Annexure F

Technical Specification
Project for Sub-Regional Science Centre, Bodhgaya, Bihar

1) Intel Core i5 10th Generation Desktop Computer   - 05 Sets.

Item	Specification
Processor	10th Generation Intel Core i5-10500 or higher processor
Chipset	Intel B series or Intel Q series chipset
Motherboard	Motherboard make from the same Desktop OEM (OEM Logo must be embossed in the motherboard)
Memory	8GB (1X8GB) 2666MHz DDR4
Expandable to	Memory Expandable up to minimum 64 GB DDR4-2666 MHz or higher
Hard Disk	1000 GB 3.5 inch Serial ATA (7,200 Rpm) Hard Drive
MS office	MS office Home and Student
Ethernet	Integrated Gigabit (10/100/1000) NIC
Mouse	2 Button USB Optical Scroll Mouse (Same OEM make/brand as system)
Keyboard	104 Keys USB keyboard (Same OEM make/brand as system)
Optical Drive	Internal DVD R/W Drive
Graphics	Intel HD Graphics
Audio	Internal audio connector with Internal audio Speaker
I/O Ports (all ports must be embedded in the mother board no external adaptor will accepted)	8 or more USB (at least 4 USB V3.2)
	1 Ethernet (RJ45)
	1 x VGA , 1x Display port
	1 Stereo line in/out
	1 HDMI port
Expansion Slots (Gen 3)	Minimum 3 PCI/PCIe slots (including 1 PCIe x16 and 2 x Full Height PCIe x1) . 2 x M.2 slots.
	USB & Network Enable/Disable Port Control
	Power-On Password
Chassis	Tool less chassis with security lock option to lock both PC and Monitor. Trusted Platform Module (TPM) 2.0 or Higher with 4KB on chipset Chassis with Chassis Intrusion Switch. Chassis volume not more than 15 litters.
Power Supply	Minimum 250 Watt with 85% or higher energy efficient power supply
Bays	1 internal 3.5" and 1 external 5.25"
Operating System & Media	Windows 10 Professional 64 Bit. with OEM self Declaration on Microsoft Pre-loaded operating systems from OEM factory. The Quoted model Hardware Drivers must be available in OEM website for easy download. Latest Service Pack Preloaded License, OEM Media in form of DVD/CD/USB containing drivers and operating systems.
OS Certifications	Windows 10 Professional and Ubuntu Linux Certification for the quoted model.
Compliance/ Certification	For OEM: ISO 9001 and 14001.For quoted model: UL,FCC , and TCO 8 certification for monitor with ENERGY STAR 8.0

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Warranty	3 years On-site Comprehensive OEM Warranty at Gaya, Bihar (OEM supplied model Warranty must be visible in OEM website in respect to each product serial number)
Manufacturer Criteria	Minimum 10 Years presence in India. OEM letter confirming that service request would be placed directly with the Desktop OEM for the duration of warranty.

2) 24 inch LED TFT Backlit Computer Monitor   **- 04 Sets.**

Specification

Screen Size:	24 inch Full HD (1920 X 1080) IPS Panel
Connectivity Port:	1 VGA Port, 1 HDMI Port
Aspect Ratio:	16:9, Brightness (Typical): 250 cd/m²
Number of Colour:	16.7 m Colours
Refresh Rate:	60 Hz (Analog), Response Time: 4 ms
Viewing Angle:	178-degree horizontal 178-degree vertical
Warranty:	**3 Years onsite Warranty at Gaya, Bihar.**

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3) Line interactive UPS   **- 05 Sets.**

Specification

Type:	Line-interactive.
Output power capacity:	660Watts / 1.1 kVA.
Nominal Output Voltage:	230V.
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Input frequency:	45 - 65 Hz (auto sensing).
Input Connections:	India 3-pin 6A.
Input voltage range:	145 - 290V.
Efficiency at Full Load:	72.0 %.
Battery type:	Maintenance-free sealed Lead-Acid battery (leak-proof).
Typical recharge time:	6 hour(s).
Control panel:	LED status display with On Line: On Battery: Replace Battery and Overload indicators.
Audible Alarm:	Alarm when on battery: distinctive low battery alarm: overload continuous tone alarm.
Surge energy rating:	255 Joules.
Warranty:	**3 Years onsite Warranty at Gaya, Bihar.**

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4) Multifunctional Printer   **- 01 Set.**
Specifications

Technology:	Laser, Multi-function.
Functions:	Print, copy, scan
Processor speed:	500 MHz, RAM size: 64 MB
Platen/Flatbed Size:	A4, Paper Size (Original/Image) A4/A4
Print quality (normal):	Up to 600 x 600 dpi
Display:	1.27" Icon LCD
Duty cycle:	Up to 20,000 pagesmonthly A4
Print Speed:	29 ppm for A4 (Mono)
Duplex printing:	Auto Duplex
Scan Type:	Flatbed,Colour scanning
Scan size, maximum:	A4

Scan Resolution Hardware: Up to 600 dpi with Colour Scanning

Scan file format:	JPEG, TIF, PDF, BMP, PNG
Scan input modes	HP Smart App; and user applications via Twain
Copies, maximum:	Up to 99 copies

Copy reduces / enlarges settings: 25 to 400%

Copier settings: 600 x 600 dpi x 2 bit; Originals content settings: Text, Text/Photo, Photo, Map; Recuce/Enlarge scaling: 25 to 400%

Connectivity: High speed USB 2.0

Network capabilities: 1 Fast Ethernet 10/100Base-TX; 1 Dual-band (2.4/5.0GHz) Wireless 802.11b/g/n with Bluetooth® Low Energy

Network protocols, supported: IP Management: DHCP, DHCPv6, BOOTP, AutoIP, Static; Discovery Protocol: SLP, UPnP, mDNS, DNS, WINS; Printing Protocol: TCP/IP (9100), TCP/IP (9100)v6, LPR, LPR6, IPP, WSD; Management Protocol: SNMPv1.2, SNMPv1.2(IPv6), SNMP3, SNMPv3(IPv6, HTTP); Scan Protocol: Twain for Network; Security Protocol: IPSec

Box Contents: Power Cable, USB Connecting Cable & Windows OS compatible Driver CD

Warranty: **1 Year onsite Warranty at Gaya, Bihar.**