Technical Specification

Desktop Computer

27 nos.

Items	Specification Name	Bid Requirement (Allowed Values)
Processor	Processor Make	Intel
	Processor Generation	12th or Higher
	Number of Cores per Processor	16 or higher
	Processor Description	Latest Generation Intel Core I7 processor support upto 5.20 Ghz or higher clock speed.
	Cache (MB)	30
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 (PCle x 16) (Number)	1
	Expansion Slots (# of M Dot 2)	3
Graphics	Graphics Type	Dedicated 4 GB 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)	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 . ** Quoted Desktop series will not accept)
Memory	RAM Size (GB)	32 GB DDR5 or more

	RAM Expandability	Minimum 128 GB
Power	Power Supply Capacity (Watt)	260W 80 Plus certified Power supply
	Minimum Power Efficiency Range (%)	85-90 % or more
Storage	Type of Drives used to populate the Internal Bays	SSD (NVMe)
	Total SATA Capacity (GB)	0
	Total SSD Capacity (GB)	512GB M.2 PCIe NVMe, SSD , Class 35
Connectivity	Wireless Connectivity	Yes
	If Yes, Type of Wireless Connectivity	Wi-Fi 802.11ax and Bluetooth V 5.20
	Number of Ethernet Ports	1
	Type of Ethernet Ports	10/100/1000 on board Integrated Gigabit Port
Ports	Number of USB Version 2.0 Ports	4
	Number of USB Version 3.2 Gen 1 Ports	4
	Number of USB Version 3.2 Type C Port	1
	Number of HDMI Ports	0,1
	Number of VGA / Display Ports	1
Cabinet	Cabinet Form Factor	Tower
Monitor	Monitor Technology	IPS, VA, TN
(Same	LED Backlit Monitor Size (INCHES)	21.5 or higher
Desktop OEM Make)	Monitor Resolution (PIXELS)	1920 x1080 Or higher
	Number of VGA Ports in the Monitor	1
	Number of HDMI Ports in the Monitor	1
	Number of Display Ports in the Monitor	1
	Type of connector cable with Monitor	HDMI / Display Port / VGA
Input Devices	Mouse Connectivity	USB Wired
	Keyboard Connectivity	USB Wired (Standard Keyboard with Rupee Symbol)
Warranty	On Site OEM Warranty (Year)	3 (OEM supplied Desktop model warranty must be visible in the OEM website in respect to each product serial number)

(To be entered by bidder) Make & Model Offered:

Projector Ultra short throw

4 nos.

Display Technology DLP/LCD Native Resolution WUXGA 1920 x 1200 or better Brightness 5.000 Lumens or more Contrast 100,000:1 or more Light Source Laser phosphor Light Source Life Bright 30,000 hours (Eco mode) or more Throw Ratio 0.253:1 or less Zoom Type Fixed or variable HDMI x 2 (HDCP 2.0; compatible with HDMI 1.4a); VGA in x 1; VGA out I/O Connectors x 1; USB B x 1 (for service); USB Type A x 1 (for Power); Audio in x 1 (mini Jack); Audio out x 1 (mini Jack); Microphone (mini Jack) x 1 Speaker (Watts) 10W Kevstone Correction ±15° Vertical, ±15° Horizontal Weight (Kg) 6.5 or less Dimensions (W x D x H) (mm) 400 x 330 x 100 (excluded adjustment feet) or less Aspect Ratio 16:10 Native, 16:9 and 4:3 Compatible Features Certified to IEC standard 60529 with an IP5X dust resistance rating, certified to IEC standard 60529 with an IP5X dust resistance rating, HDR10 compatible, Compatible with OMS, System integration and control RS232, AMX, LAN Control, Crestron Roomview, PJLink 3D Support Full 3D Side-by-Side:1080i50 / 60, 720p50 / 60 Frame-pack: 1080p24, 720p50 / 3D compatibility 60 Over-Under: 1080p24, 720p50 / 60 Projection Screen Size 133.5"~154.1" Projection Distance 727 – 840 mm Computer Compatibility UXGA, SXGA, WXGA, HD, XGA, SVGA, VGA, Mac Video Compatibility PAL (B, D, G, H, I, M, N, 576i/p), NTSC (M, 4.43/3.58 MHz, 480i/p), SECAM (B, D, G, K, K1, L) HD (1080i, 720p) Horizontal Scan Rate 15.375 - 91.146 kHz Vertical Scan Rate 24 – 85Hz Displayable Colors 1073.4 million colors (10 bit) Noise Level 33 / 35dB (Eco / Bright mode) Power Supply Universal AC 90 – 264V, 50/60Hz with PFC input Power Consumption 328W±15% @ 110VAC (Power mode: Active); 320W±15% @ 220VAC (Power mode: Active) Warranty on Laser Projector 3 years onsite warranty

Make & Model Offered:

(To be entered by bidder)

1KVA UPS

<u>7nos.</u>

Output power capacity 1,000 VA Output power capacity 670 Watts Max Configurable Power 1,000 VA Max Configurable Power 670 Watts Nominal output voltage 230 VA Output Voltage Note Configurable for 220 : 230 or 240 Nominal input voltage 230 V Input frequency 50/60 Hz +/- 3 Hz (auto sensing) Input Connection Type IEC -320 C14 Input voltage range for main operations 160 - 286 V Input voltage adjustable range for main operations 151 - 302 V Battery type Maintenance -free sealed Lead-Acid battery with suspended electrolyte : Typical backup time at half load 20.6 minutes (335 Watts) Interface port DB-9 RS-232, SmartSlot, USB Available Smart Slot Interface Quantity 1 Control panel LED status display with load and battery bar-graphs and On Line : On Battery : Replace Battery : and Overload Indicators Audible alarm Alarm when on battery : distinctive low battery alarm : configurable delays Emergency Power Off (EPO) Optional Surge Protection and Filtering Surge energy rating 320 joules Filterina Full time multi-pole noise filtering : 0.3% IEEE surge let-through : zero clamping response time : meets UL 1449 **Topology: Line Interactive** Standard warranty 2 years repair or replace, optional onsite warranties available, optional extended warranties available BIS registration of the product is must

Make & Model Offered:

(To be entered by bidder)

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3KVA TRUE ONLINE UPS WITH INBUILT ISOLATION TRANSFORMER

03 nos.

Parameter	Required Specifications
Rating	3KVA/2400W On-Line UPS with Inbuilt Isolation Transformer.
Input AC Parameters	
Input Voltage	160 - 280V
Frequency	50 Hz; Tolerance (45-55) Hz
Input power factor	> 0.98
Isolation Transformer (Inbuilt)	UPS should be fully isolated by double conversion and inbuilt isolation transformer within the UPS cabinet itself. External transformer shall not be considered.
Output AC Parameters	
Rated apparent/active power	3000 VA/2400W
Output Voltage	220/230 V AC
Frequency	50 +/- 0.5 Hz
Crest Factor	4:1 or higher
Over load	110% for 30 seconds, 125% for 10 seconds
Output Power Factor	0.8
Indication & Controls	
Display & Level Indications	LED mimic diagram + LCD Display with measurements (Input / Output / Bypass V & Hz, Battery V & capacity level indicator, Load% & level Indicator)
Audio Alarm operation	Suitable Alarms for Battery Operation / Overload
Communication Ports	1 x Intelligent-Slot (for SNMP), 1 x RS232 or USB Serial Port.
Battery Backup & Other Details	The system must be capable of providing requisite battery back-up time of 30minutes, using 12V, VRLA Sealed Maintenance Free Batteries. Battery Bus Voltage: ≥72 Volt DC
Required VAH	2496VAH
Battery make	EXIDE/QUANTA
Environmental	
Operating Temperature:	0 Degree C to 40 Degree C
Relative humidity	0% to 95%, non-condensing
	• CE Certification(IEC 62040-1 & IEC 62040-2)
	• ISO 9001, ISO 14001,ISO2 7001, ISO 45001,ISO 50001 certified.
	BIS Certification
Certifications	RoHS Compliance
	E-Waste (EPR authorisation from CPCB, Govt of India)
	Copies of the above certifications should be submitted with the technical Bid (compulsory).
After Sales Support & Manufacturer's Credibility	 Bidder should have a dedicated Toll Free No. for service call logging & resolution Bidder and OEM should have manufacturing facility in INDIA and own service centre at KOLKATA The bidder and OEM should not have been blacklisted or debarred from business at any point of time during last 10 years by any Govt./PSU undertaking. Undertaking to this effect must be submitted.
Support	02 Years comprehensive warranty

Make & Model Offered:

(To be entered by bidder)