

GOVERNMENT OF THE PUNJAB

TECHNICAL EDUCATION & VOCATIONAL TRAINING AUTHORITY





No.TEVTA/MIS/

January 21, 2021

NOTIFICATION

No.TEVTA/MIS/1-198 are hereby notified.

Technical Specifications for procurement of following IT Equipment

- 1. Entry Level Server
- 2. Work Station / Desktop Computer
- 3. Laptop
- 4. Printers
- 5. Multimedia Projector
- 6. Scanners
- 7. Network Equipment

The Purchase procedure will be followed as per Punjab Procurement Regulatory Authority (PPRA) Rules 2014.

(NAEEM ASLAM)
Chief Technology Officer

A copy is forwarded for information to:

- a) All General Managers and Deputy General Managers (TEVTA)
- b) All Zonal Managers and District Managers (TEVTA)
- c) Manager (Procurement), Manager (Admn.) TEVTA Secretariat
- d) All Committee Members
- e) Manager (MIS) TEVTA Secretariat to place on Website and Circulate through email
- f) SA to the Chairperson, PS to the COO, PA to Advisor Projects
- g) PA to General Manager Academics
- h) Master File

Specification of I.T Equipment

ENTRY LEVEL SERVER		
ITEM	DESCRIPTION	
Processor	Intel Xeon processor (3.0 GHz, 8MB Cache) Equivalent / higher	
Mother Board	Intel Chipset with min 4 Memory (RAM) slot or higher	
Memory (RAM)	Min 16 GB (2x8GB) or higher upgradeable/ Support upto 64GB	
Hard Disk Drive	Min 2x 1TB SATA or higher	
RAID Controller	Integrated SATA RAID Support Levels 0/1/10 or higher	
I/O Ports & Expansion Slots	Min 4 PCI/ PCIe Slots and 4 USB 2.0/3.0 slots or higher	
Optical Drive	DVD Writer (Super Drive)	
Display Card	As per manufacturer standards or integrated	
Network Adapter	Minimum 2x integrated Gigabit Ethernet (10/100/1000) or higher	
Mouse & Key Board	USB Standard Keyboard and Optical Mouse with Scroll.	
Chassis	Tower / mini Tower Casing	
Power Supply	Single Power Supply or manufacturer's standard	
Display LED	20" LED Display, 1024 x 768 Resolution supportive or higher	
Optional (Need Based)		
Operating System (Educational Licensed)	Microsoft Windows 2016 Server Std. Edition with minimum 10 CALS or latest	
Wire Less LAN Card	300Mbps or higher	
ECC Memory	Min 8 GB (Single Module)	

WORK STATION / DESKTOP COMPUTER		
ITEM	DESCRIPTION	
Processor	Intel 10 th Generation Core i5 processor 2.9 GHz (base frequency), 12MB Cache or higher	
Mother Board	Intel chipset Motherboard with min 2 Memory (RAM) slot or higher	
Memory (RAM)	Min 8 GB- DDR-IV or higher (single module), support upto 32GB	
Hard Disk Drive	Min 1TB SATA with 7200 RPM or higher.	
Display /Sound Card	Integrated display and audio card.	
Network Adapter	Integrated Gigabit Ethernet (10/100/1000 Mbps)	
Display	18.5" LED or above, Low Radiation, 1024 x 768 Resolution supportive or better	
Mouse & Keyboard	USB Standard Keyboards and Optical Mouse with Scroll.	
Casing	Tower / Micro Tower /Mini Tower	
I/O Interfaces and Expansion Slots	Min 4 USB 2.0/3.0 ports and Two PCI/ PCI Express slots	
Optional (Need Based)		
Optical Drive Internal	DVD-RW (Super Drive) or higher	
Operating System (Educational Licensed)	Microsoft Windows 10 Professional or Latest Version	
Wireless LAN Card	300Mbps or higher (if Wireless Networking required)	
Graphics Card	As per curriculum requirement	

	LAPTOP
ITEM	DESCRIPTION
Processor	Intel 11 th Generation Core i7 Processor 2.8 GHz (base frequency),12MB cache or higher
Memory	8 GB- DDR-IV (Single Module) or higher, Support upto 32GB
Hard Disk Drive	512GB-SSD or higher.
Display Card/ Sound Card	Built-in Video Graphics display and sound card.
Connectivity	Integrated Gigabit Ethernet, Built-in WIFI and Bluetooth
Display	15" Full High Definition Display or higher
Mouse & Key	Touchpad Mouse and Standard Keyboard
Camera & Speaker	Built-in web cam with Mic, Integrated Speaker
Accessories	Original Carry-Pack/ Executive Bag (Branded), Original Power Adapter & Original Battery
Warranty	Three Year
Optional (Need Base	ed)
Super Drive	DVD-RW (Super Drive) or higher
Operating System	Microsoft Windows 10 Professional or Latest Version (Licensed)

	PRINTERS		
ITEMS	DESCRIPTION		
LaserJet Medium Duty	Minimum Print Speed: 40 PPM A4 size, Resolution 1200X1200 Dpi (1200 Image Quality) or better. Processor: 1024 MHz or higher Memory: 128 MB RAM or higher. Paper Handling: Legal, A4 & letter size paper. Duplex Printing: Automatic Two-sided printing (Duplexer Card). Paper Tray(s): Two Paper Trays minimum. Low Ink indicator. Print cancel job etc LCD/LED Display of the Print Status, With other Standard Features of the Manufacturer. Drivers: Microsoft windows, Linux supportive. Accessories: Data Cable, Power Cable		
LaserJet Light Duty	Minimum Print Speed: 20 PPM, Memory: 64 MB RAM or higher, Processor: 400 MHz or higher Resolution: 600 x 600 dpi or better quality. Paper Handling: Legal, A4 & letter size paper. Paper Tray(s): One paper tray minimum. Other standard features like print cancel job etc. Drivers: Microsoft windows, Linux supportive. Accessories: Data Cable, Power Cable		
Color LaserJet Light Duty	Print Speed: 18 PPM (A4 size color on normal quality mode) or higher. Memory: 128MB RAM or higher. Processor: 512 MHz or higher Resolution: 600x600 dpi or better. Paper Handling: Legal, A4 and letter size paper. Paper Tray(s): one paper tray minimum + one manual paper feeding. Other standard features like low lnk indicator, print cancel button etc. Drivers: Microsoft windows, Linux supportive. Accessories: Data Cable, Power Cable		
Dot Metrix	Printing Method: impact dot matrix Print Speed: Draft mode 225cps (10cpi) or higher. Input Buffer: 8KB or higher. Number of Pins: 24Pins Formatting: Line spacing 1/6" or better Paper Handling: Cut Sheets, width 3.9" to 10.1", Length 3.9" to 14.3". Continuous paper width 4' to 10", Length 22". Paper Feed Method: Friction, Push tractor, Push & pull tractor and Pull tractor feed. Interface: Bidirectional 8-bit parallel and Serial Interface Drivers: Microsoft windows, Linux supportive. Accessories: Data Cable, Power Cable		

	VONDERS CONTROL OF THE PARTY OF
ITEMS	DESCRIPTION
Light Duty Scanner for A4/ Letter size paper	Flatbed. Scanning
	Resolution: 600 by 600 or higher.
	Document Size: A4/Letter.
	Scanning modes: B/W & Color.
	Standard features along-with USB cable.
	Drivers: Microsoft windows, Linux supportive.
	Accessories: Data Cable , Power Cable
	Automatic Document Feeding and Flatbed.
	Scanning Speed: 20 ppm / 36 ipm or higher
LL L. B.	Scanning Resolution: 600 by 600 or higher.
Light Duty Scanner for Legal size paper	Document Size: Letter, Legal.
	Scanning modes: B/W & Color.
	Standard features along-with USB cable.
	Drivers: Microsoft windows, Linux supportive.
	Accessories: Data Cable, Power Cable

	MULTIMEDIA PROJECTOR		
ITEMS	DESCRIPTION		
Brightness	3,000 Lumens (Lamp mode High) or better		
Contrast Ratio	500:1/700:1 / 2,000:1		
Native Resolution	XGA (1024x768) or better		
Aspect Ratio	4:3 or better		
Acceptable Video Signals	720p, 1080i, 576i, 576p		
Lamp Life (hours)	3000 hour or higher		
Zoom Lens	x1.3		
Projection/ Display Size:	30" to 300"		
Optical Lens Shift	Horizontal & Vertical		
Ceiling Mountable & Remote Control	Yes		
Ports	VGA, HDMI, PC Audio in/out		
USB Port	PC-free slideshows feature with remote control (to run presentation without Computer)		

	NETWORK EQUIPMENT		
ITEMS	DESCRIPTION		
ACTIVE			
Non-Manageable Switch	Non-Manageable Layer 2 Full Duplex, 10/100/1000 BaseT, TX Fast Ethernet 24 Ports		
Non- Manageable Switch	Non-Manageable, 10/100/1000 BaseT, TX Fast Ethernet 08 Ports		
Wireless Access Point / Router (If Wireless Networking Required)	300Mbps with minimum 4 Ethernet Ports (10/100 Mbps) or higher		
PASSIVE EQUIPMEN	T		
ITEMS	DESCRIPTION		
UTP Cable CAT 6E (Pure Copper)	UTP cable, 4 pair, Fast Ethernet supported, Roll/Box = 1000 ft minimum		
Face Plates	Face Plates with dual shutter, dual fast Ethernet supported UTP I/O		
Back Box	Standard Back Box		
Patch Panel	UTP 24-Port Patch Panel with rear cable management		
Patch Cord	UTP Patch Cord, fast Ethernet supported 1 meters, 3 meters, 9 meters or (length as per requirement)		
Data Cabinet	Data Cabinet 4 U, perforated top, Floor standing, min 2 exhaust fans and power panel, glass door and Lock		
Ducts	Duct 16 x 38 (10 Ft Per Length) ISO certified Brand		
Ducts	Duct 40 x 40 (10 Ft Per Length) ISO certified Brand		
PVC pipe	PVC Flexible 1 (10 ft Length)		
	UTP Cable Laying & Termination job (Per Running Foot)		