



कविलासी नगरपालिका

नगर कार्यपालिकाको कार्यालय

कविलासी, सर्लाही

२०७४

मधेश प्रदेश, नेपाल

पत्र संख्या : २०८१/०८३

चलानी नं. : १६९५

मिति : २०८१/०८३/१



श्री सम्पूर्ण आपूर्तिक फर्महरू,

विषय: ANPR क्यामराको लागि पुनः परिमार्जित दररेट सम्बन्धी सूचना ।

प्रस्तुत बिषयमा यस कार्यालयको पत्र प.स. २०८२/०८३ च.नं. १६९५ मिति २०८३/०२/१३ गतेको पत्र अनुसार सी.सी.टी.भी. क्यामराको लागत अनुमान तयार गर्न, ANPR क्यामरासहितको संशोधित स्पेसिफिकेसन र प्राविधिक विवरणसहित सूचना परिमार्जन गरी पुनः दर रेट पेश गर्न ३ (तिन) दिन म्याद थप सूचना प्रकाशन गरिएको व्यहोरा अनुरोध छ।

तपशिल

Iteam	Description	specification	unit	Quantity	Unit price (without VAT)	Total amount	Remarks
1	ANPR CCTV Camera Installation	As per attached specification	set	1			

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२०८३/०८/२९
मनहरि बराल
प्रमुख प्रशासकीय अधिकृत


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Technical Specification Of CCTV Camera

S.N.	Item	Technical Specification of 8MP ANPR speed detection Camera or better	Remarks
		.....(Should be mentioned by bidder) .....(Should be mentioned by bidder)	
	Brand	≥ 1/1.8" CMOS or better	
	Model	8 mm-32 mm or better	
	Image Sensor	0.0001 Lux or better	
	Focal Length	3480 × 2160 or better	
	Min. Illumination	25 fps or more	
	Image Resolution	180 km/h or better	
	Video Frame Rate	Up to 100 m or better	
	Speed Detection Range by In-built Radar	1-2 lanes or better	
	Detection distance	IR and Visible Light	
	Lane Coverage	25m or better	
	Supplement Light	140 dB or better	
	Supplement Light Distance	128GB TF Card included	
	Wide Dynamic Range	Profile S, Profile G, Profile T, ProfileM	
	Storage	Motor vehicle, non-motor vehicle	
	ONVIF	Support Nepali license plates recognition.(Hand written and embossed)	
	Target Detection	Bus, SUV, MPV, pickup, heavy truck, medium truck, van, Motorcycle, Tricycle or more	
	Vehicle Plate Recognition	White, pink, black, red, yellow, gray, blue, green, purple, brown, or more	
	Vehicle Type Recognition	traffic congestion, speeding, low-speed driving, Lane change, stopped vehicle, wrong-way driving or more	
	Vehicle Color Recognition	1 x RJ-45 Ethernet Ports or better	
	Incident Detection	1/1 alarm input/output, 1 RS-485 or better	
	Network Port	12V DC, PoE	
	Interfaces	Minimum IP68, IK10 or better	
	Power		
	Protection		
	Documents	Product datasheet and ISO certificate should be submitted, Manufacturer Authorization Certificate on attached or manufacturers' format along with warranty letter to be submitted along with the bid. If not submitted the above documents bid will be treated as non-responsive.	

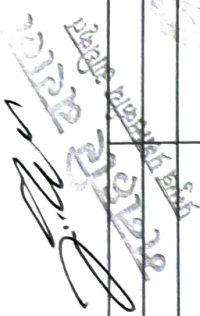
1 8MP ANPR speed detection Camera

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Technical Specification of Supplement Light or better	
(Should be mentioned by bidder)
	.....(Should be mentioned by bidder)
General requirements	Should have built-in automatic light control Should support ambient brightness detection Should automatically start-up at low illumination
Illuminance coverage	Min. 1 lanes or better
LEDs	16 or better
Illuminator Type	White Light/Warm Light
Light Source	Visible Light
Illumination range	25m or better
Color Temperature	6500 K ± 10% (warm light for less eye strain and avoid glare)
Day/Night Function	Should support ambient brightness detection and automatically start-up at low illumination
Protection	Min. IP66 or better
Power Consumption	≤ 60W
Compatibility	Must be fully compatible with ANPR Camera
Accessories	Proper mounting bracket and all other necessary accessories must be included.
Documents	Product datasheet and ISO certificate should be submitted. Manufacturer Authorization Certificate on attached or manufacturers' format along with warranty letter to be submitted along with the bid. If not submitted the above documents bid will be treated as non-responsive.
Certification	CE, FCC, or more
3 32 Channel 4K NVR 4 Sata	Minimum Technical Specification of 32 Channel NVR or better
Brand	.....(Should be mentioned by bidder)
Model	.....(Should be mentioned by bidder)
IP Video Input	32-ch or better
Incoming / Outgoing Bandwidth	>320 Mbps or better
HDMI Output	upto 4K or better
VGA Output	upto 1080p or better
Video Decoding Format	H.265+, H.265 or better
Recording Resolution	upto 32MP or better
Decoding Capability	upto 32-ch @ 1080p(30fps) or better
Network Protocol	IPv4, IPv6, TCP/IP, DHCP, NTP, UPnP, DNS, DDNS, HTTPS, SMTP, NFS, iSCSI, ONVIF
Ethernet Interface	2 x 10/100/1000 Mbps or better
Storage Capacity	4 SATA interface with 20TB per HDD or better

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	USB Interface	USB 3.0 X 1 or better
	Alarm in/out	16/4 or better
	Power Consumption	≤ 30 W or lower
	Smart/AI Features	Face recognition, Smart Motion Detection, Perimeter protection, People Counting, ANPR and various Analytics by camera or more functions
	Warranty	Minimum 2 Years
	Documents	Product datasheet and ISO certificate should be submitted. Manufacturer Authorization Certificate on attached or manufacturers' format along with warranty letter to be submitted along with the bid. If not submitted the above documents bid will be treated as non-responsive.
	Minimum Technical Specification of 4 port Gigabit Switch or better	
	Brand	.....(Should be mentioned by bidder)
	Model	.....(Should be mentioned by bidder)
	Ports	4 × 10/100/1000 Mbps PoE port, and 2 × Gigabit SFP port
	MAC Address Table	2 K or better
	Switching Capacity	12 Gbps or better
	Packet Forwarding Rate	8,928 Mpps or better
	Flash Memory	1 Mbits or better
	PoE Standard	IEEE 802.3af/IEEE 802.3at/IEEE 802.3bt
	PoE Power Budget	65W or better
	Operating Temp/Humidity	-22 °F to 149°F, 5% to 95%
	PoE Extension	Uto 300m
	Port Isolation	Should support
	PoE Watchdog	Should support
	Surge Protection	±6 kV
	Warranty	Minimum 1 Years
	Documents	Product datasheet and ISO certificate should be submitted. Manufacturer Authorization Certificate on attached or manufacturers' format along with warranty letter to be submitted along with the bid. If not submitted the above documents bid will be treated as non-responsive.
	At least one poe port should support 60 watt output. Or better	
	Technical Specification Of 16 port PoE Switch or better	
	Brand	.....(Should be mentioned by bidder)
	Model	.....(Should be mentioned by bidder)
	Shell	Metal material
	Operating Temperature	0 °C to 40 °C (32 °F to 104 °F)
4	4 port Gigabit Harsh POE Switch	

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5	16 port Gigabyte PoE Switch	Storage Temperature	-40 °C to 85 °C (-40 °F to 185 °F)		
		Operating Humidity	5% to 95% (no condensation)		
		Relative Humidity	5% to 95% (no condensation)		
		Power Supply	100-240 V AC, 50/60 Hz, Max. 2.5 A		
		Max. Power Consumption	150 W		
		Surge Protection	6 kV		
		PoE Ports	16 × 1000M PoE port		
		Uplink Ports	2 × 1G SFP port		
		MAC Address Table	8K		
		Switching Capacity	36 Gbps		
		Packet Forwarding Rate	26.79 Mpps		
		Internal Cache	4.1 Mbits		
		PoE Standard	IEEE 802.3af/at		
		PoE Power Budget	125 W		
		Certification	CE, FCC, RoHS		
		Documents	Product datasheet, ISO Certificate, Manufacturer Authorization Certificate, Warranty Letter, and Compliance Sheet must be submitted along with the bid.		
		Technical Specification of Monitor 43 Inch or better			
		Brand	(Should be mentioned by bidder)	
		Model	(Should be mentioned by bidder)	
		Minimum Technical Specification			
Screen Size		43 inch			
Active Display Area		940.896 (H) mm × 529.254 (V) mm			
Resolution		1920 × 1080			
Backlight		D-LED			
Pixel Pitch		0.49 (H) mm × 0.49 (V) mm			
Brightness		360 cd/m ²			
Viewing Angle		178° / 178°			
Color Depth		8 bit+ 16.7 M			
Contrast Ratio		1200:01:00			
Response Time		8 ms (typ)			
Refresh Rate		60 Hz			
Haze		1%			
Color Gamut		68% NTSC			
Reliability		7 *24H			
6	Monitor 43 Inch				

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	Video & Audio Input	HDMI x 1
	Video & Audio Output	LINE OUT x 1
	Control Interface	RS232 x 1
	Power Supply	100-240 V~, 50/60 Hz, 1.0A Max
	Power Consumption	≤74W
	Standby Consumption	≤ 0.5 W
	Working Temperature	0 °C to 50 °C (41 °F to 104 °F)
	Working Humidity	20% to 90% RH (Non-Condensing)
	Documents	Product datasheet, ISO Certificate, Manufacturer Authorization Certificate, Warranty Letter, and Compliance Sheet must be submitted along with the bid.
	Technical Specification Of Hoop & Bracket For Bullet Camera or better	
7	Brand	.....(Should be mentioned by bidder)
	Model	.....(Should be mentioned by bidder)
	Material	Galvanized steel sheet and Steel(sus304)
	Operating Temperature	160 mm x 114 mm x 40mm
	Technical Specification Of Hoop & Bracket For ANPR Camera or better	
8	Brand	.....(Should be mentioned by bidder)
	Model	.....(Should be mentioned by bidder)
	Appearance	Platinum Gray
	Material	Anti-corrosion:316L Stainless Steel
	Dimension	PT Joint
	Technical Specification Of 22" 9U Rack or better	
9	Brand	.....(Should be mentioned by bidder)
	Model	.....(Should be mentioned by bidder)
	Brand	Specified by the Bidder
	Model	Specified by the Bidder
	Mount Type	Desktop/Wall-Mount
	Material	Cold Rolled Steel or better
	Load Bearing	≥60kg
	Surface Finish	Degreasing, Pickling, Phosphoric, Powder Coated
	Thickness	Mounting Profile minimum 1.5mm or greater and mounting angle minimum 1.2mm or greater
		Technical Specification Of Fiber 6 Core messenger Cable or better
	Brand(Should be mentioned by bidder)
	Model(Should be mentioned by bidder)

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10	<p>Fiber 6 Core messenger Cable</p> <p>Brand Specified by the Bidder</p> <p>Model Specified by the Bidder</p> <p>Messenger Wire At least 3, Wire Thickness: Min 0.5 mm Sheath: Min 1.0mm or Better</p> <p>Loose Tube Material: PBT filled with jelly Outer diameter: Min 2mm or Better</p> <p>Armoring Material: Corrugated steel tape Armor steel number: Min 6 Units; or: More</p> <p>Outer sheath Material: PE Thickness: Min 1.5 mm or Better</p> <p>Temperature Dependency Operating temperature: 0 to 60 °C or better Temperature Dependency: ≤0.1 dB/Km</p>
11	<p>Pole With Camera Mounting Structure</p> <p>Technical Specification Of Pole With Camera Mounting Structure or better</p> <p>The bidder must submit the structural Design and design for smart check point location(s); as specified in BoQ where ANPR Camera, Continuous Light, and other accessories will be installed. The structural design must have a minimum of six meters ground clearance with HDG (Hot Dip Galvanizing Surface Protection) robust steel pole in U-Shaped or L-Shaped or better for Overhead Camera/Navigation control as required. The Structure to be constructed should be made in a strong manner so that they do not shake while moving vehicles with proper Earthing System.</p>
12	<p>1.3.1 Center Mounting (Recommended)</p> <p>Middle installation is able to provide the most ideal condition. The installation guidance is as follow.</p> <ol style="list-style-type: none"> I. Install the camera at the middle position of the lanes. Then adjust vertical angle to an appropriate view. The referenced distance of the view is about 80~100 m. Finally, adjust the angel of rotation to make sure all the lanes are vertical in the view. II. The camera supports vehicle counting no matter it is detecting the head or the tail of vehicle. <p align="center">Figure 1-3 Middle installation</p> <p>Technical Specification Of Hard disk or better</p> <p>Brand(Should be mentioned by bidder)</p> <p>Model(Should be mentioned by bidder)</p> <p>Series Purple or suitable</p> <p>Hardware Platform PC</p> <p>Operating System Windows 10, Windows 8.1, Windows 7, macOS High Sierra, Sierra, El Capitan</p> <p>Item Weight 15.5 ounces</p> <p>Product Dimensions 5.8 x 4 x 1 inches</p> <p>Item Dimensions LxWxH 5.8 x 4 x 1 inches</p>

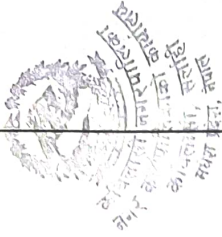
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	Flash Memory Size	6 TB
	Hard Drive Interface	Serial ATA-600
	Hard Drive Rotational Speed	5400 RPM
	Warranty	Minimum 1 Years
13	Pole BOX	metal boxes for hiding wire connections, often 4x4 or 6x6 inches or better
14	SFP 1.25G Dual Fiber 1310/1550 20 KM LC Type	SFP package with LC connector 1310nm FP Laser and 1550nm PIN photo detector 1550nm FP Laser and 1310nm PIN photo detector
15	Battery 150VA with Pole Box Enclosure	<p>Technical Specification Of 16 port PoE Switch or better</p> <p>Brand .....(Should be mentioned by bidder)</p> <p>Model .....(Should be mentioned by bidder)</p> <p>Capacity 150 Ah</p> <p>Dimensions 503*193*412 (L*B*H ±5mm)</p> <p>Initial Charging Current (Amps) 11</p> <p>Volts 12V</p> <p>Mounting Hardware The box should come with heavy-duty strut clamps capable of securing the enclosure firmly to wood, concrete, or metal poles.</p> <p>Warranty 24 Months*</p>
16	Inverter 900VA with Pole Box Enclosure	<p>Technical Specification Of 16 port PoE Switch or better</p> <p>Brand(Should be mentioned by bidder)</p> <p>Model(Should be mentioned by bidder)</p> <p>Capacity 900 VA</p> <p>System Voltage 12 V DC (requires 1 battery)</p> <p>Output Waveform Pure Sine Wave (safe for sensitive electronics)</p> <p>Input Voltage Range 90V - 290V (Wide Input range)</p> <p>Solar Panel Capacity (Solar PCU) Up to 500W</p> <p>Charging Technology PWM (Pulse Width Modulation)</p> <p>Changeover Time Less than 10ms (UPS Mode)</p> <p>Battery Compatibility Tubular, Lead Acid</p> <p>Mounting Hardware The box should come with heavy-duty strut clamps capable of securing the enclosure firmly to wood, concrete, or metal poles.</p> <p>Warranty 1 years</p>

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17	<p>Installation and Commissioning for ANPR</p>	<p>Supplier is liable to install the required system in complete manner for the smooth operation with all required accessories required at the time of installation if any missing in the BoQ. Supplier should provide minimum 3 days of training to the organization concerned department. Supplier should provide complete wiring and network architecture layout in the report with all complete data including each and every device IP, Username and passwords.</p>
18	<p>Materials and Accessories For ANPR System</p>	<p>The power solution option will be provided by the municipality it self at a nearby electric pole for 2 locations and from the municipal office for 1 location. Other materials required for Outdoor concentric type suitable power cable for offer solutions. Cable size (6mm to 10mm as required) should be recommended as per calculation for various length and load. Indoor multistrand cable with suitable size as per load capacity for indoor application Proposed cable should be suitable for the solutions. All required Multiplug, Power Cable, Cable Connector; DB/MCCB should be provided. Power accessories like Power Socket, Power- Cord, Multiplug, PDU(atleast 6 Port for each U Rack) etc. Should be provide as per site requirement and necessity with clean installation</p>