

 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(409)

Technical Specification

1) Workstation Laptop (01 Set)

Type: Mobile workstation

Operating system: Windows 11 Pro 64 Bit

Processors: **Intel Ultra 9 185H** or better (up to 5.1 GHz with Turbo Boost Technology, 24 MB L3 cache, 16 cores, 22 threads)

Chipset: Intel integrated SoC

Memory: **32 GB DDR5-5600 MHz** RAM (1 x 32 GB)

Memory slots: 2 SODIMM; supports dual channel, Transfer rates up to 5600 MT/s.

1 TB SSD Solid State Drive

Display: 40.6 cm (16 inch) diagonal, WUXGA (1920 x 1200), IPS, anti-glare, minimum 400 nits, 100% sRGB

Display resolution: WUXGA

Graphics: **NVIDIA RTX 2000 Ada Generation Laptop GPU with dedicated 8 GB GDDR6 memory**

Audio: Dual stereo speakers, Dual array digital microphones, functions keys for volume up and down, combo microphone/headphone jack, HD audio

Fingerprint Reader: Fingerprint sensor

Pointing device: Multi-touch gesture support, taps enabled as default

Keyboard: Spill-resistant, backlit keyboard with numeric keypad

Wireless: Wi-Fi 6E AX211 (2x2), Bluetooth 5.3 wireless

Ports: minimum 1 USB Type-A 5 GBps signalling rate (charging); 1 HDMI 2.1; 1 headphone/microphone combo; 1 power connector; minimum 2 Thunderbolt 4 with USB Type-C 40 GBps signalling rate (USB Power Delivery, DisplayPort 2.1)

Power: Minimum 150 W external AC power adapter

Battery type: Minimum Long Life 6-cell, Minimum 83 Wh Li-ion polymer

Energy Efficiency Compliance: TCO Certified

Weight: Not more than 2.5 kg

Warranty: 3 Years comprehensive Warranty to be provided by the OEM

Dated:

Signature of the Tenderer with official seal

Carry case: Back pack

Note: All components of the Laptop should only be provided by the OEM, no parts will be accepted from any other agency except the OEM.

Make & Model offered: _____
(To be entered by bidder)

2) Workstation Laptop (01 Set)

Type: Mobile workstation

Operating system: Windows 11 Pro 64Bit

Processors: **Intel Ultra 7 155H** or better (up to 3.8 GHz E-core Max Turbo frequency, up to 4.8 GHz P-core Max Turbo frequency, 24 MB L3 cache, 6 P-cores and 8 E-cores, 22 threads) or better

Chipset: Intel integrated SoC

Memory: **32 GB** DDR5-5600 MHz RAM (1 x 32 GB)

Memory slots: 2 SODIMM; supports dual channel, Transfer rates up to 5600 MT/s.

1 TB SSD Solid State Drive

Display: 40.6 cm (16 inch) diagonal, WUXGA (1920 x 1200), IPS, anti-glare, 400 nits, 100% sRGB

Display resolution: WUXGA

Graphics: **NVIDIA RTX A500 Laptop GPU, dedicated 4 GB GDDR6 memory**

Audio: Dual stereo speakers, Dual array digital microphones, functions keys for volume up and down, combo microphone/headphone jack, HD audio

Fingerprint Reader: Fingerprint sensor

Pointing device: Multi-touch gesture support, taps enabled

Keyboard: Spill-resistant, backlit keyboard with numeric keypad

Wireless: Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless

Ports: 1 USB Type-A 5 Gbps signalling rate (charging); 1 HDMI 2.1; 1 headphone/microphone combo; 1 power connector; 2 Thunderbolt 4 with USB Type-C 40 Gbps signalling rate (USB Power Delivery, DisplayPort 2.1)

Power: Minimum 150 W external AC power adapter

Battery type: Long Life 6-cell, Minimum 83 Wh Li-ion polymer

Energy Efficiency Compliance: TCO Certified

Weight: Not more than 2.5 Kg

Warranty: 3 Years comprehensive Warranty to be provided by the OEM

Carry case: compatible backpack

Note: All components of the Laptop should only be provided by the OEM, no parts will be accepted from any other agency except the OEM.

Make & Model offered: _____
(To be entered by bidder)

Dated:

Signature of the Tenderer with official seal

3) Laptop Computer (02 Sets)

Technical specification

Processor: Intel core i5 13th Gen or better
RAM: 8 GB, 2 slots supporting up to 32gb
Graphic card: Integrated
Storage: Minimum 512 GB, M.2, PCIe NVMe, SSD
Networking: Realtek Wi-Fi 6 RTL8852BE, 2x2, 802.11ax, Bluetooth
Keyboard & mouse: Keyboard, TouchPad
Multimedia: High quality speakers / headset/mic combo jack / HD camera / single microphone
Display: 15.6" FHD (1920x1080) IPS, Anti-Glare, Minimum 250 nit, Narrow Border, LED-Backlit

Ports & Connectors: 1 USB 3.2 Gen 1 Type-A port, 1 USB 3.2 Gen 1 Type-C, 1 USB 2.0 port, 1 Headset jack, 1 HDMI 1.4 (The maximum resolution supported over HDMI is 1920x1080 @60Hz.), 1 SD 3.0 card slot

Operating system: Windows 11 Home 64 Bit or better

Pre-installed software: Microsoft Office Home and Student (Lifetime)

Battery: Minimum 41 WHr

Environmental compliance: Regulatory Model: P111G/Regulatory Type: P111G001/ENERGY STAR

Accessories: 65 Watts Power Adaptor, Carry Bag (made by waterproof Nylon)

With all necessary accessories and drivers

Warranty: Minimum 1 year (Parts & Labour)

Make & Model offered: _____
(To be entered by bidder)

4) DLP Short Throw Projector

- 2 Sets

Detailed Specifications: -

Resolution: $\geq 1920 \times 1080$
Brightness: ≥ 3800 Lumens
Contrast: $\geq 50,000:1$
Display Technology: DLP
Lamp Life: ≥ 4000 hours (Bright Mode), ≥ 15000 hours (Eco+ Mode)
Display Colours: ≥ 1.07 billion
Throw Ratio: $\leq 0.49:1$
Image Size: 36.2" ~ 300"
Aspect Ratio: 16:9, 4:3, LBX, Native, Auto
Scan Rate: Horizontal: 15.375 ~ 91.146 KHz
Vertical: 50 ~ 85 Hz
Keystone Correction: +/- 40° Vertical
Projection Lens: focal length = 7.42 mm

Speaker: Integrated 10W
Light Source: Lamp
Port: HDMI, USB, VGA In, VGA Out, Audio In, Audio Out, RS232
Power Supply: 100V ~ 240V AC $\pm 10\%$, 50~60 Hz
Features: 4K Signal Compatible
HDR Compatible
MHL Display
Free orientation for powered operation
Dust resistant
Instant ON/OFF.
Kensington Compatible
Remote Control of range around 10 ft

Onsite Warranty: Standard 2 years with Parts and Labour for the Base Projector.
(anywhere across India) Minimum 1 year or 10,000 hours for the light source, which is earlier
Accessories to be supplied: –

- i. Wireless Remote Control with batteries,
- ii. AC Power Cord
- iii. RGB/HDMI Cable
- iv. Soft Carrying Case

Make & Model offered: _____
(To be entered by bidder)

Dated:

Signature of the Tenderer with official seal