NATIONAL COUNCIL OF SCIENCE MUSEUMS
SECTOR-V, BLOCK-GN, BIDHANNAGAR,
KOLKATA – 700 091.
I-18012/7/21(226)

Technical Specification

1. Workstation Computer with Graphics Card **– 2 sets**

Specification:

Form Factor: Tower
Processor Make: Intel
Processor Generation: 10
Number of Cores per Processor: 10
Processor Base Frequency (GHz):   3.7
Processor Description: Intel Core i9
Processor Number: Intel Core i9 10900K
Number of Sockets populated with the Processors: 1
Cache (MB):   20
Chipset Number: Intel W480
Graphics Type: Dedicated/Discrete
Number of Graphic Cards: 1
Graphic Card: nVIDIAQuadro P1000 4GB
Operating System (Factory Pre-Loaded): Windows 10 Professional 64 bit
RAM Size: 16 GB
RAM Expandability upto using spare DIMM Slots (GB)   64
Type of Drives used to populate the internal Bays   PCle
Capacity of Boot Drive: 512 GB SSD
Type of Drives used to populate the Internal Bays   SATA
Number of Internal Bays populated with SATA Drive   1
Total SATA Drive Capacity (GB)   1000
Number of RAID Controller Ports   4
Speed of RAID Controller Ports: 6GBPS
Number of Ethernet Ports   1
Display Availability   Monitor
Display Size (cm)   58- 61
Display Type   Non Touch
Panel Type   Flat
Panel Technology   IPS
Display Resolution (Pixels)   1920x1080

On Site OEM Warranty: 3 Years comprehensive

Dated   :

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2. Workstation Computer with Graphics Card   **– 1 set**

Specification:

Form Factor: Tower
Processor Make: Intel
Processor Generation: 10
Number of Cores per Processor: 10
Processor Base Frequency (GHz):   3.7
Processor Description: Intel Core i9
Processor Number: Intel Core i9 10900K
Number of Sockets populated with the Processors: 1
Cache (MB):   20
Chipset Number: Intel W480
Graphics Type: Dedicated/Discrete
Number of Graphic Cards: 1
Graphic Card: nVIDIA Quadro P1000 4GB or better
Operating System (Factory Pre-Loaded): Windows 10 Professional 64 bit
RAM Size: 16 GB
RAM Expandability upto using spare DIMM Slots (GB)   64
Type of Drives used to populate the internal Bays   PCIe
Capacity of Boot Drive: 512 GB SSD
Type of Drives used to populate the Internal Bays   SATA
Number of Internal Bays populated with SATA Drive   1
Total SATA Drive Capacity (GB)   1000 Minimum
Number of RAID Controller Ports   4
Speed of RAID Controller Ports: 6GBPS
Number of Ethernet Ports   1
Display Availability   Monitor
Display Size (cm)   58- 61
Display Type   Non Touch
Panel Type   Flat
Panel Technology   IPS
Display Resolution (Pixels)   1920x1080

On Site OEM Warranty: 3 Years comprehensive

Warranty: Three years onsite warranty to be provided at Guwahati, Assam
detailed address and contact addresses are to be provided for after sales service

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3. DLP Projector with Laser Light source   **- 02 Sets**

Detailed Technical Specifications:-

Native Resolution: 1920X1080 pixels
Native Aspect Ratio: 16:9
Brightness: Minimum 4000 ANSI Lumens
Contrast Ratio: 300000:1 or better
Lens Type: Around 1.3X Manual Zoom & Focus, **360-degree and portrait projection**
Lens Offset: Around95% to 110%
Light Source: Laser Phosphor
Light Source Life: Minimum 20,000 Hours
Screen Size: Around 30 to 300 inch diagonal
Projection Range: 1m to 8m
Throw Ratio: Around 1.21–1.59 or better
Keystone Correction: ±40° Vertical
Uniformity: ≥85%
Colour Reproduction: Full colour,up to 1 billion colours
Power Source: AC100 to 240V, 50Hz
Video SignalCompatibility:DTV/HDTV 480i/480p/576i/576p/720p/1080i/1080p
Computer Input: UHD, FHD, UXGA, SXGA, WXGA, HD, XGA, SVGA, VGA, Mac

Input/Output: 1 x HDMI 2.0, 1 x HDMI 1.4a 3D support, 1 x VGA (YPbPr/RGB), 1 x Audio 3.5mm
OUTPUTS: 1 x Audio 3.5mm, 1 x USB-A power 1.5A
Noise Level: ≤ 32dB
Control Terminal: 1 x RS232, 1 x RJ45, 1 x micro USB service

Ultimate Control: Crestron, Extron, AMX, PJ-Link and Telnet LAN Commands

2D 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)
3D compatibility   : Side-by-Side:1080i50 / 60, 720p50 / 60 Frame-pack: 1080p24, 720p50 / 60
Over- Under: 1080p24, 720p50 / 60
3D security   : Full 3D security bar , Kensington lock , Password protected interface
IP rating   : IP6X
Operating Temp.:   Around 5   to 40°Cor better
Operating Humidity: Around 20 to 85% or better
Operational Sustainability: 24 x 7
Speaker   : 10 Watt
LAN Control   : Yes
Should have free orientation for powered operation.
Should be dust resistant.
Should have facility for instant ON and OFF.

Should have Remote Control having range around 15 ft.
Security Compatibility: Kensington Compatible / Power On Password
Should have Ceiling Mounting facility.

Accessories to be supplied: (1) Wireless Remote Control with batteries,
(2) RGB Cable

Warranty: Minimum 3 years with Parts and Labour for the Projector at Guwahati, Assam
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Tender specific Manufacturer'sAuthorisation Certificate is to be provided.

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4. 3 KVA Online True Sinewave UPS having 30 minutes backup time   **01 Set**

Technical Parameters

UPS Capacity	3 kVA UPS System (1Ph Input /1Ph Output)
Topology	True On-line Double Conversion UPS
Output power capacity	2.4KW

Input

Voltage Range	110 - 300 VAC based on the load percentage
Frequency	50 Hz
Frequency Range	45 to 55 Hz
Power Factor	≥ 0.99 at full load and nominal input Voltage
Current THD	< 5%

Output

Voltage	230 VAC
Voltage Regulation	+ / - 1%
Frequency (Free Running Mode)	50 Hz ± 0.1 Hz
Frequency (Synchronisation Mode)	45 to 55 Hz
Harmonic Distortion (THD)	< 2% (linear load)
	< 5% (non-linear load)
Output Waveform	Sine wave
Crest Factor	3:1
Inverter Efficiency	> 90%
Power Factor	0.9 Lagging
Overload	101% - 109% for 5 minutes
	110% - 129% for 1 minute
	130%-150% for 10 Sec
System DC Voltage	≥96 VDC

Battery

Battery Type	12 V Sealed Lead Acid Maintenance Free
Battery make	Exide/ quanta
Battery charging	Constant Current & Constant Voltage
Back up time	30 Mins Backup

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Charger	Built-in solid state float-cum-equalizing charger with automatic boost / trickle charge modes with current limiting features.
VAH Required	≥ 2496
Efficiency	
AC/AC (overall efficiency)	≥ 85% (at full Load)

Features

Eco mode	Available
Overload capacity	Available
Converter mode	Available
Bypass parameters configurable	Available
Display	LCD Display

Mechanical

Ingress protection	IP 20
Bypass	Static Bypass
Maintenance Bypass	Available
Certifications	
ISO 9001 : 2008	
ISO 14001 : 2004	
BIS Certificate	
PEP Certificate	
Warranty	2 Years on UPS & 2 Years on Battery from date of supply.
Service purpose	UPS OEM should have toll free number facilities for all type service call logging support.
Criteria	
	UPS OEM shoul have 400 CR turnover consecutive last 3 financial Years
	UPS OEM shoul have own Factory premises in India
Authorization	Tender specific OEM Authorization is to be furnished

Comprehensive warranty for two years to be provided at Guwahati, Assam

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<u>TENDER NO. I-18012/7/21(226)</u>

SUPPLY OF Desktop PC and Workstation Computer AS PER ENCLOSED TECHNICAL SPECIFICATION Annexure F and NIT of tender document.

Make & Model Sheet

Sl. No.	Description of Items	Quantity	Make & Model Offered (To be entered by bidder)
01	Workstation Computers	02 Sets	
02	Workstation Computer with Graphics Card	01 Set	
03	DLP Projector with Laser light source	02 Sets	
04	3 KVA Online True Sinewave UPS having 30 Minutes Back up	01 Set	

Dated   :

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