

Section 6- Schedule of supply

Contents

1. List of Goods and Related Services.....	6-2
2. Delivery and Completion Schedule.....	6-25
3. Technical Specifications.....	6-26
4. Drawings.....	6-56

1. List of Goods and Related Services

Package Name: Supply of Information Technology (IT) and related equipment's for Industrial Training Institutes to enhance technical and vocational skills among the youth of Himachal Pradesh (Package -2)

The Goods and Related Services are grouped in Lots. Bidders shall have the option of submitting Bids for one, any combination, or all of the lots. Lots shall not be further subdivided for the purpose of bidding. The bidder is required to supply the items as mentioned below for the respective Package and Lot(s) for which bidding.

Besides the supply of equipment, the bidder shall also carry-out required related services including unloading, installation & commissioning, after sales warranty & maintenance as well as the relevant handholding to the trainers of the ITI for proper usage and operations. The bidder shall do the necessary site preparation including electrical work, earthing, minor civil work, etc. as required for installation & commissioning of the equipments/goods. While doing the site preparation the bidder shall ensure that aesthetics of the labs/workshops, IT Lab and the Library shall maintain /restored.

Lot No : Lot-1							
Lot Name: Computers							
Item No	Name of Goods or Related Services	Description	Unit of Measure -ment	Quantity	Specification by the supplier(To be filled by the supplier)	Detailed information brochure attached at Page No.	Pass/Fail (By Purchaser)
1.	Personal computer with Intel Core i7 Processor latest configuration with colour Monitor and other standard Peripheral devices with Preloaded latest operating system & Microsoft Office pack.	<ul style="list-style-type: none"> • Processor: Intel Core i7 or equivalent - 8th Generation or above, Minimum quad core, Minimum 6 MB Cache • System Type: Desktop • RAM: Minimum 16 GB, DDR4 • Hard drive: 1TB SATA 7200 RPM • Graphics Card: Dedicated Memory 4GB (minimum)- DDR3 or higher. • Monitor: 21 Inch or above, Color, LED, Full HD • Built-in DVD / Blue Ray Drive. • Networking: Integrated Gigabit 	No.	67			

		Ethernet, WI-Fi enabled • Keyboard: Wired/Wireless, Full Size QWERTY keyboard • Mouse: Wired/Wireless optical mouse with scroll button • Audio: integrated audio with inbuilt speaker and mic • Ports: 4xUSB, 1xHDMI, 1xAudio Combo Jack, 1xMic, 1xVGA, 1xNetwork Port • Licensed Operating System: Windows 10 Professional (64 bit) • Microsoft Office 2016 Professional or latest • Security Software: Standard browsing protection, phishing protection, ransomware protection, data theft protection, malware protection anti-virus with 1 Year subscription • Certification RoHS compliant, EPEAT Gold, Energy star certified, TPM 2.0					
2.	Personal computer with Intel Core i5 or Equivalent Processor latest configuration with colour Monitor and other standard Peripheral devices with Preloaded latest operating system & Microsoft Office pack.	• Processor: Intel Core i5 or equivalent - 8th Generation or above, Minimum quad core, Minimum 4 MB Cache • System Type: Desktop • RAM: Minimum 8 GB, DDR4 or Latest • Hard drive: 1TB, 7200 RPM • Graphics Card: HD Graphics integrated with shared memory • Monitor: 19 Inch or above, Color, LED, Full HD • Built-in DVD Drive. • Networking: Integrated Gigabit Ethernet, WI-Fi enabled • Keyboard: Wired/Wireless, Full Size	No.	418			

		QWERTY keyboard <ul style="list-style-type: none"> • Mouse: Wired/Wireless optical mouse with scroll button • Audio: integrated audio with inbuilt speaker and mic • Ports: 4xUSB, 1xHDMI, 1xAudio Combo Jack, 1xMic, 1xVGA, 1xNetwork Port • Licensed Operating System: 64 bit Windows 10 • Microsoft Office 2016 or latest • Security Software: Standard browsing protection, phishing protection, ransomware protection, data theft protection, malware protection anti-virus with 1 Year subscription • Certification RoHS compliant, EPEAT Gold, Energy star certified, TPM 2.0 					
3.	Personal computer with Intel Core i5 or Equivalent Processor latest configuration with colour Monitor and other standard Peripheral devices with Preloaded latest operating system & Microsoft Office pack.	<ul style="list-style-type: none"> • Processor: Intel Core i5 or equivalent - 8th Generation or above, Minimum quad core, Minimum 4 MB Cache • System Type: Desktop • RAM: Minimum 8 GB, DDR4 or Latest • Hard drive: 1TB, 7200 RPM • Graphics Card: HD Graphics integrated with shared memory • Monitor: 21 Inch or above, Color, LED, Full HD • Built-in DVD Drive. • Networking: Integrated Gigabit Ethernet, WI-Fi enabled • Keyboard: Wired/Wireless, Full Size QWERTY keyboard • Mouse: Wired/Wireless optical mouse with scroll button 	No.	2			

		<ul style="list-style-type: none"> • Audio: integrated audio with inbuilt speaker and mic • Ports: 4xUSB, 1xHDMI, 1xAudio Combo Jack, 1xMic, 1xVGA, 1xNetwork Port • Licensed Operating System: 64 bit Windows 10 • Microsoft Office 2016 or latest • Security Software: Standard browsing protection, phishing protection, ransomware protection, data theft protection, malware protection anti-virus with 1 Year subscription • Certification RoHS compliant, EPEAT Gold, Energy star certified, TPM 2.0 					
4.	All-in-one desktop Mobile Computer (No separate CPU Box. CPU and system components integrated into the monitor so that the entire PC is contained all in one unit except Keyboard and Mouse)	<ul style="list-style-type: none"> • Processor: Intel Core i5 or equivalent - 8th Generation or above, Minimum quad core, Minimum 4 MB Cache • Form Factor: ALL-IN-ONE • RAM: Minimum 8 GB, DDR4 • Hard drive: 1TB, 7200 RPM • Graphics Card: HD Graphics integrated with shared memory • Monitor: 21 Inch or above, Color, LED, Full HD • Networking: Integrated Gigabit Ethernet, WI-Fi enabled • Keyboard: Wireless keyboard • Mouse: Wireless optical mouse with scroll button • Camera: Minimum resolution 720p or higher with LED indicator • Audio: integrated audio with inbuilt speaker and mic • Ports: 4xUSB, 1xHDMI, 1xAudio Combo Jack, 1xNetwork Port 	No.	3			

		<ul style="list-style-type: none"> • Licensed Operating System: Windows 10 Professional (64 bit) • Microsoft Office 2016 Professional or latest • Security Software: Standard browsing protection, phishing protection, ransomware protection, data theft protection, malware protection anti-virus with 1 Year subscription • Certification RoHS compliant, EPEAT Gold, Energy star certified, TPM 2.0 					
5.	Laptop with Intel Core i7 or equivalent processor with Pre-loaded OS and MS office bundle.	<ul style="list-style-type: none"> • Processor: Intel Core i7 or equivalent - 8th Generation or above, Minimum quad core, Minimum 6 MB Cache • System Type: LAPTOP • RAM: Minimum 16 GB, DDR4 • Hard drive: 1TB or more - minimum 7200 RPM • Graphics Card: Dedicated Memory 2GB (mimimum) • Display: 15 inch or more, Color, LED, Full HD, Anti-glare, Non touch screen • Built-in DVD / Blue Ray Drive. • Networking: Integrated Gigabit Ethernet, WI-Fi enabled • Web Cam: In built with minimum resolution 720p or higher • Keyboard: Integrated keyboard • Mouse: Wireless optical mouse with scroll button • Audio: integrated audio with inbuilt speaker and mic • Ports: 1x SD Card Reader, 3xUSB, 1xHDMI, 1xAudio Combo Jack, 1xNetwork Port 	No.	37			

		<ul style="list-style-type: none"> • Licensed Operating System: 64 bit Windows 10 • Microsoft Office 2016 or latest • Security Software: Standard browsing protection, phishing protection, ransomware protection, data theft protection, malware protection anti-virus with 1 Year subscription • Certification RoHS compliant, EPEAT Gold, Energy star certified, TPM 2.0 					
6.	Server work Station with latest configuration	<p>With Following minimum Specifications:</p> <p>Processor: Intel E3 -1240 v5 (3.5 GHz, up to 3.9 GHz, 8 MB cache, 4 cores), or equivalent or higher</p> <ul style="list-style-type: none"> - Number of Processors: 02 minimum - Memory 64 GB DDR4, - HDD: 01 TB up to 4 TB SATA (7200 rpm) or higher - Graphic Card: 4 GB or higher - Connectivity: LAN Integrated, - Minimum 21" LED Display. - Operating System - Windows 10 Pro (64 Bit or higher) for workstations or latest - 16 DIMM Slots - PS2 Ports 04 • Certification EPEAT Gold, Energy star certified, 	No.	14			

Note: For detailed specifications please refer Table:3 Technical Specifications

Lot No : Lot-2							
Lot Name: Peripheral Devices							
Item No	Name of Goods or Related Services	Description	Unit of Measure -ment	Quantity	Specification by the supplier(To be filled by the supplier)	Detailed information brochure attached at Page No.	Pass/Fail (By Purchaser)
1.	Printer (A3 Laser jet) with scanner (multipurpose)	With following minimum specifications: Functions: Print, Scan & Copy Printing Method: Monochrome Laser Printing, / Optical scan Memory: 512 MB or higher Print Speed - 16 ppm Print Resolution: 1200 x 1200dpi Duty Cycle: 25,000 pages per month maximum Connectivity: Ethernet interface, USB 3.0 , Wi-Fi enabled Paper Handling: 2 trays, 1x A4 and 1 x A3 Scanner Type: Flat Bed, Scan file format: All standard formats Scan resolution : 1200x1200 dpi Copy Speed: 25 cpm minimum Copy resolution: 600 x 600 dpi	No.	8			
2.	Dot matrix printer	With following minimum specifications: Printing Output : B/W, Print Technology : Dot Matrix, Size : 24 Pins, 132 column, Printing speed: 600 cps or above	No.	4			
3.	Inkjet Printer	With following minimum specifications: DUPLEX PRINTING Automatic (standard)	No.	17			

		PRINT SPEED: Up to 22 ppm PORTS: 1 Hi-Speed USB 2.0; 1 Ethernet; 1 WiFi 802.11b/g/n RESOLUTION: Up to 1200 x 1200 optimized dpi on plain paper from 600 x 600 input dpi MOBILE PRINTING CAPABILITY: YES					
4.	Colored laser Printer A4	With following minimum specifications: Printing Method: Laser Colored printing Memory: 64 MB Minimum Print Speed A4: 18 ppm and above Print Resolution: 1200 x 1200dpi Duty Cycle: 10,000 pages per month minimum Connectivity: Ethernet interface, USB 3.0 , Wi-Fi enabled Paper Handling: 1xA4 tray (100 sheets) Operating Voltage: AC 220-240V, 50 Hz	No.	13			
5.	Laser Printer Monochrome	With following minimum specifications: Print, Scan, Copy Printing Method: Monochrome Laser Beam Printing Print Speed A4: Up to 27ppm, Print Resolution: 600 x 600dpi Print Quality : 1200 x 1200dpi (equivalent) Auto Duplex Print: Standard Connectivity: Ethernet interface, USB 3.0 , Wi-Fi enabled	No.	44			
6.	Plotter A0 size	With following minimum specifications: Type of Printing : Colour, B & W Size : A1-A4	No.	3			

		Printing Speed (Prints Per Minute) up to 100 A1 size Printing Resolution (Dpi) 2400 x 1200 Print Applications Line Drawings, GIS, Maps, Renderings, Presentations, posters, cloth Media size: up to 42 inch rolls Media thickness: up to 0.50 mm Memory: 512 MB and 40 GB HDD Scan Speed @ minimum 200ppi (mm/sec) Scanning Resolution (Dpi): Hard Disk (GB): Interface Ethernet 10/100/1000 USB Port: Yes Wi-Fi Connectivity Available Wi-Fi Type : Wireless(802.11.b/g/n) Handling: Roll Handling Capacity (No.) 1 and automatic roll switching, cutter, automatic roll feed Ink Technology: 04 colours					
7.	OPTICAL SCANNER (DESKTOP TYPE)	With following minimum specifications: Scanner type: Flatbed Colour Paper Size : Up to A3 size Scan resolution: optical Up to 4800 dpi / 12 line colour Scan technology: LED Scanning speed: 16.98 msec / line for both monochrome and colour /10 x 15 cm (4 x 6 in) Scan size (flatbed), maximum 216 x 297 mm (paper size A4) Document feeder type: Manual, Automatic (ADF) Scanning mode: OCR Scanning Bit depth: colour 48 - Bit	No.	15			

8.	Copier Machine	<p>With following minimum specifications: Continuous Output Speed: Minimum 35 - 45 ppm or higher Memory: 1.5GB minimum HDD: 250GB minimum Paper Compatibility: A3, A4, A5, A6, B4, B5, B6 Paper Input Capacity: Minimum 1,000 sheets Document Feeder Type: Manual, Automatic (ADF) Interface: USB 2.0, Ethernet, WiFi Network Protocol: TCP/IP (IPv4, IPv6)</p> <p>Scanner: Scanning Speed: Up to 54 ipm Resolution: Up to 1,200 dpi (TWAIN) Scanning Mode: Optical Character Recognition (OCR), Color File Format: TIFF, JPEG, PDF, High compression PDF, PDF-A Output Destination: To e-mail, folder, PC</p> <p>Printer: Print Resolution:- 1,200 X 1,200 dpi</p> <p>Copier: Resolution: Up to 600 dpi</p>	No.	1			
9.	Tablet	<p>With following minimum specifications: Storage: 64GB DISPLAY: 10.5-inch (diagonal) LED-backlit Multi-Touch display 2224x1668 resolution at 264 pixels per inch (ppi)</p>	No.	10			

		CONNECTIVITY: Mobile 4G LTE Wi-Fi CAMERA:12-megapixel camera, <i>f</i> /1.8 aperture Digital zoom up to 5x Hybrid IR filter Body and face detection Auto HDR for photos Auto image stabilization Burst mode, Timer mode VIDEO RECORDING: 4K video recording at 30 fps Optical image stabilisation Slow-motion video support Time-lapse video Playback zoom					
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Note: For detailed specifications please refer Table:3 Technical Specifications

Lot No : Lot-3							
Lot Name: IT tools and components							
Item No	Name of Goods or Related Services	Description	Unit of Measure -ment	Quantity	Specification by the supplier(To be filled by the supplier)	Detailed information brochure attached at Page No.	Pass/Fail (By Purchaser)
1.	Managed Layer 3 Ethernet Switch 24 Port	With Following minimum Specifications: Managed Layer 3 Ethernet Switch 24 Port Switch speed 10/100/1000 Mbps Speed Ethernet Ports: 24 GB Ports Interface Auto MDI/MDIX External Power Supply 240 v Standard IEEE 802.3, 802.3u, 802.3ab, 802.3x WAN Type RJ-45 Signal Rate 1000 mbps 3 x shared SFP, 3 LAYERS Total of 24 Giga bit Ports. Certifications CE, FCC, RoHS	No.	29			
2.	Switch with POE ports	With Following minimum Specifications: 4 PoE Ports or higher to Transfer Data and Power on One Single Cable Expand Requires No Configuration and Installation LED Indicators for Monitoring Power, Link,	No.	8			

		Activity and Speed Interface 8 x 10 / 100 Mbps Ports, Auto-Negotiation, Auto-MDI/MDIX Standards and Protocol IEEE 802.3, IEEE 802.3u, IEEE 802.3x, CSMA/CD Power Consumption Maximum: 2.2W (220V/50Hz) Buffer Size 2Mb Data Rates 10/100 Mbps at Half Duplex & 20/200 Mbps at Full Duplex					
3.	24 Port Switch With Wireless Connectivity option	With Following minimum Specifications: Wi-Fi Router Wi-Fi Standard : 802.11 b/g/n Router's wireless frequency : 2.4GHz Speed of the router: 300 Mbps or higher Router's antenna range:1200 square feet's Router ports, security, Other ports: USB port, ADSL port WPA2 compatibility	No.	18			
4.	Digital Web Camera	With Following minimum Specifications: Digital Web Camera (High Resolution) HD Video calling :1280 X 720 pixels or equivalent HD video capture: Up to 1920 X 1080 mega pixels Photos: Up to 10 megapixels (software enhanced)	No.	42			
5.	Network Camera	With Following minimum Specifications:	No.	6			

	(Outdoor / Indoor)	Technology IP Resolution: 8 MP or higher Effective Range 30 - 40 Metres Type - Indoor HD 720P Wireless Camera					
6.	Blu-Ray CD/DVD Writer	With Following minimum Specifications: Read Speed: 8x BD-R / BD-RE / BD-ROM / BD-R(DL) / BD-ROM(DL), 6x BD-R(LTH) / BD-RE(DL); Write Speed: 12x BD-R, 8x BD-R(DL), 6x BD-R(LTH), 2x BD-RE(DL) / BD-RE; Cache Size: 4 MB - minimum Technology: Blu-ray 3D Technology or equivalent Dvd Ram Write Speed: 5 X Dvd Ram Read Speed: 5 X Dvd Rom Max Read Write Speed: 16 X Cd R Max Read Write Speed: 40 X Cd Rom Max Read Write Speed: 40 X Operating System: Windows: 7 or higher Interface: USB 3.0 Operating voltage: 230V, 50Hz, unregulated AC mains	No.	64			
7.	Network Rack	With Following minimum Specifications: Patch Panels and PDUs Products included: 24 Port Switch Device Type: Enclosures, Racks & Cabinets	No.	11			

		Colour: Black or any other Usage: 19" Equipment Rack					
8.	Mini Dongle for Bluetooth devices Connections	CSR 4.0 or latest USB dongle Bluetooth adapter Compatible with Windows 7 & above	No.	24			
9.	LAN Cards	With Following minimum Specifications: Interface (Bus) Type: PCI, Plug & Play Form Factor: plug-in card, Ports:10/100 Ethernet, Connectivity Technology: wired Cabling Type: Ethernet 100Base-TX, Ethernet 10Base-T, Protocol, Ethernet, Fast Ethernet, Data Transfer Rate:100 Mbps	No.	67			
10.	Wireless Network Adapter	With Following minimum Specifications: Interface (Bus) Type: PCI, Form Factor: plug-in card, Ports:10/100 Ethernet, Connectivity Technology: wireless Cabling Type: Ethernet 100Base-TX, Ethernet 10Base-T, Ethernet, Fast Ethernet, Data Transfer Rate:100 Mbps OS Support : Win 7 & above Standard & Protocol IEEE 802.11b, IEEE 802.11a, IEEE 802.11g, IEEE 802.11n	No.	39			
11.	Wireless Access Point	With Following minimum Specifications: Encryption AES, TLS, PEAP, TTLS, TKIP, WPA, WPA2 Frequency 2.4 GHz, 5 GHz Standard & Protocol IEEE 802.11b, IEEE 802.11a, IEEE 802.11g, IEEE	No.	14			

		802.11n Flash Memory 128 MB RAM 128 MB Ethernet Ports PoE Power Connector(for plugin AC Power module), RJ 45 Connector module for 10 base-T or 10 base-Tx Ethernet connections RJ 45 connector for serial connection					
12.	LAN Tester	With Following minimum Specifications: 10/100 base -T cable 10 base-2 cable RJ45 modular cables AT&T 258A cable EIA / TIA 568A/568B cables Token Ring Cable ■ Verify the cable wiring for continuity, opens, shorts or incorrect wiring ■ Perform Loopback Test or Remote Test ■ Buzzer sound warning for error condition in cable ■ Two sets of LED lights for Source and Test indication ■ Maximum line length: > 300 meters ■ Connector types: RJ45, BNC	No.	27			
13.	Patch panel	With Following minimum Specifications: Panel: SPCC. 1.5 mm thickness with Black (RAL 9005) color painted RJ45 Jack Housing ABS, UL 94V-0 Contact Bracket PC, UL 94V-2. Transparent color Contact	No.	9			

		Material(RJ 45) Phosphor Bronze with Nickel plated Finish 50 micro-inch Gold plated on Plug contact area IDC Housing PC+ Glass fibre, UL 94V-2 IDC Terminal Phosphor Bronze with Tin plated Jack Bracket Set ABS, UL 94V-0 Support Bar SPCC 1.5 mm thickness with Black (RAL 9005) color painted PCB FR4, UL 94V-0					
14.	24 port UTP Jack panel	With Following minimum Specifications: 24 Port Jack Panel 24-port modular patch panel, 1 RU. Front access to installed modules simplifies moves, adds and changes. Port and panel identification features. Accepts Mini-Com or Keystone Modules for UTP, fibre optic and audio/video, which snap in and out for easy moves, adds and changes. Mount to standard TIA/EIA 19-Inch rack or 23-Inch racks with optional extender bracket. 12-port panels mount to wall using wall-mount bracket	No.	8			
15.	Media Converter	With Following minimum Specifications: Standards and Protocols: IEEE 802.3ab, IEEE 802.3z, IEEE 802.3x Basic Function: Full Duplex Flow Control (IEEE 802.3x), Ports: 1 Gigabit SFP port, 1 1000M RJ45 port (Auto MDI/MDIX) Network Media 1000BASE-FX Multi-mode/Single-mode SFP module	No.	16			

		Network Media 1000BASE-T UTP category 5, 5e, 6 cable (maximum 100m), EIA/TIA-568 100 Ohm STP (maximum 100m) LED Indicators Power Supply: External Power Adapter					
16.	POE adapters	With Following minimum Specifications: Type : Internet Telephony POE Injector / Splitter Data PIN:1/2,3/6 Power PIN:4/5+ & 7/8- Data in: Connects PC/HUB/Switch Ethernet Data rate:10/100 Mbp Ethernet Cable: TIA/EIA 568 Cat.5 Ethernet Cable Connector:RJ-45 Operating Temperature:0- 40 Degree	No.	8			
17.	COMBO drives at least four different makes and types	With Following minimum Specifications: COMBO drives at least four different makes of following types: Drive Type: Internal Interface Type: SATA DVD Write Speed: 52x or higher Supported Discs DVD-ROM (SL/DL), DVDR (SL/DL), DVDRW, DVD-RAM, M-DISC, CD-R/RW/ROM, CD-DA, Video CD	No.	2			
18.	Hard Disk 1 TB	With Following minimum Specifications: HDD capacity: 1 TB 3.5-inch internal hard drive 64MB buffer size Speed: minimum 7200 RPM	No.	32			

		Interface: USB 3.0 & e SATA 1 TB System Requirements Windows: 7, 8, 10 Mac OS X 10.6, Android 2.3, iOS 6					
19.	Optical Drives	With Following minimum Specifications: 8x DVD Speed 24x CD-R/RW speed Compatible with windows 8 and above, Mac OS, Linux USB powered, USB Interface : 2.0	No.	16			
20.	LED Monitors 15.6 inch	With Following minimum Specifications: • Display 15.6 inch or Higher • HD ready • Resolution: 1366 x 768 pixels or higher • Connectivity: VGA, HDMI, Audio in & out port	No.	22			
21.	Network storage	With Following minimum Specifications: 8TB Storage Capacity, One (1) Serial ATA II channel One (1) Ethernet port Two (2) USB 3.0 ports Boots from HDD Network Protocols: CIFS/SMB for Windows AFP 3.3 for Mac OS 9/X NFS v2/v3 for Linux and UNIX HTTP/S for Web browsers	No.	6			
22.	Display Card	With Following minimum Specifications: Base Clock (MHz): 1600 Minimum Memory Specs: Memory Speed: 10 Gbps	No.	49			

		Standard Memory Config: 8 GB GDDR5X Memory Interface Width: 256-bit Memory Bandwidth (GB/sec): 320 Technology : Simultaneous Multi-Projection: Yes Bus Support: PCIe 3.0 Operating System: Windows 8 & above, Linux & Mac OS 10 & above Display : Maximum Digital Resolution: 7680x4320@60Hz DP 1.43, HDMI 2.0b, DL-DVI Standard Display Connectors Multi Monitor: Yes HDCP: 2.2					
23.	Modem (Internal & External)	With Following minimum Specifications: Frequencies from 28.8k bps to 56k bps, RJ ports,10 slots (Internal) Frequencies from 28.8k bps to 56k bps, RJ ports, 10 slots (External)	No.	20			

Note: For detailed specifications please refer Table:3 Technical Specifications

Lot No : Lot-4							
Lot Name: Softwares							
Item No	Name of Goods or Related Services	Description	Unit of Measure -ment	Quantity			
1.	AutoCAD Software	AutoCAD 2019 or latest, (Academic Version) compatible with PCs installed Windows 8 or higher	No.	10			
2.	MS Office Software	Microsoft Office: Licensed MS Office Professional 2016 or latest Fully installed versions of Word, Excel, PowerPoint, Outlook, OneNote, and more 1TB minimum cloud storage Ongoing access to updates	No.	9			
3.	Tally ERP 9 or latest	Tally ERP 9 or latest Accounting Software With Payroll (Academic Version) Compatible with Windows 8, 10 or latest	No.	6			
4.	Designing Software Corel DRAW	Corel DRAW 2018 (Academic Version) or latest Compatible with Windows 8, 10 or latest	No.	5			
5.	Antivirus Software	Total security Antivirus Software (latest version) Compatible with Windows 8, 10 or latest	No.	13			
6.	Microsoft Windows Server 2016 or	Microsoft Windows Server 2016 or latest, box pack, academic version	No.	4			

	latest	64bit					
7.	Adobe PageMaker	Adobe PageMaker Pro 7, 2018 or latest version Academic edition Compatible with Windows 7, 8,10 or latest	No.	1			
8.	Adobe Photoshop	Adobe Photoshop CC 2018 19.1.5 or latest Compatible with Windows 7, 8, 10 or latest Academic edition	No.	2			
9.	Sound Forge Pro 12 or latest	Sound Forge Pro 12 or latest (Academic Edition) Compatible with Windows 7, 8, 10 or latest	No.	1			
10.	Autodesk 3Ds MAX	Autodesk 3DS MAX software or latest (academic edition) compatible with Windows 7, 8, 10 or latest	No.	2			
11.	MS Visual Studio Professional	MS Visual Studio 2017 or latest Academic edition compatible with Windows 7, 8, 10 or latest	No.	1			
12.	Op Manager (Network Management Software)	Op Manager (Network Management Software) latest version compatible with Windows 7, 8, 10 or latest	No.	3			
13.	Adobe Dreamweaver CC 2018 or latest	Adobe Dreamweaver CC 2018 or latest (Academic edition) Compatible with Windows 7, 8, 10 or latest	No.	1			
14.	Adobe Premiere Pro Suite 2018 or latest	Adobe Premiere Pro Suite 2018 or latest Compatible with Windows 7, 8, 10 or latest Academic edition	No.	2			
15.	Microsoft Office	Microsoft FrontPage latest	No.	1			

	Front page 2003 or latest	(Academic edition)					
16.	Microsoft Window 10 (professional) or latest	Microsoft Windows 10 (Professional) or latest	No.	3			
17.	LAN Protocol Simulation & Analyzer Software	LAN Protocol Simulation & Analyzer Software latest version	No.	6			
18.	Network & Internet Security Trainer Latest Software	Network & Internet Security Trainer Latest Software	No.	6			
19.	Creo (Pro-E) software	Creo 5.0 (Professional) or latest (Licensed) Academic edition Compatible with windows 8 and above	No.	2			

Note: For detailed specifications please refer Table:3 Technical Specifications

2. Delivery and Completion Schedule

The delivery period shall start as of *date of Signing the Contract*

Item No	Description of Goods or Related Services	Delivery Schedule (Duration)	Location	Required Arrival Date of Goods or Completion Date for Related Services
Lot-1	Lot-1: Computers	Within 365 Days from the Signing of the contract.	The location of Delivery of various items of Lot-1 attached separately	Within 365 Days from the Signing of the contract.
Lot-2	Lot-2: Peripheral devices	Within 365 Days from the Signing of the contract.	The location of Delivery of various items of Lot-2 attached separately	Within 365 Days from the Signing of the contract.
Lot-3	Lot-3: IT tools and components	Within 365 Days from the Signing of the contract.	The location of Delivery of various items of Lot-3 attached separately	Within 365 Days from the Signing of the contract.
Lot-4	Lot-4: Softwares	Within 365 Days from the Signing of the contract.	The location of Delivery of various items of Lot-4 attached separately	Within 365 Days from the Signing of the contract.

3. Technical Specifications

Special Note: 1	As a part of Documentation even if not mentioned all items supplied shall have minimum of 1. User/Operation Manual and 2. Warranty Certificate. Additional requirements for specific items will be explicitly mentioned.
Special Note: 2	The installation has to be carried out as per the guidelines given by the OEM with necessary ground work and fixtures wherever necessary.
Special Note: 3	All Light, Medium and Heavy machineries and item needing installation either on Ground or on Wall is the sole responsibility of the supplier.
Special Note: 4	All costs involved in installation such as materials and Labour is to be borne by the Supplier.
Special Note: 5	Machines and items shall be installed at the identified position in the designated ITI workshop /Laboratory.
Special Note: 6	Warranty of One/Two/.. / means that the Supplier of the item takes full responsibility in ensuring the best working condition of the item during the warranty period.
Special Note: 7	In the event the item is not working the OEM ensure that the item is brought back to best working condition with-in a reasonable period of time not more than 5 days in the worst case.
Special Note: 8	All parts of the machine not intentionally damaged by the user should be replaced free of cost by the supplier.
Special Note: 9	All consumable items if any needing replacement will be supplied by the ITI.
Special Note: 10	All Items of delicate nature shall be supplied in a suitable Cloth/Wooden/ Other suitable storage case/cover for protection of the item from dust and moisture.
Special Note: 11	Detailed information brochures having specifications, make and model number of individual item to be attached.

Lot-1: Computers

Item No.	Name of Goods or Related Services	Technical Specifications of Item and/or Bureau of Indian Standards (BIS) (if applicable) reference	Features	Accessories	Spare parts	Documents	Installation & Training	Warranty of equipment/parts
1.	Personal computer with Intel Core i7 Processor latest configuration with colour Monitor and other standard Peripheral devices with Preloaded latest operating	<ul style="list-style-type: none"> • Processor: Intel Core i7 or equivalent - 8th Generation or above, Minimum quad core, Minimum 6 MB Cache • System Type: Desktop • RAM: Minimum 16 GB, DDR4 • Hard drive: 1TB SATA 7200 RPM • Graphics Card: Dedicated Memory 4GB (minimum)- DDR3 or higher. • Monitor: 21 Inch or above, Color, LED, 	<ul style="list-style-type: none"> - Form factor: Small Form Factor - Preloaded Standard software - Other standard features of a 	<ul style="list-style-type: none"> - One set of all standard Accessories including cables and connector 	Standard Spares	Operating Manual/user Manual, General Maintenance manual System Warranty Card	<ul style="list-style-type: none"> - To be installed at the designated ITI in Himachal Pradesh. - 	OEM, 2 years, On site

	system & Microsoft Office pack.	Full HD <ul style="list-style-type: none"> • Built-in DVD / Blue Ray Drive. • Networking: Integrated Gigabit Ethernet, WI-Fi enabled • Keyboard: Wired/Wireless, Full Size QWERTY keyboard • Mouse: Wired/Wireless optical mouse with scroll button • Audio: integrated audio with inbuilt speaker and mic • Ports: 4xUSB, 1xHDMI, 1xAudio Combo Jack, 1xMic, 1xVGA, 1xNetwork Port • Licensed Operating System: Windows 10 Professional (64 bit) • Microsoft Office 2016 Professional or latest • Security Software: Standard browsing protection, phishing protection, ransomware protection, data theft protection, malware protection anti-virus with 1 Year subscription • Certification RoHS compliant, EPEAT Gold, Energy star certified, TPM 2.0 	high end i7 Desktop PC	s <ul style="list-style-type: none"> - Dust Covers for CPU, Monitor and keyboard - Mouse Pad - System Recovery DVD/CD 		OS Licence Antivirus Licence MS Office Licence Local Service Provider details	Training to the staff should be provided as required at the institute premises	
2.	Personal computer with Intel Core i5 or Equivalent Processor latest configuration with colour Monitor and other standard Peripheral devices with Preloaded latest operating system & Microsoft Office pack.	<ul style="list-style-type: none"> • Processor: Intel Core i5 or equivalent - 8th Generation or above, Minimum quad core, Minimum 4 MB Cache • System Type: Desktop • RAM: Minimum 8 GB, DDR4 or Latest • Hard drive: 1TB, 7200 RPM • Graphics Card: HD Graphics integrated with shared memory • Monitor: 19 Inch or above, Color, LED, Full HD • Built-in DVD Drive. • Networking: Integrated Gigabit Ethernet, WI-Fi enabled • Keyboard: Wired/Wireless, Full Size QWERTY keyboard 	- Form factor: Small Form Factor - Preloaded Standard software - Other standard features of a high end i5 Desktop PC	- One set of all standard Accessories including cables and connectors - Dust Covers for CPU, Monitor and	Standard Spares	Operating Manual/user Manual, General Maintenance manual System Warranty Card OS Licence Antivirus Licence MS Office Licence Local	- To be installed at the designated ITI in Himachal Pradesh. - Training to the staff should be provided	OEM, 2 years, On site

		<ul style="list-style-type: none"> • Mouse: Wired/Wireless optical mouse with scroll button • Audio: integrated audio with inbuilt speaker and mic • Ports: 4xUSB, 1xHDMI, 1xAudio Combo Jack, 1xMic, 1xVGA, 1xNetwork Port • Licensed Operating System: 64 bit Windows 10 • Microsoft Office 2016 or latest • Security Software: Standard browsing protection, phishing protection, ransomware protection, data theft protection, malware protection anti-virus with 1 Year subscription • Certification RoHS compliant, EPEAT Gold, Energy star certified, TPM 2.0 		keyboard - Mouse Pad - System Recovery DVD/CD		Service Provider details	as required at the institute premises	
3.	Personal computer with Intel Core i5 or Equivalent Processor latest configuration with colour Monitor and other standard Peripheral devices with Preloaded latest operating system & Microsoft Office pack.	<ul style="list-style-type: none"> • Processor: Intel Core i5 or equivalent - 8th Generation or above, Minimum quad core, Minimum 4 MB Cache • System Type: Desktop • RAM: Minimum 8 GB, DDR4 or Latest • Hard drive: 1TB, 7200 RPM • Graphics Card: HD Graphics integrated with shared memory • Monitor: 21 Inch or above, Color, LED, Full HD • Built-in DVD Drive. • Networking: Integrated Gigabit Ethernet, WI-Fi enabled • Keyboard: Wired/Wireless, Full Size QWERTY keyboard • Mouse: Wired/Wireless optical mouse with scroll button • Audio: integrated audio with inbuilt speaker and mic • Ports: 4xUSB, 1xHDMI, 1xAudio Combo Jack, 1xMic, 1xVGA, 1xNetwork Port • Licensed Operating System: 64 bit 	- Form factor: Small Form Factor - Preloaded Standard software - Other standard features of a high end i5 Desktop PC	- One set of all standard Accessories including cables and connectors - Dust Covers for CPU, Monitor and keyboard - Mouse Pad - System Recovery DVD/CD	Standard Spares	Operating Manual/user Manual, General Maintenance manual System Warranty Card OS Licence Antivirus Licence MS Office Licence Local Service Provider details	- To be installed at the designated ITI in Himachal Pradesh. - Training to the staff should be provided as required at the institute premises	OEM, 2 years, On site

		Windows 10 • Microsoft Office 2016 or latest • Security Software: Standard browsing protection, phishing protection, ransomware protection, data theft protection, malware protection anti-virus with 1 Year subscription • Certification RoHS compliant, EPEAT Gold, Energy star certified, TPM 2.0						
4.	All-in-one desktop Mobile Computer (No separate CPU Box. CPU and system components integrated into the monitor so that the entire PC is contained all in one unit except Keyboard and Mouse)	• Processor: Intel Core i5 or equivalent - 8th Generation or above, Minimum quad core, Minimum 4 MB Cache • Form Factor: ALL-IN-ONE • RAM: Minimum 8 GB, DDR4 • Hard drive: 1TB, 7200 RPM • Graphics Card: HD Graphics integrated with shared memory • Monitor: 21 Inch or above, Color, LED, Full HD • Networking: Integrated Gigabit Ethernet, WI-Fi enabled • Keyboard: Wireless keyboard • Mouse: Wireless optical mouse with scroll button • Camera: Minimum resolution 720p or higher with LED indicator • Audio: integrated audio with inbuilt speaker and mic • Ports: 4xUSB, 1xHDMI, 1xAudio Combo Jack, 1xNetwork Port • Licensed Operating System: Windows 10 Professional (64 bit) • Microsoft Office 2016 Professional or latest • Security Software: Standard browsing protection, phishing protection, ransomware protection, data theft protection, malware protection anti-virus	- System components integrated into the monitor so that the entire PC is contained all in one unit with Sleek design - Preloaded Standard software - Other standard features	- One set of all standard Accessories including cables and connectors - Dust Covers for Monitor and keyboard - Mouse Pad - System Recovery DVD/CD	Standard Spares	Operating Manual/user Manual, General Maintenance manual System Warranty Card OS Licence Antivirus Licence MS Office Licence Local Service Provider details	- To be installed at the designated ITI in Himachal Pradesh. - Training to the staff should be provided as required at the institute premises	OEM, 2 years, On site

		with 1 Year subscription • Certification RoHS compliant, EPEAT Gold, Energy star certified, TPM 2.0						
5.	Laptop with Intel Core i7 or equivalent processor with Pre-loaded OS and MS office bundle.	<ul style="list-style-type: none"> • Processor: Intel Core i7 or equivalent - 8th Generation or above, Minimum quad core, Minimum 6 MB Cache • System Type: LAPTOP • RAM: Minimum 16 GB, DDR4 • Hard drive: 1TB or more - minimum 7200 RPM • Graphics Card: Dedicated Memory 2GB (mimimum) • Display: 15 inch or more, Color, LED, Full HD, Anti-glare, Non touch screen • Built-in DVD / Blue Ray Drive. • Networking: Integrated Gigabit Ethernet, WI-Fi enabled • Web Cam: In built with minimum resolution 720p or higher • Keyboard: Integrated keyboard • Mouse: Wireless optical mouse with scroll button • Audio: integrated audio with inbuilt speaker and mic • Ports: 1x SD Card Reader, 3xUSB, 1xHDMI, 1xAudio Combo Jack, 1xNetwork Port • Licensed Operating System: 64 bit Windows 10 • Microsoft Office 2016 or latest • Security Software: Standard browsing protection, phishing protection, ransomware protection, data theft protection, malware protection anti-virus with 1 Year subscription • Certification RoHS compliant, EPEAT Gold, Energy star certified, TPM 2.0 	Lightweight Blacklit display Facility for lighted keyboard Long battery life	All standard accessories including carry case	Standard Spares	Operating Manual/user Manual, General Maintenance manual System Warranty Card OS Licence Antivirus Licence MS Office Licence Local Service Provider details	- To be installed at the designated ITI in Himachal Pradesh. - Training to the staff should be provided as required at the institute premises	OEM, 2 years, On site

6.	Server work Station with latest configuration	With Following minimum Specifications: Processor: Intel E3 -1240 v5 (3.5 GHz, up to 3.9 GHz, 8 MB cache, 4 cores), or equivalent or higher - Number of Processors: 02 minimum - Memory 64 GB DDR4, - HDD: 01 TB up to 4 TB SATA (7200 rpm) or higher - Graphic Card: 4 GB or higher - Connectivity: LAN Integrated, - Minimum 21" LED Display. - Operating System - Windows 10 Pro (64 Bit or higher) for workstations or latest - 16 DIMM Slots - PS2 Ports 04 • Certification EPEAT Gold, Energy star certified,	Standard Features	Standard Accessories	Standard Spares	Operating Manual/user Manual, General Maintenance manual System Warranty Card	- To be installed at the designated ITI in Himachal Pradesh. - Training to the staff should be provided as required at the institute premises	OEM, 2 years, On site
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Lot-2: Peripheral Devices

Item No.	Name of Goods or Related Services	Technical Specifications of Item and/or Bureau of Indian Standards (BIS) (if applicable) reference	Features	Accessories	Spare parts	Documents	Installation & Training	Warranty of equipment/ parts
1.	Printer (A3 Laser jet) with scanner (multipurpose)	With following minimum specifications: Functions: Print, Scan & Copy Printing Method: Monochrome Laser	Reduce/Enlarge ment: 25- 400 % Automatic	Standard Accessories	Standard Spares	Operating Manual/user Manual, General	- To be installed at the designate	2 Years Minimum

		Printing, / Optical scan Memory: 512 MB or higher Print Speed - 16 ppm Print Resolution: 1200 x 1200dpi Duty Cycle: 25,000 pages per month maximum Connectivity: EThernet interface, USB 3.0 , Wi-Fi enabled Paper Handling: 2 trays, 1x A4 and 1 x A3 Scanner Type: Flat Bed, Scan file format: All standard formats Scan resolution : 1200x1200 dpi Copy Speed: 25 cpm minimum Copy resolution: 600 x 600 dpi	document feeder (ARDF) Optical character recognition (OCR)			Maintenance manual System Warranty Card Local Service Provider details	d ITI in Himachal Pradesh. - Training to the staff should be provided as required at the institute premises	
2.	Dot matrix printer	With following minimum specifications: Printing Output : B/W, Print Technology : Dot Matrix, Size : 24 Pins, 132 column, Printing speed: 600 cps or above	Other Features : Silicon Self Lubrication Mechanism etc	Standard Accessories	Standard Spares	Operating Manual/user Manual, General Maintenance manual System Warranty Card Local Service Provider details	- To be installed at the designated ITI in Himachal Pradesh. - Training to the staff should be provided as required at the institute premises	2 Years Minimum
3.	Inkjet Printer	With following minimum specifications: DUPLEX PRINTING Automatic (standard) PRINT SPEED:Up to 22 ppm	Energy Efficient, AUTOMATIC PAPER SENSOR: Yes	Inkjet Cartridge; CD-ROM; Getting started guide;	Standard Spares	Operating Manual/user Manual, General Maintenance	- To be installed at the designated ITI in	2 Years Minimum

		PORTS: 1 Hi-Speed USB 2.0; 1 Ethernet; 1 WiFi 802.11b/g/n RESOLUTION: Up to 1200 x 1200 optimized dpi on plain paper from 600 x 600 input dpi MOBILE PRINTING CAPABILITY: YES		power cord		manual System Warranty Card Local Service Provider details	Himachal Pradesh. - Training to the staff should be provided as required at the institute premises	
4.	Colored laser Printer A4	With following minimum specifications: Printing Method: Laser Colored printing Memory: 64 MB Minimum Print Speed A4: 18 ppm and above Print Resolution: 1200 x 1200dpi Duty Cycle: 10,000 pages per month minimum Connectivity: Ethernet interface, USB 3.0 , Wi-Fi enabled Paper Handling: 1xA4 tray (100 sheets) Operating Voltage: AC 220-240V, 50 Hz	Standard Features	Standard Accessories	Standard Spares	Operating Manual/user Manual, General Maintenance manual System Warranty Card Local Service Provider details	- To be installed at the designated ITI in Himachal Pradesh. - Training to the staff should be provided as required at the institute premises	2 Years Minimum
5.	Laser Printer Monochrome	With following minimum specifications: Print, Scan, Copy Printing Method: Monochrome Laser Beam Printing Print Speed A4: Up to 27ppm, Print Resolution: 600 x 600dpi Print Quality : 1200 x 1200dpi (equivalent)	Standard Features	Standard Accessories	Standard Spares	Operating Manual/user Manual, General Maintenance manual System Warranty Card	- To be installed at the designated ITI in Himachal Pradesh. - Training to the	2 Years Minimum

		Auto Duplex Print: Standard Connectivity: Ethernet interface, USB 3.0 , Wi-Fi enabled				Local Service Provider details	staff should be provided as required at the institute premises	
6.	Plotter A0 size	<p>With following minimum specifications:</p> <p>Type of Printing : Colour, B & W</p> <p>Size : A1-A4</p> <p>Printing Speed (Prints Per Minute) up to 100 A1 size</p> <p>Printing Resolution (Dpi) 2400 x 1200</p> <p>Print Applications Line Drawings, GIS, Maps, Renderings, Presentations, posters, cloth</p> <p>Media size: up to 42 inch rolls</p> <p>Media thickness: up to 0.50 mm</p> <p>Memory: 512 MB and 40 GB HDD</p> <p>Scan Speed @ minimum 200ppi (mm/sec)</p> <p>Scanning Resolution (Dpi):</p> <p>Hard Disk (GB):</p> <p>Interface Ethernet 10/100/1000</p> <p>USB Port: Yes</p> <p>Wi-Fi Connectivity Available</p> <p>Wi-Fi Type : Wireless(802.11.b/g/n)</p> <p>Handling: Roll Handling Capacity (No.) 1 and automatic roll switching, cutter, automatic roll feed</p> <p>Ink Technology: 04 colours</p>	<p>Size of Rolls to be handled (Width X OD of roll) Up to 42 INCH</p> <p>Manual cut Sheet Feed: Yes</p> <p>Preloaded Softwares like Scan to file, Print to file etc.</p> <p>Power Consumption in Sleep Mode (Watt) 0.3</p> <p>Power Consumption in Print Mode (Watt) 35</p> <p>Media Type Plain Paper, coated paper, tracing paper, glossy paper, matte paper, satin paper, film, adhesive media, cloth</p> <p>Media Weight</p>	Standard Accessories	Standard Spares	Operating Manual/user Manual, General Maintenance manual System Warranty Card Local Service Provider details	<p>- To be installed at the designated ITI in Himachal Pradesh.</p> <p>- Training to the staff should be provided as required at the institute premises</p>	2 Years Minimum

			Handling Range (GSM) 60 to 280 g/m ² Ink suppliers : C,M,Y,K					
7.	OPTICAL SCANNER (DESKTOP TYPE)	With following minimum specifications: Scanner type: Flatbed Colour Paper Size : Up to A3 size Scan resolution: optical Up to 4800 dpi / 12 line colour Scan technology: LED Scanning speed: 16.98 msec / line for both monochrome and colour /10 x 15 cm (4 x 6 in) Scan size (flatbed), maximum 216 x 297 mm (paper size A4) Document feeder type: Manual, Automatic (ADF) Scanning mode: OCR Scanning Bit depth: colour 48 - Bit	Power: AC 110-240 V AC. Power consumption: 16 W (approx.) Ports: USB ports Scan file format (Windows): TIFF Compressed, PNG, PCX, TIFF, PDF Searchable, HTM, FlashPix (FPX), PDF, RTF, BMP, JPEG, GIF, TXT Connectivity : USB 2.0 or higher	Standard Accessories i.e. connecting cables, adapters, etc.	Standard spares, as suggested by the manufacturer	Operating Manual/user Manual, General Maintenance manual System Warranty Card Local Service Provider details	- To be installed at the designated ITI in Himachal Pradesh. - Training to the staff should be provided as required at the institute premises	2 Years Minimum
8.	Copier Machine	With following minimum specifications: Continuous Output Speed: Minimum 35 - 45 ppm or higher Memory: 1.5GB minimum HDD: 250GB minimum Paper Compatibility: A3, A4, A5, A6, B4, B5, B6 Paper Input Capacity: Minimum 1,000 sheets Document Feeder Type: Manual, Automatic (ADF) Interface: USB 2.0, Ethernet, WiFi	Supported Paper Size: A4, A5, A3 Item Color: Black or Equivalent Memory Size: Print Speed (ppm): 35 - 45 ppm or higher	Standard Accessories	Standard spares, as suggested by the manufacturer	Operating Manual/user Manual, General Maintenance manual System Warranty Card Local Service Provider details	- To be installed at the designated ITI in Himachal Pradesh. - Training to the staff should be provided as	2 Years Minimum

		<p>Network Protocol: TCP/IP (IPv4, IPv6)</p> <p>Scanner: Scanning Speed: Up to 54 ipm Resolution: Up to 1,200 dpi (TWAIN) Scanning Mode: Optical Character Recognition (OCR), Color File Format: TIFF, JPEG, PDF, High compression PDF, PDF-A Output Destination: To e-mail, folder, PC</p> <p>Printer: Print Resolution:- 1,200 X 1,200 dpi</p> <p>Copier: Resolution: Up to 600 dpi</p>					required at the institute premises	
9.	Tablet	<p>With following minimum specifications: Storage: 64GB DISPLAY: 10.5-inch (diagonal) LED-backlit Multi-Touch display 2224x1668 resolution at 264 pixels per inch (ppi) CONNECTIVITY: Mobile 4G LTE Wi-Fi CAMERA:12-megapixel camera, f/1.8 aperture Digital zoom up to 5x Hybrid IR filter Body and face detection Auto HDR for photos Auto image stabilization Burst mode, Timer mode VIDEO RECORDING: 4K video recording at 30 fps</p>	<p>Fingerprint-resistant oleophobic coating Fully laminated display Anti-reflective coating</p>	Standard Accessories	Standard spares, as suggested by the manufacturer	Operating Manual/user Manual, General Maintenance manual System Warranty Card Local Service Provider details	<p>- To be installed at the designated ITI in Himachal Pradesh. - Training to the staff should be provided as required at the institute premises</p>	2 Years Minimum

		Optical image stabilisation Slow-motion video support Time-lapse video Playback zoom						
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LOT-3: IT tools and components

Item No.	Name of Goods or Related Services	Technical Specifications of Item and/or Bureau of Indian Standards (BIS) (if applicable) reference	Features	Accessories	Spare parts	Documents	Installation & Training	Warranty of equipment/parts
1.	Managed Layer 3 Ethernet Switch 24 Port	With Following minimum Specifications: Managed Layer 3 Ethernet Switch 24 Port Switch speed 10/100/1000 Mbps Speed Ethernet Ports: 24 GB Ports Interface Auto MDI/MDIX External Power Supply 240 v Standard IEEE 802.3, 802.3u, 802.3ab, 802.3x WAN Type RJ-45 Signal Rate 1000 mbps 3 x shared SFP, 3 LAYERS Total of 24 Giga bit Ports. Certifications CE, FCC, RoHS	24 auto-sensing RJ45 10/100/1000 ports 2 shared SFP ports for Gigabit fibre uplinks (shared with the last 2 RJ45 ports) Serial RS-232 port for console. LED Indicators per port Link/Activity, Power, etc.	Standard Accessories	Standard accessories i.e. power cables and connectors etc.	Operating Manual/user Manual, General Maintenance manual System Warranty Card Local Service Provider details	- To be installed at the designated ITI in Himachal Pradesh. - Training to the staff should be provided as required at the institute premises	2 Years Minimum

2.	Switch with POE ports	With Following minimum Specifications: 4 PoE Ports or higher to Transfer Data and Power on One Single Cable Expand Requires No Configuration and Installation LED Indicators for Monitoring Power, Link, Activity and Speed Interface 8 x 10 / 100 Mbps Ports, Auto-Negotiation, Auto-MDI/MDIX Standards and Protocol IEEE 802.3, IEEE 802.3u, IEEE 802.3x, CSMA/CD Power Consumption Maximum: 2.2W (220V/50Hz) Buffer Size 2Mb Data Rates 10/100 Mbps at Half Duplex & 20/200 Mbps at Full Duplex	10/100/1000 Base-T Power Over Ethernet Switch S5100-10PC Standard 10 Port or higher POE Gigabit Switch Conforming to CE / UL certification.	Standard Accessories	standard accessories i.e. power cables and connectors etc.	Operating Manual/user Manual, General Maintenance manual System Warranty Card Local Service Provider details	- To be installed at the designated ITI in Himachal Pradesh. - Training to the staff should be provided as required at the institute premises	2 Years Minimum
3.	24 Port Switch With Wireless Connectivity option	With Following minimum Specifications: Wi-Fi Router Wi-Fi Standard : 802.11 b/g/n Router's wireless frequency : 2.4GHz Speed of the router: 300 Mbps or higher Router's antenna range: 1200 square feet's Router ports, security, Other ports: USB port, ADSL port WPA2 compatibility	Five or more 10/100 Ethernet ports DHCP server, IP address filtering, IPsec pass through, MAC address filtering, NAT support, URL filtering, Auto-uplink (auto MDI/MDI-X), Suitable Frequency Band and Data transfer rate – (approx. 2.4	Standard Accessories	Standard power cables and connectors.	Operating Manual/user Manual, General Maintenance manual System Warranty Card Local Service Provider details	- To be installed at the designated ITI in Himachal Pradesh. - Training to the staff should be provided as required at the institute premises	2 Years Minimum

			GHz and 54 Mbps)					
4.	Digital Web Camera	With Following minimum Specifications: Digital Web Camera (High Resolution) HD Video calling :1280 X 720 pixels or equivalent HD video capture: Up to 1920 X 1080 mega pixels Photos: Up to 10 megapixels (software enhanced)	Video capability, versatile fixing arrangement for laptop, table top computer, USB ports etc.	TV, Projector and Laptop connecting cables.	Standard spares, as suggested by the manufacturer	Operating Manual/user Manual, General Maintenance manual System Warranty Card Local Service Provider details	- To be installed at the designated ITI in Himachal Pradesh. - Training to the staff should be provided as required at the institute premises	2 Years Minimum
5.	Network Camera (Outdoor / Indoor)	With Following minimum Specifications: Technology IP Resolution: 8 MP or higher Effective Range 30 - 40 Metres Type - Indoor HD 720P Wireless Camera	Excellent Video Quality: HD 720P Dual-Stream w/ Bandwidth-Conserving H.264 Video Compression Remote Viewing & Recording from Anywhere and Anytime using iPhone, iPad and Android (w/ included ifi View app)	1 x IFIPT1 720P Wireless IP Camera, Power Adapter, USB Cable, User Manual, Mounting Screws, Mounting Bracket	Standard spares, as suggested by the manufacturer	Operating Manual/user Manual, General Maintenance manual System Warranty Card Local Service Provider details	- To be installed at the designated ITI in Himachal Pradesh. - Training to the staff should be provided as required at the institute premises	2 Years Minimum

			With wide View along with night Vision Motion Detection Alerts via Email or Send Images to FTP- WEP, WPA, WPA2 Encryption Features Night Vision litres Lens Size 4 MM or higher					
6.	Blu-Ray CD/DVD Writer	With Following minimum Specifications: Read Speed: 8x BD-R / BD-RE / BD-ROM / BD-R(DL) / BD-ROM(DL), 6x BD-R(LTH) / BD-RE(DL); Write Speed: 12x BD-R, 8x BD-R(DL), 6x BD-R(LTH), 2x BD-RE(DL) / BD-RE; Cache Size: 4 MB - minimum Technology: Blu-ray 3D Technology or equivalent Dvd Ram Write Speed: 5 X Dvd Ram Read Speed: 5 X Dvd Rom Max Read Write Speed: 16 X Cd R Max Read Write Speed: 40 X Cd Rom Max Read Write Speed: 40 X Operating System: Windows: 7 or higher Interface: USB 3.0 Operating voltage: 230V, 50Hz, unregulated AC mains	Horizontal / Vertical Mountable, USB 2.0 Backward Compatible Other Compatible Media: DVD Video Playback, VCD Playback, Audio CD Playback, DVD-ROM(DL), Audio CD, Video CD, CD-I, CD-Extra, Photo CD, CD-Text, CD-ROM / XA, Multi-session CD, DVD Video, BD Video	Accessories: Standard accessories Dust Cover Installation CD	Standard spares, as suggested by the manufacturer	Operating Manual/user Manual, General Maintenance manual System Warranty Card Local Service Provider details	- To be installed at the designated ITI in Himachal Pradesh. - Training to the staff should be provided as required at the institute premises	2 Years Minimum

7.	Network Rack	With Following minimum Specifications: Patch Panels and PDUs Products included: 24 Port Switch Device Type: Enclosures, Racks & Cabinets Colour: Black or any other Usage: 19" Equipment Rack	Type of Product : Flexi box Depth : 500 mm Mounting Angle : 19 Inch	Standard Accessories	Standard spares, as suggested by the manufacturer	Operating Manual/user Manual, General Maintenance manual System Warranty Card Local Service Provider details	- To be installed at the designated ITI in Himachal Pradesh. - Training to the staff should be provided as required at the institute premises	2 Years Minimum
8.	Mini Dongle for Bluetooth devices Connections	CSR 4.0 or latest USB dongle Bluetooth adapter Compatible with Windows 7 & above	Backwards compatible with legacy Bluetooth equipment Bluetooth 3.0, 2.1, 2.0 & 1.0	Standard Accessories	Standard spares, as suggested by the manufacturer	Operating Manual/user Manual, General Maintenance manual System Warranty Card Local Service Provider details	- To be installed at the designated ITI in Himachal Pradesh. - Training to the staff should be provided as required at the institute premises	2 Years Minimum
9.	LAN Cards	With Following minimum Specifications: Interface (Bus) Type: PCI, Plug & Play Form Factor: plug-in card, Ports:10/100 Ethernet,	2 CH relay output LAN Control Auto Ping and	Standard Accessories	Standard spares, as suggested	Operating Manual/user Manual, General	- To be installed at the designate	2 Years Minimum

		Connectivity Technology: wired Cabling Type: Ethernet 100Base-TX, Ethernet 10Base-T, Protocol, Ethernet, Fast Ethernet, Data Transfer Rate:100 Mbps	Programmable Reboot (x2 independent monitor channels) Hardware Reset Button Password Protection DHCP Function Modbus-TCP Http Web Control		d by the manufact urer	Maintenance manual System Warranty Card Local Service Provider details	d ITI in Himachal Pradesh. - Training to the staff should be provided as required at the institute premises	
10.	Wireless Network Adapter	With Following minimum Specifications: Interface (Bus) Type: PCI, Form Factor: plug-in card, Ports:10/100 Ethernet, Connectivity Technology: wireless Cabling Type: Ethernet 100Base-TX, Ethernet 10Base-T, Ethernet, Fast Ethernet, Data Transfer Rate:100 Mbps OS Support : Win 7 & above Standard & Protocol IEEE 802.11b, IEEE 802.11a, IEEE 802.11g, IEEE 802.11n	Wi-Fi protected setup(WPS)	Standard Accessories	Standard spares, as suggested by the manufact urer	Operating Manual/user Manual, General Maintenance manual System Warranty Card Local Service Provider details	- To be installed at the designate d ITI in Himachal Pradesh. - Training to the staff should be provided as required at the institute premises	2 Years Minimum
11.	Wireless Access Point	With Following minimum Specifications: Encryption AES, TLS, PEAP, TTLS, TKIP, WPA, WPA2 Frequency 2.4 GHz, 5 GHz Standard & Protocol IEEE 802.11b, IEEE 802.11a, IEEE 802.11g, IEEE 802.11n Flash Memory 128 MB RAM 128 MB	Type of Product : Access point Sub Type : Wireless Encryption : AES, TLS, PEAP, TTLS, TKIP, WPA, WPA2	Standard Accessories	Standard spares, as suggested by the manufact urer	Operating Manual/user Manual, General Maintenance manual System Warranty	- To be installed at the designate d ITI in Himachal Pradesh. - Training	2 Years Minimum

		Ethernet Ports PoE Power Connector(for plugin AC Power module), RJ 45 Connector module for 10 base-T or 10 base-Tx Ethernet connections RJ 45 connector for serial connection	Frequency : 2.4 GHz, 5 GHz			Card Local Service Provider details	to the staff should be provided as required at the institute premises	
12.	LAN Tester	With Following minimum Specifications: 10/100 base -T cable 10 base-2 cable RJ45 modular cables AT&T 258A cable EIA / TIA 568A/568B cables Token Ring Cable <ul style="list-style-type: none"> ■ Verify the cable wiring for continuity, opens, shorts or incorrect wiring ■ Perform Loopback Test or Remote Test ■ Buzzer sound warning for error condition in cable ■ Two sets of LED lights for Source and Test indication ■ Maximum line length: > 300 meters ■ Connector types: RJ45, BNC 	Cable Tester for RJ12, RJ11, RJ45, Cat 5e, Cat 5, Cat 6, 10/100 Base-T, AT&T 258 A, TIA-568A/568B etc. Test correspondingly double-twisted cables 1, 2, 3, 4, 5, 6, 7, 8 and Ground. 9 LED lights to indicated wiring connection on both remote and master unit Grounding Test. Build in power switch for power saving. Power: 9V battery (Included) It can easily clarify cable, continuity, open	Remote Terminator, 1 ea RJ45 to female BNC cable, 1 ea RJ45 to male BNC cable, 1 ea 1 RJ45 to RJ45 cable, 1 ea female BNC to female BNC connector, 9 volt battery and User's Manual	Standard spares, as suggested by the manufacturer	Operating Manual/user Manual, General Maintenance manual System Warranty Card Local Service Provider details	- To be installed at the designated ITI in Himachal Pradesh. - Training to the staff should be provided as required at the institute premises	2 Years Minimum

			and short.					
13.	Patch panel	With Following minimum Specifications: Panel: SPCC. 1.5 mm thickness with Black (RAL 9005) color painted RJ45 Jack Housing ABS, UL 94V-0 Contact Bracket PC, UL 94V-2. Transparent color Contact Material(RJ 45) Phosphor Bronze with Nickel plated Finish 50 micro-inch Gold plated on Plug contact area IDC Housing PC+ Glass fibre, UL 94V-2 IDC Terminal Phosphor Bronze with Tin plated Jack Bracket Set ABS, UL 94V-0 Support Bar SPCC 1.5 mm thickness with Black (RAL 9005) color painted PCB FR4, UL 94V-0	Type : Patch Panel 24 Port Cat 5e Return Policy : Returnable if Defected With cable management bar for improved management. Staggered 24 port panel in 1U. Staggered 48 port panel in 2U. Mounts in standard 19 inch racks. Feasible solution for lower interference and eliminate alien crosstalk.	Standard Accessories	Standard spares, as suggested by the manufacturer	Operating Manual/user Manual, General Maintenance manual System Warranty Card Local Service Provider details	- To be installed at the designated ITI in Himachal Pradesh. - Training to the staff should be provided as required at the institute premises	2 Years Minimum
14.	24 port UTP Jack panel	With Following minimum Specifications: 24 Port Jack Panel 24-port modular patch panel, 1 RU. Front access to installed modules simplifies moves, adds and changes. Port and panel identification features. Accepts Mini-Com or Keystone Modules for UTP, fibre optic and audio/video,	Panel : SPCC. 1.5mm thickness with Black (RAL9005) color painted Type Ethernet RJ-45 Jack : Housing ABS,	Standard Accessories	Standard spares, as suggested by the manufacturer	Operating Manual/user Manual, General Maintenance manual System Warranty Card	- To be installed at the designated ITI in Himachal Pradesh. - Training to the	2 Years Minimum

		which snap in and out for easy moves, adds and changes. Mount to standard TIA/EIA 19-Inch rack or 23-Inch racks with optional extender bracket. 12-port panels mount to wall using wall-mount bracket	UL94-0 RJ-45 Jack Contact : Material Phosphor Bronze with Nickel Plated Patch Panel Cat 6 UTP Keystone Type- 24 Port- Fully Loaded 4-port panel in 1U ID stripes for identifying port allocations Improved cable management			Local Service Provider details	staff should be provided as required at the institute premises	
15.	Media Converter	With Following minimum Specifications: Standards and Protocols: IEEE 802.3ab, IEEE 802.3z, IEEE 802.3x Basic Function: Full Duplex Flow Control (IEEE 802.3x), Ports: 1 Gigabit SFP port, 1 1000M RJ45 port (Auto MDI/MDIX) Network Media 1000BASE-FX Multi-mode/Single-mode SFP module Network Media 1000BASE-T UTP category 5, 5e, 6 cable (maximum 100m), EIA/TIA-568 100 Ohm STP (maximum 100m) LED Indicators Power Supply: External Power Adapter	Extend network distances up to 160km Conduct 10/100/1000/2500/10000 Ethernet Rate Conversion SC, LC and ST fibre connector options SX, FX, LX, EX, ZX, BX fibre support Multimode and single mode fibre 10BaseT, Fast Ethernet Gigabit and 10G to fibre	Standard Accessories	Standard spares, as suggested by the manufacturer	Operating Manual/user Manual, General Maintenance manual System Warranty Card Local Service Provider details	- To be installed at the designated ITI in Himachal Pradesh. - Training to the staff should be provided as required at the institute premises	2 Years Minimum

			Advanced Features : Link Pass-Through, Far-End Fault, Auto-MDIX, fibre Fault Alert, Loopback Manage via SNMP, CLI-Telnet/SSH, Internet Browser					
16.	POE adapters	With Following minimum Specifications: Type : Internet Telephony POE Injector / Splitter Data PIN:1/2,3/6 Power PIN:4/5+ & 7/8- Data in: Connects PC/HUB/Switch Ethernet Data rate:10/100 Mbp Ethernet Cable: TIA/EIA 568 Cat.5 Ethernet Cable Connector:RJ-45 Operating Temperature:0- 40 Degree	Device network data and power via one Ethernet cable (Cat.5 or better). The output power of per port is up to 15W, which can serve as an outlet for a PoE device (powering via RJ45 port). Connect PoE4810 to an IEEE 802.3u compliant Device, such as wireless AP, IP camera, IP phone, etc.	Standard Accessories	Standard spares, as suggested by the manufacturer	Operating Manual/user Manual, General Maintenance manual System Warranty Card Local Service Provider details	- To be installed at the designated ITI in Himachal Pradesh. - Training to the staff should be provided as required at the institute premises	2 Years Minimum
17.	COMBO drives at least four different	With Following minimum Specifications: COMBO drives at least four different makes of following types: Drive Type: Internal	Standard DVD Writer 52x or higher writing Speed	Standard Accessories	Standard spares, as suggested	Operating Manual/user Manual, General	- To be installed at the designated	2 Years Minimum

	makes and types	Interface Type: SATA DVD Write Speed: 52x or higher Supported Discs DVD-ROM (SL/DL), DVDR (SL/DL), DVDRW, DVD-RAM, M-DISC, CD-R/RW/ROM, CD-DA, Video CD			d by the manufacturer	Maintenance manual System Warranty Card Local Service Provider details	d ITI in Himachal Pradesh. - Training to the staff should be provided as required at the institute premises	
18.	Hard Disk 1 TB	With Following minimum Specifications: HDD capacity: 1 TB 3.5-inch internal hard drive 64MB buffer size Speed: minimum 7200 RPM Interface: USB 3.0 & e SATA 1 TB System Requirements Windows: 7, 8, 10 Mac OS X 10.6, Android 2.3, iOS 6	Standard Features	Standard accessories	Standard spares, as suggested by the manufacturer	Operating Manual/user Manual, General Maintenance manual System Warranty Card Local Service Provider details	- To be installed at the designated ITI in Himachal Pradesh. - Training to the staff should be provided as required at the institute premises	2 Years Minimum
19.	Optical Drives	With Following minimum Specifications: 8x DVD Speed 24x CD-R/RW speed Compatible with windows 8 and above, Mac OS, Linux USB powered, USB Interface : 2.0	Optical Drives	Standard accessories Installation CD Dust Cover	Standard spares, as suggested by the manufacturer	Operating Manual/user Manual, General Maintenance manual System Warranty	- To be installed at the designated ITI in Himachal Pradesh. - Training	2 Years Minimum

						Card Local Service Provider details	to the staff should be provided as required at the institute premises	
20.	LED Monitors 15.6 inch	With Following minimum Specifications: <ul style="list-style-type: none"> • Display 15.6 inch or Higher • HD ready • Resolution: 1366 x 768 pixels or higher • Connectivity: VGA, HDMI, Audio in & out port 	LCD/LED/TFT Monitors	Standard accessories	Standard spares, as suggested by the manufacturer	Operating Manual/user Manual, General Maintenance manual System Warranty Card Local Service Provider details	- To be installed at the designated ITI in Himachal Pradesh. - Training to the staff should be provided as required at the institute premises	2 Years Minimum
21.	Network storage	With Following minimum Specifications: 8TB Storage Capacity, One (1) Serial ATA II channel One (1) Ethernet port Two (2) USB 3.0 ports Boots from HDD Network Protocols: CIFS/SMB for Windows AFP 3.3 for Mac OS 9/X NFS v2/v3 for Linux and UNIX HTTP/S for Web browsers	Gigabit Ethernet and USB 3.0, Blazing-fast file transfers DLNA 1.5 and UPnP Certified Auto Network Discovery	Personal cloud storage, Ethernet cable, AC adapter	Standard spares, as suggested by the manufacturer	Operating Manual/user Manual, General Maintenance manual System Warranty Card Local Service Provider details	- To be installed at the designated ITI in Himachal Pradesh. - Training to the staff should be provided	2 Years Minimum

							as required at the institute premises	
22.	Display Card	With Following minimum Specifications: Base Clock (MHz): 1600 Minimum Memory Specs: Memory Speed: 10 Gbps Standard Memory Config: 8 GB GDDR5X Memory Interface Width: 256-bit Memory Bandwidth (GB/sec): 320 Technology : Simultaneous Multi-Projection: Yes Bus Support: PCIe 3.0 Operating System: Windows 8 & above, Linux & Mac OS 10 & above Display : Maximum Digital Resolution: 7680x4320@60Hz DP 1.43, HDMI 2.0b, DL-DVI Standard Display Connectors Multi Monitor: Yes HDCP: 2.2	Standard Features	Standard accessories	Standard spares, as suggested by the manufacturer	Operating Manual/user Manual, General Maintenance manual System Warranty Card Local Service Provider details	Training to the staff should be provided as required at the institute premises	2 Years Minimum
23.	Modem (Internal & External)	With Following minimum Specifications: Frequencies from 28.8k bps to 56k bps, RJ ports,10 slots (Internal) Frequencies from 28.8k bps to 56k bps, RJ ports, 10 slots (External)	Standard Features	Standard accessories	Standard spares, as suggested by the manufacturer	Operating Manual/user Manual, General Maintenance manual System Warranty Card Local Service Provider details	- To be installed at the designated ITI in Himachal Pradesh. - Training to the staff should be provided as required	2 Years Minimum

							at the institute premises	
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Lot-4: Softwares

Item No.	Name of Goods or Related Services	Technical Specifications of Item and/or Bureau of Indian Standards (BIS) (if applicable) reference	Features	Accessories	Spare parts	Documents	Installation & Training	Warranty of equipment/parts
1.	AutoCAD Software	AutoCAD 2019 or latest, (Academic Version) compatible with PCs installed Windows 8 or higher	10 user/ multiuser licence, with minimum of 2 year Licence.	Standard	Standard	Installation Manual Installation Software on Media with Key Software License.	- To be installed at the designated ITI in Himachal Pradesh. - Training to the staff should be provided as required at the institute premises	Warranty for the complete period of Licence of the software.
2.	MS Office Software	Microsoft Office: Licensed MS Office Professional 2016 or latest Fully installed versions of Word, Excel, PowerPoint, Outlook, OneNote, and more	11 user /multiuser license, with minimum of 2 year Licence.	Standard	Standard	Installation Manual Installation Software on Media with	Training to the staff should be provided	Warranty for the complete period of Licence of

		1TB minimum cloud storage Ongoing access to updates				Key Software License..	as required at the institute premises	the software.
3.	Tally ERP 9 or latest	Tally ERP 9 or latest Accounting Software With Payroll (Academic Version) Compatible with Windows 8, 10 or latest	11 user /multiuser license, with minimum of 2 year Licence.	Standard	Standard	Installation Manual Installation Software on Media with Key Software License.	Training to the staff should be provided as required at the institute premises	Warranty for the complete period of Licence of the software.
4.	Designing Software Corel DRAW	Corel DRAW 2018 (Academic Version) or latest Compatible with Windows 8, 10 or latest	11 user /multiuser license, with minimum of 2 year Licence.	Standard	Standard	Installation Manual Installation Software on Media with Key Software License.	Training to the staff should be provided as required at the institute premises	Warranty for the complete period of Licence of the software.
5.	Antivirus Software	Total security Antivirus Software (latest version) Compatible with Windows 8, 10 or latest	20 user/ multiuser licence , with minimum of 2 year Licence.	Standard	Standard	Installation Manual Installation Software on Media with Key Software License.	Training to the staff should be provided as required at the institute premises	Warranty for the complete period of Licence of the software.

6.	Microsoft Windows Server 2016 or latest	Microsoft Windows Server 2016 or latest, box pack, academic version 64bit	Single user, with minimum of 2 year Licence.	Standard	Standard	Installation Manual Installation Software on Media with Key Software License.	Training to the staff should be provided as required at the institute premises	Warranty for the complete period of Licence of the software.
7.	Adobe PageMaker	Adobe PageMaker Pro 7, 2018 or latest version Academic edition Compatible with Windows 7, 8,10 or latest	11 user /multiuser license, with minimum of 2 year Licence.	Standard	Standard	Installation Manual Installation Software on Media with Key Software License.	Training to the staff should be provided as required at the institute premises	Warranty for the complete period of Licence of the software.
8.	Adobe Photoshop	Adobe Photoshop CC 2018 19.1.5 or latest Compatible with Windows 7, 8, 10 or latest Academic edition	11 user/ multiuser license, with minimum of 2 year Licence.	Standard	Standard	Installation Manual Installation Software on Media with Key Software License.	Training to the staff should be provided as required at the institute premises	Warranty for the complete period of Licence of the software.
9.	Sound Forge Pro 12 or latest	Sound Forge Pro 12 or latest (Academic Edition) Compatible with Windows 7, 8, 10 or latest	11 user multiuser license, with minimum of 2 year Licence.	Standard	Standard	Installation Manual Installation Software on Media with Key Software License.	Training to the staff should be provided as required at the	Warranty for the complete period of Licence of the software.

							institute premises	
10.	Autodesk 3Ds MAX	Autodesk 3DS MAX software or latest (academic edition) compatible with Windows 7, 8, 10 or latest	11 user /multiuser license, with minimum of 2 year Licence.	Standard	Standard	Installation manual License certificate Subscription Document	Training to the staff should be provided as required at the institute premises	Warranty for the complete period of Licence of the software.
11.	MS Visual Studio Professional	MS Visual Studio 2017 or latest Academic edition compatible with Windows 7, 8, 10 or latest	11 user /multiuser license, with minimum of 2 year Licence.	Standard	Standard	Installation Manual Installation Software on Media with Key Software License.	Training to the staff should be provided as required at the institute premises	Warranty for the complete period of Licence of the software.
12.	Op Manager (Network Management Software)	Op Manager (Network Management Software) latest version compatible with Windows 7, 8, 10 or latest	Single user licence, with minimum of 2 year Licence.	Standard	Standard	Installation Manual Installation Software on Media with Key Software License.	Training to the staff should be provided as required at the institute premises	Warranty for the complete period of Licence of the software.

13.	Adobe Dreamweaver CC 2018 or latest	Adobe Dreamweaver CC 2018 or latest (Academic edition) Compatible with Windows 7, 8, 10 or latest	10 user /multiuser license, with minimum of 2 year Licence.	Standard	Standard	Installation Manual Installation Software on Media with Key Software License.	Training to the staff should be provided as required at the institute premises	Warranty for the complete period of Licence of the software.
14.	Adobe Premiere Pro Suite 2018 or latest	Adobe Premiere Pro Suite 2018 or latest Compatible with Windows 7, 8, 10 or latest Academic edition	11 user /multiuser license, with minimum of 2 year Licence.	Standard	Standard	Installation Manual Installation Software on Media with Key Software License.	Training to the staff should be provided as required at the institute premises	Warranty for the complete period of Licence of the software.
15.	Microsoft Office Front page 2003 or latest	Microsoft FrontPage latest (Academic edition)	10 user /multiuser license, with minimum of 2 year Licence.	Standard	Standard	Installation Manual Installation Software on Media with Key Software License.	Training to the staff should be provided as required at the institute premises	Warranty for the complete period of Licence of the software.
16.	Microsoft Window 10 (professional) or latest	Microsoft Windows 10 (Professional) or latest	11 user/ multiuser license, with minimum of 2 year Licence.	Standard	Standard	Installation Manual Installation Software on Media with Key Software License.	Training to the staff should be provided as required at the	Warranty for the complete period of Licence of the software.

							institute premises	
17.	LAN Protocol Simulation & Analyzer Software	LAN Protocol Simulation & Analyzer Software latest version	Single user licence, with minimum of 2 year Licence.	Standard	Standard	Installation Manual Installation Software on Media with Key Software License required	Training to the staff should be provided as required at the institute premises	Warranty for the complete period of Licence of the software.
18.	Network & Internet Security Trainer Latest Software	Network & Internet Security Trainer Latest Software	Single user licence, with minimum of 2 year Licence.	Standard	Standard	Installation Manual Installation Software on Media with Key Software License.	Training to the staff should be provided as required at the institute premises	Warranty for the complete period of Licence of the software.
19.	Creo (Pro-E) software	Creo 5.0 (Professional) or latest (Licensed) Academic edition Compatible with windows 8 and above	Single user, with minimum of 2 year Licence.	Standard	Standard	Installation Manual Installation Software on Media with Key Software License.	Training to the staff should be provided as required at the institute premises	Warranty for the complete period of Licence of the software.

4. Drawings

Not Applicable