors	16.7 million
Color Gamut	72%
Audio	Built in Speaker (10W + 10W)
Input	HDMI 2.0 x 2, USB 2.0x1
Output	Line Level Audio Out-3.5MM Jack/ Bluetooth Audio Connectivity/ Digital out Audio (optical)
Duty Cycle	24/7 Hrs.
Special Features	Built-in Signage Software from same OEM, Smart Share, Web browser, Plug & Play
External Control	RJ45
Mounting	Wall Mount, all required accessories must be supply for installation
Model specific Certification	BIS and UL/ CE/ CB/ CSA/ FCC
Compliance	ROHS, ISO 9001
Warranty	3 years comprehensive on-site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

4. LED 50"

A. LED 50" with 16/7 duty cycle & 300 Nits or higher brightness: (Estimated cost Rs. 45,000/-)

Parameter	Generic Technical Specification
Size	50"
Resolution	3840*2160 (4KUHD)
Brightness	300 Nits or higher
Panel Technology	IPS/ VA
Viewing Angle (H/V)	178°
Display Colors	16.7 million
Color Gamut	72%
Audio	Built in Speaker (10W + 10W)
Input	HDMI 2.0 x 2, USB 2.0x1
Output	Line Level Audio Out-3.5MM Jack/ Bluetooth Audio Connectivity/ Digital out Audio (optical)
Duty Cycle	16/7 Hrs.
Special Features	Built-in Signage Software from same OEM, Smart Share, Web browser, Plug & Play
External Control	RJ45
Mounting	Wall Mount, all required accessories must be supply for installation
Model specific Certification	BIS and UL/ CE/ CB/ CSA/ FCC
Compliance	ROHS, ISO 9001
Warranty	3 years comprehensive on-site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

B. LED 50" with 16/7 duty cycle & 400 Nits or higher brightness: (Estimated cost Rs. 50,000/-)

Parameter	Generic Technical Specification
Size	50"
Resolution	3840*2160 (4KUHD)
Brightness	400 Nits or higher
Panel Technology	IPS/ VA
Viewing Angle (H/V)	178°
Display Colors	16.7 million
Color Gamut	72%
Audio	Built in Speaker (10W + 10W)
Input	HDMI 2.0 x 2, USB 2.0x1

Output	Line Level Audio Out-3.5MM Jack/ Bluetooth Audio Connectivity/ Digital out Audio (optical)
Duty Cycle	16/7 Hrs.
Special Features	Built-in Signage Software from same OEM, Smart Share, Web browser, Plug & Play
External Control	RJ45
Mounting	Wall Mount, all required accessories must be supply for installation `
Model Specific Certification	BIS and UL/ CE/ CB/ CSA/ FCC
Compliance	ROHS, ISO 9001
Warranty	3 years comprehensive on-site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

C.   LED 50" with 24/7 duty cycle & 500 Nits or higher brightness: **(**Estimated cost Rs. 60,000/-**)**

Parameter	Generic Technical Specification
Size	50"
Resolution	3840*2160 (4KUHD)
Brightness	500 Nits or higher
Panel Technology	IPS/ VA
Viewing Angle (H/V)	178°
Display Colors	16.7 million
Color Gamut	72%
Audio	Built in Speaker (10W + 10W)
Input	HDMI 2.0 x 2, USB 2.0x1
Output	Built-in Signage Software from same OEM, Smart Share, Web browser, Plug & Play
Duty Cycle	24/7 Hrs.
Special Features	Built-in Signage Software from same OEM, Smart Share, Web browser, Plug & Play
External Control	RJ45
Mounting	Wall Mount, all required accessories must be supply for installation
Model specific Certification	BIS and UL/ CE/ CB/ CSA/ FCC
Compliance	ROHS, ISO 9001
Warranty	3 years comprehensive on-site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

5. **LED 55"**

A. **LED 55" with 16/7 duty cycle & 300 Nits or higher brightness: (Estimated cost Rs. 55,000/-)**

Parameter	Generic Technical Specification
Size	55"
Resolution	3840*2160 (4KUHD)
Brightness	300 Nits or higher
Panel Technology	IPS/ VA
Viewing Angle (H/V)	178°
Display Colors	16.7 million
Color Gamut	72%
Audio	Built in Speaker (10W + 10W)
Input	HDMI 2.0 x 2, USB 2.0x1
Output	Line Level Audio Out-3.5MM Jack/ Bluetooth Audio Connectivity/ Digital out Audio (optical)
Duty Cycle	16/7 Hrs.
Special Features	Built-in Signage Software from same OEM, Smart Share, Web browser, Plug & Play
External Control	RJ45
Mounting	Wall Mount, all required accessories must be supply for installation
Model specific Certification	BIS and UL/ CE/ CB/ CSA/ FCC
Compliance	ROHS, ISO 9001
Warranty	3 years comprehensive on-site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

B. **LED 55" with 16/7 duty cycle & 400 Nits or higher brightness: (Estimated cost Rs. 60,000/-)**

Parameter	Generic Technical Specification
Size	55"
Resolution	3840*2160 (4KUHD)
Brightness	400 Nits or higher
Panel Technology	IPS/ VA
Viewing Angle (H/V)	178°
Display Colors	16.7 million
Color Gamut	72%
Audio	Built in Speaker (10W + 10W)
Input	HDMI 2.0 x 2, USB 2.0x1

Parameter	Generic Technical Specification
Output	Line Level Audio Out-3.5MM Jack/ Bluetooth Audio Connectivity/ Digital out Audio (optical)
Duty Cycle	16/7 Hrs.
Special Features	Built-in Signage Software from same OEM, Smart Share, Web browser, Plug & Play
External Control	RJ45
Mounting	Wall Mount, all required accessories must be supply for installation `
Model Specific Certification	BIS and UL/ CE/ CB/ CSA/ FCC
Compliance	ROHS, ISO 9001
Warranty	3 years comprehensive on-site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

C. **LED 55"** with 24/7 duty cycle & 500 Nits or higher brightness: (Estimated cost Rs. 70,000/-**)**

Parameter	Generic Technical Specification
Size	55"
Resolution	3840*2160 (4KUHD)
Brightness	500 Nits or higher
Panel Technology	IPS/ VA
Viewing Angle (H/V)	178°
Display Colors	16.7 million
Color Gamut	72%
Audio	Built in Speaker (10W + 10W)
Input	HDMI 2.0 x 2, USB 2.0x1
Output	Line Level Audio Out-3.5MM Jack/ Bluetooth Audio Connectivity/ Digital out Audio (optical)
Duty Cycle	24/7 Hrs.
Special Features	Built-in Signage Software from same OEM, Smart Share, Web browser, Plug & Play
External Control	RJ45
Mounting	Wall Mount, all required accessories must be supply for installation
Model specific Certification	BIS and UL/ CE/ CB/ CSA/ FCC
Compliance	ROHS, ISO 9001
Warranty	3 years comprehensive on-site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

6. **LED 65"**

A. **LED 65''** with 16/7 duty cycle & 300 Nits or higher brightness: **(**Estimated cost Rs. 70,000/-**)**

Parameter	Generic Technical Specification
Size	65"
Resolution	3840*2160 (4KUHD)
Brightness	300 Nits or higher
Panel Technology	IPS/ VA
Viewing Angle (H/V)	178°
Display Colors	16.7 million
Color Gamut	72%
Audio	Built in Speaker (10W + 10W)
Input	HDMI 2.0 x 2, USB 2.0x1
Output	Line Level Audio Out-3.5MM Jack/ Bluetooth Audio Connectivity/ Digital out Audio (optical)
Duty Cycle	16/7 Hrs.
Special Features	Built-in Signage Software from same OEM, Smart Share, Web browser, Plug & Play
External Control	RJ45
Mounting	Wall Mount, all required accessories must be supply for installation
Model specific Certification	BIS and UL/ CE/ CB/ CSA/ FCC
Compliance	ROHS, ISO 9001
Warranty	3 years comprehensive on-site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

B. **LED 65"** with 16/7 duty cycle & 400 Nits or higher brightness: **(**Estimated cost Rs. 80,000/-**)**

Parameter	Generic Technical Specification
Size	65"
Resolution	3840*2160 (4KUHD)
Brightness	400 Nits or higher
Panel Technology	IPS/ VA
Viewing Angle (H/V)	178°
Display Colors	16.7 million
Color Gamut	72%
Audio	Built in Speaker (10W + 10W)
Input	HDMI 2.0 x 2, USB 2.0x1
Output	Line Level Audio Out-3.5MM Jack/ Bluetooth Audio Connectivity/ Digital out Audio (optical

Duty Cycle	16/7 Hrs.
Special Features	Built-in Signage Software from same OEM, Smart Share, Web browser, Plug & Play
External Control	RJ45
Mounting	Wall Mount, all required accessories must be supply for installation `
Model Specific Certification	BIS and UL/ CE/ CB/ CSA/ FCC
Compliance	ROHS, ISO 9001
Warranty	3 years comprehensive on-site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

C. LED 65" with 24/7 duty cycle & 500 Nits or higher brightness: **(**Estimated cost Rs. 95,000/-**)**

Parameter	Generic Technical Specification
Size	65"
Resolution	3840*2160 (4KUHD)
Brightness	500 Nits or higher
Panel Technology	IPS/ VA
Viewing Angle (H/V)	178°
Display Colors	16.7 million
Color Gamut	72%
Audio	Built in Speaker (10W + 10W)
Input	HDMI 2.0 x 2, USB 2.0x1
Output	Line Level Audio Out-3.5MM Jack/ Bluetooth Audio Connectivity/ Digital out Audio (optical)
Duty Cycle	24/7 Hrs.
Special Features	Built-in Signage Software from same OEM, Smart Share, Web browser, Plug & Play
External Control	RJ45
Mounting	Wall Mount, all required accessories must be supply for installation
Model specific Certification	BIS and UL/ CE/ CB/ CSA/ FCC
Compliance	ROHS, ISO 9001
Warranty	3 years comprehensive on-site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

Category 11. Web Camera

(Estimated cost Rs. 2,000/-)

Parameter	Generic Technical Specification
Device Type	Plug & Play Web Camera
Connectivity Technology	Wired
Resolution	Minimum 2 MP and shall support upto 1080P Video Capture at minimum 30 fps
Image Sensor	CMOS
Features	Clear and richer picture with 5G/>=55-degree wide angle Lens, brightness controller, digital zoom, Integrated Privacy shutter
OS Support	Windows, Mac, Linux and Chromebook
Video Input	Color
Audio	Built-in mics with auto noise reduction
Interfaces	USB 2.0 and Above Connector
Cable Details	USB Cable min 1 Meter
Model specific Certification	BIS and UL/ CE/ CB/ CSA/ FCC
Compliance	RoHS, ISO 9001
Warranty	3 years comprehensive on-site warranty.
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

Category 12. Projector

(Estimated cost Rs. 50,000/- considering higher configuration)

Parameter	Generic Technical Specification
Technology	3 LCD/ DLP
Projection Method	Front & Rear Both
Minimum Resolution	XGA (1024 x 768)/ WXGA (1280 x 800) (as per requirement)
Brightness	Minimum 3300 ANSI Lumens for Color Light & White Light Output Both
Contrast Ratio	15000:1
Aspect Ratio	Minimum 4:3
Throw Ratio	1.44 1.95:1
Lamp Type	UHE
Lamp Life	Minimum 6000 Hrs. Normal Mode & 12000 Hrs. in Eco Mode
I/O Connection	VGA, HDMI, USB
Warranty	3 Years comprehensive on site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

Category 13. Biometric Scanner
(Estimated cost Rs. 3,000/-)

Parameter	Generic Technical Specification
Scanning technology	Optical L1- Fingerprint Scanner
Fingerprint Sensor Type	Optical Scratch-Free Sensor
Operation	Plug and Play
Compatibility	Windows 10 or higher, Android (Linux or open OS)
Platen Area	Minimum 12.8mm x 17 mm
Uses	Useful for e-KYC, Interface-USB/C-Type, should support- Aadhaar Enable, Sim Activation, Payment, Access control, Time & Attendance
Interface	USB 2.0
Model specific Certification	BIS, STQC & UIDAI Certified
Compliance	ROHS, ISO 9001
Warranty	3 Years comprehensive onsite OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

Category 14. Hard Drive

A. SATA 4 TB (Estimated cost Rs. 10,000/-)

Parameter	Generic Technical Specification
Storage	4 TB
Interface	SATA
Type	External
Warranty	3 Year
Connectivity Technology	USB
Compatible Device	Laptop, Desktop, IFPD
Installation Type	Plug in
Accessories	USB 3.0 Cable
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

B. SATA 2 TB (Estimated cost Rs. 5,000/-)

Parameter	Generic Technical Specification
Storage	2 TB
Interface	SATA
Type	External
Warranty	3 Year
Connectivity Technology	USB
Compatible Device	Laptop, Desktop, IFPD
Installation Type	Plug in
Accessories	USB 3.0 Cable
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

Category 15. Monitor

A. **Monitor 21"** (Estimated cost Rs. 7,500/-)

Parameter	Generic Technical Specification
Screen Size	21"
Panel Type	LCD
Resolution	FHD or better
Input Output Ports	HDMI x 1, VGA x 1
Screen Feature	Antiglare, Flicker Free
Monitor Stand	Table Mount with Tilt Adjustment
Model specific Certifications	BIS
Compliance	ROHS, ISO 9001
Warranty	3 Years comprehensive on site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

B. **Monitor 24"** (Estimated cost Rs. 9,000/-)

Parameter	Generic Technical Specification
Screen Size	24"
Panel Type	LCD
Resolution	FHD or better
Input Output Ports	HDMI x 1, VGA x 1
Screen Feature	Antiglare, Flicker Free
Monitor Stand	Table Mount with Tilt Adjustment
Model specific Certifications	BIS
Compliance	ROHS, ISO 9001
Warranty	3 Years comprehensive on site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

C. **Monitor 27"** (Estimated cost Rs. 12,000/-)

Parameter	Generic Technical Specification
Screen Size	27"
Panel Type	LCD
Resolution	FHD or better
Input Output Ports	HDMI x 1, VGA x 1
Screen Feature	Antiglare, Flicker Free
Monitor Stand	Table Mount with Tilt Adjustment
Model specific Certifications	BIS
Compliance	ROHS, ISO 9001
Warranty	3 Years comprehensive on site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

Category 16. Key-Board & Mouse

A. Keyboard (Wired): (Estimated cost Rs. 1,000/-)

Parameter	Generic Technical Specification
Connectivity	(USB A or C) (no PS/2 Port)
Keys	104
Model specific Certifications	BIS
Warranty	3 Years comprehensive on site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

B. Mouse (Wired): (**Estimated cost Rs.500/-)

Parameter	Generic Technical Specification
Type	Optical
Connectivity	(USB A or C) (no PS/2 Port)
Button	2 buttons with scroller
Model specific Certifications	BIS
Warranty	3 Years comprehensive on site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

C. Keyboard (Wire-less): (Estimated cost Rs. 1,500/-)

Parameter	Generic Technical Specification
Connectivity	Bluetooth (and/or Wire-less Receiver)
Keys	104
Model specific Certifications	BIS
Cell type	AA/ AAA
Warranty	3 Years comprehensive on site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

D. Mouse (Wire-less): (Estimated cost Rs. 1,000/-)

Parameter	Generic Technical Specification
Type	Optical
Connectivity	Bluetooth (and/or Wire-less Receiver)
Button	2 buttons with scroller
Model specific Certifications	BIS
Cell type	AA/ AAA
Warranty	3 Years comprehensive on site OEM warranty
Note: Any deviation/ alteration/ modification in the specification will not be considered valid.	

Digitally signed by
Sanjay Shripatrao Katkar
Date: 19-12-2025
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