



Laligurans Municipality

Office Of Municipal Executive

Basantapur, Tehrathum

Koshi Province, Nepal

Instructions and Recommendations

for

PROCUREMENT OF ICT EQUIPMENTS FOR RATNA MAVI SOLMA

Date: 2083/01/24

The equipment specifications are mentioned below. The provided equipment/items should comply with or exceed the specifications listed below.

Section-A: Electronics Devices

A. Laptop Computer			
S.N.	Particulars	Specification	Remarks
1.	CPU/Processor	Intel Core i5 12/13th Gen	
2.	Memory	8 GB DDR4/DDR5 RAM	
3.	Display	14" (1920 x 1080) Full HD,	
4.	Storage	512 GB SSD NVMe	
5.	Graphics	Integrated Intel Iris Xe Graphics/Integrated Intel UHD Graphics	
6.	Audio	Dolby Audio, Realtek codec	
7.	Battery	Integrated 43 Wh	
8.	Camera	HD Camera	
9.	Operating System	Windows 11 Home OS	
10.	Keyboard	Backlit	
11.	Network	Wi-Fi 6E, Bluetooth 5.2 or above,	
12.	Connections	2 × USB 3.2 Gen 1 1 × USB-C 3.2 Gen 1 (Power Delivery + DisplayPort) 1 × HDMI 1 × Combo Audio Jack	
13.	Quality	Product Should Be Branded.	
14.	Warranty	1 years	
2. Desktop Computer with Monitor			
S.N.	Particulars	Specification	Remarks
1.	CPU/Processor	12/13th Gen Intel Core i5	
2.	Memory	8 GB RAM	
3.	Storage	256 GB NVME SSD n	
4.	Graphics	Intel® UHD Graphics	
5.	Audio	Integrated 5.1 Channel High Definition audio	

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6.	Slot	One PCIe x16 slot, One PCIe x1 slot or Two PCIe x1 slots + one PCI-32 slot, Three SATA 3.0 slots, One M.2 2230 slot for WiFi and Bluetooth combo card, One M.2 2230/2280 slot for solid-state drive.	
7.	Power	240 W internal PSU	
8.	Operating System	Windows 11 Home OS	
9.	Input Devices	Wired Keyboard and Mouse As per Brand of PC	
10.	Network	Wi-Fi 5, Bluetooth 5.1,	
11.	Connections	4x USB 3.2 Gen 1 ports (Front 2, Back 2), 4x USB 2.0 ports (Front 2, Back 2), 1x Global headset jack, 1x SD-card slot, 1x Audio line-out port, 1x HDMI 1.4b port, 1x DisplayPort 1.4 1x RJ-45 Ethernet port 1x AC power-supply	
12.	Quality	Product Should Be Branded	
13.	Monitor	Display 19"/20", Support HDMI, Resolution 1600 x 900 at 60 Hz, 16:9 Ratio	
14.	Warranty	1 years	

3. Printer All in One Inkjet Color

S.N.	Particulars	Specification	Remarks
1.	Print Type	Color and Black Both, Inkjet	
2.	Print speed Monochrome	8.8 ppm	
3.	Print speed Color	5 ppm	
4.	Printer Media Size	A4, and Letter	
5.	Scan	Scanner Type: Flatbed	
		Optical Resolution: 600 x 1200dpi	
		Document Size: Flatbed A4 / Letter (216 x 297mm)	
		Scanning Speed: 20s	
6.	Copy	Copy speed: Approx. 3 images per minute color	
		Paper Capacity: Rear Tray: Up to 100 sheets or above	
		Multiple Copy: 1-21 pages	
		Copy Media Size: A4, and Letter, Legal, Executive, B5, A5, B6, A6, Envelopes, Photo Sizes	
7.	Paper Capacity	Rear Tray: Up to 100 sheets	
8.	Connector Type	USB, Wireless	
9.	Hardware Interface	USB 2.0 or 3.1	
10.	Supported OS	Windows 10, Windows 11 and Mac OS	
11.	Interface	Hi-Speed USB, compatible with USB 1.1	
12.	Quality	Product Should Be Branded.	
13.	Warranty	1 years	

D. Printer Monochrome			
S.N.	Particulars	Specification	Remarks
1.	Type	Multi-Functional (Print, Scan and Copy)	
2.	Printing	Print Type: Laser, Black	
		Print Speed: 30 ppm to 35ppm	
		Print Resolution: 2400 x 600 dpi or 1200 x 1200 dpi	
		First Print Time: Less than 8.5 seconds	
		Duplex Printing: Yes	
3.	Scanning	Scan Type: Color and Black	
		Scan Speed: Up to 25ppm	
		Scan Resolution: 2400 x 600 dpi or 1200 x 1200 dpi for Flatbed and 600 x 600 dpi for ADF	
		Functionality: Flatbed, ADF	
4.	Copying	Copy Type: Laser, Black	
		Copy Speed: Up to 35 p.m.	
		Copy Resolution: 600 x 600 dpi	
		Zoom/Enlarge/Reduce: 25% to 400%	
		Multiple Copy Pages: 1-99 pages	
		First Out Print Time: <10s for Flatbed and <11s for ADF	
5.	Paper Input/Output/ Handling	Paper Tray: Up to 250 pages	
		Paper Types: Support Minimum Plain Paper, Thin Paper, Thick Paper, Thicker Paper, Transparency, Label, Envelope	
		Paper Size: Support Minimum A4, A5, JIS B5, ISO B5, A6, Letter, Executive, Legal, Folio	
		ADF Capacity: Minimum 50 Pages	
		Paper Output Tray: Minimum 100 pages	
6.	Interface/Connectivity	Supports High Speed USB 2.0, 10/100 Base-Tx LAN, IEEE 802.11b/g/n Wi-Fi Direct	
7.	OS Support	Windows 7/ Win 8 / Win8.1 / Win10/ Win11 (32/64 Bit), Mac OS, Linux, Android	
8.	Supplies	Cartridge (Drum and Toner)	
9.	Quality	Product Should Be Branded.	
10.	Warranty	1 Years	
E. E-Attendance Device and Software with Installation			
S.N.	Particulars	Specification	Remarks
1.	Attendance and Access Control with Nepali Date & Time Software	<ul style="list-style-type: none"> • With Face Detection, Fingerprint Detection, Card Reader • Access Control Functionality • Face Capacity 500, Fingerprint Capacity 1000, Card Capacity 1000, Record Capacity - 100,000 • Display - TFT Screen 	

		<ul style="list-style-type: none"> • Standard Functions - Work Code • With Software Functionality (Nepali/English Date Option, Leave Management, Simple Salary Calculation Daily Report, Monthly Report, Yearly Report) • Warranty 1 Years 	
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F. Projector

S.N.	Particulars	Specification	Remarks
1.	Resolution	800 × 600 (SVGA)	
2.	Brightness	4,800 ANSI Lumens	
3.	Contrast Ratio	22,000:1 (Super Eco)	
4.	Light Source	Lamp (190W)	
5.	Lamp Life	5,000 hrs. / 15,000 hrs. (Eco)	
7.	Projection Size	30"-300"	
8.	Throw Distance	1.19m – 13.11m	
9.	Zoom	1.1x	
10.	Keystone	±40° (Vertical)	
11.	Connectivity	HDMI ×1, VGA ×2, Composite ×1	
12.	Audio	2W Speaker	
13.	Power Consumption	260W	
14.	Quality	Product Should Be Branded.	
15.	Warranty	1 Years	

G. Projector Screen

S.N.	Particulars	Specification	Remarks
1.	Screen Size	120" Diagonal	
2.	Aspect Ratio	4:3	
3.	Screen Type	Tripod Stand (Portable)	
4.	Material	Matte White Fabric	
5.	Thickness	0.4 mm	
6.	Projection Type	Front Projection	
7.	Usage	Classroom, Office	

H. Computer Speaker

S.N.	Particulars	Specification	Remarks
1.	Audio	2.0 Channel Stereo	
2.	Power	3*2= 6W Output	
3.	Connectivity	USB Power	
4.	Design	Compact & Lightweight	
5.	Control	Built-in Volume Control	
6.	Compatibility	PC, Laptop, Mobile	
7.	Driver	Dynamic Driver	

I. Keyboard			
1.	Keyboard	USB Wired keyboard with Numeric keypad, Compatible with Windows, macOS, Linux	
I. Mouse			
S.N.	Particulars	Specification	Remarks
1.	Mouse	USB Optical mouse, Compatible with Windows, macOS, Linux, 3 buttons including 2D non-slip scroll wheel, 1600 DPI	

Section-B: Surveillance Devices and Accessories

S.N.	Equipment's/Items	Specification	Remarks
1.	IP Camera 4MP Wide angle	<ul style="list-style-type: none"> • 4MP (2560 × 1440) high-resolution imaging, Bullet • 24/7 full-color night vision • Lens: 4mm Long Distance Wide-angle View • Smart Hybrid Light (IR + White Light) up to 30m • Human & Vehicle Detection (Motion Detection 3.0) • H.265+ compression for storage saving • 20 dB True WDR backlight support • IP67 weatherproof outdoor design • PoE support (power + data via single cable) • Optional SD Card supports up to 512GB • Optional Strobe & Audio Alarm • ONVIF Compatibility • Product Should be Branded • Warranty 1 years 	
2.	IP Camera 2MP Bullet	<ul style="list-style-type: none"> • 2MP Full HD resolution (1920 × 1080), Bullet • 24/7 full-color imaging • Lens: 2.4mm for short and 4mm Long Distance View • Smart Hybrid Light (IR + White Light) up to 30m • Human & Vehicle Detection (Motion Detection 3.0) • H.265+ video compression (storage & bandwidth saving) • WDR for strong backlight scenes • IP67 weatherproof (outdoor use) • PoE support (Power + Data over single cable) • Optional microSD card supports up to 512GB • Optional /SL & /SRB variants (strobe light + audio alarm) • ONVIF compatibility • Product Should be Branded • Warranty 1 years 	
3.	IP Camera 2MP Dome	<ul style="list-style-type: none"> • 2MP Full HD resolution (1920 × 1080), Dome • 24/7 full-color imaging • Lens: 2.4mm for short and 4mm Long Distance View • Smart Hybrid Light (IR + White Light) up to 30m • Human & Vehicle Detection (Motion Detection 3.0) 	

		<ul style="list-style-type: none"> • H.265+ video compression (storage & bandwidth saving) • WDR for strong backlight scenes • PoE support (Power + Data over single cable) • Optional microSD card supports up to 512GB • Optional /SL & /SRB variants (strobe light + audio alarm) • ONVIF compatibility • Product Should be Branded • Warranty 1 years 	
4.	NVR 8 Channel	<ul style="list-style-type: none"> • 8-channel IP NVR supports up to 8 IP cameras • Supports up to 8MP camera input • H.265+ / H.265 / H.264+ / H.264 compression for efficient storage saving, Min 1080p decoding for all 8 channels • HDMI output up to 4K • 8-channel synchronous playback support for recorded video review • Smart functions (Motion Detection/VCA support) • 1 SATA interface (supports up to HDD 8TB) • Smart search & playback for quick event-based video retrieval • Remote viewing via mobile app • ONVIF compatible • Network port: RJ45 10/100 Mbps Ethernet • USB ports for backup (mouse, USB drive export) • 1U design, low power consumption (~10W without HDD) • 24/7 continuous recording support • Product Should be Branded • Warranty 1 years 	
5.	Hard Disk Drive 4 TB	<ul style="list-style-type: none"> • 4 TB HDD Surveillance Internal Hard Disk Drive • Min. 5200 RPM SATA for CCTV Camera • Unparalleled data protection • RV sensors built in • ATA streaming support • Warranty 2 Years 	
6.	Monitor	<ul style="list-style-type: none"> • 22 Inch, Refresh Rate 100Hz, Full HD IPS Panel Borderless • Warranty 1 Years 	
7.	CC Camera Outdoor Box	<ul style="list-style-type: none"> • CCTV Weatherproof Outdoor Camera Junction PVC box • Enclosure IP65 Terminal Cable 	
8.	CAT 6 Cable	<ul style="list-style-type: none"> • Full Length 305 m CAT6 Solid Copper network cable • Core diameter: 0.55mm • Excellent transmission performance using solid copper • Guaranteed long PoE transmission distance 	
9.	RJ 45 Connector	<ul style="list-style-type: none"> • Supports frequencies up to 250 MHz and 1000Base-T Ethernet transmission standard • 100 pics box 	

10.	8 ports PoE Switch	<ul style="list-style-type: none"> • Smart PoE switch with 10*10/100M RJ45 ports. • Port 1-8 can support PoE+ power supply. 2 uplink ports • PoE watchdog function is turned on by default, • Switch the functional switch (250m), • Switching Capacity: 1.5 to 2.5 Gbps • Port 1-8 support 10M/250m transmission and built-in 120W power supply. • Warranty 1 Years 	
11.	4 ports PoE Switch	<ul style="list-style-type: none"> • Smart PoE switch with 6*10/100M RJ45 ports. • Port 1-4 can support PoE+ standard. • PoE watchdog function is turned on by default, • Switch the functional switch (250m), • Switching Capacity: 1 to 2 Gbps • Port 1-4 support 10M/250m transmission and built-in 64 W power supply. • Warranty 1 Years 	