



नगर कार्यपालिकाको कार्यालय

Office of the Municipal Executive

(Google Plus Code: C8RJ+C6 Neulapur)

सैनवार, बर्दिया
Sainawar, Bardiya



लुम्बिनी प्रदेश, नेपाल
Lumbini Province, Nepal

सूचना !

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सी.सी टिभि सेट, ए.भि.आर. बोर्ड, स्मार्ट टि.भि आदिको दररेट पेश गर्ने सम्बन्धमा।

(तेस्रो पटक प्रकाशित मिति: २०८१/०२/१७ गते)

प्रस्तुत विषयमा यस ठाकुरबाबा नगरपालिका अन्तर्गतको विद्यालयका लागि सी.सी टिभि सेट, ए.भि.आर. बोर्ड तथा स्मार्ट टि.भि खरिद गर्नुपर्ने भएकाले मिति २०८१/०२/२३ गतेसम्म (७ दिन भित्रमा) आफुले के कति दर रेटमा पत्रसाथ संलग्न स्पेशिफिकेसन बमोजिमका सामाग्रीहरू दिन सकिन्छ सो को दररेट उल्लेख एवम् प्रमाणित गरि स्पेशिफिकेसनमा समेत ब्राण्डको नाम र मोडल नम्बर उल्लेख गरि प्रमाणित गरि पेश गर्नुहुन अनुरोध छ।

नोट: दररेट केवल Project Cost Estimation मा प्रयोग गरिने छ।


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THAKURBABA MUNICIPALITY

बर्दिया
२०७३



Thakurbaba Municipality
Office of the Municipal Executive
Sainawar, Bardiya
Lumbini province

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BoQ of CCTV Camera Set, 75Inches AVR Board, 55Inches Smart TV etc.

S.N.	Particular	Unit	Quantity	Rate	Amount	Remarks
1	Indoor 2MP IP Dome Camera	Nos	28			
2	Outdoor 4MP Bullet Camera	Nos	4			
3	32 Port NVR with 2 SATA	Nos	1			
4	10 TB Surveillance HDD	Nos	1			
5	8 Port PoE Switch With 2 Uplinks Port	Nos	4			
6	UTP CAT6 Cable With Pure Copper	Box	2			
7	9U Rack	Nos	1			
8	75 Inches Digital AVR Board	Nos	12			
9	55 Inches Smart TV	Nos	1			
10	A3 Printer	Nos	1			
11	Speaker	Nos	2			
12	Mixer Amplifier (including cable to connect to speaker)	Nos	1			
13	Microphones (Wired)	Nos	2			
14	Microphones (Wireless)	Nos	2			
15	OPS	Nos	1			
16	Desktop Computer Set (for ICT Lab)	Nos	15			
17	Branded AVR Board Stand (With wheel lock system, capacity: ≥75 Inches)	Nos	1			
18	Installation of CCTV (Listic, Wiring and Power Socket, Cable clipping)	Per Unit	32			
19	Installation of Smart TV (Listic, Wiring and Power Socket, Cable clipping)	Per Unit	1			
20	Installation of AVR Board (Listic, Wiring and Power Socket, Cable clipping)	Per Unit	12			
Total						
VAT 13%						
Grand Total						

Firm Name:

Address:

Name of Representative:

Signature:

Date:

Contact Num.:

Firm Stamp:



1. Specifications of CCTV Set, HardDisk,NVR,Networking Cable,PoE Switch

SN	Products	Description
1	2MP Indoor DOM IP Camera <u>Brand:</u> <u>Model:</u>	➤ 2MP, 1/2.8"-2.9" CMOS image sensor, low illuminance, high image definition ➤ Maximum resolution 2MP (1920 × 1080) @25/30 fps ➤ H.265+/H.264+&H.264 codec, high compression rate, ultra-low bit rate ➤ Built-in efficient IR illuminator, and the IR range up to 30 m ➤ Focal length: ≥ 2.8mm ➤ Wide Dynamic Range (WDR): Digital WDR ➤ Day/Night Switch: Day, Night, Auto, Schedule ➤ ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments ➤ Shutter Speed: 1/2 s to 1/100,000 s ➤ Rotation mode/Angle Adjustment: Pan: 0° to 360°, tilt: 0° to 75°, rotate: 0° to 360° ➤ Image Enhancement: BLC,HLC,3D DNR ➤ Built-in Microphone ➤ Abnormality detection: Motion detection, video tampering alarm, network disconnection, IP conflict, illegal access or equivalent ➤ 12V DC/PoE power support ➤ IP67 protection or better ➤ Should support Mobile monitoring
2	4MP Outdoor Bullet Network Camera <u>Brand:</u> <u>Model:</u>	➤ Image sensor: 1/3-2.4" CMOS ➤ Camera Type: Outdoor ➤ Resolution: 4MP (2560 × 1440) @ 25/30 fps ➤ Shutter Time: 1/3 s to 1/100,000 s ➤ Day & Night: IR cut filter ➤ Lens Type: Fixed focal lens: 2.8 and 4 mm optional ➤ SN Ratio: ≥52 dB ➤ Aperture: F1.6 or equivalent ➤ Image Enhancement: BLC,HLC,3D DNR ➤ Protection: IP67: IEC 60529-2013 or higher ➤ Focal Length: 2.8mm-4mm ➤ Bit Rate Control: CBR,VBR ➤ Video Compression: Main stream: H.265+/H.265/H.264+/H.264, Sub-stream: H.265/H.264/MJPEG ➤ Power Consumption: 12V DC/PoE Power Supply ➤ Operating Temperature: -30 °C to 60 °C (-22 °F to 140 °F). ➤ Abnormality detection: Motion detection (support alarm triggering by specified target types (human and vehicle etc.), video tampering alarm, ip conflict

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3	32 Channel Network Video Recorder <u>Brand:</u> <u>Model:</u>	➤ HDD Capacity: up to 10 TB ➤ Interfaces: minimum 2 SATA ➤ Video output: 1×HDMI, 1×VGA ➤ USB Interfaces: Minimum 2 ➤ Network Interfaces: Minimum 1×RJ-45 port (10/100/1000Mbps) ➤ Protocols: HTTP, TCP/IP, IPv4/IPv6, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter ➤ Working Temperature: -10°C to 55°C / Humidity: 10-90% or better ➤ Incoming Bandwidth: ≥ 160 Mbps ➤ Decoding Format: H.265/H.265+/H.264/H.264+ or better ➤ Audio: 1-ch, RCA or BNC
4	10-Port/2 Uplink Switch with 8-Port PoE	➤ Port: 9 10/100M PoE ports, 2 10/100 uplink ports or equivalent ➤ Support 802.3af/at standards ➤ Transmission range: ≥250 M ➤ Visualized topology management, Realtime video control and real time video alarm push, network health monitor ➤ Operating Temperature: -10°C to +55°C
5	10 TB HDD <u>Brand:</u> <u>Model:</u>	➤ Capacity: 10TB ➤ Speed: ≥ 5,900RPM ➤ Interface Types: SATA ➤ Cache: 256MB or equivalent
6	Networking Cabinet	➤ 9U sized rack with default lock system
7	CAT6 Cable	➤ 305 m (1000 ft)/carton UTP CAT6, Pure Copper power over Ethernet, compatible with one cable or equivalent ➤ High-purity oxygen-free copper conductor or equivalent ➤ Customized PVC outer sheath; Have certain flame retardant properties or equivalent ➤ Meet ANSI/TIA 568.2-D, ISO/IEC11801, reducing damage during the project. ➤ Should have better electrical properties and transmission performance
8	Delivery, Transportation and Project Completion Period	➤ To Tribhuvan Secondary School, Thakurbaba-1 ➤ Work should be completed within the 7 working days after getting purchase/work order.
9	Warranty	➤ At least 2 years warranty should be provided with free repairing services
10	Notes	➤ CCTV should be compatible with the existing system ➤ If needed one can contact and observe the project location. ➤ No any extra cost for the project will provided except the mentioned cost in BoQ

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2. Technical Specification of 75 Inches Smart Board (AVR)

Brand	To be specified by the Supplier:	
Model	To be specified by the Supplier:	
LED Panel	Size	75 Inches
	Resolution	3840 × 2160 (4K)
	Brightness	At least 350 cd/m ² or higher
	Response Time	< 8ms
	Pixel Pitch	0.429(H) mm × 0.429(V) mm
	Visual angle	178 (H) / 178 (V)
	Lifespan	At least 40000hrs or higher
	Refresh rate	60Hz
	Back Light Type	Direct LED (D-LED) Technology or equivalent LED Interactive Touch Screen
	Surface Glass	Anti-Glare Glass
System Drive	➤ Android system: Minimum Android 9 or higher. ➤ At least 8GB memory, 128 GB storage space, using Android OS or equivalent ➤ CPU: Quad Core A55 or higher ➤ GPU: Built-in GPU Card-G52MP2 or equivalent	
I/O Port	MINI-AV, PC Audio, VGA, TV-USB 2.0, 2× HDMI, RJ45, USB Port	
Front side	HDMI, USB	
Camera/MIC	Built-in minimum 8MP / Built in microphone	
Front side key	Available	
Bluetooth/WiFi	Inbuilt Bluetooth and WiFi 2.4/5G or better	
USB Support file format	Picture: JPEG, BMP, PNG Video: MPEG1, MPEG2, MPEG4, H264, RM, RMVB, MOV, MJPEG, VC1, DivX, FLV Audio: WMA, MP3, M4A, (AAC)	
Speaker	15 W × 2 or higher Built-in speaker	
Video Features	Split Screen/Multitasking support	

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OS System	Support Windows 7/ Windows XP/ Windows 2000/ LINUX UNIX/ Windows 8.1 (X86) or higher version of Windows
Safety	Necessary arrangement for protecting Interfaces and buttons
Necessary Accessories	Remote controller, Touch Pen, HDMI Cable, Wall mount bracket, hook, user manual and other necessary items.
Default System Language	English
Authorization	Must provide authorization letter from manufacturer
Warranty	At least 3 year or more including parts and services
Delivery, Transportation and Project Completion	➤ To Tribhuvan Secondary School, Thakurbaba-1 ➤ Work should be completed within the 7 working days after getting purchase/work order.

3.1.1

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3.1.2

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3. Technical Specification of 55" Smart LED TV

Parameters		Description
Brand		To be specified by the supplier: -
Model		To be specified by the supplier: -
Screen Size		55 inches
Resolution		3840×2160 Px or equivalent
Refresh rate		At least 60Hz
Storage	RAM	At least 2GB
	ROM	At least 16GB
Speaker		At least 10W×2 or higher
Operating System		Android TV 9 or higher
Wireless Connectivity		WiFi (2.4GHz/5GHz), Bluetooth 4.2 or higher and should support wireless connections like Miracast
I/O Ports		3x HDMI (1 contain ARC), 2x USB 2.0, 1x Ethernet (LAN), 1x AV input, 1 x3.5mm headphone jack
Viewing Angle		170 Degree or more
Wall Mount		Should be included with the item
Delivery and Transportation		Throughout Thakurbaba Municipality Area as instructed by Municipal Executive Office Within 15 days of purchase order
Installation		Free Installation of TV throughout Thakurbaba Municipality Area
Warranty		At least 2 years

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4. Technical Specification of OPS

Parameters	Description
Brand	To be specified by the supplier: -
Model	To be specified by the supplier: -
CPU	At least i5 11 th Generation, 2.4 GHz Processor
RAM	8 GB
Storage	256 GB SSD
Graphics	Intel UHD or Equivalent
Video	Support HDMI 2.0, 4K Video
Others	Antenna: Dual Antenna 802 b/g/n, Wireless Data Transmission
Operating Systems	Pre-installed windows 10 Pro/ Windows 11
Note	OPS Should be compatible with any AVR board and the supplier should connect it with AVR board at free of cost.


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5. Technical Specification of A3 Multifunction Printer

Parameters	Specifications / Descriptions
Brand	To be specified by the supplier: -
Model	To be specified by the supplier: -
Function	Print/Scan/Copy
Printer Type	Semiconductor Laser / Monochrome Laser Multifunctional
Display	≥ 2 Lines
Memory	≥ 256 MB
Printing Speed	≥ 20/10 PPM
Paper Capacity	≥ 400 sheets
Supported Operating System	Windows Server 2003, Windows Server 2008, Windows Server 2012, Windows XP, Windows Vista, Windows 7, Windows 8, Windows 10 or Higher, Apple Macintosh OS 10.5 or more; Linux OS
Resolution	≥ 600 × 600 DPI
Warranty	At least 1-year Warranty
Note	Supplier has to set-up the printer at the school premises

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6. Technical Specification of Speaker:

Parameters	Specifications / Descriptions
Brand	To be specified by the supplier: -
Model	To be specified by the supplier: -
Input Power	$\geq 200\text{W RMS}$
Configuration	Two Way enabled
Frequency Response	55-20,000Hz or equivalent
Low Frequency Speaker	$2 \times 304.8 \text{ mm (12")}$, $\varnothing 38.1 \text{ mm (1.5")}$ Voice Coil or better
High Frequency Unit	$1 \times \text{Piezo Horn Tweeter } 76.2 \text{ mm (3")} \times 152.4 \text{ mm (6")}$ or better
SPL at (1W/1m)	$\geq 100\text{dB}$
Max. Rated SPL	$\geq 123\text{dB}$
Nominal Impedance	$\geq 8\Omega$
Port	Free Flow Flared or equivalent
Input Connectors	6.35 mm (1/4") Phone Jack + Terminal Strip or better options enabled
Note	❖ Necessary items to connect mixer amplifier to the speaker should provide by the supplier ❖ Supplier should provide proper training to operate the Mixture Amplifier and speaker ❖ Supplier should provide other necessary items to operate the system
Warranty	At least one year warranty


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7. MIXER AMPLIFIERS

Parameters	Specifications / Descriptions
Brand	To be specified by the supplier: -
Model	To be specified by the supplier: -
Power Output	300W + 300W Max., 200W + 200W RMS at 10% THD, 180W + 180W RMS at 5% THD, 165W + 165W RMS at 2% THD or more
Output Regulation	≥ 2 dB, no load to full load at 1kHz
Frequency Response	$\geq 50-15,000\text{Hz} \pm 3\text{dB}$
Tone Controls	Bass: $\pm 10\text{dB}$ at 100Hz, Treble: $\pm 10\text{dB}$ at 10kHz or better
Signal to Noise Ratio	$\geq 60\text{dB}$
Input Channels	Mic/Aux: $6 \times \text{Mic } 0.6\text{mV}/4.7\text{k}\Omega$, $2 \times \text{Aux } 100\text{mV}/470\text{k}\Omega$, Stereo Music Mode: L/R $200\text{mV}/100\text{k}\Omega$, Line L/R $1\text{V}/50\text{k}\Omega$ or more
Output	Preamp $200\text{mV}/600\Omega$, Line $1\text{V}/1\text{k}\Omega$ or better
Speaker Output	4Ω , 8Ω , 70V & 100V for each zone or better
Digital Player	MP3 Player with USB, SD and MMC Card Reader facility
Other Features	❖ Stereo/Mono switch to change ambience of MP3 music player and CD/Stereo music for DJ programs. ❖ Separate USB level control should be provided. ❖ Built-in MP3 player with remote control and LCD display for USB, SD/MMC card reader. ❖ Line Input & Output on each zone for connecting to a Mixer and Booster Amplifier respectively. Preamplifier output for recording. ❖ Box Speaker/Driver Unit selector switch for each zone. Bass boost defeated at Driver Unit position for safer operation of driver units. Zone On/Off facility should be provided ❖ Resettable circuit breaker for protection against overload and short circuit feature
Power Consumption	AC: 700VA DC: 9A or equivalent
Note	❖ Necessary items to connect mixer amplifier to the speaker should provide by the supplier ❖ Supplier should provide proper training to operate the Mixture Amplifier ❖ Supplier should provide other necessary items to operate the system
Warranty	At least One year Warranty

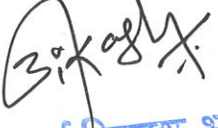

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8. Microphones/Mics

Parameters	Specifications / Descriptions	
Brand	To be specified by the supplier: -	
Model	To be specified by the supplier: -	
Wired Microphone	Frequency Response:	$\geq 50-15,000\text{Hz}$
	Sensitivity:	$\geq 2.0\text{mV/Pa}- 2.8\text{mV/Pa}$ or better
	Impedance:	$\geq 600\Omega$
	Wire/Cord/Cable	≥ 6 meters long
Wireless Microphone	Frequency Response:	$\geq 50-15,000\text{Hz}$
	Sensitivity:	$\geq 2.0\text{mV/Pa}- 2.8\text{mV/Pa}$ or better
	Impedance:	$\geq 600\Omega$
	Others	Necessary Connectors/Antenna should be provided
Note	❖ Microphones should be compatible with the mixture amplifier ❖ Sound quality must be better	


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9. Desktop Computer Set

Specifications	Description
Brand	To be specified by the supplier...
Model	To be specified by the supplier...
Type	Desktop PC Set Suitable for ICT Lab.
Processor	≥ i5 12 th Generation
RAM	8GB DDR4 or higher
Hard Disk	512GB NVMe SSD or equivalent
Graphics card	Intel UHD Graphics 730 or Equivalent
Operating System	Windows 10/11 fully activated genuine version
Network card	1000M wired network card (Gigabit Ethernet LAN) or equivalent
Wireless	150M wireless WiFi (433M dual band WiFi and WiFi 6 functionals are optional)
Webcam	Yes
Audio	Internal Speaker
Ports	SD Card Reader, Headphone Jack, Microphone Jack
Interface	1xHDMI, 1xVGA, 1xLAN, 6xUSB, 1xAudio Out, RJ45, 1xMic in or higher
UPS Power adapter	180 Watt or equivalent
Keyboard	Full Sized keyboard With Standard Keys
Mouse	Wired Optical Mouse
Monitor	Branded Monitor ≥ 19 Inches FHD
Warranty	At least 1 year's warranty including on parts and monitor
Application Software	Pre-installed all the necessary application software like: MS Office, Adobe Photoshop
Accessories	Power cable, Power adapter, VGA Cable and other necessary items should be provided by the supplier.

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