

Bill of Quantity(BOQ)

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ले प का ग: ५०२

FY: 2081/82

Name of the Program/Project:

Address:

S.N.	Particulars (Items/Activities)	Unit	Qty	Rate		Total(NRs)	Remarks
				In digits	In words		
Supply, Delivery and Installation of CCTV Camera							
1	2MP IP ColorVu CCTV Camera	Pcs.	16				
2	16 channel NVR	Pcs.	1				
3	HDD 4TB	Pcs.	2				
4	Monitor 21.5" FHD	Pcs.	1				
5	8 Port POE Switch	Pcs.	2				
6	UTP Cat 6 Cable	Box	1				
7	Installation, laying , Training and other	Job	1				
Supply , Delivery and Installation of AG							
8	1.5 Ton Inverter AC Pcs.	Pcs.	4				
Supply , Delivery and Installation of Podcast Setup							
9	24 MP Camera(for podcast)	Pcs.	1				
10	Microphone	Pair	1				
11	Mixer	Pcs.	1				
12	Microphone Stand	Pair	1				
13	Camera Tripod Stand	Pcs.	1				
14	Headphone	Pcs.	1				
Total							
VAT 13%							
Grand Total							

Total In words:

Name of Firm:

Name of Authorized Person:

Signature:

Seal:

Contact Number:

Email:

AC Specification

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Offered Product Specification
By Vendor

S.N.	Product Features	Specification requirement	
Invertor AC			
1	Brand	Should be mentioned by vendor	
2	Model	Should be mentioned by vendor	
3	Capacity (Ton)	1.5	
4	Cooling Capacity (W)	In between 5500 and 6000 (1.75 – (5.2kW to 6.5 kW))	
5	Heating Capacity (W)	In between 5500 and 6000 (1.3 – (5.2kW to 6.0 kW))	
6	Power Consumption (Cooling)	2100 W max	
7	Power Consumption (Heating)	1900 W max	
8	Voltage Range	130–285 V	
9	Compressor Type	Swing	
10	Refrigerant Type	R-32	
11	Indoor Air Flow Rate (m³/h)	In between 970 to 1500	
12	Indoor Noise Level (Cooling)	not more than 48 dB(A)	
13	Moisture Removal (L/h)	>=1.6	
14	Temperature Range (°C)	Cooling: 20–54 / Heating: -10~24	
15	Effective Room Area (m²)	Up to 35 m²	
16	Indoor Weight (Net/Gross)	Not more than 11.5 / 14.5 kg(Packaging)	
17	Outdoor Weight (Net/Gross)	Not more than 33.5 / 40.5 kg(Packaging)	
18	Piping Length (Max/Height)	Upto 25 m / 20 m	
19	Warranty	1 Year + 5 Years on Compressor	

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Technical Specification of Podcast Room Setup

Offered Product Specification
By Vendor

S.N.	Product Features	Office Requirement	Offered Product Specification By Vendor
1	Brand and Model	To be specified by the vendor	
2	Camera Type	Digital Mirrorless, Interchangeable Lens System	
3	Sensor Type	CMOS Sensor	
4	Sensor Size	APS-C Size (Approx. 22.3 x 14.8 mm or equivalent)	
5	Effective Megapixels	Minimum 24 Megapixels	
6	Image Processor	Equivalent to DIGIC X or BIONZ X or better	
7	ISO Sensitivity	ISO 100 to 32,000 (Expandable to 51,200)	
8	Shutter Speed	30 sec to 1/4000 sec or better	
9	Continuous Shooting Speed	Minimum 10 fps with Auto Focus (AF) and Auto Exposure (AE)	
10	Max Image Resolution	Minimum 8000 x 4000 pixels	
11	Image Format	Minimum JPEG, RAW / HEIF	
12	Video Recording Resolution	3840 x 2160 @ 30fps/3840x1920 at 30fps, Full HD (1920x1080) at 120fps	
13	Video Format	MPEG-4 / XAVC S / H.264/H.265 or equivalent	
14	Microphone port	Yes, 3.5mm port	
15	Headphone Port	Optional	
16	Autofocus Technology	Hybrid AF (Phase Detection and Contrast Detection), Real-time Eye AF	
17	Lens Mount	Compatible with APS-C Mirrorless Camera Lens Mount System (Sony E-mount / Canon RF-mount compatible)	
18	Lens Included	Standard zoom lens 18-105mm f/4 G OSS Lens or 18-135mm or equivalent or compatible with camera for videography and photos	
19	Image Stabilization	Optical Image Stabilizer (OIS) in lens or digital stabilization in body	
20	LCD Display	3.0" Vari-angle LCD Touchscreen, Minimum 920K dots	
21	Viewfinder	Not mandatory (If not available, LCD Live View must support full manual control)	
22	Connectivity	USB, micro HDMI, Wi-Fi, Remote control	
23	Live Streaming Support	Yes, via USB plug-and-play (UVC/UAC support)	
24	Storage Media	SD / SDHC / SDXC (UHS-I or UHS-II Compatible); Minimum 32 GB SD Card to be included	
25	Battery Type	Rechargeable Battery	
26	Charging Method	USB Charging and external charger (both supported)	
27	Accessories in the Box	Camera Body, Standard Zoom Lens, Battery, Neck Strap, USB Cable, SD Card, Manual	
28	Weight	Not more than 390 g	
29	Warranty	Minimum One (2) Year's Manufacturer's Warranty	
30	Country of Origin / Manufacture	To be specified by the vendor (optional)	
31	Tripod Stand	Sturdy aluminum tripod Smooth 360° rotating head and adjustable height from 1.9 ft to 4.6 ft, perfect for both indoor and outdoor photography. Provides stable support for digital and action cameras with non-slip feet to keep shots steady.	
32	Additional Battery	One (1) additional original or manufacturer-recommended rechargeable lithium-ion battery. Compatible with the specified camera model. USB charging or external charger supported. Battery capacity: Minimum 1000 mAh or as per camera requirement. Equivalent or better models	
33	Additional Storage memory card	1(one) 128 GB SDXC Memory Cards- Minimum speed class: UHS-II U3- Minimum write speed: 90 MB/s- Suitable for 4K video recording and high-speed continuous photography- Compatible with specified camera- Equivalent or better branded cards may be accepted	
Microphone			
1	Brand and Model	To be specified by the vendor	
2	Type	USB/XLR Dynamic Microphone	
3	Polar Pattern	Cardioid	
4	Bit Depth / Sample Rate	Minimum 24-bit / 48 kHz	
5	Sensitivity	XLR: -52 dBV; USB: -10.5 dBFS/Pa (Max)	
6	Maximum SPL	≥130 dB SPL	
7	Build Material	Metal Body	
8	Connectivity	USB Type-C and XLR	
9	Compatibility	Laptop, PC, Mac OS, Audio Interface, Smartphone	
10	Quantity	2 Units	
11	Warranty	Minimum One (1) Year Manufacturer's Warranty	
Stand			
1	Brand and Model	To be specified by the vendor	
2	Type	Desktop or boom arm microphone stand (as per mic compatibility)	
3	Build Quality	Metal or high-quality alloy	
4	Features	Adjustable height, angle, and clamp or base	
5	Compatibility	Compatible with mic	
6	Quantity	2 Units	
7	Warranty	Minimum One (1) Year Manufacturer's Warranty	
Headphone			
1	Brand and Model	To be specified by the vendor	
2	Type	Over-Ear Monitoring Headphones	
3	Use Case	Suitable for studio, podcast, editing, mixing, and general multimedia	
4	Audio Profile	Flat/Neutral for accurate sound monitoring	
5	Sound Isolation	High passive noise isolation	
6	Connectivity	Wired, 3.5mm jack (or with 6.3mm adapter if required)	
7	Design	Foldable or adjustable with padded earcups	
8	Quantity	1 Unit	
9	Warranty	Minimum One (1) Year Manufacturer's Warranty	
Mixer			
1	Brand and Model	To be specified by the vendor	
2	Type	All-in-one Podcast Audio Interface and Mixer	
3	Channels	Minimum 10 channels	
4	Phantom Power	48V Phantom Power supported	
5	Sound Pads	Minimum 11 customizable sound pads	
6	Bluetooth	Bluetooth input connectivity supported	
7	Connectivity	USB, XLR, 3.5mm TRRS, Bluetooth	
8	Compatibility	PC, Laptop, Smartphone, Audio Interface	
9	Use Case	Podcasting, Streaming (YouTube, Facebook), Recording	
10	Quantity	1 Unit	
11	Warranty	Minimum One (1) Year Manufacturer's Warranty	

Note: Vendor must specify the product details or specification.

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Panel Type	IPS (In-Plane Switch)
Panel Size	21.5" or higher
Resolution	1920 x 1080 (Full HD) or better
Color Support	100% sRGB, 72% NTSC, 75% DCI-P3, 75% Adobe RGB
Brightness (cd/m²)	250 or higher
Contrast Ratio	1000:1
Refresh Rate	100Hz or higher
Response Time (ms)	4ms or better
Viewing Angle (H/V)	178° / 178°
Video Input	1x HDMI 1x VGA
VESA Mount (mm)	75mm x 75mm
Electrical Specification	Voltage: 100~240V AC, 50/60Hz
Operating Temperature	0°C ~ 40°C
Warranty	Minimum two years

Switch

Company Name	Should be mentioned by vendor
Model	Should be mentioned by vendor
Power Input	AC 100~240V, 50/60Hz
Ethernet Ports	8 PoE Ports
Switching Capacity	≥ 16 Gbps
Throughput	≥ 10 Mpps
Packet Buffer	≥ 1 Mb
Jumbo Frame Support	≥ 9000 bytes
Transfer Mode	Store and Forward
MTBF	≥ 50,000 hours
PoE Standards	Full IEEE compliance
Network Protocols	IEEE 802.3, 802.3u, 802.3ab, 802.3x
Network Media	Cat5e or higher
LED Indicators	Power, PoE, Link/Data
DIP Switch Modes	VLAN & long-distance PoE desirable
Working Temperature	-10°C to 50°C
Net/Gross Weight	≤ 1.5 kg
Packing Info	20 units per carton (505 × 320 × 402 mm, 19 kg)
Package Contents	full Accessory Kit
Warranty	min 2 Years

Cat 6 Cable

Brand	Should be mentioned by vendor
Model	Should be mentioned by vendor
Cable Type	Category 6 (Cat 6) Unshielded Twisted Pair (UTP)
Conductor Material	100% ± 3% Bare Copper
Conductor Size	23 AWG (American Wire Gauge)
Cable Structure	4 Twisted Pairs, Separated by a Cross Divider (Spline)
Bandwidth	Up to 250 MHz
Data Rate	Up to 1 Gbps for 100 meters; 10 Gbps for up to 55 meters
Jacket Material	PVC (Indoor use) / LSZH or PE (Outdoor use)
Outer Diameter	Typically 6.3 ± 0.2 mm
Impedance	100 ± 15 ohms
Flame Rating	CM / CMR / CMP / LSZH
Compliance Standards	ANSI/TIA-568-C.2 ISO/IEC 11801, EN 50173
Temperature Range	-20°C to +60°C (Operating)
Packaging	305m (1000 ft) pull box or reel
Color	Blue / Grey / Yellow / Black (varies)
Use Case	CCTV, IP Camera, VoIP, Data Networks, PoE
Warranty	Minimum 2 Years
Accessories	RJ45 and all other accessories required for laying cables should be provided by bidder

Installation, Laying, training and Other

Labeling	Label both ends of each cable with unique, durable, and legible IDs for easy identification and maintenance.
Environmental Conditions	Protect cables from moisture, chemicals, mechanical damage
Safety Compliance	Installation must comply with local electrical, fire safety, and building codes and regulations
Training	Technicians should be trained in cable handling, installation best practices, safety protocols, and troubleshooting.

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Desktop Computer Technical Specification

Offered Product Specification
By Vendor

S.N.	Product Features	Specification requirement	Offered Product Specification By Vendor
Desktop computer			
1	Brands and model	Should be specified by vendor	
2	Processor	i5 13th Generation or equivalent or better with minimum 6 Performance Cores, 12mb cache L3.	
3	RAM	Minimum 4 GB DDR4, upgradeable	
4	Storage	Minimum 256 GB Solid State Drive (SSD)	
5	Ports(Total Front and Back)	Minimum: 2x USB 3.2 Gen 1, 1x USB 3.2 Gen 1 Type-C, 4x USB 2.0	
6	Audio & Ethernet	At least 1x audio combo jack, 1x RJ-45 Ethernet port	
7	Wireless Connectivity	Built-in Wi-Fi card supporting IEEE 802.11 standards	
8	Graphics	Integrated graphics compatible with the processor	
9	Monitor	Minimum 22" LED display, resolution at least 1366x768 or higher	
10	Operating System	windows 11	
11	Warranty	Minimum Two (1) Year full warranty covering manufacturing defects	
12	Included Components	CPU, Monitor, Power Cables, Mouse, Keyboard, User Manual	
13	Color	Any	
14	Delivery And Services	Vendors should deliver and install the product according to office directives and provide product maintenance services during the warranty period at no additional cost.	

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Smart Board with OPS Specification

S.N.	Product Features	Specification requirement	Offered Product Specification By Vendor
Smart Board			
1	Brand	Should be mentioned by vendor	
2	Model	Should be mentioned by vendor	
1	Screen Size	75" (75 inches)	
2	Backlight	DLED or OLED or better	
3	Operation System	Android 13.0 or latest	
4	Built Memory	>=8GB	
5	Built-in Storage	>=128GB	
6	Processor	Quad-core Cortex-A76 x 4 2.4GHz and quad-core Cortex-A55 x 4 1.8GHz)/ or Equivalent or better	
7	Brightness	350 cd/m ² or above	
8	Aspect Ratio	16:9	
9	Lifespan	>=40,000 hours	
10	Refresh Rate	60 Hz or better	
11	Viewing Angle	178° (H)/ 178° (V)	
12	Touch Technology Type	Infrared Touch Screen	
13	Touch Points	40-point multi-touch or above	
14	Resolution	3840 x 2160 (4K UHD)	
15	Camera	>=8MP	
16	Speaker	>=20W x 2 Built-in Speaker	
17	Microphone	>=8-array	
18	Ports	HDMI In (HDMI 2.0), USB 3.0, USB 2.0, Type-C (USB/DP/Charging), LAN (Gigabit Ethernet), TOUCH-USB (for touch functionality), Audio Out, RS232 (for external control).	
19	Power Supply	100-240 VAC, 50/60Hz	
20	OPS	Windows 11, 11th Gen Intel i7, 8GB RAM, and 256GB SSD should support 4K and compatible with the board	
21	Accessories	Wall mount bracket, hook, user manual, touch writing pen, packing list, 3 M touch USB cable, 3.5M HDMI cable (2.0), power cable, bluetooth remote control	
22	Authorization and Warranty	2-Year's of Warranty	
23	Installation and Training	Vendor must provide installation and training without additional cost	

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F/A: 2081/82

Name of the Program/Project:

Address:

Bill of Quantity(BOQ)

[Handwritten Signature]



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S.N.	Particulars (Items/Activities)	Unit	Qty	Rate		Total(NRs)	Remarks
				In digits	In words		
Supply , Delivery and Installation of Smart Board							
1	75" Smart Board	Pcs.	2				
2	Smart Board OPS	Pcs.	1				
Supply , Delivery and Installation of Computer							
3	Desktop Computer	Pcs.	5				
Total							
VAT 13%							
Grand Total							

Total in words:

Name of Firm:

Name of Authorized Person:

Signature:

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