



Ministry of Culture
Government of India



National Council of Science Museums

33 Block GN, Saltlake Sector V
Bidhannagar, Kolkata 700 091

TENDER NO. I-18012/2/24(129)

Technical Specification

1) Desktop (05 Nos.)

Processor	Processor Make	Intel
	Processor Generation	14th Generation Intel Core i7-14700K (33MB Cache, 20 Core, 3.4GHz to 5.6GHz or higher)
	Processor Description	Latest Generation Intel Core i7 processor support upto 5.20 Ghz or higher clock speed.
Motherboard	Chipset Series	Intel Q series chipset compatible with the above processor. Motherboard make from the same desktop OEM (OEM logo must be embossed in the motherboard)
	Security	Discrete TPM 2.0
	Expansion Slots	1 full height PCIe x16 1 full height PCIe x16 (wired x 4) 1 full height PCIe x1 1 full height PCI
Graphics	Graphics Type	Integrated Intel® HD Graphics
Certification	ROHS Compliance	Yes
	BEE/ Energy Star for the given Model	8.0 or latest
	FCC,UL,CE (for the quoted Desktop model not for the quoted Desktop series).Desktop must be windows and ubuntu/red hat certification	Yes (all)
	ISO (OEM/Bidder)	ISO 9001,14001,27001,45000
	EPEAT India Gold (for the quoted desktop model)	Yes
	TCO Certification for quoted Monitor and Desktop	8.0 or latest
Operating System	Operating System (Factory Pre Loaded)	Factory pre-install Windows 11 professional (64 bit) or higher with latest Service Pack and Preloaded License, Systems Hardware driver should be available in OEM website against the offered model.OEM letter confirming that Operating system pre- loaded / pre-installed from OEM factory only.
	OS Certification	Windows and Ubuntu Linux (Both the certifications must be available in the Public Domain with the quoted Desktop model no .
Memory	RAM Size (GB)	16 GB DDR5 or more
	RAM Expandability	Minimum 128 GB
Power	Power Supply Capacity (Watt)	260W 80 Plus certified Power supply
	Minimum Power Efficiency Range (%)	90 %- 95% or more
Storage	Type of Drives used to populate the Internal Bays	SSD (NVMe)
	Total SATA Capacity (GB)	1TB SATA 3.5"
	Total SSD Capacity (GB)	1TB M.2 PCIe NVMe, SSD , Class 35
Connectivity	Wireless Connectivity	Yes
	If Yes, Type of Wireless Connectivity	Wi-Fi 6 2x2 (80MHz) and Bluetooth
	Number of Ethernet Ports	1
Ports	Type of Ethernet Ports	10/100/1000 on board Integrated Gigabit Port
	Number of USB Version 2.0 Ports	4 External USB 3.0 ports (2 front, 2 rear) and 6 External USB 2.0 ports (2 front, 4 rear) and 1 Internal USB 2.0
	Number of USB Version 3.2 Gen 1 Ports	(MT only); 1 RJ-45; 1 Serial; 1 VGA; 2 DisplayPort; 2 PS/2; 2 Line-in (stereo/microphone),
	Number of HDMI Ports	2 Line-out (headphone/speaker)
	Number of VGA / Display Ports	
Cabinet	Cabinet Form Factor	Tower
Input Devices	Keyboard & Mouse	Wireless Keyboard & Mouse should be same OEM make for desktop
Warranty	On Site OEM Warranty (Year)	3Years Onsite. (OEM supplied Desktop model warranty must be visible in the OEM website in respect to each product serial number)

Make & Model offered: _____

(To be entered by bidder)

Dated

Official Seal

Signature of the Tenderer/Constituted Attorney

2) Workstation (02 Nos.)

Specifications	Description
Processor	14th Generation Intel Core i7-14700K (33MB Cache, 20 Core , 3.4GHz to 5.6GHz or higher
Chipset	Intel W680 chipset or higher
Memory	32GB ECC DDR5 memory, expandable upto 128GB or higher; Should support atleast 4DIMM slots with a BIOS inbuilt tool for memory reliability required which works with ECC memory and can help to solve multiple hard errors and soft errors within the same block of memory, which can help reduce system downtime as far as memory failure in concern or with equivalent feature
Drive Controller	Integrated Intel Controller or higher
Hard Disk Drive	1TB PCIe NVME M.2 SSD and 2TB SATA HDD or higher; Workstation should support at least 3 SATA HDDs for future expandability
Expansion Slots	One Full-height Gen5 PCIe x16 slot One Full-height Gen3 PCIe x4 slot One Full-height Gen 4 PCIe x4 slot; Min 5 SATA slots for 2.5/3.5" HDD/ODD; Min 3 M.2 slots for NVMe SSD and 1 M.2 slot for Wifi & BT or equivalent
Graphic Card	Nvidia RTX 2000 Ada, 16GB or better; Workstation SMPS should support up to 48GB graphic card for future expandability
I/O Ports	Min 4x USB TypeA 3.2 Min 4x USB TypeC 3.2 Min 2x USB TypeA 2.0 1 – Universal Audio Jack 1x RJ45 Network Connector 1x Audio Line Out
OS Certification	Windows and Ubuntu Linux (Both the certifications must be available in the Public Domain with the quoted Workstation model no .
Networking	1x Intel Ethernet Connection 10/100/1000 or better
Audio	Intelligent HD Audio delivers audio and mic enhancements and reduces background noise with internal speaker of higher
Power Supply	Min. 1000W Power Supply, 92% Power efficient Platinum PSU or better
OS	Windows 11 Pro for Workstations (64-bit)
Keyboard & Mouse	wired Keyboard & Mouse, should be of Same OEM make as workstation
Security	Trusted Platform Module (TPM 2.0), Chassis Intrusion Switch, Setup/BIOS Password, I/O Interface Security
Regulatory Compliance	Energy Star, EPEAT Gold registered
Type of Bundled Software	Artificial Intelligence Based performance enhancement software, which ensures optimum performance delivery for leading ISV application. Provide documentary proof. or with equivalent features
Warranty	3 Years Onsite Warranty, (OEM supplied Workstation model warranty must be visible in the OEM website in respect to each product serial number)

Make & Model offered: _____

(To be entered by bidder)