



“औद्योगिक, पर्यटकीय र हरित नगर, स्वच्छ, सुरक्षित र समृद्ध नगर”

## दमक नगरपालिका नगर कार्यपालिकाको कार्यालय

प.सं.: २०८०/०८१ सूचना शाखा  
च.नं.: ५०१०

दमक, झापा,  
कोशी प्रदेश, नेपाल



☎ ०२३-५९७०००

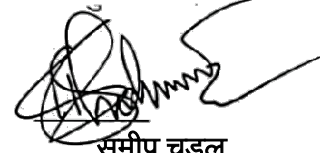
श्री सम्पर्ण सूचीकृत सबै फर्महरु



मिति: २०८०।११।२७

बिषय: सि.सि.टिभीको दररेट पेश गर्ने सम्बन्धमा।

यस दमक नगरपालिकाको वडा कार्यालयहरुमा सि.सि.टिभी जडान गर्नुपर्ने भएकोले स्पेशिफिकेशन तथा BOQ अनुसारको सामग्रीहरु खरिद गर्नुपर्ने भएको हुँदा मिति २०८०।१२।०६ मंगलवार १२ बजे सम्ममा दमक नगरपालिकाको कार्यालयमा उपलब्ध गराइदिनुहुन सम्पर्ण सूचीकृत फर्महरुलाई अनुरोध छ। सोही दिन दिनको १ बजे दररेट खोलिने व्यहोरा समेत जानकारीको लागि अनुरोध छ।

  
समीप चुडल  
सूचना प्रविधि अधिकृत

आवश्यक कागजातहरु:

- फर्म दर्ता
- अधिल्लो आ.व. को कर चुक्ता
- भ्याट रजिस्ट्रेशन
- Filled Technical Specification Compliance Sheet

नोट: टेक्निकल स्पेशिफिकेशन दमक नगरपालिकाको वेबसाइट [damakmun.gov.np](http://damakmun.gov.np) मा राखिएको छ।

## **Bill of Quantity (BOQ)**

To Damak Municipality,  
Office of Municipal Executive  
Damak, Jhapa,  
Koshi Province, Nepal

### **Subject: Rate Submission for CCTV in Ward Office**

| S.N.                     | Description                                                                              | Unit | Qty   | Unit Price | Unit Price in Words | Total |
|--------------------------|------------------------------------------------------------------------------------------|------|-------|------------|---------------------|-------|
| 1                        | CAT6, 305m Network Cable                                                                 | Drum | 4.00  |            |                     |       |
| 2                        | NVR 64 Channel Embedded 4K                                                               | pcs  | 1.00  |            |                     |       |
| 3                        | IR Mini Bullet POE Network Camera 2MP (2.8mm)                                            | pcs  | 10.00 |            |                     |       |
| 4                        | IR Fixed Dome POE Network Camera 2MP (2.8mm)                                             | pcs  | 23.00 |            |                     |       |
| 5                        | 4MP Color Bullet POE Network Camera                                                      | pcs  | 10.00 |            |                     |       |
| 6                        | 10 TB Surveillance HDD                                                                   | pcs  | 2.00  |            |                     |       |
| 7                        | Installation Charge per camera including Clip accessories and Nails (All complete works) | pcs  | 43.00 |            |                     |       |
| <b>Total without VAT</b> |                                                                                          |      |       |            |                     |       |
| <b>13%VAT</b>            |                                                                                          |      |       |            |                     |       |
| <b>Total with VAT</b>    |                                                                                          |      |       |            |                     |       |

**Submitted By:**

**Signature:**

**Name and Designation of:**

**Signatory:**

**Firms Name:**

**Seal of the Firm:**

### Technical Specification of Equipment's for Ward Office CCTV

| <b>64 Channel 4K NVR</b> |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                       |                |
|--------------------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------|
| <b>SN</b>                | <b>Category</b>          | <b>Description</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Bidder's Offer<br/>(FC,PC, NC)</b> | <b>Remarks</b> |
|                          | <b>Manufacturer</b>      | Rujie, Cisco or Equivalent                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |                |
|                          | <b>Model/Make</b>        | Mention model No:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                       |                |
|                          | <b>Country of Origin</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                       |                |
|                          | <b>64 Channel 4K NVR</b> | Third-party network cameras supported • Up to 12 Megapixels resolution recording • Support 2-ch HDMI, HDMI1 at up to 4K(3840x2160) resolution • 320M incoming bandwidth • Up to 8 SATA interfaces 10TB per each HDD • Support HDD hot swap with RAID0,1,5,6,10 storage scheme configurable<br>•Support various VCA detection alarm and VCA search<br>•Support H.265/H.264/MPEG4 video formats<br>320Mbps Bit Rate Input<br>Max(up to 64-ch IP video), 8 SATA & 1 eSATA interfaces, 2 RJ-45 10/100/1000Mbps self-adaptive Ethernet interfaces, alarm I/O: 16/4, 2U case,19" |                                       |                |

| <b>Cat6 Cable</b> |                          |                                |                                       |                |
|-------------------|--------------------------|--------------------------------|---------------------------------------|----------------|
| <b>SN</b>         | <b>Category</b>          | <b>Description</b>             | <b>Bidder's Offer<br/>(FC,PC, NC)</b> | <b>Remarks</b> |
|                   | <b>Manufacturer</b>      | Hikvision, Dlink or equivalent |                                       |                |
|                   | <b>Model/Make</b>        | Mention model No:              |                                       |                |
|                   | <b>Country of Origin</b> |                                |                                       |                |
|                   | Packing Length           | 305m                           |                                       |                |
|                   | Conductor Material       | CCA (Copper Content 27%)       |                                       |                |
|                   | Nom.O.D.                 | 0.58mm                         |                                       |                |
|                   | Insulation               | Solid HDPE                     |                                       |                |
|                   | Insulation Dia           | 1.05±0.05mm                    |                                       |                |
|                   | Sheath Thickness         | 0.50±0.05 mm                   |                                       |                |
|                   | Sheath External OD       | 6.0±0.30 mm                    |                                       |                |
|                   | Sheath Material          | FR-PVC (Complies RoHS)         |                                       |                |
|                   | Surface Printing         | Brand,Model no length,         |                                       |                |

| <b>Technical Specification of 10TB Surveillance HDD</b> |                          |                                         |                                       |                |
|---------------------------------------------------------|--------------------------|-----------------------------------------|---------------------------------------|----------------|
| <b>SN</b>                                               | <b>Category</b>          | <b>Description</b>                      | <b>Bidder's Offer<br/>(FC,PC, NC)</b> | <b>Remarks</b> |
|                                                         | <b>Manufacturer</b>      | WD, Surveillance Standard or Equivalent |                                       |                |
|                                                         | <b>Model/Make</b>        | Mention model No:                       |                                       |                |
|                                                         | <b>Country of Origin</b> |                                         |                                       |                |
|                                                         | tor Size                 | 512E                                    |                                       |                |
|                                                         | Form Factor              | 3.5-Inch                                |                                       |                |
|                                                         | Interface                | SAS 6 Gbit/s                            |                                       |                |
|                                                         | Formatted Capacity       | 10TB / 10,000GB                         |                                       |                |

|  |             |                                                                                                                                                                              |  |  |
|--|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
|  | Performance | Interface Speed<br>6.0 Gbit/s<br>3.0Gbit/s<br>1.5 Gbit/s<br>Rotation Speed<br>7,200 RPM<br>Buffer Size<br>256 MiB<br>Maximum Data Transfer<br>Speed (Sustained)<br>237 MiB/s |  |  |
|--|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|

| Technical Specification of 2 MP Fixed Dome Network Camera |                          |                                                                        |                               |         |
|-----------------------------------------------------------|--------------------------|------------------------------------------------------------------------|-------------------------------|---------|
| SN                                                        | Category                 | Description                                                            | Bidder's Offer<br>(FC,PC, NC) | Remarks |
|                                                           | <b>Manufacturer</b>      | Hikvision. Dahua etc                                                   |                               |         |
|                                                           | <b>Model/Make</b>        | Mention model No:                                                      |                               |         |
|                                                           | <b>Country of Origin</b> |                                                                        |                               |         |
|                                                           | Image Sensor             | 1/2.7" Progressive Scan CMOS                                           |                               |         |
|                                                           | Max. Resolution          | 1920 × 1080                                                            |                               |         |
|                                                           | Min. Illumination        | Color: 0.01 Lux @(F2.0, AGC ON), B/W: 0 Lux with IR                    |                               |         |
|                                                           | Shutter Time             | 1/3 s to 1/100, 000 s                                                  |                               |         |
|                                                           | Day & Night              | IR cut filter                                                          |                               |         |
|                                                           | Angle Adjustment         | Pan: 0° to 355°, tilt: 0° to 75°                                       |                               |         |
|                                                           | Focal Length & FOV       | 2.8 mm, horizontal FOV 112.1°, vertical FOV 60.0°, diagonal FOV 132.2° |                               |         |
|                                                           | Aperture                 | F2.0                                                                   |                               |         |
|                                                           | Supplement Light Range   | IR Up to 30 m                                                          |                               |         |
|                                                           | Main Stream              | 60 Hz: 30 fps (1920 × 1080, 1280 × 720)                                |                               |         |
|                                                           | Sub-Stream               | 60 Hz: 30 fps (640 × 480, 640 × 360)                                   |                               |         |
|                                                           | Video Compression        | Main Stream:                                                           |                               |         |

|  |                          |                                                                                                                                          |  |  |
|--|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------|--|--|
|  |                          | H.265/H.264/H.264+/H.265+<br>Sub-Stream:<br>H.265/H.264                                                                                  |  |  |
|  | Protocols                | TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP™, SMTP, IGMP, 802.1X, QoS, IPv6, Bonjour, IPv4, UDP, SSL/TLS |  |  |
|  | API                      | Open Network Video Interface, ISAPI                                                                                                      |  |  |
|  | Wide Dynamic Range (WDR) | Digital WDR                                                                                                                              |  |  |
|  | Ethernet Interface       | 1 RJ45 10 M/100 M self-adaptive Ethernet port                                                                                            |  |  |
|  | Basic Event              | Motion detection etc                                                                                                                     |  |  |
|  | Power                    | 12 VDC ± 25%, 0.4 A, PoE: 802.3af, Class 3, 36 V to 57 V, 0.2 A to 0.15 A,                                                               |  |  |
|  | Protection               | IP67, IK10                                                                                                                               |  |  |

#### Technical Specification of 2 MP Fixed Bullet Network Camera

| SN | Category                 | Description                  | Bidder's Offer (FC,PC, NC) | Remarks |
|----|--------------------------|------------------------------|----------------------------|---------|
|    | <b>Manufacturer</b>      | Hikvision. Dahua etc         |                            |         |
|    | <b>Model/Make</b>        | Mention model No:            |                            |         |
|    | <b>Country of Origin</b> |                              |                            |         |
|    | Image Sensor             | 1/2.7" Progressive Scan CMOS |                            |         |
|    | Max. Resolution          | 1920 × 1080                  |                            |         |
|    | Min. Illumination        | Color: 0.01 Lux @(F2.0,      |                            |         |

|  |                        |                                                                                                                                          |  |  |
|--|------------------------|------------------------------------------------------------------------------------------------------------------------------------------|--|--|
|  |                        | AGC ON), B/W: 0 Lux with IR                                                                                                              |  |  |
|  | Shutter Time           | 1/3 s to 1/100, 000 s                                                                                                                    |  |  |
|  | Day & Night            | IR cut filter                                                                                                                            |  |  |
|  | Angle Adjustment       | Pan: 0° to 360°, tilt: 0° to 180, rotate- 0 to 360°                                                                                      |  |  |
|  | Focal Length & FOV     | 4 Mm, Horizontal FOV 90.2°, Vertical FOV 48.6°, Diagonal FOV 107.6°                                                                      |  |  |
|  | Aperture               | F2.0                                                                                                                                     |  |  |
|  | Supplement Light Range | IR Up to 30 m                                                                                                                            |  |  |
|  | Main Stream            | 60 Hz: 30 fps (1920 × 1080, 1280 × 720)                                                                                                  |  |  |
|  | Sub-Stream             | 60 Hz: 30 fps (640 × 480, 640 × 360)                                                                                                     |  |  |
|  | Video Compression      | Main Stream:<br>H.265/H.264/H.264+/H.265<br>+<br>Sub-Stream: H.265/H.264                                                                 |  |  |
|  | Protocols              | TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP™, SMTP, IGMP, 802.1X, QoS, IPv6, Bonjour, IPv4, UDP, SSL/TLS |  |  |
|  | API                    | Open Network Video Interface, ISAPI                                                                                                      |  |  |
|  | Image                  | Digital WDR, SNR ≥ 52 DB, Image Enhancement BLC, 3D DNR                                                                                  |  |  |
|  | Ethernet Interface     | 1 RJ45 10 M/100 M self-adaptive Ethernet port                                                                                            |  |  |
|  | Basic Event            | Motion detection etc                                                                                                                     |  |  |
|  | Power                  | 12 VDC ± 25%, 0.4 A, PoE: 802.3af, Class 3, 36 V to 57 V, 0.2 A to 0.15 A,                                                               |  |  |
|  | Protection             | IP67                                                                                                                                     |  |  |

| Technical Specification of 24/7 Color 4 MP Fixed Bullet Network Camera |                                |                                                                                |                               |         |
|------------------------------------------------------------------------|--------------------------------|--------------------------------------------------------------------------------|-------------------------------|---------|
| SN                                                                     | Category                       | Description                                                                    | Bidder's Offer<br>(FC,PC, NC) | Remarks |
|                                                                        | <b>Manufacturer</b>            | Hikvision. Dahua etc                                                           |                               |         |
|                                                                        | <b>Model/Make</b>              | Mention model No:                                                              |                               |         |
|                                                                        | <b>Country of Origin</b>       |                                                                                |                               |         |
|                                                                        | Image Sensor                   | 1/3" Progressive Scan CMOS                                                     |                               |         |
|                                                                        | Max. Resolution<br>2560 × 1440 | 2560 × 1440                                                                    |                               |         |
|                                                                        | Min. Illumination              | Color: 0.001 Lux<br>@(F1.0, AGC ON), 0<br>Lux with white light                 |                               |         |
|                                                                        | Shutter Time                   | 1/3 s to 1/100, 000 s                                                          |                               |         |
|                                                                        | Day & Night                    | 24/7 Color                                                                     |                               |         |
|                                                                        | Angle Adjustment               | Pan: 0° to 360°, tilt: 0°<br>to 90°, rotate: 0° to 360°                        |                               |         |
|                                                                        | Focal Length & FOV             | 2.8 mm, horizontal FOV<br>96.5°, vertical FOV<br>50.8°, diagonal FOV<br>113.9° |                               |         |
|                                                                        | Aperture                       | F1.0                                                                           |                               |         |
|                                                                        | Supplement Light Range         | White light Up to 30 m                                                         |                               |         |
|                                                                        | Main Stream                    | 50 Hz:<br><br>20 fps (2560 × 1440)<br><br>25 fps (1920 × 1080,<br>1280 × 720)  |                               |         |
|                                                                        | Sub-Stream                     | 60 Hz: 30 fps (1280 ×<br>720, 640 × 480, 640 ×<br>360)                         |                               |         |
|                                                                        | Video Compression              | Main stream:<br>H.265/H.264                                                    |                               |         |

|  |                    |                                                                                                                                                          |  |  |
|--|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
|  |                    | Sub-stream:<br>H.265/H.264/MJPEG                                                                                                                         |  |  |
|  | Protocols          | TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP™, SMTP, IGMP, 802.1X, QoS, IPv6, Bonjour, IPv4, UDP, SSL/TLS                 |  |  |
|  | API                | Open Network Video Interface, ISAPI                                                                                                                      |  |  |
|  | Region Of Interest | (ROI)1 fixed region for main stream                                                                                                                      |  |  |
|  | Audio Compression  | G.711ulaw/G.711alaw/G.722.1/G.726/MP2L2/PCM/AAC, Environment Noise Filtering-UF: Yes                                                                     |  |  |
|  | Image              | WDR 120 DB, Image Enhancement BLC, 3D DNR, Saturation, brightness, contrast, sharpness, AGC, white balance adjustable by client software or web browser. |  |  |
|  | Ethernet Interface | 1 RJ45 10 M/100 M self-adaptive Ethernet port                                                                                                            |  |  |
|  | Basic Event        | Motion detection, video tampering alarm, exception                                                                                                       |  |  |
|  | Power              | 12 VDC $\pm$ 25%, 0.4 A, PoE: 802.3af, Class 3, 36 V to 57 V, 0.2 A to 0.15 A,                                                                           |  |  |
|  | Protection         | IP67                                                                                                                                                     |  |  |