






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(143)

Technical Specification

1) Desktop Computer

- 9 Sets

Specification:

Processor: Generation 14th Generation Intel Core i7-14700 (33MB Cache, 20 Core , 3.4GHz to 5.3GHz or higher
 Motherboard Chipset Series: Intel Q series chipset compatible with the above processor.

Security: Discrete TPM (Trusted Platform Module) 2.0 or better

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 Type: Integrated Intel HD Graphics

Operating System: Factory pre-install Windows 11 Home or higher with latest Service Pack and Preloaded License.
 Systems Hardware drivers should be available in the OEM website against the offered model for regular update
 (kindly provide the link)

(OEM must support in writing to confirm that Operating system pre-loaded / pre-installed from OEM factory only)

RAM Size: Minimum 16 GB DDR5, RAM Expandability should be Minimum 128 GB

Power Supply Capacity: Minimum 260W 80 Plus certified Power supply

Minimum Power Efficiency Range: 90%- 95% or more

Type of Drives used to populate the Internal Bays: SSD (NVMe)

Total SATA Capacity: None

Total SSD Capacity: 512 M.2 PCIe NVMe, SSD , Class 35

Wi-Fi 802.11ax and Bluetooth V 5.20

Ethernet Ports: 10/100/1000 on board Integrated Gigabit Port

4 External USB 3.0 ports (2 front, 2 rear), 6 External USB 2.0 ports (2 front, 4 rear), 1 Internal USB 2.0

1 RJ-45; 1 Serial;

1 VGA; 2 DisplayPorts;

2 Line-in (stereo/microphone),

Preferred Cabinet Form Factor: SFF (7 to 13 Litres)

OEM LED Backlit Monitor: Minimum 23.8"

OEM Keyboard & Mouse

Motherboard, Keyboard and mouse should be from the same desktop OEM

Certification and compliances

OS Certification: Windows/Linux OS certifications from the OEM of the OS must be furnished for the quoted model
 (model specific certification is mandatory).

ROHS Compliance

Dated

Official Seal

Signature of the Tenderer/Constituted Attorney

BEE/ Energy Star for the quoted Model should be 8.0 or latest
FCC,UL,CE (for the quoted Desktop model)
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

All components of the desktop must be supplied by the OEM and details of all parts must be available in the OEM portal against each product serial number (kindly provide the link)

Warranty: On Site Warranty for 3 Years to be provided by OEM at Ranchi, Jharkhand

OEM supplied Desktop model warranty details must be available in the OEM portal against each product serial number (kindly provide the link)

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

2) Desktop Computer with 4 GB Graphics Card

- 1 Set

Specification:

Processor: Generation 14th Generation Intel Core i7-14700 (33MB Cache, 20 Core , 3.4GHz to 5.3GHz or higher
Motherboard Chipset Series: Intel Q series chipset compatible with the above processor or better
Security: Discrete TPM (Trusted Platform Module) 2.0 or better

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: **AMD Radeon RX 6500, 4 GB GDDR6.**

Operating System: Factory pre-install **Windows 11 Professional** or higher with latest Service Pack and Preloaded License.

Systems Hardware drivers should be available in the OEM website against the offered model for regular update/reinstallation (kindly provide the link)

(OEM must support in writing to confirm that Operating system pre-loaded / pre-installed from OEM factory only)

RAM Size: Minimum 16 GB DDR5, RAM Expandability should be Minimum 128 GB

Power Supply Capacity: Minimum 260W 80 Plus certified Power supply
Minimum Power Efficiency Range: 90%- 95% or more

Type of Drives used to populate the Internal Bays: SSD (NVMe)

Total SATA Capacity: None

Total SSD Capacity: Minimum 512 M.2 PCIe NVMe, SSD , Class 35

Wi-Fi 802.11ax and Bluetooth V 5.20

Ethernet Ports: 10/100/1000 on board Integrated Gigabit Port

4 External USB 3.0 ports (2 front, 2 rear), 6 External USB 2.0 ports (2 front, 4 rear), 1 Internal USB 2.0

1 RJ-45; 1 Serial;

1 VGA; 2 DisplayPorts;

2 Line-in (stereo/microphone),

Preferred Cabinet Form Factor: SFF (7 to 13 Litres) or better

OEM LED Backlit Monitor: Minimum 23.8"

OEM Keyboard & Mouse

Motherboard, Keyboard and mouse should be from the same desktop OEM

Certification and compliances

OS Certification: Windows/Linux OS certifications from the OEM of the OS must be furnished for the quoted model (model specific certification is mandatory).

ROHS Compliance

BEE/ Energy Star for the quoted Model should be 8.0 or latest

FCC,UL,CE (for the quoted Desktop model)

ISO (OEM/Bidder): ISO 9001, 14001, 27001, 45000

EPEAT India Gold (for the quoted desktop model)

TCO Certification for quoted Monitor and Desktop: 8.0 or latest

All components of the desktop must be supplied by the OEM and details of all parts must be available in the OEM portal against each product serial number (kindly provide the link)

Dated

Official Seal

Signature of the Tenderer/Constituted Attorney

Warranty: On Site Warranty for 3 Years to be provided by OEM at Ranchi, Jharkhand

OEM supplied Desktop model warranty details must be available in the OEM portal against each product serial number (kindly provide the link)

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

3) Line interactive UPS, 1100 VA

- 10 Nos

Specification:

Rating 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 Indian 2/3-pin 6A , 1 Indian 2/3-pin 6A surge
Battery type : Lead-acid battery
Network frequency : 45...65 Hz auto-sensing
Plug standard : Indian 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
Product should be BIS certified
Ambient air temperature for operation : 0...40 °C
Relative humidity : 0...95 %
Operating altitude 0...3000 m
Acoustic level : 45 dBA or better
Battery recharge time : 6 h
Battery: 2 SMF, 12 V, minimum 7 AH capacity

Warranty: on-site warranty for 2 years to be provided at Ranchi, Jharkhand

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

4) LCD/DLP Ultra Short Throw Projector with Laser light source

- 1 Set

Specifications

Display technology: LCD/DLP
Native Resolution: 1080p Full HD (1920x1080)
Brightness: Minimum 4000 lumens
Contrast ratio: Around 300,000:1
Dynamic Contrast ratio: Around 2,000,000:1
Native aspect ratio: 16:9, should be compatible to 4:3 and 16:9
Keystone correction horizontal: +/-5° or better
Keystone correction vertical: +/-5° or better
Displayable colours: 1000 Million or better
Horizontal scan rate: 15KHz to 140KHz
Vertical scan rate: 24 Hz to 120Hz
Uniformity: 75% or better
Screen size: Around 2.03 mtrs to 3.3 mtrs (80" to 130") diagonal
Light source: Laser
Light source life: Minimum 30000 hours

Throw ratio: 0.253:1 or better
Projection distance: around 0.17m - 0.45m
Focal length: around -3.70mm

Input Connections: 2 x HDMI 2.0, 1 x 3D sync
Outputs Connections: 1 x USB-A power (1.5A capacity), 1 x Audio 3.5mm, Control 1 x RS232, 1 x RJ45

PC compatibility: UHD, FHD, UXGA, SXGA, WXGA, HD, XGA, SVGA, VGA, Mac
Security bar, Kensington Lock, Password protected interface

Display setting language must be English
Projector should be rated for 24x7 operation
Projector should be compatible to ceiling mount
Operating conditions 0° C to 40° C, max altitude 10,000ft
Heat dissipation: around 690 BTU/hour or less
Built in speaker: Minimum 15 W
Battery powered Remote control
Networking: Through LAN for control
Power consumption: Should be not more than 250 W

Warranty:
Projector: Should be minimum three years.
Light Source: Should be minimum 20000 hours of three years whichever is earlier

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

5) 2.0 KVA Online UPS having 30 minutes backup time**- 1 Set**

Main Input Voltage:	230V
Other Input Voltage:	220 V, 240 V
Input voltage limits:	110 - 280 V half load, 160 -280 V full load
Number of input connectors:	Hard wire 3-wire (1P + N + E)
Network frequency:	40 - 70 Hz
Main Output Voltage:	230 V
Other Output Voltages:	220V, 240V
Rated power in W:	1600 W
Rated power in VA:	2000 VA
Output frequency:	50/60 Hz +/- 3 Hz sync to mains
Harmonic distortion:	3 %
UPS type:	Double conversion online
Wave type:	Sine wave
Load Crest Factor:	3: 1
Efficiency at Full Load:	88.0 % (full load)
Bypass type:	Internal bypass (automatic and manual)
Output connection type:	Minimum 3 nos. (India 3-pin 6A)
Output connector type:	Hard wire 3-wire (1P + N + E)
Number of rack unit:	2U
Battery Voltage:	72V
Battery Type:	SMF or Flooded battery compatible, internal charger 2A - 13A programmable, Should use external battery system
Battery charger power:	700 W rated
Batteries:	6 External 12v, 26AH (Or equivalent) Sealed maintenance free Battery with battery rack, connection cable and UPS to battery power Connector.
Battery warranty:	full replacement warranty for 2 years
Mounting:	Rack-mounted with kit
USB compatible:	Yes
Alarm:	Alarm when on battery : distinctive low battery alarm : overload continuous tone alarm
Emergency power off:	Yes
Control panel:	Multifunction LCD status and control console
Product certifications:	BIS
Surge energy rate:	600 J

Accessories: All accessories including batteries and racks for installation of the system

Warranty: 2 years repair or replacement to be provided at Ranchi, Jharkhand

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

6) LCD/DLP Projector with Laser Light Source

- 1 Set

Projector Specification

Display technology: LCD/DLP
Native Resolution: Minimum 1280 x 800
Brightness: Minimum 4000 lumens
Contrast ratio: Around 300000:1
Aspect ratio should be compatible with 4:3 & 16:9
Keystone correction: +/-40° vertical or better
Light source: Laser
Life of Light source: Minimum 30000 hours
Throw ratio: Around 1.54:1 ~ 1.72:1
Projection distance: 1m - 10m
Zoom ratio: Around 1.1
Zoom type: Manual
Focal length: Around 21.5 to 24.00 mm
Connectivity: Inputs 2 x HDMI 1.4a , Outputs 1 x Audio 3.5mm, 1 x USB-A power 1.5A
Control 1 x RS232
Compatibility: NTSC M/J, 3.58MHz, 4.43MHz PAL B/D/G/H/I/M/N, 4.43MHz SECAM B/D/G/K/K1/L, 4.25/4.4MHz 480i/p, 576i/p, 720p(50/60Hz), 1080i(50/60Hz), 1080p(50/60Hz)
Projector should be operable in any orientation and capable of 24 x 7 operation
Operating Temperature: 0°C to 40°C, Operating Humidity: 80%,
Built in speaker: Minimum 15W
Power: 100VAC to 240VAC, 50-60Hz

Accessories: Remote control, AC power cord

Warranty:
Projector: Should be minimum three years.
Light Source: Should be minimum 20000 hours of three years whichever is earlier
To be provided at Bhubaneswar, Odisha

Make & Model offered: _____

(To be entered by bidder)