

मधेश प्रदेश सरकार
शिक्षा तथा समाज कल्याण मन्त्रालय

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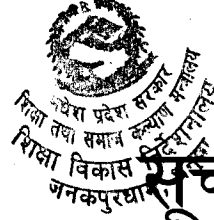
शिक्षा विकास निर्देशनालय

जनकपुरधाम, धनुषा ।

पत्र संख्या:- २०८०।०८१

मिति:- २०८०।०६।२१

चलानी नं.:-



सूचना!

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प्रस्तुत विषयमा यस निर्देशनालयद्वारा प्रदेशका ८ वटै जिल्लामा 1/1 वटा विद्यालयहरूलाई नमूना विद्यालय बनाउन ICT Lab (Interactive Flat Panel with IoT, Multi connection Inter processor with digital science lab, VR Lab, Laptop, Desktop, Printer, Furniture) जडान कार्यको लागि खरिद प्रकृत्यामा जानु पर्ने भएकोले सम्बन्धित कम्पनी वा संस्थाले दररेट यसै साथ संलग्न Technical Specification अनुसारको प्रति इकाई मुल्य (भ्याट बाहेक) यस निर्देशनालयको Email address- eddjanakpur@gmail.com मा मिति २०८०।०६।३० गते भित्रमा उपलब्ध गराइ दिनुहुन यो सूचना प्रकाशन गरिएको छ।

चुडामणि फुयाल

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Technical Specifications of ICT Lab Equipment



2. Multi Connection Inter Processing Box		
Make Offered		
Model Offered		
SN	Items	Minimum or Equivalent Technical Specification or Better
1	Processor	ARMv7 64Bit Processor 1.2 Ghz
2	RAM	1 GB
3	Storage	64 GB
4	Wi-Fi	2.4Ghz & 5 Ghz
5	Operating System	Linux / windows
6	Access Interface	Wi-Fi
7	No Of Concurrent Devices	20
8	Open Area Radius Covered	20 meter
9	Power	12V-2amp
10	Software and Content Loaded	Class 1 to Class 10 Math and Science, Digital Science Lab for class 6,7,8,9 and 10
		Propriety Digital Library Application with in-built Interactive Tools in eReader / mPlayer
		Automatic Syncing capabilities to cloud server for analytics
		Usage report for download by admin and cloud-based dashboard for department levels
14	Certifications	ISO 9001:2015, ISO 9001:27001
15	Warranty	1 Year for Hardware and Services, 1 Year for Content License

3. AI Virtual Relaiity Lab		
Make Offered		
Model Offered		
SN	Items	Minimum or Equivalent Technical Specification or Better
1	CPU	Qualcomm Snapdragon XR1 2.1G Cota Core 10nm
2	GPU	Adreno 615 780 MHz
3	RAM	2 GB
4	Built in Storage	16GB
5	Wi-Fi	2.4/5G Dual mode 802.11B/G/N/AC
6	Bluetooth	Version 4.2
7	System	Android Verion 8.1 / Nibiru ROM3.0

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Technical Specifications of ICT Lab Equipment



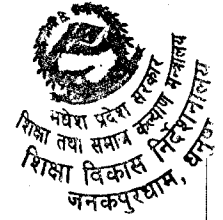
8	Display	BOE Flash Screen 5.46 inch TFT-LCD Module
9	Screen Resolution	3840*2160 (4K)
10	Refresh Rate	75Hz
11	Pupil Distance	Adaptive 58mm-66mm
12	Support	MPEG-2, H.264, 360 view, h.265 support 3D video formats
13	Subtitle Format	SRT, sub, idx+sub, SSA, SMI
14	Audio Format	MP3/AAC/av-3
15	Sound	Mono, Stereo
16	Earphone Support	Yes
17	Polymer Battery	3.8v/400mah/3.5 hours working time
18	App Support	Nibiru Customized 2D/3D applications, Third party applications
19	Certifications	CE,ROHS,FCC,BSCI,ICE,CCC,SAR
20	Warranty	1 year content license and hardware

4.Interactive Flat Panel with IoT


Make Offered		
Model Offered		
SN	Items	Minimum or Equivalent Technical Specification or Better
1	Screen Size	65"
2	Resolution	3840*2160 UHD
3	Brightness	350 cd/m ²
4	Contrast	1200 ; 1
5	Screen Size(mm)	1428.5*803.5
6	Aspect Ratio	16:09
7	View Angle	178°
8	Screen Mode	16:9/4:3/dot to dot/full screen
9	Color Depth	10bit, 1.07Billion colors
10	Panel Response Time	8ms
11	Support Resolution	4K Ultra HD 3840x2160
12	Screen Gap	Zero gap between the glass and panel
13	AG Tempered Glass	4mm thickness, 7H hardness
14	Android Specification	Android 11.0
		4 x ARM Cortex-A55@1.9GHz
		Quad-core MaliG52
		Dual 5.0GHz WiFi Module , one for WIFI, one for hotspot.

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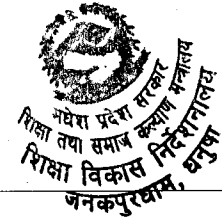
Technical Specifications of ICT Lab Equipment



		Ethernet 10/100/1000 network card with RJ45 connector.
		Bluetooth® 5.0
		Ram: 4GB
		Storage: 32GB
		Full support for 4K UHD resolution (with OPS slot working with 4k 60Hz)
		The file manager is supported
		Screen sharing application is supported
15	IoT Specifications	Processor : Broadcom BCM2837 64bit ARMv7 Quad Core Processor @ 1.2GHz
		RAM : 1GB
		Storage : 64 GB
		WiFi : 2.4Ghz
		LAN : 1 RJ-45 port 10/100/1000 Mbps
		Operating System : Linux
		Access Interface : Wi-Fi
		Port : 1*HDMI, 2*2.0 USB, 1*3.5mm jack
		Digital Library Application with eReader, Player
		Loading 3rd Party Content (within the available storage)
16	Android IWB app:	Drawview X: it provide abundant whiteboards tools, support annotation over any source
17	Input Ports of Connectivity	Rear: 2*HDMI2.0, 1*VGA&AUDIO IN, 1*YPBPR, 2*USB 3.0, 1*USB2.0, 1*TOUCH-USB, 1*TF card,1*RS232, 1*RJ45 IN, 1*AV IN, 1*MIC IN, 1*DP, 1*Type C(only for USB), 1*OPS SLOT
18		Front: 1*HDMI2.0, 1*TOUCH USB, 3*USB3.0, TYPE-C (Support Touch, Data, Video and Audio transfer, charging(standard 15W)
19	Output Ports of Connectivity	1*HDMI-out, 1*COAXIAL, 1*Earphone, 1*RJ45 OUT, 1*AV OUT
20	Front Button	8KEY(POWER,SOURCE,MENU,VOL-,VOL+,HOME,ENTER,ESC)
21	Light Sensor	Integrated light sensor for brightness detector that automatically adjusts the brightness of the panel according to ambient light.


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Technical Specifications of ICT Lab Equipment



22	Voltage	AC(100~240)V-50/60HZ
23	Speaker	15W*2
24	Power Range	Standby Power<1W, Rated Power<250W
25	Touch Parameter	Touch Technology : Infrared Touch
		Touch Points : 20 touch points
		Writing Mode : Finger or any opaque object
		Accuracy : <2mm
		Response Time : 6ms
		Cursor Speed : 180 dot/s
		Connection Port : USB 2.0, USB 3.0
		Operating System : Windows/Linux/Mac/Android/Chrome OS
		Working Temperature : 0°C-40°C
26	Accessories	Magnetic Pen*2, HDMI Cable*1, Touch USB, Power Cable*1, Software download card*1, Remoter*1, Wall mounting bracket*1
27	Certifications	CE, FCC, RoHs, ISO, Energy Star
28	Warranty	1 Year

5.Laptop

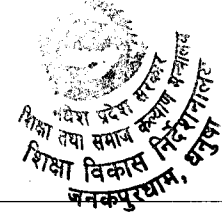
5.Laptop		
Make Offered		
Model Offered		
SN	Items	Minimum or Equivalent Technical Specification or Better
1	Processor	11th Generation Intel Core i5 3.001GHz
2	Motherboard	Intel Chipset
3	Memory	4 GB DDR4
4	Storage	256GB SSD
5	Graphics	intel Iris XE Graphics / intel UHD Graphics
6	Network Connectivity	WIFI (802.11 a/b/g/n/ac) wireless Dual band (204GHz and 5GHz) , Support Bluetooth 4.0
7	Display	14"
8	Web Cam	HD Camera
9	I/O Ports	2* USB Port, 1*HDMI, Headphone/ Microphone
10	Battery	3-Cell (Li-ion)
11	Operating System	64 bit Microsoft Windows 11 Pro (Genuine)
12	Software	Internet Protection Antivirus Software with License (1 Year)
13	Accessories	laptop bag
14	Warranty	One Year Parts Warranty and Service

6. Branded Desktop

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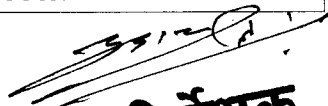
Technical Specifications of ICT Lab Equipment



Make Offered		
Model Offered		
SN	Items	Minimum or Equivalent Technical Specification or Better
1	Processor	10th Gen Intel Core™ i5 processor (2.9GHz to 4.3GHz)
2	Operating System:	64 bit Windows 10 (Genuine)
3	Graphics Card	Intel® UHD
4	Memory	4 GB, 1 x 4 GB, DDR4
5	Hard Drive	512GB Solid State Drive
6	Display	19.5" LED Monitor
7	Keyboard / Mouse	Wired Keyboard and Mouse
8	Ports	1 RJ-45 port 10/100/1000 Mbps, 2 USB 2.0 Gen 1 ports, 2 USB 3.2 Gen 1 HDMI 1.4b port, 1 VGA Port
9	Wireless	802.11ac 1x1 WiFi and Bluetooth
10	Power Supply	260W
11	Warranty	1 Year warranty against manufacturing defects

7. Printer (Three in One)

Make Offered			
Model Offered			
SN	Items	Minimum or Equivalent Technical Specification or Better	
1	Print	Printing Method	Monochrome Laser Beam Printing
		Print Speed (A4)	27 ppm
		Print Resolution	600 x 600 dpi
		Print Quality with Image Refinement Technology	1,200 x 1,200 dpi (equivalent)
		Warm-Up Time (From Power On)	13.5 secs. or less
		First Print Out Time (FPOT) A4	Approx. 6.0 secs.
		Recovery Time (From Sleep Mode)	2.0 secs. or less
		Print Language	UFR II LT, PCL 6
		Auto Duplex Printing	Standard
		Available Paper Size for Auto Duplex Print	A4, Letter, Legal (*1), Indian Legal, Foolscap
		Print Margin	5mm-top, bottom, left and right (Other sizes than Envelope) 10mm-top, bottom, left and right (Envelope)
2	Copy	Copy Speed (A4)	27ppm
		Copy Resolution	600 x 600dpi
		First Copy Time A4	Approx. 9.0secs.


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Technical Specifications of ICT Lab Equipment



		Maximum Number of Copies	Up to 999 copies
		Reduce / Enlargement	25 - 400% in 1% increments
		Copy Features	Memory Sort, 2 on 1, 4 on 1, ID Card Copy
3	Scan	Scan Type	Colour Contact Image Sensor
		Scan Resolution	Optical Up to 600 x 600dpi
			Driver Enhanced Up to 9,600 x 9,600dpi
		Maximum Scan Size	Platen Glass Up to 216 x 297mm
		Scan Speed (*2)	Platen Glass Approx. 3.0secs. per sheet (mono)/ Approx. 4.0secs. per sheet (colour)
			ADF (A4) 20 / 15ipm (mono / colour)
		Colour Depth	24-bit
		Pull Scan	Yes, USB and Network
		Push Scan (Scan To PC) with MF Scan Utility	Yes, USB and Network
Scan To Cloud	Yes, MF Scan Utility		
Scan Driver Compatibility	TWAIN, WIA, ICA		
4	Connectivity & Software	Standard Interface	Wired (High-Speed USB 2.0, 10 / 100 Base-T Ethernet)
			Wireless (Wi-Fi 802.11b/g/n (Infrastructure mode, WPS Easy Setup, Direct Connection)
		Network Interface	Print
			Scan (WSD-Scan (IPv4, IPv6)
			TCP / IP Application Services: (Bonjour(mDNS), DHCP, BOOTP, RARP, Auto IP (IPv4), DHCPv6 (IPv6)
		Network security	Management (SNMPv1/v3 (IPv4, IPv6), HTTP / HTTPS, SNTp)
Network security	Wired (IP / Mac address filtering, SNMPv3, SSL (HTTPS / IPPS), IEEE802.1x		

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Technical Specifications of ICT Lab Equipment



		Wireless (WEP 64 / 128-bit, WPA-PSK (TKIP / AES), WPA2-PSK (AES)
	Operating Systems	Windows 10 32/ 64 bit
	Software included	Printer driver, Scanner driver, MF Scan Utility, SSID Tool, Toner Status
5	Power Requirement	AC 220 - 240V ($\pm 10\%$), 50 / 60Hz ($\pm 2\text{Hz}$)
6	Accessories	Toner
7	Warrenty	1 Year

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