Technical Specifications for Desktops

S.No.	Item	Technical Specifications
1.	Quantity	15
2.	Processor Type and Generation	Intel Desktop Processor; 13 or higher
3.	Number of Cores per processor	16 cores or higher
4.	Processor Base Frequency (GHz)	2.1 or higher
5.	Processor Max Turbo Frequency (GHz)	5.2 or higher
6.	Processor Cache (MB)	30 or higher
7.	Integrated Processor GPU based frequency	300 MHz or higher
8.	Expansion Slots (PCIe x 1) (Number)	0 or higher
9.	Expansion Slots (PCIe x 4) (Number)	2 or higher
10.	Expansion Slots (PCIe x 16) (Number)	1 or higher
11.	Graphics Type	Dedicated
12.	Number of Graphic Cards	1
13.	Graphic Card Description	1x 12 GB GDDR6 GPU GeForce RTX 3060 with Non ECC
14.	Operating System (Factory Pre-Loaded)	Windows 11 Professional
15.	Recovery Image Media	CD from the OEM / Stored in Partition of the Hard Disk / USB Drive from the OEM
16.	OS Certification	Windows
17.	RAM Type	DDR5 or higher
18.	RAM Speed (MHz)	4800 or higher
19.	Type of Memory	Non ECC
20.	RAM Size (GB)	16 or more
21.	Total Numbers of DIMM Slots Available	4 or higher
22.	Number of DIMM Slots Populated	1
23.	RAM Expandability up to using spare DIMM Slots (GB)	128 or higher
24.	Type of Storage	M.2/SSD Dedicated to OS Loading
25.	Solid State Drive	512 GB M.2/SSD NVMe or higher
26.	Hard Disk Drive	I TB SATA 7200 RPM 3.5" or I x2TB SSD or higher
27.	No of Drive and Capacity of each drive	1, 1024GB or more
28.	Total number of Internal Bays available for PCIe SSD	1 or more
29.	Number of Internal Bays populated with PCIe Drive	1 or more
30.	Number of RAID Controller Ports	4 or higher
31.	Speed of RAID Controller Ports (Gbps)	6 or higher
32.	Number of Ethernet Ports	1
33.	Wireless Connectivity	Yes
34.	If Yes, Type of Wireless Connectivity	Wi-Fi 6 or higher
35.	Bluetooth Connectivity	Yes
36.	If Yes, Version of Bluetooth Available	5.0 or higher
37.	Networking Speed	1 GBPS or higher, 1 or higher Ethernet port
38.	Front Peripherals: Number of USB Version 2 Point 0 Ports	3 or higher
39.	Front Peripherals: Number of USB Version 3 point 0 / 3 point 1, Gen 1 Ports	2 or higher
40.	Front Peripherals: Number of USB Version 3 point 1, Gen 2 Ports	4 or higher
41.	Front Peripherals: Number of USB Type C Ports	1 or higher

	Audio Support	1 * Audio-in , 1* Audio-out
42.	Number of HDMI Ports	1 or higher
43.	Number of DP Ports	2 or higher
44.	Display Availability	Monitor
45.	Display Size (cm)	54.61 cm of higher
46.	Display Type	Non-touch with HDMI and VGA connectivity
47.	Panel Type	Flat
48.	Panel Technology	IPS
49.	Display Resolution (Pixels)	1920x 1080
50.	TCO Compliance for Monitor	TCO 9.0
51.	Colour Gamut	72% NTSC
52.	Monitor Stand	Height Adjustable
53.	Maximum Power (Watts)	700
54.	Minimum Power Efficiency (%)	90 or higher
55.	Power Management Unit	Yes
56.	Redundant Power Supply	No
57.	Mouse Connectivity, If available	Yes
58.	ype of Mouse, If available	Optical Scroll
59.	Keyboard Connectivity, if available	Wired
60.	Type of Keyboard, if available	Standard
61.	Optical Drive	DVD R/W
62.	Number of External Bays	2
63.	Security	H/W Based
64.	Availability of Bundled Software	Yes
65.	Type of Bundled Software	Artificial Intelligence Based Performance Improvement Software, if any
66.	Minimum Operating Temperature (Degree C)	5 or 10
67.	Maximum Operating Temperature (Degree C)	35
68.	Minimum Operating Humidity (%RH)	10 or 20
69.	Maximum Operating Humidity (%RH)	85
70.	Monitor, Keyboard, Mouse of Same OEM	Yes
71.	Malicious code certificate duly signed by OEM of quoted hardware	Yes
72.	Service central list to be submitted by bidder	Yes
73.	Declaration from OEM for OEM warranty as per tender terms	Yes
74.	Declaration from OEM for genuine Operating System from hardware OEM factory	Yes
75.	Compliance letter from OEM on their letterhead	Yes
76.	OEM must have an online system hardware diagonsitics facility. Link/web address to be submitted along with the technical bid. Alos, OEM must have the facility to download updates of preinstalled software, devices, drivers, firmware, on its website. Link/web address to be submitted along with the technical bid	Yes
77.	Quoted product should be EPEAT gold India Certified	Yes
78.	Power Supply efficiency should be 400W with 90% average efficiency or better for the quoted product. Declaration in this regard from OEM is required to be submitted.	Yes
79.	Quoted desktops should be certified for the Required operating system. Hardware OEM declaration along with Hardware certification report to be submitted.	Yes

80.	Declaration from OEM for a quoted product not obsolete inb the market at the time of bid submission and has at least 3 years residual support.	Yes
81.	Ink signed MAF required.	Yes
82.	All systems should have Standard Office suite LTSC 2021 or later for the Education/ Academic version installed.	Yes
83.	On Site OEM Warranty (Year)	3 or more
84.	Delivery	Delivery and Installation at Department of AM, DIAT Pune 411025