

**STORE AND PURCHASE SECTION
NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA – 136119**

No. SPS/2026/ 482

Dated: 06.07.2026

NOTIFICATION

Subject: Model technical specification for ICT items (Laptops, Desktop and All-in-One PCs).

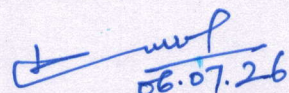
The competent authority has approved the attached specification related to the subject matter with the following instruction:

1. System equipped with Intel Core Ultra 5 processors are recommended for offices.
2. System equipped with Intel Core Ultra 7 processors are recommended for computing and laboratories use.

Further, departments may incorporate any additional requirements, if necessary, in the model technical specifications and the Additional terms & Conditions (ATCs) to meet their specific functional needs.

The same is hereby circulated for processing the procurement files related to ICT items (Laptops, Desktop and All-in-One PCs).

This is for information and further necessary action at your end please.


06.07.26
Assistant Registrar
(Stores & Purchase)

To,

Heads of all Departments/Sections

Copy to:-

1. Sr. PA to Director for kind information of the Director.
2. O/o of Registrar-in-charge for the information of the Registrar.

Specifications for Desktop PC ultra 5

SNo	Item	Specifications
1	Form Factor	Tower/Micro Tower/Mini Tower
2	Chassis	Tool-less Chassis (Tool-less Hard Drive, Memory & Optical drive Removal)
3	Chipset	Commercial Class Intel® Q870 Chipset
4	Processor	Intel® Core™ Ultra 5-235 Processor (3.4GHz, up to 5GHz, 24MB L3 Cache, 14 Cores, 14 Threads)
5	Memory	16 GB DDR5 - 5600MT/s Memory expandability up to 128 GB with 4 DIMM Slots or Higher
6	Storage	512GB PCIe NVMe SSD or Higher
7	Graphics	Integrated UHD Graphics
8	Audio	Integrated audio controller with internal speaker of at least 2W
9	Operating System	Microsoft Windows 11 Professional (64 Bit) with OEM Recovery DVD or option of Cloud Recovery
10	Networking	Integrated Intel Gigabit 10/100/1000 Ethernet Controller Intel® Wi-Fi 6/6E AX211 802.11ax 2x2 with Bluetooth
11	Ports	Video: 1 Display Port 2.1 ,1 HDMI 2.1 USB:3 USB 2.0, 2 USB 3.0, 3 USB 3.2 Gen 2 and at least 1 USB Type C 10Gbps
12	Slots	1 PCI Express v4.0 x16 2 PCI Express v3.0 x1 1 M.2 for WLAN & 2 M.2 for Storage 3 SATA Ports
13	Keyboard	USB Wired Keyboard,
14	Mouse	USB Optical Wired Mouse
15	Power Supply	280 W with 92% efficiency or better
16	Volume	Not More than 18L
17	Security	Hardware based endpoint security controller TPM 2.0 Integrated Intrusion Sensor (Optional) Support for chassis cable lock devices & Support for chassis padlocks devices Drive lock option for HDD to secure Data Integrated protection from malware that lurks on malicious websites Integrated real-time detection and prevention of zero-day threats and advanced persistent threat (APT) attacks for Windows applications
18	Manageability	Out-of-band manageability allowing technician to execute full remote control of computing endpoint over an Ethernet or Wi-Fi 802.11 connection, regardless of OS state. The endpoint could be on premise behind corporate firewall or outside the corporate firewall. IT admin should be able to monitor full boot up / reset sequence, including BIOS access, to identify any issue with the PC
19	Certifications	Microsoft Windows 11, Ubuntu, FCC, CE, RoHS, UL, EPEAT Gold India, Energy Star, TCO, MIL STD 810H, ISO 9001, 14001, 20001, 27001 for OEM
20	Display	23.8" or higher IPS with Minimum resolution of 1920X1080, with VGA , HDMI, DP ports and TCO 9.0 Certified
21	Warranty	OEM 3 Years onsite comprehensive warranty

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Additional Term and Conditions

Technical compliance mentioning the bid number clearly must be submitted on OEM letterhead- duly signed. Bidder must Provide the web link from OEM on their letterhead for the warranty online check facility along with the warranty certificate.
Windows 11 Professional should be OEM factory preloaded. OEM preloaded OS Certificate must be submitted on OEM letterhead
Ink signed Authorization letter (MAF) & Make In India certificate must be submitted for all the items on OEM letterhead. The MAF must clearly mention the bid number, product make and model and be signed and stamped by an authorized signatory of the OEM.
The OEM should be present in the market in the same product line category from the last 10 years. Documentary proof (PO) must be attached along with the bid.
The bidder and OEM should not be blacklisted by any government/PSU/institution/listed company, etc., in the last 3 years—an undertaking on letter head should be uploaded with the technical bid not older than the bid publish date.
The OEM must have registered office in the consignee state / Chandigarh Tricity. GST registration Certificate must be attached as documentary proof.
The OEM (either directly or through a reseller) as well as the bidder must have prior experience working in the education sector, specifically with Institutions of National Importance (INIs) such as IITs, NITs, IIITs, or IISc. In addition, at least two purchase orders (POs), each for a minimum quantity of 100 desktops and executed during the last two financial years (FY 2024–25 and FY 2025–26), must be submitted along with the technical bid
All products supplied under this agreement must be strictly of commercial grade or business class. Bidders must submit verifiable manufacturer Product Data Sheets confirming the hardware is officially classified as a commercial/business line
Catalogue of quoted product must be submitted with the bid otherwise bid will not be considered.
The ATC/technical specification must be signed and stamped by the bidder otherwise bid will not be considered
OEM must have online system hardware diagnostics facility and facility to download updates of software, device drivers, and firmware on its website.
Specifications and warranty of the offered product should be available through serial number search / tracking on the website of the OEM. Warranty of the product must be on the letter head of OEM.
All the components (Monitor, Key-board, Mouse, CPU) must be of the same OEM.

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Specifications for Desktop PC ultra 7

Sr. No	Item	Specifications
1	Form Factor	Tower/Micro Tower/Mini Tower
2	Chassis	Tool-less Chassis (Tool-less Hard Drive, Memory & Optical drive Removal)
3	Chipset	Commercial Class Intel® Q870 Chipset
4	Processor	Intel Core Ultra 7-265 Processor with Intel UHD Graphics 4Xe (2.4GHz, up to 5.3GHz with Intel® Turbo Boost1 Max Technology, 30MB L3 Cache, 20 Cores, 20 Threads)
5	Memory	32 GB DDR5 - 5600MT/s Memory expandability up to 128 GB with 4 DIMM Slots or Higher
6	Storage	512GB PCIe NVMe SSD or Higher
7	Graphics	Integrated UHD Graphics
8	Audio	Integrated audio controller with internal speaker of at least 2W
9	Operating System	Microsoft Windows 11 Professional 64 bit with OEM Recovery DVD or option of Cloud Recovery
10	Networking	Integrated Intel Gigabit 10/100/1000 Ethernet Controller Intel Wi-Fi 6/E AX211 802.11ax 2x2 with Bluetooth
11	Ports	Video: 1 Display Port 2.1 , 1 HDMI 2.1 USB: 3 USB 2.0, 2 USB 3.0, 3 USB 3.2 Gen 2 and at least 1 USB Type C 10Gbps
12	Slots	1 PCI Express v4.0 x16 2 PCI Express v3.0 x1 1 M.2 for WLAN & 2 M.2 for Storage 3 SATA Ports
13	Keyboard	USB Wired Keyboard,
14	Mouse	USB Optical Wired Mouse
15	Display	23.8" or higher IPS with Minimum resolution of 1920X1080, with VGA , HDMI, DP ports and TCO 9.0 Certified
16	Power Supply	280 W with 92% efficiency or better
17	Volume	Not More than 18L
18	Security	Hardware based endpoint security controller TPM 2.0 Integrated Intrusion Sensor (Optional) Support for chassis cable lock devices & Support for chassis padlocks devices Drive lock option for HDD to secure Data Integrated protection from malware that lurks on malicious websites Integrated real-time detection and prevention of zero-day threats and advanced persistent threat (APT) attacks for Windows applications
19	Manageability	Out-of-band manageability allowing technician to execute full remote control of computing endpoint over an Ethernet or Wi-Fi 802.11 connection, regardless of OS state. The endpoint could be on premise behind corporate firewall or outside the corporate firewall. IT admin should be able to monitor full boot up / reset sequence, including BIOS access, to identify any issue with the PC
20	Certifications	Microsoft Windows 11, Ubuntu, FCC, CE, RoHS, UL, EPEAT Gold India, Energy Star, TCO, MIL STD 810H, ISO 9001, 14001, 20001, 27001 for OEM
21	Warranty	OEM 3 Years onsite comprehensive

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All the components (Monitor, Key-board, Mouse, CPU) must be of the same OEM.

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Specifications for laptop Ultra 7

Sr. No	Item	Specifications
1.	Form Factor	Clamshell
2.	Chassis	Metal A, C cover with metallic hinges
3.	Processor	Intel Core Ultra 7 255 (Up to 4.4 GHz E-core Max Turbo frequency, up to 5.1 GHz P-core Max Turbo frequency, 24 MB L3 cache, 6 P-cores, 2 LP E-cores and 8 E-cores, 16 threads) (13 NPU TOPS) or higher
4.	Memory	32 GB DDR5 5600 MT/s with expandability up to 64 GB or Higher
5.	Storage	Latest SSD technology PCIe NVMe 512GB SSD drive or Higher
6.	Graphics	Intel® Graphics / AMD Radeon Graphics
7.	Audio	Integrated audio controller with internal speaker
8.	Battery	56WHr or higher
9.	Operating System	Windows 11 64 bit Professional
10.	Networking	Integrated Intel Gigabit 10/100/1000 Ethernet Controller Intel® Wi-Fi 6E AX211 802.11ax 2x2 with Bluetooth 5.3
11.	Ports	Ethernet RJ-45, 2 USB Type C with 10Gbps signaling rate or higher (For Power delivery, Display Port), 2 USB Type A or higher ports, HDMI port
12.	Display	14 inches UXGA (1920x1200), minimum 300 Nits
13.	Keyboard	Backlit + Spill-resistant Keyboard, Fingerprint Reader
14.	Weight	<=1.5kg
15.	Security	Hardware based endpoint security controller TPM 2.0
16.	Certifications	Microsoft Windows 11, Ubuntu FCC, CE, RoHS, UL, EPEAT Gold India, Energy Star, TCO, MIL STD 810H (19 tests qualified) ISO 9001, 14001, 20001, 27001 for OEM
17.	Warranty	OEM 3 Years onsite comprehensive

Additional Terms and Conditions

Technical compliance mentioning the bid number clearly must be submitted on OEM letterhead duly signed. Bidder must Provide the web link from OEM on their letterhead for the warranty online check facility along with the warranty certificate.

Windows 11 Professional should be OEM factory preloaded. OEM preloaded OS Certificate must be submitted on OEM letterhead

Ink signed Authorization letter (MAF) & Make In India certificate must be submitted for all the items on OEM letterhead. The MAF must clearly mention the bid number, product make and model and be signed and stamped by an authorized signatory of the OEM.

The OEM should be present in the market in the same product line category from the last 10 years. Documentary proof (PO) must be attached along with the bid.

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The OEM (either directly or through a reseller) as well as the bidder must have prior experience working in the education sector, specifically with Institutions of National Importance (INIs) such as IITs, NITs, IIITs, or IISc.

In addition, at least two purchase orders (POs), each for a minimum quantity of 50 laptops and executed during the last two financial years (FY 2024–25 and FY 2025–26), must be submitted along with the technical bid

All products supplied under this agreement must be strictly of commercial grade or business class. Bidders must submit verifiable manufacturer Product Data Sheets confirming the hardware is officially classified as a commercial/business line

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Specifications for laptop Ultra 5

SNo	Item	Specifications
1	Form Factor	Clamshell
2	Chassis	Metal A, C cover with metallic hinges
3	Processor	Intel latest generation Core Ultra 5 225H / AMD Ryzen-5 230 processor or higher;
4	Memory	16 GB DDR5 5600 MT/s with expandability up to 48 GB or Higher
5	Storage	Latest SSD technology PCIe NVMe 512 GB SSD drive or Higher
6	Graphics	Intel® Graphics / AMD Radeon Graphics
7	Audio	Integrated audio controller with internal speaker
8	Battery	56WHr or higher
9	Operating System	Windows 11 64 bit Professional
10	Networking	Integrated Intel Gigabit 10/100/1000 Ethernet Controller
		Intel® Wi-Fi 6/6E AX211 802.11ax 2x2 with Bluetooth 5.3
11	Ports	Ethernet RJ-45, 2 USB Type C with 10Gbps signaling rate or higher (For Power delivery, Display Port), 2 USB Type A or higher ports, HDMI port
12	Keyboard	Backlit + Spill-resistant Keyboard, Fingerprint Reader
13	Weight	<=1.5kg
14	Security	Hardware based endpoint security controller TPM 2.0
15	Certifications	Microsoft Windows 11, FCC, CE, RoHS, UL, EPEAT Gold India, Energy Star, TCO, MIL STD 810H (19 tests qualified)
		ISO 9001, 14001, 20001, 27001 for OEM
16	Display	14 inches UXGA (1920x1200), Min. 300 Nits
17	Warranty	OEM 3 Years onsite comprehensive

Additional Terms and Conditions

Technical compliance mentioning the bid number clearly must be submitted on OEM letterhead- duly signed. Bidder must Provide the web link from OEM on their letterhead for the warranty online check facility along with the warranty certificate.

Windows 11 Professional should be OEM factory preloaded. OEM preloaded OS Certificate must be submitted on OEM letterhead

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Specifications for AIO PC Ultra 7

SNo	Item	Specifications
1.	Form Factor	All in one form factor with height, tilt and swivel adjustable stand
2.	Chassis	PC & Monitor integrated in one Chassis
3.	Chipset	Commercial Class Intel® Q870 Chipset or higher
4.	Processor	Intel Core Ultra 7-265 Processor (2.4GHz, up to 5.3GHz with Intel® Turbo Boost Max Technology, 30MB L3 Cache, 20 Cores, 20 Threads) or Higher
5.	Memory	32GB DDR5-5600 Memory expandable up to 64 GB with 2 DIMM Slots or Higher
6.	Storage	512 GB PCIe NVMe SSD or Higher
7.	Graphics	Integrated UHD Graphics (with Intel AI Boost – 13 NPU TOPS)
8.	Display	23.8" IPS, antiglare with minimum resolution of 1920x1080, 16:9 aspect ratio, 1000:1 Contrast ratio, 300 nits brightness, viewing angle of 178/178, Integrated 5 MP webcam & Dual microphone; Should support Hardware Low Blue Light Feature
9.	Audio	Integrated audio controller with internal stereo speaker of atleast 2 x 2W
10.	Internal Microphone	AI-based noise cancellation/reduction
11.	Audio in and out (combo jack)	required
12.	Operating System	Microsoft Windows 11 Professional with OEM Recovery DVD or option of Cloud Recovery
13.	Networking	Integrated Intel Gigabit 10/100/1000 Ethernet Controller Intel® Wi-Fi 6/6E AX211 802.11ax 2x2 with Bluetooth 5.3
14.	Ports	Video: 1 HDMI 2.1, 1 HDMI 1.4 USB: 2 USB 3.2 Gen1, 2 USB 3.2 Gen 2, 2 USB Type C with at least 1 of 20Gbps
15.	Slots	1 M.2 for WLAN & 2 M.2 for Storage
16.	Keyboard	USB Wired Keyboard,
17.	Mouse	USB Optical Wired Mouse
18.	Power Supply	Internal/External Power Supply of 280W or Higher
19.	Volume	as per OEM
20.	Security	Hardware based endpoint security controller TPM 2.0 Integrated Intrusion Sensor Support for chassis cable lock devices
21.	Manageability	Out of band management independent of the power state and operating system state of PC Integrated utility to enables hardware level testing outside the operating system & Drivers should be available on OEM Website for download
22.	Collaboration	NPU leveraged collaboration features. OEM based Integrated 5MP Camera with automated speaker tracking, Integrated Mic & Speakers with AI based noise cancellation/reduction, Automatic background light correction

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23.	Certifications	Microsoft Windows 11, Ubuntu, FCC, CE, RoHS, UL, EPEAT Gold India, Energy Star, TCO, MIL STD 810H, ISO 9001, 14001, 20001, 27001 for OEM
24.	Warranty	3 Years onsite comprehensive OEM warranty

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Specifications for AIO PC Ultra 5

Sr. No	Item	Specifications
1.	Form Factor	All in one form factor with height, tilt and swivel adjustable stand
2.	Chassis	PC & Monitor integrated in one Chassis
3.	Chipset	Commercial Class Intel® Q870 Chipset or higher
4.	Processor	Intel® Core™ Ultra 5-235 Processor (3.4GHz, up to 5GHz, 24MB L3 Cache, 14 Cores, 14 Threads)
5.	Memory	16 GB DDR5-5600 Memory expandable up to 64 GB with 2 DIMM Slots or Higher
6.	Storage	512 GB PCIe NVMe SSD or Higher
7.	Graphics	Integrated UHD Graphics (with Intel AI Boost – 13 NPU TOPS)
8.	Display	23.8" IPS, antiglare with minimum resolution of 1920x1080, 16:9 aspect ratio, 1000:1 Contrast ratio, 300 nits brightness, viewing angle of 178/178, Integrated 5 MP webcam & Dual microphone; Should support Hardware Low Blue Light Feature
9.	Audio	Integrated audio controller with internal stereo speaker of atleast 2 x 2W
10.	Internal Microphone	AI-based noise cancellation/reduction
11.	Audio in and out (combo jack)	required
12.	Operating System	Microsoft Windows 11 Professional with OEM Recovery DVD or option of Cloud Recovery
13.	Networking	Integrated Intel Gigabit 10/100/1000 Ethernet Controller Intel® Wi-Fi 6/6E AX211 802.11ax 2x2 with Bluetooth 5.3
14.	Ports	Video: 1 HDMI 2.1, 1 HDMI 1.4 USB: 2 USB 3.2 Gen1, 2 USB 3.2 Gen 2, 2 USB Type C with at least 1 of 20Gbps
15.	Slots	1 M.2 for WLAN & 2 M.2 for Storage
16.	Keyboard	USB Wired Keyboard,
17.	Mouse	USB Optical Wired Mouse
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20.	Security	Hardware based endpoint security controller TPM 2.0 Integrated Intrusion Sensor Support for chassis cable lock devices
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