Ministry of Culture
Government of India

# National Council of Science Museums
## 33 Block GN, Saltlake Sector V
## Bidhannagar, Kolkata 700 091

**I-18012/7/23(67)**

**Technical Specification**

# 1) Specifications for a Desktop PC- 4 nos.

**Operating System :** Windows 10 Professional 64bit (Licensed)

**Processor :** 12th Gen Intel® Core™ i7-11700F processor (8-Core, 16M Cache, 2.5GHz to 4.9GHz)

**Processor family :** 12th Generation Intel® Core™ i7 processor

**Memory :** 16GB, 16Gx1, DDR4, 2933MHz

**Hard drive :** 512GB M.2 PCIe NVMe Solid State Drive + 1TB 7200 rpm 3.5" SATA Hard Drive

**Graphics :** Intel® UHD Graphics 730 with shared graphics memory

**USB Ports :** 6 ports;  2x front and 3x rear USB 3.1 Gen2; 2x USB 2.0 via internal headers; USB Revision 2.0, 3.1 Gen2

**SATA 6.0 Gb/s Ports :** 4

**Thunderbolt™ 3 Ports :** 1

**Expansion slots :** PCI Express Revision - Gen3;PCI Express Configurations ‡ - M.2 slot with PCIe X4 lanes;

**Integrated Bluetooth :** Yes

**Removable Memory Card Slot :** microSDXC with UHS-I support;

**M.2 Card Slot (storage) :** 22x42/80

**Network interface :** Integrated LAN Intel® Ethernet Connection I219-V; Integrated Intel® Wi-Fi 6 2x2 (Gig+) and Bluetooth

**Pointing device :** USB Hardened Mouse

**Keyboard :** USB Wired Keyboard

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**Dated**                    **Official Seal**                    **Signature of the Tenderer/Constituted Attorney**

**Security & Reliability:** Intel® AES New Instructions

**Warranty:** 3-year warranty and service offering includes 3 years of parts, labor and on-site repair.

**Services:** Receive 3 years of next business day onsite repair from a qualified technician for your computing device.

**Make & Model offered:** _____

**To be entered by bidder**

# 2. Specifications for a Desktop PC – 4TB Storage with mirror – 1 no.

**Operating System :** Windows 10 Professional 64bit (Licensed)

**Processor :** 12th Gen Intel® Core™ i7-11700F processor (8-Core, 16M Cache, 2.5GHz to 4.9GHz)

**Processor family :** 12th Generation Intel® Core™ i7 processor

**Memory :** 16GB, 16Gx1, DDR4, 2933MHz

**Hard drive :** 512GB M.2 PCIe NVMe Solid State Drive + 4TB 7200 rpm 3.5" SATA Hard Drive * 2

**Graphics :** Intel® UHD Graphics 730 with shared graphics memory

**USB Ports :** 6 ports;  2x front and 3x rear USB 3.1 Gen2; 2x USB 2.0 via internal headers; USB Revision 2.0, 3.1 Gen2

**RAID Configuration :** 2.5" HDD/SSD (RAID-1)

**SATA 6.0 Gb/s Ports :** 4

**Thunderbolt™ 3 Ports :** 1

**Expansion slots :** PCI Express Revision - Gen3;PCI Express Configurations ‡ - M.2 slot with PCIe X4 lanes;

**Integrated Bluetooth :** Yes

**Removable Memory Card Slot :** microSDXC with UHS-I support;

**M.2 Card Slot (storage) :** 22x42/80

**Network interface :** Integrated LAN Intel® Ethernet Connection I219-V; Integrated Intel® Wi-Fi 6 2x2 (Gig+) and Bluetooth

**Pointing device :** USB Hardened Mouse

**Keyboard :** USB Wired Keyboard

**Security & Reliability:** Intel® AES New Instructions

**Warranty :** 3 year warranty and service offering includes 3 years of parts, labor and on-site repair.

**Services :** Receive 3 years of next business day onsite repair from a qualified technician for your computing device

**Make & Model offered:** _____

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**To be entered by bidder**

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# 3. Computer Monitor

## 24 Inch Computer Monitor –　　　　5 nos.

**Display Type :** LED-backlit LCD monitor / TFT active matrix

**Diagonal Size :** 24"

**Viewable Size :** 23.8"

**Native Resolution:** Full HD (1080p) 1920 x 1080 at 75 Hz

**Aspect Ratio:** 16:9

**Panel Type:** IPS (In-Plane Switching)

**Adaptive-Sync Technology:** AMD FreeSync

**Pixel Pitch :** 0.2745 mm

**Pixel Per Inch :** 92.56

**Brightness:** 250 cd/m²

**Contrast Ratio:** 1000:01

**Colour Support :** 16.7 million colors

**Response Time:** 8 ms typical (Normal) 4 ms typical (Fast) (gray to gray)

**Display Position Adjustments:** Tilt

**Screen Coating :** Anti-glare, 3H Hard Coating

**Backlight Technology :** LED backlight

**Features:** LED edgelight system, Flicker Free technology, Mercury free, arsenic-free glass

**Interfaces:** 1. HDMI X 2 | 2. Audio line-out

Warranty : 3 years on-site warranty

**Make & Model offered:** _____

**To be entered by bidder**

# 4. UPS Specifications

**Line interactive 1 KVA Backup UPS – 5 nos.**

Back-UPS 1100VA, 230V

Main Input Voltage : 230 V

Main Output Voltage : 230 V

Rated power in W : 660 W

Rated power in VA : 1100 VA

Number of power socket outlets : 4 India 2/3-pin 6A , 1 India 2/3-pin 6A surge

Cable length : 1.52 m

Number of cables : 1

Battery type : Lead-acid battery

Network frequency : 45...65 Hz auto-sensing

Plug standard : India 3-pin 6A

Input voltage limits : 145...290 V

Switching current capacity : 7 A

Maximum configurable power in W : 660 W

Output frequency : 50 Hz sync to mains

UPS type : Line interactive

Wave type : Stepped approximation to a sinewave

Efficiency : 72 % (full load), 84 % (half load)

Full load runtime : 660 W

Maximum configurable power in VA : 1100 VA

Transfer time 10 ms typical : 12 ms maximum

Conformance

Product certifications BIS

*….contd*

Environmental

Ambient air temperature for operation : 0…40 °C

Relative humidity : 0…95 %

Operating altitude 0...3000 m

Ambient air temperature for Storage :-15…45 °C

Storage Relative Humidity : 0…95 %

Storage altitude:  0…15000 m

Acoustic level : 45 dBA

Battery recharge time : 6 h

Number of battery replacement quantity : 2

Battery voltage : 24 V

Battery power in VAH : 128 VAh runtime

REACh Regulation REACh Declaration : yes

EU RoHS Directive Compliant : yes

EU RoHS Declaration : Yes

Mercury free : Yes

RoHS exemption information : Yes

Optimized Energy Efficiency Energy efficient product : yes

Warranty : 3 year on-site warranty

**Make & Model offered:** _____
**To be entered by bidder**