March 06, 2025

INVITATION TO BID

The Provincial Government of Zamboanga del Norte through the Bids and Awards Committee (BAC) is inviting interested parties/ bidders to bid for the following contract:

Contract ID:	**PR#25-03-044(A)**
Contract Name:	**Procurement of Information Technology (Centralized Communication System)**
Location/Purpose:	For Emergency Communication through Integrated Technology Solutions in the Provincial Government of Zamboanga del Norte, from the provincial capitol to all remote and sub offices.
Approved Budget for the Contract (ABC):	**P190,000,000.00** (inclusive of all applicable taxes)
Source of Funds	**2025 Annual Budget**

- Bidders are informed that this procurement will be subject to a **SINGLE FRAMEWORK AGREEMENT**.
- Bidders/contractors must have an expertise in undertaking a similar project, completed at least two similar contracts which the equivalent amount is at least **50% of the proposed project for bidding within the last three years.**
- Bidders are inform that the delivery term is **30 calendar days or as to the need of the project facilitator arises upon issuance of Call-off**.
- Bidders/ Contractors shall submit their **one (1) copy sealed envelope containing their technical and financial documents.**
- Documents submitted must be in accordance with the checklist provided and must have a corresponding label or name plates.
- The eligibility check/ screening as well as the Preliminary Examination of Bids shall use the non- discretionary "pass/ fail" criteria.
- Post qualification of the Lowest/ Single bids shall be conducted.
- All particulars relative to Eligibility Statement and Screening, Bid Security, Performance Security, Evaluation of Bids, Post Qualification and Award of the Contract shall be governed by the pertinent provision of RA 9184 and its Implementing Rules and Regulations (IRR).
- All bids must be accompanied by a bid security in any of the acceptable forms in the amount stated in ITB Clause 14.
- Bidding is restricted to Filipino Citizens/ sole proprietorships, partnerships or organizations with at least sixty percent (60%) interest or outstanding capital stock belonging to citizens of the Philippines, and to citizens or organizations of a country the laws or regulations of which grant similar rights or privileges to Filipino citizens, pursuant to RA No. 5183.

The schedules of activities are listed as follows:

BAC ACTIVITIES	SCHEDULE
Advertisement / Posting	**March 08 - 14, 2025**
Pre-bid Conference	**March 17, 2025 @09:00AM**
Availability and Issuance of Bidding Documents	**March 08 - 31, 2025 @ 08:30AM**
Deadline for the Submission of Bids	**March 31, 2025 @ 08:30 AM**
Bid Opening and Evaluation	**March 31, 2025 @ 09:00AM**

- Payment for bidding documents is a non- refundable amount of **Fifty Thousand Pesos Only (Php50,000.00)** payable to the Office of the Provincial Treasurer, Provincial Capitol Building, Dipolog City.

- Prospective Bidders may obtain further information from the Office of the Bids and Awards Committee, Provincial Capitol Building during office hours @ 8:00AM - 5:00PM.

- Bids must be duly received by the BAC Secretariat through manual submission at the address stated above.

- The Provincial Government of Zamboanga del Norte reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the 2016 revised IRR of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.

- **Bidding Documents will be electronically uploaded to the Philgeps website of the Provincial Office of Zamboanga del Norte at bidsandawards22@gmail.com.**

Atty. RAFAEL R. OSABEL, JR.
BAC Chairman

Annex A:

Procurement of Information Technology (Centralized Communication System)

PR#25-03-044(A)
ABC: ***P190,000,000.00***

1. **1 lot CENTRALIZED COMMUNICATION SYSTEM (CCS)**
   Specifications:
   1. Studio Broadcast Software
   Voice Broadcast - Utilize bit-compression for voice messages without compromising voice clarity and quality.
   Video Broadcast
   Text to Speech Generator Special broadcast to key officials Low Data Broadcast
   Multicast features
   End-to-end fully managed integrated system
   Enable authorized broadcasters to form exclusive groups within the
   Software - receiver's base for targeted broadcasts
   Allow pre-prepared voice messages to be instantly accessible under various categories, such as Typhoon, Tsunami, Flood,Volcano, Storm, Fire, Earthquake, Accident, Covid, or Other.
   Incorporate translation and speech generation features for entering messages via keyboard in multiple major languages. Provide humanlike intonation in Tagalog or English, with male and female voice options.
   Support three message priorities: High, Routine, and Low. Accompany high priority messages with a distinct 30-second alarm, routine priority messages with a softer 30-second alarm, and low priority messages with a brief yet distinctive alarm.
   Broadcast
   video messages with low priority.

   2. Studio Broadcast Booth
   Sound-proof Recording Studio BoothDouble-layered walls filled with soundproofing insulation material Dimmable LED lighting fixtures with minimal electrical noiseemissionAirtight seals around doors, windows, and ventilation ducts toprevent sound leakage into and out of the boothVentilation system with low- noise fans and ductwork to maintainairflow and regulate temperature and humidity levels inside theboothApply sound-transparent fabric or acoustic panels to the interiorwalls for aesthetic appeal while maintaining acousticperformance.Booth with ergonomic considerations, including adjustable seating,equipment racks, and workstation layout, to ensure comfort andproductivity during recording sessions.Fully equipped with internet wireless connectivity readycapabilities and LAN port for seamless wired connections, ensuringversatile connectivity options to accommodate modern recordingsetups and workflows.Integrated with both commercial and UPS power supply outlets,providing uninterrupted power delivery and safeguarding againstpotential disruptions during critical recording sessions.Engineered with a vibration-proof structure, ensuring stability andminimizing unwanted vibrations, thereby preserving the integrity ofaudio recordings and equipment performance.CS

   3. Mobile Application Receiver
   Voice Receiver Video Receiver
   Settings tab - Allow subscribers to select specific localities to receive messages and provide the option to monitor   messages for any locality nationally.
   Replay tab - Store the fifty most recent messages on subscribers' Software - devices, allowing replay at any time in date/time order. MyGov tab - Include secure access to nominated web services, such as Health, Safety, Education, or feedback/surveys, with control and management retained by the respective government authorities.
   Help tab - For instructions and other helpful information Include a response mechanism for authorized subscribers to immediately respond to received messages.
   Implement a speed dial function for authorized subscribers to initiate emergency calls to locally specified telephone numbers. without compromising voice clarity and quality.
   Video Broadcast
   Text to Speech Generator Special broadcast to key officials Low Data Broadcast
   Multicast features
   End-to-end fully managed integrated system
   Enable authorized broadcasters to form exclusive groups within the Software - receiver's base for targeted broadcasts
   Allow pre-prepared voice messages to be instantly accessible under various categories, such as Typhoon, Tsunami, Flood,Volcano, Storm, Fire, Earthquake, Accident, Covid, or Other.
   Incorporate translation and speech generation features for entering messages via keyboard in multiple major languages. Provide humanlike intonation in Tagalog or English, with male and female voice options.
   Support three message priorities: High, Routine, and Low.
   Accompany high priority messages with a distinct 30-second

4. Cloud Platform

Scalable system capable of accommodating up to 100,000,000 subscribers with the option for administrators to set subscriber caps

Software -

for specific areas.Ensure the service is available 24/7, 365 days a year.Allow the sender to vary time-to-live (TTL) settings for individual messages during broadcasting.

Maintain an average latency of no greater than 42 milliseconds between the message sending server and subscribers. * only in ideal situation

5. Server Machine

Processor 2.1G, 12C/24T, 10.4GT/s, 18M Cache, Turbo, HT (120W) DDR4-2666Chassis 8×3.5" SAS/SATA, 1 CPUFans Standard Fan Cold Swap 2U,V2 x5Memory 16GB RDIMM, 3200MT/s, Dual RankDrives 600GB Hard Drive SAS ISE 12Gbps 10k 512n 2.5in with 3.5in HYB CARR Hot-PlugRAID PERC H755 SAS FrontEmbedded NIC (LOM) 2x 1GbE Quad Port 1GbE BASE-T Adapter, OCP NIC 3.0"InternalMgmt", Enterprise 15GOptical Drive DVD +/-RW, SATA, InternalPower Supply Single, Hot-plug, PSU (1+0), 800W, Mixed ModeForm Factor 2U Rack

6. Server Operating System

Microsoft windows server edition

7. CCS Software

Web-Based Centralized Communication System (CCS), real-time multi-channel communication and Multi-Channel Communication - Real-Time Alerts & Notifications Secure & Encrypted Communication for Command Center Integration

8. IP Public Address Server Software

Web-Based Centralized Communication System (CCS), real-time multi-channel communication and Multi-Channel Communication - Real-Time Alerts & Notifications Secure & Encrypted Communication for Command Center Integration

9. 32 units IP Outdoor Speaker

Connectivity: Wired Ethernet Port: 1 x RJ-45 Audio nPower Output: 30W

Ingress Protection Rating: IP65 (dust-tight and protected against water jets)

Power Supply: Power over Ethernet (PoE): Supported Power Type: DC, PoE

10. 32 units IP Ceiling Speaker

Power Supply: Supports DC 24V/1A or PoE (IEEE802.3af/at protocol).

Standby Power Consumption: ≤3W. Audio Performance: Power Output: 10W.

Maximum Sound Pressure Level: 100dB ± 3dB. Sensitivity: 89dB ± 3dB (1M/1W).

Signal-to-Noise Ratio: ≥85dB. Frequency Response: 100Hz – 18kHz. Network and Protocols:

Network Interface: 10BASE-T/100BASE-TX RJ45. Supported Protocols: SIP, ONVIF, HTTP, UDP, ARP, ICMP, IGMP.

Features:

Built-in microphone supporting two-way intercom functionality. Dynamic volume adjustment based on ambient noise levels.

Remote management and online firmware updates.

11. 5 units IP Paging Microphone

Display: 4-inch high-definition stainless steel digital display with a resolution of 480 x 480 pixels.

Audio: Built-in 3W loudspeaker and unidirectional condenser microphone. Digital sound processor enhances noise reduction and sound quality.

Signal-to-Noise Ratio: ≥80dB.

Audio Sampling Rate: 8kHz-44.1kHz, 16-bit.Frequency Response: 100Hz~16kHz.

Power Supply: DC 12V/1.5A.

Network Protocols: Supports SIP (RFC 3261), HTTP, TCP/IP, UDP, ARP, ICMP, IGMP, FTP.

Interfaces:

1×RJ45 Ethernet Port. 1×USB 2.0 Port.

2×Line Inputs. 1×Line Output. 1×Relay Input. 1×Microphone Input. 1×Power Supply Port. Configuration:

Accessible via local settings or web page interface Mounting Method:

Desktop installation. Standard Accessories: Microphone Rod.

Terminal Block Connector. Installation Manual.

Certification.

12. 2 units Data Rack

42U DATA RACK WITH ACCESSORIES

13. 20 units Data Switch

Layer two Hardened PoE switch

•Supports PoE power management

•MAC auto learning and aging, MAC address capacity is 8K

•Conforms to IEEE802.3af and IEEE802.3at power supply standard. Port 1 supports Hi-PoE 60W power supply

•Supports IEEE802.3, IEEE802.3u, IEEE802.3ab/z and IEEE802.3X standards

•Wide working temperature design: -30°C~ 65°C

•Supports dual power backup

Standby Power Consumption: ≤3W. Audio Performance: Power Output: 10W.

Maximum Sound Pressure Level: 100dB ± 3dB. Sensitivity: 89dB ± 3dB (1M/1W).

Signal-to-Noise Ratio: ≥85dB. Frequency Response: 100Hz – 18kHz. Network and Protocols:
Network Interface: 10BASE-T/100BASE-TX RJ45. Supported Protocols: SIP, ONVIF, HTTP, UDP, ARP, ICMP, IGMP.
Features:
Built-in microphone supporting two-way intercom functionality. Dynamic volume adjustment based on ambient noise levels.
Remote management and online firmware updates.

14. 6 units LED Display

55" inch display
Resolution: 1,920 x 1,080
Brightness (Typ): MAX 500 nit
Response Time: 8ms
Panel Type: IPS
Pixel Pitch (HxV): 0.63x0.63
HDMI In: 2
Power Supply: AC100-240V 50/60Hz

15. 6 units Wall Mount Bracket

Materials - Steel
Metal Sheet Thickness - 2.5mm Surface Finish - Powder Coated Color - Black
Vesa Compatible Installation Solid Wall

16. 1 unit Videowall Controller

Video Input Interfaces: 8 x HDMI Type A Impedance 100 Ω
Max. Distance: 3.0 m
Video Output Interfaces: 8 x HDMI Type
Video Max. Data Rate: 6.75 Gbps (2.25 Gbps Per Lane) Max. Pixel Clock: 225 MHz
Max. Resolution: Up to 1080p

17. 12 pcs HDMI Cable

5m High Grade HDMI Cable

18. 8 units Workstation

Processor: 20 Cores / 28 Threads / 5.4 Max Freq. 16 GB of Ram
1tb SSD 4GB GPU
27" Monitor Keyboard and Mouse Office License

19. 120 Million SMS Blasting

Unlimited Message Per Day Telco Direct SMS Server Maximum of 1377 Character
Up to 9 Part messaging per campaign Zero Down Time
Bulk Messaging
Branded and Customized Sender ID

20. 7000 units Two Way Radio

Long Communication Range (5KM)
*Noise Reduction Circuit
*Battery Save CTCSS/ DCS
*Scrambler
*High Capacity Lithium Ion Battery
*FM radio
*Long Standby Time

21. 20 units POC Radio

*LTE
Europe, Asia and Africa:
TDD: B34/B38/B39/B40/B41;
FDD: B1/B3/B5/B7/B8/B20/B26/B28;
Americas:
LTE TDD:B38/B41/B40;
LTE-FDD:B2/B3/B4/B5/B7/B12/B13/B17/B26/B28 WCDMA
Europe, Asia and Africa: B1/B5/B8; Americas: B2/B4/B5
GSM: 850/900/1800/1900 Memory: 48MB RAM+128MB ROM
Peripheral Interface: USB type-C port;3.5 mm audio jack Display: 1.77inches,128x160
Card Slots: Nano*1 Battery: 3300mAh
Dust & Water Protection IP54
Vibration,Drop&Shock: 1.2m

22. 1 unit Firewall

FG-40F 5 x GE RJ45 ports (including , 1 x WAN Port, 4 x Internal Ports) Hardware Accelerated GE RJ45 WAN / DMZ Ports 1
Hardware Accelerated GE RJ45 Internal Port 3
Hardware Accelerated GE RJ45 FortiLink Ports (Default) 1 FortiGuard AI-Powered Security Services
Network and file security Web/DNS security
SaaS and data security Zero-Day threat prevention
Unified Management for Optimal Security and Efficiency Perimeter Protection

Secure SD-WAN Secure Branch
FC-10-0040F-928-02-12
Advanced Threat Protection (IPS, Advanced Malware Protection Service, Application Control, and FortiCare Premium)
23. 20 boxes UTP Cable
Cat 6 Outdoor UTP cable
24. 1 unit Network Video Recorder
64CH 8HDD 2U NETWORK VIDEO RECORDER
Supports Smart H.265+, H.265, Smart H.264+, H.264 and MJPEG decoding formats.
>Max. decoding capability: 32 × 1080p@30 fps or 32 × 2MP@30 fps.
>Max. 384/384/384 Mbps incoming/recording/outgoing bandwidth.
>Supports IP cameras with a resolution up to 32 MP.
>Supports AcuPick with up to 32 channels.
>Supports N+ cluster,iSCSI.
>Support Raid0/1/5/6/10.
>AI by Recorder supports 2-channel face detection and recognition, up to 20 face databases and 20,000 face images; 4-channel perimeter protection; 8-channel SMD Plus.
>AI by Camera supports face detection and recognition, perimeter protection, SMD Plus, metadata, ANPR, stereo analysis, heat map, and people counting.
>Supports EPTZ, and one-click arming and disarming. System Main Processor
Inustrial-grade processor
Operating System; Embedded Linux; Operating Interface;Web, Local GUI
AI; AI by Recorder; Face detection; face recognition; perimeter protection; SMD Plus
AI y Camera; Face detection; face recognition; video metadata (human, motor vehicles, and non-motor vehicles); perimeter protection; SMD Plus; stereo analysis; crowd distribution; people counting; ANPR; vehicle density; heat map
AcuPick AI by Camera + Recorder; Max. 32-channel, 1 combined event per channel/s Perimeter Protection; Perimeter Performance AI by Recorder (Number of Channels) 4 channels, 10 IVS rules for each channel
Perimeter Performance of AI by Camera (Number of Channels) 16 channels;Face Detection
Face Attributes;Gender; age group; glasses; expressions; face mask; beard Face Detection Performance of AI by Recorder (Number of Channels
2 channels (up to 12 face images/s each channel)
Face Detection Performance of AI by Camera (Number of Channels) 16 channels;Face Recognition
Face Database Capacity;Up to 20 face databases with 20,000 images, with a total capacity of 2.5 G. Name, gender, birthday, address, credential type, credential No., countries & regions and state can be added to each face image.
Face Recognition Performance of AI by Recorder (Number of Channels)
1. 16-channel FD (by camera) + FR (by recorder), image stream: 16 face images
2. 2-channe FD (by recorder) + FR (by recorder), video stream: 12 face images Face Recognition Performance of AI by Camera (Number of Channels)
16 channels;SMD Plus SMD Plus by Recorder
8 channels: Secondary filtering for human and motor vehicle , reducing false alarms caused by leaves, rain and lighting condition change SMD Plus by Camera;16 channels
Video Metadata;Metadata Performance of AI by Camera (Number of Channels) 8 channels;Human Attributes
Top color, top type, bottom color, bottom type, hat, bag, age, gender and umbrella Motor Vehicle Attributes
License plate, plate color, vehicle body, vehicle model, vehicle logo, calling, seatbelt, vehicle interior, vehicle registration location. Non-motor Vehicle Attributes
Vehicle model, vehicle color, number of persons, helmet. Vehicle License Plate Comparison
ANPR by Camera (Number of Channels)
8 channels;License Plate Database Capacity
1. Create up to 20,000 plate numbers.
2. Blocklist and allowlist Audio and Video; Network Bandwidth
AI disabled: 384 Mbps incoming, 384 Mbps recording and 384 Mbps outgoing AI enabled: 200 Mbps incoming, 200 Mbps recording and 200 Mbps outgoing
Resolution;32 MP; 24 MP; 16 MP; 12 MP; 8 MP; 5 MP; 4 MP; 1080p; 720p; D1; CIF; QCIF
Decoding Capability;AI disabled:
2-channel 32 MP@25 fps; 2-channel 24 MP@25 fps; 4-channel 16 MP@30 fps; 5-channel 12 MP@30 fps; 8-channel 8 MP@30 fps; 12-channel 5 MP@30 fps; 16-channel 4 MP@30 fps; 32-channel 1080p@30 fps AI enabled:;1-channel 32 MP@25 fps; 1-channel 24 MP@25 fps; 2-channel 16 MP@30 fps; 4-channel 12 MP@30 fps; 6-channel 8 MP@30 fps; 8-channel 5 MP@30 fps; 12-channel 4 MP@30 fps; 24-channel 1080p@30 fps
Video Output;2 VGA, 2 HDMI
VGA:1920 × 1080, 1280 × 1024, 1280 × 720
HDMI:3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720
Heterogeneous video source output for HDMI1 and HDMI2 Simultaneous video source output for VGA1 and HDMI1 Simultaneous video source output for VGA2 and HDMI2 Multi-screen Display;Main screen: 1/4/8/9/16/25/36/64 Sub screen: 1/4/8/9/16;Third-party Camera Access
ONVIF; Panasonic; Sony; Axis; Arecont; Pelco; Canon; Hanwha Compression Standard;Video Compression Smart H.265+; H.265; Smart H.264+; H.264; MJPEG

HTTP; HTTPS; TCP/IP; IPv4/IPv6; UDP; SNMP; NTP; DHCP; DNS; SMTP;
UPnP; IP Filter; PPPoE; FTP; DDNS; Alarm Server; IP Search (Supports Dahua IP camera, DVR, NVS, etc.);
Multicast; P2P; Auto Registration; iSCSI Mobile Phone Access;iOS; Android
Interoperability;ONVIF 22.12 (Profile T; Profile S; Profile G); CGI; SDK
Browser;Chrome;IE;Safari;Edge;Firefox
Network Mode;Multi-address mode, load balance, fault tolerance and other network port binding modes
Recording Playback;Multi-channel Playback Up to 16 channels;Record Mode
General, motion detection; intelligent; alarm; POS Backup Method;USB device and network
Playback Mode;Instant playback, general playback, event playback, tag playback, smart playback (face and
motion deection)
Storage;Disk Group Yes;RAID;RAID 0/1/5/6/10
Alarm;General Alarm
Motion detection; privacy masking; local alarm
Anomaly Alarm;Camera offline; storage error; disk full; IP conflict; MAC conflict; login lock; abnormal
behavior of fan; cybersecurity exceptio; Intelligent Alarm
Face detection; perimeter protection; face recognition; video metadata (human, motor vehicles, and non-motor
vehicles); SMD Plus; stereo analysis; crowd distribution; people counting; ANPR; vehicle density; heat map
Alarm Linkage;Record; snapshot (panoramic); local alarm output; IPC external alarm output; access controller;
audio; buzzer; log, preset; email Port;Audio Input;1-channel RCA
Audio Output;2-channel RCA Alarm Input;16 channels
Alarm Output;8 channels (1-channel 12 V 1 A output);HDD Interface
8 SATA ports, each disk can contain up to 20 TB. This limit varies depending on the environment temperature.
eSATA;1
RS-232;1;RS-485;2 (1 port for half-duplex serial communication, 1 port for full-duplex serial communication)
USB;4 (2 front USB 2.0 ports, 2 rear USB 3.0 ports)
HDMI;2

25. 2 units Storage Drive
10TB hdd

26. 64 units Bullet Camera
4MP IR Fixed focal Bullet WizSense Network Camera
4MP, 1/3" CMOS image sensor, low illuminance, high image definition Outputs max. 4MP (2688 × 1520) @30
fps
H.265 codec, high compression rate, low bit rate Built-in IR LED, max. IR distance: 30 m
ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
Rotation mode, WDR, 3D DNR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
Intelligent detection: Intrusion, tripwire (Recognition of vehicle and human) Abnormality detection: Motion
detection, video tampering, scene changing, audio detection, no SD card, SD card full, SD card error, network
disconnection, IP conflict, illegal access, voltage detection
Alarm: 2 in, 2 out; Audio: In, out; supports max. 256 G Micro SD card
12V DC/PoE power support, 12V DC power output, max. current 165mA IP67 protection

27. 64 units PTZ Camera
4MP 25x Starlight IR Network PTZ Camera
>1/2.8" STARVIS™ CMOS.
>25x optical zoom.
>Starlight technology.
>Max. 25/30fps@4M.
>IR distance up to 100 m.
>Perimeter protection.
>Face detection.
>SMD 4.0.
>IP66.

28. 1 unit VMS License
Unified platform
•Integrates applications, such as video monitoring, access control, video intercoms, face recognition, and ANPR,
to achieve a unified and easy-to-use solution.
Configure the data storage duration of logs, alarms, face recognition and vehicle records, etc.
•Time synchronization: Timed synchronization and device connection synchronization.
•Email server configuration.
•Supports importing HTTPS certificate.
•Set device login mode.
•Record remote logs. Backup and Restore
•Automatically back up system database by day, week, or month.
•Manually back up system database.
•Restore system database from server or local files.
•Storage Management and Record Plan
•Supports edge storage and central storage.
•Configure recording plans for channels.
•Configure storage destination: Center, device (device recording supports only main stream).

•Configure recording stream type.
•Create recording plan by time template: All-day template, weekday template, weekend template and custom template.
•Configure center recording storage duration. Monitoring Center
Live View
•View real-time video.
•Common layout (1, 4, 6, 8, 9, 13, 16, 20, 25, 36, 64) and customized layout.
•PTZ control.
•Electric focus.
•Operate barrier remotely.
•Operate door channel: Open, close and recover.
•Call video intercom devices.
•Manual recording (store on PC or central storage).
•Digital zoom.
•Fisheye dewarping.
•Fisheye -PTZ smart track.
•Smart track for panoramic camera.
•Bullet-PTZ smart track.
•Audio talk.
•Supports selecting audio input: aduio1, audio 2 and audio mix.
•Set alarm window.
•Turn on/off the IVS display in live view.
•Restore face image from face privacy masking.
•Region of interest: Divides one window into 4 or 6 parts, one for whole image, others for the details.
•Displays map in live view.
•Save the current monitoring image as a view Up to 4 live view tabs.
•Video tour by device, organization, favorites, and view.
•Supports NKB1000 to control camera in live view.
•Adjust the video image.
•Adjust the display mode (full screen and original).

29. 2 units Outdoor Led Wall
Outdoor LED Wall, Pixel Pitch: 3.91mm Size: (19.7ft. x 19.7ft. x 3ft.)
Viewing distance: 8ft (2.4m) High refresh rate: 3840 Hz Weight: 16lbs (8kg)
Operation power: 100~240V / 50-60Hz Max consumption: 120W per panel
Avg consumption: 60W per panel Bit Color: 6
Grayscale: 16384
Refresh Rate Over: 2500 Hz/s
Cabinet Material: Die-casting Aluminum Tolerance can be Controlled: Up to 0.2 mm

30. 29 units Wireless Internet Service Provider
*Satellite access internet service connectivity
*with One (1) Year Internet Subscription

31. 29 Network Video Recorder
System : Main Processor Industrial-grade embedded processor
Operating Interface Web; Local GUI| AI by Camera Perimeter protection; SMD Plus Perimeter Protection | Perimeter Performance of
AI by Camera (Number of Channels) 4
SMD Plus | SMD Plus by Camera | 4-channel SMD Plus (AI by camera), secondary filtering
for human and motor vehicle SMD Plus, reducing false alarms caused by leaves, rain and lighting condition change Audio and Video | Access Channel 4 channels
Network Bandwidth Access: 80 Mbps; Storage: 80 Mbps; Forward: 60 Mbps Resolution 12MP; 8MP; 5MP; 4MP; 3MP; 2MP; 720p; D1
Network Protocol | HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; NTP; DHCP; DNS;
SMTP; UPnP; IP Filter; DDNS; Alarm Server; IP Search
General Alarm Motion detection; privacy masking; video loss; PIR alarm
Anomaly Alarm Camera offline; storage error; disk full; IP conflict; MAC conflict; login lock; cyber security exception Intelligent Alarm Perimeter protection; SMD Plus | Alarm Linkage Recording; snapshot; buzzer; log; preset; email; tour Port: Audio Input 1 | Audio Output 1| USB 1 front USB 2.0 port, 1 rear USB 2.0 port| HDMI 1 | VGA 1
Network Port 1 × RJ-45, 10/100 Mbps self-adaptive Ethernet port | PoE Port 4 × PoE ports, 10/100 Mbps Power Supply 48/53 VDC, 1.25/1.13 A

32. 29 Storage Drive
2TB Hard disk drive

33. 33. 6 units UPS 1KVA
34. 8 units Tables And Furnitures for Workstation
35. 1 unit Management Software USB Dongle
36. 2 units Fire Extinguisher
37. With Installation and Configuration
38. With One year warranty on parts and services
Nothing Follows