



REQUEST FOR PROPOSAL

FOR SELECTION OF SYSTEM INTEGRATOR

FOR

IMPLEMENTATION OF CCTV SURVEILLANCE SYSTEM

AT POLICE TRAINING SCHOOL, THENZAWL & CID

COMPLEX, BUNGKAWN.

GOVERNMENT OF MIZORAM
POLICE HEADQUARTERS
MIZORAM : AIZAWL

CALENDAR OF EVENTS AND OTHER RELEVANT DETAILS

Sl. No.	Information	Details
1	RFP No. and Date	RFP No. 1 of 2026-27
2	Non Refundable Tender Cost	Rs. 500/-
3	Sale of Document	RPF documents can be purchased at Provisioning Branch, PHQ, Aizawl or downloaded from Mizoram Police Website https://police.mizoram.gov.in
4	EMD	1) ₹ 56,000/- (General 2%) 2) ₹ 28,000/- (In case of Small Scale Industries of Mizoram it will be 1%)
5	Last date (deadline) for receipt of RFP	14/10/2026 upto 12:00 hrs
6	Place, Time and Date of opening of Technical / Financial RFP received	Office of AIGP (Mod.) , Police Hqrs., Khatla, Aizawl on 14/10/2026 at 14:00 hrs
7	Contact Person for queries	AIGP (Mod.), Police Hqrs., Khatla, Aizawl, Phone No: 0389 – 2335225
8	Addressee and Address at which RFP is to be submitted	DGP, Mizoram, Police Hqrs., Khatla, Aizawl

Name of the Project/ Initiative	Selection of System Integrator for Installation of CCTV Surveillance System at Police Training School, Thenzawl & CID Complex, Bungkawn
Police Training School, Thenzawl camera locations	1. Main Office 2. Conference Hall 3. Women's Barrack 4. Arms Kote 5. Mess Hall 6. Clothing Store 7. Boundary Wall 8. Buarpui Gate (Gate-II) 9. Main Gate 10. Golf Course (Gate-III)
CID Complex, Bungkawn camera locations	1. Main Gate (Entry & Exit) 2. Type 4 Quarters point 3. MPSOA Building 4. Garage Pole 5. GO Quarters Pole 6. PWD Site Office 7. Sanitation Point 8. CID SB Main Office Front 9. CID SB Old Building Front 10. CID Crime Building Front 11. CID SB Main Office Back 12. CID SB Main Office Ground floor/Corridor 13. CID SB Old Building Entry 14. EOW PS Front
Project Implementation Period	65 days Please refer Section 10, page 25 for the detail timelines

GLOSSARY OF TERMS

- **4K Resolution:** A high-definition display format containing roughly 4,000 horizontal pixels, used to see small details clearly across split-screen security grids.
- **AI (Artificial Intelligence):** Software algorithms built directly into the camera firmware that analyzes visual environments in real time to classify objects (people, vehicles) and filter out false alarms.
- **AMC (Annual Maintenance Contract):** A formal post-warranty agreement detailing regular servicing, troubleshooting, and part-replacement commitments between the hardware installer and the department.
- **AP (Access Point):** A networking device that transmits and receives high-bandwidth wireless signals, linking isolated, far-off perimeter equipment back to the central wireline backbone.
- **BOM (Bill of Materials):** A detailed list of raw materials, parts, and components needed to build or manufacture a product.
- **BOQ (Bill of Quantities):** A detailed, itemized list within a project tender that states the exact hardware parts, labor items, quantities, and pricing structural units needed for deployment.
- **Bullet Camera:** An outdoor-optimized camera housed in a rugged, cylindrical frame that targets specific, mid-to-long-range viewpoints.
- **CAT6 (Category 6) Cable:** A high-speed, standardized twisted-pair copper cable used to carry heavy data streams and electrical currents up to 100 meters without signal loss.
- **CCTV (Closed Circuit Television):** A video monitoring system used primarily for security, surveillance, and crime prevention.
- **Dome Camera:** A low-profile, dome-shaped camera built inside a discrete, curved dome enclosure. It is designed for close-range indoor tracking.
- **GI (Galvanized Iron) Pole:** A heavy-duty steel pipe coated with protective layers of zinc to prevent rust and degradation in wet weather climates.
- **H.265+:** An advanced video compression standard that shrinks video files to save up to 70% more storage space and network bandwidth than older formats without losing video quality.
- **HDD (Hard Disk Drive):** A specialized, high-capacity physical magnetic disk storage drive optimized for continuous, 24/7 video recording setups.
- **IP Camera (Internet Protocol Camera):** A digital video camera that catches and transmits high-definition footage as secure digital data over an ethernet network.
- **IP67 Rating:** An international protection standard certifying that a camera housing is completely dust-tight and waterproof against torrential downpours.
- **IR (Infrared) Night Vision:** A feature using built-in infrared light emitters to let a camera capture crisp, clear black-and-white video in complete darkness.
- **ISO (International Organization for Standardization):** An official rule or guideline made by the International Organization for Standardization (ISO) to ensure products, services, and systems are safe, efficient, and consistent worldwide.
- **KVA (Kilo-Volt-Amperes):** A unit of measurement indicating the maximum electrical capacity an uninterrupted power protection system can safely support.
- **L1 Criterion:** A standard public bidding rule where the contract is automatically awarded to the lowest-priced offer among all vendors who pass the technical requirements.
- **LED Monitor (Light-Emitting Diode Monitor):** A high-contrast, flat-screen display used to show real-time video outputs from a multi-camera stream.
- **MAF (Manufacturer Authorization Form):** An official certificate from a hardware manufacturer proving a local vendor is authorized to sell, install, and service their equipment.
- **NVR (Network Video Recorder):** A dedicated server box that connects to an IP network to stream, manage, and record digital video feeds onto internal storage drives.

- **OC (Officer-In-Charge):** A police officer who looks after and monitors the CCTV Surveillance system.
- **OEM (Original Equipment Manufacturer):** The primary firm that designs and manufactures the core physical equipment and electronic components used in the project.
- **Open Tender:** A transparent public bidding process where any qualified company can submit a proposal to compete for a government project contract.
- **PoE (Power over Ethernet):** A technology that safely carries both high-speed data links and electrical power over a single CAT6 cable line, cutting installation costs.
- **QCBS (Quality and Cost-Based Selection):** A method that picks a winner by scoring both technical quality and price cost. Instead of just giving the job to the cheapest bidder (L1).
- **RFP (Request For Proposal):** A formal business document used in a tender process to invite suppliers to propose solutions for a specific project or problem.
- **SLA (Service Level Agreement):** A binding legal contract that defines required technical response windows, repair timelines, and financial penalties for system downtime.

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1) EXECUTIVE SUMMARY

1.1) The **Police Training School (PTS)** in **Thenzawl** serves as a vital infrastructure hub for law enforcement training. Securing its expansive, high-terrain layout requires a robust surveillance footprint. This project outlines the deployment of a comprehensive, internet-protocol (IP) based CCTV network comprised of 26 high-definition cameras distributed across critical zones, gates, and administrative facilities.

1.2) The **Crime Investigation Department (CID) Complex** located at **Bungkawn, Aizawl**, serves as a critical hub for law enforcement, investigation, and state intelligence operations. To mitigate emerging security threats, optimize institutional vigilance, and establish a bulletproof digital audit trail, this project outlines the implementation of a high-definition, enterprise-grade IP CCTV surveillance system.

2) PROJECT BACKGROUND & JUSTIFICATION

Current Status

- Currently, the Police Training School, Thenzawl and CID Complex, Bungkawn, Aizawl operates with **no CCTV camera surveillance infrastructure** installed within its premises.

2.1) Police Training School, Thenzawl

Operational Vulnerabilities

- **High-Value Assets:** The presence of an Arms Kote, tactical stores, and institutional clothing centers presents targeted security risks.
- **Perimeter Risks:** The campus borders public transit links via the Thenzawl-Buarpui Road, requiring strict access control at structural transition points.
- **Training Oversight:** Training activities span across distributed locations (Parade Ground, Conference Hall, Mess, and Offices) making centralized manual safety monitoring highly difficult.

2.2) CID Complex, Bungkawn, Aizawl

Core Objectives

- **Infrastructure Protection:** Secure sensitive infrastructure, document repositories, and operational areas within the CID SB office, CID Crime and Crime & Economics Police Station.
- **Perimeter Defense & Deterrence:** Mitigate risks of unauthorized entry, vandalism, and vehicle theft across common zones and parking enclosures.
- **Operational Surveillance:** Provide full-campus situational awareness with real-time video feeds for security personnel.
- **Forensic Capability:** Secure continuous, high-fidelity digital evidence to support post-incident analysis and investigations

Justification & Benefits

- **Fool-Proof Security:** Establishes comprehensive, 24/7 video coverage across peripheral vulnerabilities, access gates, and inner high-security assets.
 - **Evidentiary Support:** Maintains high-resolution video archives to review and investigate safety or behavioral incidents.
 - **Centralized Command:** Aggregates distributed campus feeds to a dedicated local station, boosting emergency response times.
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3) SITE LAYOUT & GEOGRAPHICAL ASSESSMENT

3.1) Police Training School, Thenzawl

Based on the provided aerial campus map, the facility exhibits a sprawling layout across hilly terrain. Key geographic observations include:

- **Primary Access Spine:** The campus is anchored by the **Thenzawl-Buarpui Road**, which divides or borders vital segments.
- **Entry Elements:** Three distinct entryways regulate incoming traffic: the **Main Gate**, **Buarpui Gate (Gate-II)**, and the remote **Golf Course Gate (Gate-III)**.
- **Administrative Core:** Located on higher ground in the upper cluster, containing the Main Office, Control Room, Conference Hall, and Mess Hall.
- **Core Logistics:** Critical security units like the Arms Kote, Women's Barrack, and the Clothing Store are arrayed adjacent to the PTS Parade Ground corridor.

3.2) CID Complex Bungkawn, Aizawl

- The complex includes high-security entities such as sensitive infrastructure, document repositories, and operational areas within the **CID SB office**, **Crime & Economic Offences Police Station** and the **Passport Verification Office** (indicated at plots 8, 9 and 14).
 - Its steep, densely clustered layout presents distinct blind spots and vantage restrictions that require tactical multi-tiered coverage.
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4) CAMERA DEPLOYMENT MATRIX WITH SITE MAPPING

4.1) Police Training School, Thenzawl

To maximize coverage, the 26 cameras are selected based on tactical requirements.

Bullet Type cameras are leveraged for directional, long-range outdoor perimeters.

Dome Type cameras are utilized for low-profile, wide-angle indoor monitoring.

Sl. No	Target Location	Dome Type (Indoor)	Bullet Type (Outdoor)	Total Cameras	Tactical Purpose / Coverage Area
1	Main Office	3	2	5	Administrative areas, public counters, and office perimeters with Command Centre
2	Conference Hall	2	0	2	Training assembly indoor wide-angle tracking.
3	Women's Barrack	2	0	2	Secure entryway access and communal living safety points.
4	Arms Kote	1	2	3	High-security weapons storage perimeter and access tracking.
5	Mess Hall	2	0	2	Large-scale dining hall interior crowd management.
6	Clothing Store	2	0	2	Logistics, inventory management, and asset loss prevention.
7	Boundary Wall	0	3	3	Blind-spot scanning and intrusion deterrence across campus lines.
8	Buarpui Gate (Gate-II)	0	2	2	Vehicle and incoming personnel verification at the eastern access.
9	Main Gate	0	3	3	Direct surveillance of the primary entry point off Thenzawl-Buarpui Road.
10	Golf Course (Gate-III)	0	2	2	Perimeter breach monitoring at the auxiliary campus gate.
Total		10	16	26	Complete Campus Surveillance Grid



Fig : Plot Map of CCTV camera location

4.2) CID Complex Bungkaw, Aizawl

A total of 20 cameras are deployed to monitor the complex covering all the blind spot and main road. **Bullet Type** cameras are leveraged for directional, long-range outdoor perimeters. **Dome Type** cameras are utilized for low-profile, wide-angle indoor monitoring.

Loc. ID	Surveillance Zone / Installation Site	Bullet Cameras	Dome Cameras	Total Units	Infrastructure Notes / Operational Purpose
1	Main Gate (Entry & Exit)	2	0	2	Bi-directional monitoring; capturing vehicle plates and faces.
2	Type 4 Quarters point	2	0	2	Structural perimeter coverage; monitoring residential border.
3	MPSOA Building	2	0	2	Structural perimeter coverage; securing building access.
4	Garage Pole	1	0	1	Structural perimeter coverage; tracking fleet movement.
5	GO Quarters Pole	1	0	1	Targeted courtyard view; monitoring VIP residential zone.
6	PWD Site Office	1	0	1	Requires dedicated GI mounting pole for optimal line-of-sight.
7	Sanitation Point	2	0	2	Requires dedicated GI mounting

					pole; secures peripheral zone.
8	CID SB Main Office Front	2	0	2	High-traffic entry tracking; monitoring Special Branch entrance with Command Centre.
9	CID SB Old Building Front	1	0	1	Structural facade monitoring; tracking main thoroughfare.
10	CID Crime Building Front	1	0	1	Inter-building zone monitoring; safeguarding structural gaps.
11	CID SB Main Office Back	2	0	2	Rear perimeter blind-spot coverage; anti-intrusion monitoring.
12	CID SB Main Office Ground floor/Corridor	1	0	1	Internal hallway transit tracking; monitoring visitor flow.
13	CID SB Old Building Entry	0	1	1	Discrete indoor access point view; localized entry monitoring.
14	EOW PS Front	0	1	1	Economic Offences Wing Police Station vestibule monitoring.
-	Total System Count	18	2	20	Comprehensive Campus Surveillance Coverage

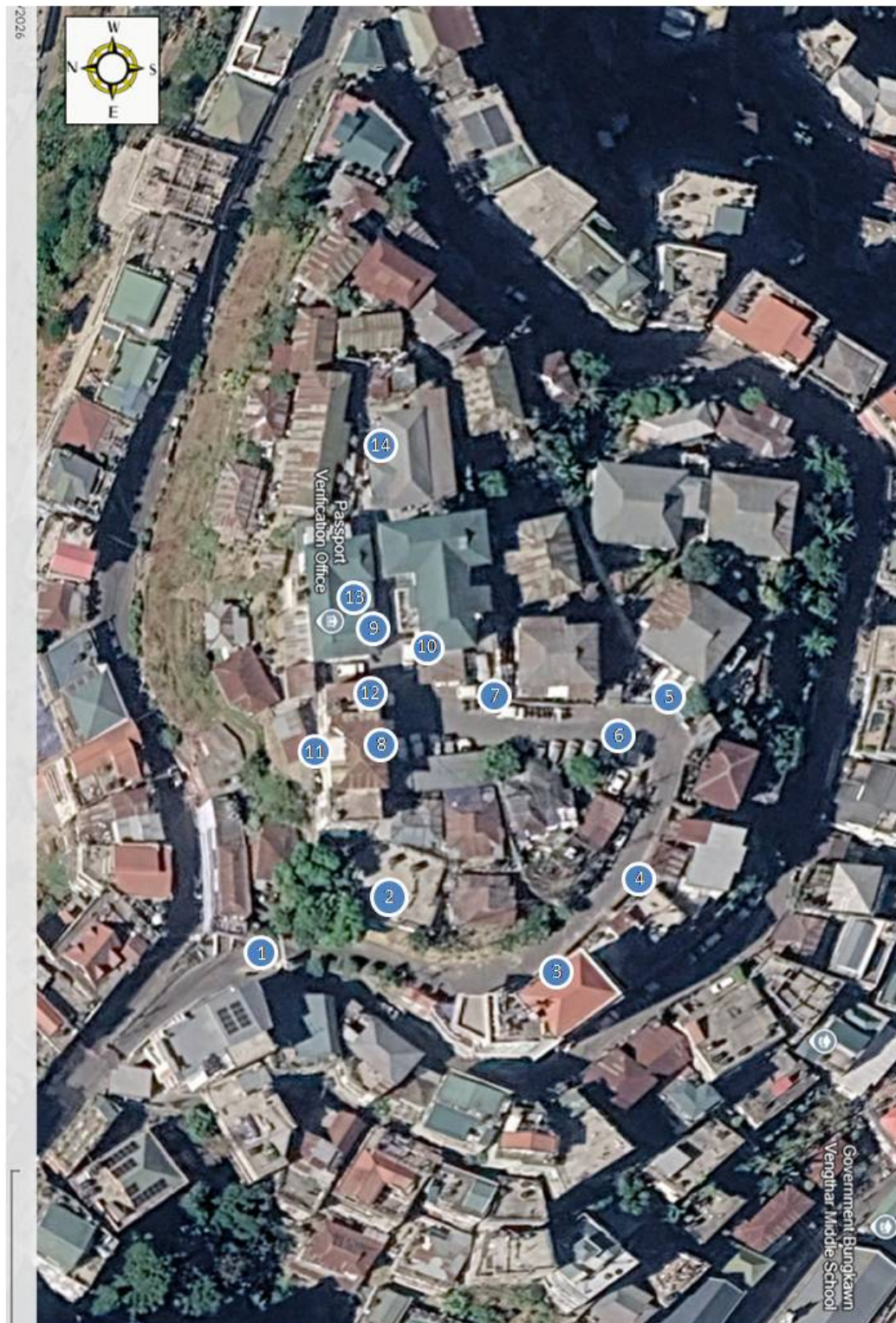
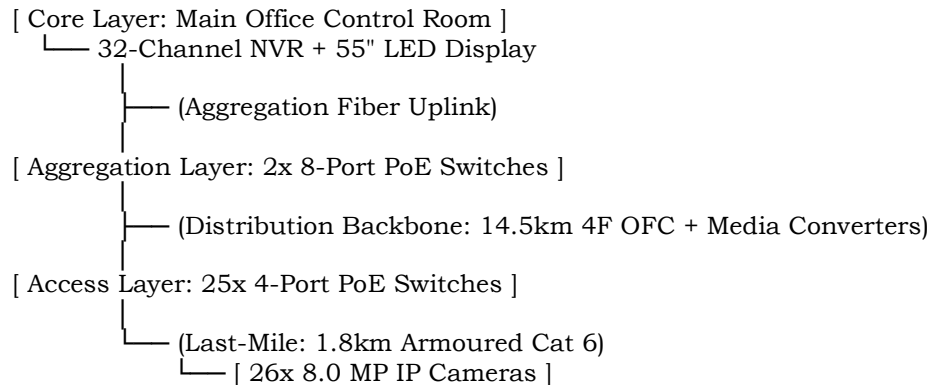


Fig : 14 Locations for camera mounting)

5. DEPLOYMENT ARCHITECTURE AND NETWORK TOPOLOGY

5.1) Police Training School, Thenzawl

The project deploys a highly resilient **Multi-Switch Hierarchical Star Topology** engineered to bypass distance limitations and eliminate single points of failure.



Core Layer (Control Room - Main Office)

- Anchored by a central **32-Channel Network Video Recorder (NVR)** paired with a **55" LED Smart TV Monitoring Display**.
- Includes **two 8TB Surveillance Hard Disk Drives (HDDs)** for multi-week high-definition retention.
- Housed in a centralized **9U Ethernet Switch Rack** for physical security and climate-controlled cable termination.
- **Power Resiliency:** 1 × 2KVA Pure Sine Wave Inverter paired with an external battery bank. The system isolates sensitive recording gear from local voltage swings and guarantees continuous operation during power disruptions.

Aggregation Layer

- Driven by **two 8-Port Power over Ethernet (PoE) Switches (10/100 Mbps)**.
- Acts as intermediate concentration hubs to manage and multiplex dense video data fields across separate wings of the campus.

Access Layer

- Distributed across **twenty-five 4-Port PoE Switches (10/100 Mbps)** placed close to camera clusters.
- Directs Power-over-Ethernet down a single line, eliminating local electrical point requirements at individual camera mounts.

Transmission Infrastructure (Backbone & Last-Mile)

- **Long-Haul Backbone: 14,500 Meters of 4F Optical Fiber Cable (OFC)** interfaces remote locations (Gates, Boundary Walls) with the central core.
- **Signal Conversion: 26 Outdoor Heavy Duty Media Converters (A&B Pairs)** seamlessly convert optical signals back to Ethernet at field endpoints.
- **Localized Drops: 1,800 Meters of Armoured Ethernet Cat 6 Cable** runs directly from localized access switches to individual cameras, offering robust protection against rodent damage or weather wear.

5.2) CID Complex - Bungkawn, Aizawl

The system is designed with a decentralized edge-switching architecture **Star Topology** to accommodate the sprawling layout of the Bungkawn CID Complex.

[20 IP Cameras (8MP)] —> [PoE Edge Switches (4/8 Port)] —> [Armoured Cat6] —>
[32-Ch NVR + 16TB Storage] —> [55" LED Display]

Core Layer (Control Room - Main Office)

- Anchored by a central **32-Channel Network Video Recorder (NVR)** paired with a **55" LED Smart TV Monitoring Display**.
- Includes **two 8TB Surveillance Hard Disk Drives (HDDs)** for multi-week high-definition retention.
- Housed in a centralized **6U Ethernet Switch Rack** for physical security and climate-controlled cable termination.
- **Power Resiliency:** 1 × 1100 VA Pure Sine Wave Inverter paired with an external battery bank. The system isolates sensitive recording gear from local voltage swings and guarantees continuous operation during power disruptions.

Aggregation Layer

- Driven by **one 8-Port Power over Ethernet (PoE) Switches (10/100 Mbps)**.
- Acts as intermediate concentration hubs to manage and multiplex dense video data fields across separate wings of the campus.

Access Layer

- Distributed across **two 4-Port PoE Switches (10/100 Mbps) and two -Port Power over Ethernet (PoE) Switches (10/100 Mbps)** placed close to camera clusters.
- Directs Power-over-Ethernet down a single line, eliminating local electrical point requirements at individual camera mounts.

Transmission Infrastructure

- **Localized Drops: 1,000 Meters of Armoured Ethernet Cat 6 Cable** runs directly from localized access switches to individual cameras, offering robust protection against rodent damage or weather wear.

6) COMPREHENSIVE BILL OF QUANTITIES (BOQ)

6.1) Police Training School, Thenzawl

SI No	Item Description	Unit	Qty
1	32 Channel Network Video Recorder (NVR)	No.	1
2	8.0 Megapixel Bullet Type Camera with Night Vision	Nos.	16
3	8.0 Megapixel Dome Type Camera with Night Vision	Nos.	10
4	8TB Surveillance Hard Disk Drive (HDD)	No.	2
5	5x5 PVC Waterproof Gang Box	Nos.	26
6	PoE Waterproof Junction Box	Nos.	26
7	Outdoor Heavy Duty Media Converter (A&B Pair)	Nos.	26
8	55" LED Smart TV (Monitoring Display)	No.	1
9	Ethernet Cat 6 Cable (armoured)	Mtrs	1800
10	4F Optical Fiber Cable	Mtrs	14500
11	RJ45 Connectors	Nos.	100
12	4-Port Power Over Ethernet (PoE) Switch (10/100 Mbps)	Nos.	25
13	8-Port Power Over Ethernet (PoE) Switch (10/100 Mbps)	Nos.	2
14	Camera Mounting Accessories	Nos.	26
15	Monitor Wall Mounting Bracket	No.	1
16	9U Ethernet Switch Rack	No.	1
17	2 KVA inverter with 2 x 200 Ah Battery	No	1
18	Galvanized Steel Pole	No.	20
19	Electrification & Wiring Accessories	Lot	1
20	Installation & Commissioning Charges	Job	1
21	Annual Maintenance Contract (AMC)	Months	12

6.2) CID Complex - Bungkawn, Aizawl

SI No	Item Description	Unit	Qty
1	32 Channel Network Video Recorder (NVR)	No.	1
2	8.0 Megapixel Outdoor Bullet Type Camera with Night Vision	Nos.	18
3	8.0 Megapixel Indoor Dome Type Camera with Night Vision	Nos.	2
4	8TB Surveillance Hard Disk Drive (HDD)	No.	2
5	5x5 PVC Waterproof Gang Box	Nos.	20
6	PoE Waterproof Junction Box	Nos.	5
7	55" LED Smart TV (Monitoring Display)	No.	1
8	Ethernet Cat 6 Cable (armoured)	Mtrs	1000
9	RJ45 Connectors	Nos.	50
10	4-Port Power Over Ethernet (PoE) Switch (10/100 Mbps)	Nos.	6
11	8-Port Power Over Ethernet (PoE) Switch (10/100 Mbps)	Nos.	3
12	Camera Mounting Accessories	Nos.	20
13	Monitor Wall Mounting Bracket	No.	1
14	6U Ethernet Switch Rack	No.	1
15	Electrification & Wiring Accessories	Lot	1
16	Galvanised Iron Pole	No	6
17	2 KVA inverter with 2 x 200 Ah Battery	No	1
18	Installation & Commissioning Charges	Job	1
19	Annual Maintenance Contract (AMC)	Months	12

7) SCOPE OF WORK & LIFE CYCLE SUPPORT

7.1) Testing and Commissioning

After the installation and integration of the CCTV systems, a thorough testing phase will be conducted. This will involve checking the functionality of each camera, ensuring that the poles are stable and that the video feeds are clear and uninterrupted. Any issues identified during this phase will be addressed promptly to ensure that the system is fully operational before it is commissioned for official use. The testing will also include a review of the monitoring capabilities, ensuring that the software and applications function as intended.

7.2) Quality Assurance & Maintenance

- **System Testing:** Mandatory acceptance trials focusing on night vision distance capabilities, automated storage overwrite triggers, and fiber failure path tests.
- **Warranty & AMC:** Includes **1 year warranty** with an immediate **12-Month Comprehensive Annual Maintenance Contract (AMC)** tracking a 99% uptime mandate, ensuring rapid replacement of field hardware in the event of an outage.

- **1-Year Comprehensive Warranty Terms (Year 1)**

The System Integrator (SI) must provide a **1-Year Comprehensive On-Site Warranty** beginning immediately upon formal department sign-off and system commissioning:

- **OEM Backing:** All active components (IP Cameras, NVR, Enterprise Storage HDDs, PoE Switches and UPS) must carry an official Original Equipment Manufacturer (OEM) warranty certificate.
- **On-Site Support:** In the event of an equipment failure, the SI is entirely responsible for dismantling, packing, shipping, tracking, and re-installing repaired or replacement units at the CID Complex at no extra cost to Mizoram Police.
- **Cabling Infrastructure Support:** The installer must fix or replace any faults, physical cuts, line drops, or grounding issues in the CAT6/Fiber Optic and conduit network at no extra cost.

- **Comprehensive AMC Terms & Conditions (Year 2)**

Upon expiration of the initial 1-year warranty phase, the budgeted **Comprehensive AMC** activates automatically for an additional 12-month period.

- **Preventive Maintenance Schedule:** Must be performed at least once every quarter (4 times a year).
- Physical cleaning of all camera lenses, enclosures, dome covers, and IR sensors.
- Inspection of weatherproof seals on all outdoor junction boxes and wireless equipment.
- Structural stability checkup of customized GI mounting poles.
- Checking NVR temperature and logging performance health scores.
- **Spare Parts Replacement:** The AMC is **fully comprehensive**. The SI must repair or replace any damaged component, port, cable, or power supply. This must be done at no extra cost to Mizoram Police. The only exceptions are damages caused by external acts of war, sabotage, or natural disasters.

- **Software Optimization:** Application of periodic OEM firmware updates to network cameras and NVR to protect against cyber security vulnerabilities and improve AI video processing.
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8) OVERALL SOLUTION REQUIREMENT

8.1) Roll-Out/Go-Live

The configuration of all equipment shall be done in accordance with this tender and agreement thereof. The connectivity testing shall be part of the roll out plan.

8.2) Implementation Schedule

The installation and commissioning of the Networking Equipment at all locations shall be completed by the System Integrator (SI) within a maximum of 65 days from receipt of work order. Likewise the Police Department will also ensure that the requisite numbers of personnel are made available for the Capacity Building program and subsequent manning of the surveillance system in Command room/centre.

8.3) Acceptance Testing

Acceptance Testing (AT) shall be conducted for all the equipment. SI shall provide test report from concerned officer in support of the technical and performance specifications.

After completion of the installation work, the complete system shall be tested for hardware and software functions.

SI, along with the representative nominated by the Mizoram Police, shall carry out the Acceptance Testing to prove the performance of the different equipment, subsystems and the overall installation, to the entire satisfaction of the Police Department.

The AT shall include a 3-day confidence trial of the equipment after completion of all tests. This period shall not be part of the installation period.

The SI shall be responsible for supplying all the special tools and test instruments required for onsite testing.

8.4) As a part of the acceptance tests, it shall be checked that:

- ❖ Equipment AT shall be conducted for all the equipment.
- ❖ Network Acceptance shall be conducted in all locations where the surveillance systems are installed as per the User Acceptance Testing (UAT) document.
- ❖ All documentation for routine Operation, Maintenance & Debugging.
- ❖ Preventive maintenance, installation drawing, factory and on-site acceptance test results are supplied / fully updated.

8.5) Taking Over

- ❖ Even though the system might have started working much earlier, it would be taken over by the purchaser when:
- ❖ Acceptance Tests as per above have been completed to the full satisfaction of the Purchaser.
- ❖ Any deficiency pointed out during the AT shall be removed by means of software revision/upgrade at no additional cost to Mizoram Police before the system can be accepted.
- ❖ SI should successfully demonstrate the working of the system to the complete satisfaction of Mizoram Police/ staff nominated by Mizoram

Police for carrying out Acceptance Testing when the system goes live.

8.6) Documentation

- ❖ All the hard / soft copies of product documentation shall be handed over to the Mizoram Police for the proper upkeep of the equipment.
- ❖ Documentation related to equipment configuration details, connectivity diagram, basic operation / maintenance / change control procedures shall also be provided to the Mizoram Police after the implementation and commissioning of the project.

8.7) Handover

- ❖ The handover phase shall see the SI project team handover the live setup to Mizoram Police. Mizoram Police and Resident Engineers from SI shall be responsible for day to day administration and management of the network.

8.8) Goals of this Request for Proposal (RFP)

The primary goal of this tender is to solicit proposals from the reputed, reliable, researched and qualified firms to be selected as the System Integrator (SI) for implementation of CCTV Surveillance System at Police Training School, Thenzawl & CID Complex, Bungkawn through a competitive bidding process for which the request for proposal (RFP) is issued. This RFP intends to bring out all the details with respect to the solution and other requirements that are deemed necessary to share with the potential bidders. The goals of RFP are further elaborated below:

- ❖ To seek proposals from potential bidders for providing the “bundle of services” in implementing and managing the CCTV Surveillance System at Police Training School, Thenzawl & Cid Complex, Bungkawn.
- ❖ To understand from the bidders how they propose to meet the technical and operational requirements of CCTV Surveillance Systems.
- ❖ To ascertain how potential bidders propose to deliver the services and sustain the demand and growth in the requirements.
- ❖ To ascertain from bidders on how they will ensure scalability and upgradeability of the infrastructure and solution proposed to be deployed.
- ❖ To understand from the bidders as to how they intend to innovate further on this service delivery model.

A Bid Evaluation Committee (BEC) shall be constituted for this project and it shall be the final authority with respect to qualifying a bidder through this RFP. Their decision with regard to the choice of the SI who qualifies through this RFP shall be final and the State Government reserves the right to reject any or all the bids without assigning any reason thereof.

9) SERVICE LEVEL AGREEMENT (SLA)

9.1) PURPOSE OF SERVICE LEVELS:

The purpose of this Service Level Agreement (hereinafter referred to as SLA) is to define the levels of service which shall be provided by the selected bidder to Police Department, Mizoram for the duration of this contract.

The benefits of the SLA are as follows–

- ◆ Solution performance optimization and obtaining desired results efficiently.
- ◆ Standards and operational guidelines for Police Department, Mizoram staff and SI.
- ◆ Greater productivity and better use of skills and experience.
- ◆ Faster redressal of defects in the system.

9.2) DEFINITIONS:

For better understanding of Bidders, following terminologies are defined below:

- “Availability” shall mean the time for which the services and facilities are available for conducting operations from the equipment hosted at the sites/location, Control room.
- “Downtime” is the time the services and facilities are not available and excludes the scheduled outages planned in advance for different solution components and the link failures that are not control room operator’s responsibility.
- "Helpdesk Support" shall mean the 24x7 centre which shall handle fault reporting.
- “Trouble Ticketing” and related enquiries during the Warranty and contract period.
- “Incident” refers to any event/abnormalities in the functioning of the CCTV, Control room and equipment/Services that may lead to disruption in normal operations of overall solution.
- “Service Window” shall mean the duration for which the facilities and services shall be available. Service window in this case shall be 24x7.

9.3) SLA between the Client and Bidder:

The SLA specifies the expected levels of service to be provided by the SI on 24x7 basis to the various stakeholders and users of the project. This expected level is also called the Baseline. SLA also specifies the limits and metrics for lower performance, which will be entailing a lower payment to the Bidder. It would also specify similar criteria for higher performance. The SLA also specifies the penalties for breach of the SLA metrics.

9.4) SLA Tracking and Penalty:

This SLA document provides for minimum level of services required as per contractual obligations based on performance indicators and measurements thereof. The Bidder shall ensure provisioning of all required services while monitoring the performance of the same to effectively comply with the performance levels. The services provided by the Bidder shall be reviewed by the Police Department, Mizoram.

- Regularly check performance of the Bidder against this SLA.
- Discuss escalated problems, new issues and matters still outstanding for resolution.
- Review of statistics related to rectification of outstanding faults and agreed changes.
- Obtain suggestions for changes to improve the service levels.

9.5) SLA Compliance and Monitoring:

At each site, an Officer-in-Charge will keep a System Maintenance Log Book which is a record of failure of the system including the nature of failure, date and time of booking the complaint, when the machine was put back in to service and total down time. This record will be signed by the SI Service Engineer/Technician and OC concerned once the incidence is resolved. Standard format for the System Maintenance Log Book shall be designed and prepared and supplied to all OC by the SI free of cost.

9.6) Performance Monitoring:

A signed copy of *Monitoring Report* prepared from the record of the System Maintenance Log Book of all locations shall be forwarded by the SI to Police Headquarters, Mizoram on quarterly basis (every three months) in support to compliance regulation.

Monitoring Report should contain the following details:

- a. Availability of hardware and solution components.
- b. Total number of events of interest recorded at the locations and action taken.
- c. Report on planned activities like power backups, hardware up-gradation, etc.
- d. Maintenance schedule for the quarter.

9.7) Penalty:

In case of delay or failure to address the incidence(s) beyond the time limits, penalties shall be imposed upon the SI by the Police Department as mentioned below. The penalty amount shall be deducted from the AMC before it is released to the SI. Details of deduction, if any, shall be communicated to the SI.

1. Break-down calls should be attended promptly and in any case on the same day in the same station. Calls from same station after office hours shall be attended to before 12:00 noon of the next day. In case of call of break-down from out-station, the same should be attended within 24 hours excluding journey time. Calls from out-station and after office hours shall be attended to within 36 hours from the

time of call. In case of an urgent requirement the fault should be attended on non-working day also.

2. Penalty of Rs.1,000/-per occasion will be imposed if call or request for any service or complaint report is not attended to as per Para 1 of 9.7 above and if the SI fails to pick up or respond to the call for 24 hours on any working day (complaint can be addressed on site or offsite through help desk).
3. In case of failure to make the system to normal functions, the time required for restoring the system to normal will be intimated to the OC concerned by the SI at the time of attending to the complaint as at Para 1 of 9.7 above. Ordinarily, such required time shall not be more than 03 (three) days from the date of receiving or attending to the break-down call. Penalty will be imposed @ Rs.500/- per day per location w.e.f. the fourth day till the time the system is restored to normal.
4. The SI will keep Police Department, Mizoram informed of the updated contact details (landline no., mobile no. and email ID) of the persons to whom service request required to be forwarded.

9.8) Penalty Exclusion:

SLA penalty during operation and maintenance phase will not be applicable to SI under following conditions:

- Failure or malfunctioning of the equipment, systems not supplied/owned/controlled by the SI.
 - Circumstances or instances of Force Majeure; or
 - Scheduled or preventive maintenance.
-

9.9) Implementation Phase SLA:

CAPACITY BUILDING:

The SI shall provide Training(s) on CCTV Surveillance, manning of Control Room, basic operations and troubleshooting techniques to nominated Mizoram Police personnel which includes training to junior level Police officers on-site upon completion of installation or as and when required, as the case may be. The below table give details on the Service Level the SI should maintain on capacity building:

Service Level Description	Measurement
Capacity Building	• The training time should be a minimum of 3 hours. • At least 90% of the trainees within the training program should give a rating of satisfactory or above. • This service level training will be monitored and measured through feedback survey to be provided to each attendee within the program. • If the training quality in the program in each location falls below the rating stated above, it will be treated as one (1) violation for which Rs.1000/- per violation will be levied to the SI.

10) PROJECT IMPLEMENTATION TIMELINES

The project will be broken down into a number of distinct work packages. The work break down structure will be used as the basis for defining milestones. To deliver on time and within budget, the implementation will follow tried and tested PRINCE2 (Project in Controlled Environment) methodology. A breakdown of the work package is outlined below:

DELIVERABLES/ MILESTONE	DURATION
Preparation phase • Order and purchase of necessary equipment	15 Days
System installation phase • Supply, Integration, Configuration and Installation of components	42 Days
Training & Provision phase • Training and Capacity building for the Police Personnel	8 Days (4 days each for 2 sites)
Preparation and Submission of the following • Project Completion Report • Operational Manuals • Maintenance Manuals • Handing Over	5 Days
TOTAL IMPLEMENTATION PERIOD – 65 DAYS	

11) SPECIAL CONDITIONS OF REQUEST FOR PROPOSAL:

The Bidder is required to give confirmation of their acceptance of Special Conditions of the RFP mentioned below which will automatically be considered as part of the Contract concluded with the successful Bidder (i.e. Seller in the Contract) as selected by Mizoram Police, hereinafter referred to as Buyer. Failure to do so may result in rejection of Bid submitted by the Bidder.

11.1) Performance Guarantee: The Bidder will be required to furnish a Performance Guarantee by way of Bank Guarantee through a public sector bank or a private sector bank authorized to conduct government business (SBI, ICICI Bank Ltd., Axis Bank Ltd or HDFC Bank Ltd., etc.) for a sum equal to 2% of the contract value within 15 days of signing the contract with Police Department, Govt. of Mizoram. Performance Bank Guarantee should be valid up to 60 days beyond the commissioning and handing over the system.

11.2) Option Clause: The contract will have an Option Clause, wherein the Buyer can exercise an option to procure an additional 50% of the original contracted quantity in accordance with the same terms & conditions of the present contract. This will be applicable within the currency of contract. The Bidder is to confirm the acceptance of the same for inclusion in the contract. It will be entirely the discretion of the Buyer to exercise this option or not.

11.3) Repeat Order Clause: The contract will not have a Repeat Order Clause.

11.4) Tolerance Clause: To take care of any change in the requirement during the period starting from issue of RFP till placement of the contract, Buyer reserves the right to 20% plus/minus increase or decrease in the quantity of the required goods upto that limit without any change in the terms & conditions and prices quoted by the Seller. While awarding the contract, the quantity ordered can be increased or decreased by the Buyer within this tolerance limit.

11.5) Payment Terms - It will be mandatory for the Bidders to indicate their bank account numbers and other relevant e-payment details so that payments could be made through PFMS/RTGS/NEFT mechanism or payment through cheques, wherever feasible. The payment will be made as per the following terms, on production of the requisite documents:

The Payment Milestones are as under–

- (a) Payment of 20% will be made as advance to the SI firm at the initial stage of the project immediately on signing of the contract.
- (b) Payment of 20% will be made to the SI after submitting the proof of arrival of all equipment in Aizawl. A period of 15-25 days from signing of the contract will be provided to the SI for this.
- (c) Payment of 30% will be made to the SI after completing 50% of the work. A period of 40 days will be provided to the SI from signing of the contract.
- (d) Remaining 30% of the payment will be released to the SI after completing the work and after handover of live running system. For this a maximum period of 50 days will be provided to the SI. This release will however be linked to proper

execution of Post Implementation Support Services.

- (e) AMC Payment Terms: AMC will commence when a Warranty Period of 1 year is over and will be for a period of 1 year. The 1 year warranty period will start from the day the project Go-Live and officially handed over to the Police Department. The AMC payments to the SI will be made in 2 equal instalments on a six monthly basis as under :
 - (i) 1st Year – The 1st instalment will be released before the end of the 1st 6 months of the AMC Period. The 2nd instalment will be released before the end of the 2nd 6 months period.

The amount to be released shall be subject to the penalty imposed, if any, as per Para 9.5.

11.6) Taxes and other contingency - Prices quoted by the Bidder shall be final (inclusive of all taxes, duties, insurance, license fee, warranty, transportation, installation, commissioning and other costs). No variation in prices will be allowed under any circumstances during the entire process.

12) PROCUREMENT STRATEGY

- **Procurement Strategy:** To maintain transparency, cost-efficiency, and compliance with state procurement rules, the project will be executed via a single-stage, two-bid **Open Tender System** (Quality and Cost-Based Selection):
 - **Technical Eligibility Criteria:**
 - ❖ Bidders submit their technical and financial bids separately (often in a two-envelope system).
 - ❖ A committee grades the technical proposal (methodology, experience, expertise) and gives it a technical score, usually on a scale of 100.
 - ❖ Bidders must clear a minimum qualifying technical mark 60 marks to move to the next stage.
 - **Financial Evaluation:**
 - ❖ The financial bids of only the technically qualified bidders are opened.
 - ❖ The lowest financial bid (L1) usually receives a perfect financial score of 100. Other bidders are scored proportionately based on how close their quote is to the lowest price.
 - **Final Composite Score:**
 - ❖ Both scores are multiplied by pre-determined weightages and added together. Example: In a 70:30 ratio (Technical : Financial), the final score is calculated as:
(Total Score = (Technical Score x times 0.70) + (Financial Score x times 0.30))
 - ❖ The bidder with the highest total combined score is awarded the contract
-

13) BIDDERS QUALIFICATION CRITERIA

The bidder is required to meet the following criteria and submit documentary proof along with the offer:

- (1) The bidder must submit copy of Goods & Services Tax Registration.
- (2) The company whose equipments are to be used by the bidder firm must have a valid ISO 9001:2015 certificate for security services and related technology aspects.
- (3) The bidder firm must have Authorized Distributor/Dealership/ Partnership Certificate from the company concerned.
- (4) The bidder should submit the declaration that bidder has not been blacklisted by any Govt. agency within Mizoram and abroad during last 5 years. The bidder will also submit an undertaking that there is no legal case registered against the company by any Govt. agency during the last 5 years.
- (5) Firm Profile along with bidder's turnover for one financial year (any year during the last three years) must be indicated (Audited balance sheets are required). The turnover refers to a single firm and not the composite turnover of its subsidiaries/sister concern etc. for one year (if audited statement are not there, an interim statement must be provided).
- (6) The bidder must submit the clause by clause compliance statement of the tender.
- (7) The bidder should have completed at least 3 (three) similar single works involving a turnkey system integration project involving installation of a minimum of 40 CCTV cameras in each work.
(Note: Please enclose copy of purchase order(s) with document proof).
- (8) The bidder should submit OEM certificate/authorization letter of the offered products. Also bidders have to provide certification from OEM that the items quoted by the tenderer are in production and would be serviceable for at-least 5 (five) years from the date of tender, no obsolete products should be quoted. Further, the bidder should submit declaration by the manufacturer on compliance with equipments specification in the RFP.
- (9) The bidder should have full time trained engineer/technician to execute the job professionally on time. List of manpower giving the names, age, experience and qualification should be provided along with the tender response document.
- (10) The bidder should submit 3 (three) Satisfaction of Customer letter for outdoor surveillance done by the registered firm.
- (11) The bidder firm must setup within 3 months after award of contract, a service team headed by a qualified engineer/technician with service vehicle at Aizawl and Lunglei to be called for after sales service in Mizoram after completing the work.
- (12) The bidder firm must provide a letter of confirmation mentioning the materials to be used with full specs/model which will be supplied to the bidder firm by the company.

Note: The bidder must enclose the above supporting documents along with the Qualification Evaluation Format (Section 14) in the outermost (third) envelope.

14) QUALIFICATION EVALUATION FORMAT

Relevant / Supporting Documents to be submitted by Bidder in accordance with “Evaluation of Qualification for the Bids:”

Sl. No.	Parameters	Supporting Documents Required	Endorsed
1	Receipt of EMD	Receipt	
2	The equipment used by the bidder firm must have a valid ISO 9001:2015 certificate for security services and related technology aspects.	ISO Certificate Copy	
3	The bidder firm must have Authorized Distributor/Dealership/ Partnership certificate from the company.	Certificates	
4	The bidder should submit the declaration that bidder has not been blacklisted by any Govt. agency within Mizoram and abroad during last 5 years. The bidder will also submit an undertaking that there is no legal case registered against the company by any Govt. agency during the last 5 years.	Declaration/ Undertaking	
5	Firm Profile along with bidder's turnover for any one financial year during the last three years must be indicated (Audited balance sheet is required). The turnover refers to a single firm and not the composite turnover of its subsidiaries/sister concern etc. for one year (if audited results are not there, an interim statement must be provided)	Financial Statements	
6	The bidder must submit the clause by clause compliance statement of the tender.	Compliance Statement	
7	The bidder should have completed at least 3 (three) similar single works involving a turnkey system integration project involving installation of a minimum of 40 CCTV cameras in each work.	Purchase/Work Order	
8	A) The bidder should submit OEM certificate/authorization letter of the offered products. Also bidders have to provide certification from OEM that the items quoted by the bidder firm are in production and would be serviceable for at-least 5 (five) years from the date of tender, no obsolete products should be quoted. B) The bidder should submit declaration by the manufacturer on compliance with specification of equipment in the RFP.	Certificates	
9	The bidder should have full time Trained Engineer to execute the job professionally on time. List of manpower giving the names, age, experience and qualification should be provided along with the tender response document.	Details of personnel	

10	The bidder should submit 03 (three) Satisfaction of Customer letter for outdoor surveillance done by the registered firm.	Certificates	
11	The bidder firm must set up within 3 months after award of contract, a service team with service vehicle at Aizawl to be called for after sales service after completing the work.	Details	
12	The bidder firm must provide a letter of confirmation mentioning the materials to be used with full specs/model which will be supplied to the bidder firm by the company.	Details	

Note: Only those bidders who have fulfilled the above 12 criteria satisfactorily will be declared qualified.

15. TECHNICAL BID FORMAT

The technical specifications of models/products for meeting the desired functional requirement are listed below –

1) 32 Channel Network Video Recorder (NVR)

Features	Minimum Specifications	Offered Specifications	Make/Model
Processor	Industrial-grade processor		
Operating System	Embedded LINUX		
IP Camera Input	32 channels		
User Interface	Web, Local GUI		
AI by Camera	Face detection, Face recognition, Perimeter protection, SMD Plus, People counting, Stereo analysis, Heat map		
AI by NVR	SMD Plus		
Perimeter Performance of AI by Camera	6 Channels		
Video Output	1 HDMI, 1 VGA Simultaneous: HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 Heterogeneous: HDMI: 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720		
Face Attributes	Gender, Age group, Glasses, Expressions, Face mask, Beard		
Abnormality Alarm	Camera disconnection, Storage error, Disk full, IP conflict, MAC conflict, Login locked, Cybersecurity exception		
SMD Plus by Camera	6 Channels		
SMD Plus by NVR	2 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change		
Face Recognition AI by NVR	6 Channels		
Face Detection AI by Camera	6 Channels		
Resolution	12 MP, 8 MP, 6 MP, 5 MP, 4 MP, 3 MP, 2MP, 960p, 720p, D1, CIF, QCIF		
Decoding Capability	AI disabled: 1 Channel 12 MP@30 fps, 2 Channel 8 MP@30 fps, 3 Channel 5 MP@30 fps, 4 Channel 4 MP@30 fps, 8 Channel 1080p@30 fps AI enabled: 1 Channel 12 MP@30 fps, 1 Channel 8 MP@30 fps, 2 Channel 5 MP@30 fps, 3 Channel 4 MP@30 fps, 7 Channel 1080p@30 fps		
Video Compression	Instastream; H.265, H.264+, H.264		
Network Bandwidth	AI disabled: 160 Mbps incoming, 128 Mbps recording and 60 Mbps outgoing AI enabled: 80 Mbps incoming, 80 Mbps recording and 60 Mbps outgoing		
Alarm Input	4 Channels		
Alarm Output	2 channels (1-channel 12 V 1 A output)		
Smart Phone	iPhone, iPad, Android Phone		
Disk Group	Support		
Video Display Split	AI disabled: Main Screen: 1/4/8/9/16/25/36, Sub Screen:		

	1/4/8/9/16 AI enabled: Main Screen: 1/4/8/9/16, Sub Screen: 1/4/8/9/16		
Audio Input	1 Channel RCA		
Audio Output	1 Channel RCA		
Audio Compression	G.711a, G.711u, PCM, G726, AAC		
Record Mode	General, Motion detection, Intelligent, Alarm		
Hard Disk	2 SATA ports. Each disk can contain up to 20 TB. This limit varies depending on the environment temperature		
General Alarm	Motion detection, Privacy masking, Video loss, Scene changing, PIR alarm, IPC external alarm		
Intelligent Alarm	Face detection, Face recognition, Perimeter protection, SMD Plus, People counting, Stereo analysis, Heat map		
Alarm Linkage	Record, Snapshot, IPC external alarm output, Audio, Buzzer, Log, Preset, Email		
Browser	Chrome, IE, Safari, Edge, Firefox		
Multi-Channel Playback	Up to 16 Channels		
Playback	Instant playback, General playback, Event playback, Tag playback, Smart playback		
Backup Mode	USB device and Network		
Interface Ports	2 (1 front USB 2.0 port, 1 rear USB 2.0 port), 1 HDMI, 1 VGA		
Ethernet	1 (10/100/1000 Mbps Ethernet port, RJ-45)		
Protocols	HTTP, HTTPS, TCP/IP, IPv4, IPv6, UDP, NTP, DHCP, DNS, SMTP, UPnP, IP Filter, FTP, DDNS, SNMP, Alarm Server, InstaOn, Auto Registration, ONVIF 2.2(Profile T, Profile S, Profile G), CGI, SDK		
Power Supply	12 VDC, 4 A		
Power Consumption	Total output of NVR is		
Operating Temperature	-10 °C to +55 °C (14 °F to +131 °F)		
Storage Temperature	-20 °C to +60 °C (-4 °F to +140 °F)		
Operating Humidity	10%–93% (RH), non-condensing		
Dimensions	375.0 mm × 282.9 mm × 53.0 mm		
Weight	1.49 kg		

2) 8.0 Megapixel Outdoor Bullet Type Camera with Night Vision

Features	Minimum Specifications	Offered Specifications	Make/Model
Image Sensor	1/2.7" 8MP PS CMOS Image Sensor (0.9407 centimeters)		
Effective Pixels	3840 (H) × 2160 (V)		
Minimum Illumination	0.001 lux@F1.4 (Color, 30 IRE), 0.0001 lux@F1.4 (B/W, 30 IRE), 0 lux (IR on)		
Angle Adjustment	Pan: 0°–360°, Tilt: 0°–90°, Rotation: 0°–360°		
Shutter Speed	Auto/Manual 1/3 s–1/100,000 s		
White Balance	Auto, Natural, Street lamp, Outdoor, Manual, Regional custom		
RAM	256 MB		
ROM	128 MB		
DORI Distance	98.7 m (Detect), 39.5 m (Observe), 19.7 m (Recognize), 9.9 m (Identify)		
Gain Control(AGC)	Auto/ Manual		
Lens Type	Fixed-focal		
Max. Aperture	F1.4		
Lens Mount	M12		

Close Focus Distance	1.9 m		
Lens	3.6mm Lens		
S/N Ratio	>56dB		
IR Number	1 (Multi-core (IR + warm) light)		
IR	IR Range of 30 Mtr.		
Warm Light	Warm Light Range of 30 Mtr.		
Angle of View	H: 86°, V: 49°, D: 100°		
Back Light Compensation	BLC/ HLC/ DWDR		
IR Control	Auto, Manual		
Day/Night	Auto(ICR)/Color/B/W		
Audio	Built-in Mic		
Smart IR	Support		
OTA (Over-The-Air)	Support		
Stream Capability	Triple stream		
Frame Rate	Main stream: 8MP (3840 × 2160)@1-20fps, 6MP (3072 × 2048)@1-20fps, 5MP (3072 × 1728)@1-20fps, 4MP (2880 × 1620/ 4MP (2688 × 1520)@1-25/30fps, 3MP (2048 × 1536/ 2304 × 1296)@1-25/30fps, 2MP (1920 × 1080)@1-25/30fps, 1.3MP (1280 × 960)@1-25/30fps, 720p (1280 × 720)@1-25/30fps Sub Stream 1: D1 (704 × 576/ 704 × 480)@1-25/30fps, VGA (640 × 480)@1-25/30fps, CIF (352 × 288/ 352 × 240)@1-25/30fps Sub stream 2: D1 (704 × 576/ 704 × 480)@1-25/30fps, VGA (640 × 480)@1-25/30fps, CIF (352 × 288/ 352 × 240)@1-25/30fps *The sub streams max. frame rates depends on main stream frame rates		
Video format	PAL/NTSC		
Privacy Mask	4 areas		
Video Compression	Instastream, H.265, H.264, H.264H, H.264B, MJPEG (Only supported by sub stream)		
Resolution	8MP (3840 × 2160), 6MP (3072 × 2048), 5MP (3072 × 1728), 4MP (2880 × 1620/2688 × 1520), 3MP (2048 × 1536/2304 × 1296), 2MP (1920 × 1080), 1.3MP (1280 × 960), 720p (1280 × 720), D1 (704 × 576/704 × 480), VGA (640 × 480), CIF (352 × 288/352 × 240)		
Noise Reduction	2D NR, 3D NR		
Motion detection	OFF/ON (4 areas, rectangular)		
Smart search	Work together with CP Plus AI NVR to perform refine AI search, event extraction and merging to event videos		
ROI	Support (4 areas)		
OSD	Privacy Masking, Channel Title, Time Title, Location, Font Properties, Custom Title		
Audio Compression	G.711a, G.711Mu, PCM, G.726, AAC		
Bit Rate Control	CBR/ VBR		
Bit Rate	H.265: 3 kbps–8192 kbps, H.264: 3 kbps–8192 kbps		
Protocol	SFTP, IPv6, IPv4, DNS,RTCP, NTP, RTP, HTTP, HTTPS, SNMP V3, TCP/IP, PPPoE, NFS, UPNP, UDP, ICMP, SSL, DHCP, SMTP, RTSPS, ONVIF (Profile S, Profile G, Profile T), unicast, multicast, TLS 1.2, 1.3, InstaOn		

SDK and API	Support		
Ethernet	RJ-45 (10/100 Base-T)		
Mirror Function	Support		
User/Host	6 (Total bandwidth: 48 M)		
IMD	Support the classification and accurate detection of human and vehicle		
Storage	SFTP, NAS		
Device Search Tool	IP finder		
Cyber Security	AES 256-bit Encryption, Configuration encryption, trusted execution, Digest, security logs, WSSE, account lockout, syslog, video encryption, IP/MAC filtering, HTTPS, trusted upgrade, trusted boot		
Browser	IE, Chrome, Firefox, Microsoft Edge		
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower)		
Smart Illumination	Support		
Alarm Event	Network disconnection, IP conflict, Illegal access, Motion detection, Video tampering, Audio detection, IMD (Intelligent motion detection), Security exception		
Certificates	SO 9001: 2015, ISO 20000-1 : 2018, CE, FCC and RoHS, BIS, STQC approved compliance report		
Power Source	12 VDC/ PoE (802.3af)		
Power Consumption	Basic: 2.5 W (12 VDC), 3.5 W (PoE) Max.: 4.5 W (12 VDC), 5.8 W (PoE) (H.265 + intelligence on+ DWDR + illuminator intensity)		
Operating Temperature	-40°C to +55°C		
Operating Humidity	≤95%(RH), non-condensing		
Storage Temperature	-40°C to +60°C		
Storage Humidity	≤95%(RH), non-condensing		
Weatherproof Standard	IP67		
Iris Control	Fixed		
Dimension	178.60 mm × 70.0 mm × 68.30 mm		
Casing	Metal + Plastic		
Weight	340g		

3) 8.0 Megapixel Outdoor Dome Type Camera with Night Vision

Features	Minimum Specifications	Offered Specifications	Make/Model
Image Sensor	1/2.7" 8MP PS CMOS Image Sensor (0.9407 centimeters)		
Effective Pixels	3840 (H) × 2160 (V)		
Minimum Illumination	0.001 lux@F1.4 (Color, 30 IRE), 0.0001 lux@F1.4 (B/W, 30 IRE), 0 lux (IR on)		
Angle Adjustment	Pan: 0°-360°, Tilt: 0°-90°, Rotation: 0°-360°		
Shutter Speed	Auto/Manual 1/3 s-1/100,000 s		
White Balance	Auto, Natural, Street lamp, Outdoor, Manual, Regional custom		
RAM	256 MB		
ROM	128 MB		
DORI Distance	98.7 m (Detect), 39.5 m (Observe), 19.7 m (Recognize), 9.9 m (Identify)		
Gain Control(AGC)	Auto/ Manual		
Lens Type	Fixed-focal		
Max. Aperture	F1.4		
Close Focus	1.9 m		

Distance			
Lens Mount	M12		
Lens	3.6mm Lens		
Video Compression	Instastream, H.265, H.264, H.264H, H.264B, MJPEG (Only supported by the sub stream)		
S/N Ratio	>56dB		
IR Number	1 (Multi-core (IR + warm) light)		
IR	IR Range of 30 Mtr.		
Warm Light	Warm Light Range of 30 Mtr.		
Day/Night	Auto(ICR)/Color/B/W		
Angle of View	H: 86°, V: 49°, D: 100°		
Back Light Compensation	BLC/ HLC/ DWDR		
OTA (Over-The-Air)	Support		
Stream Capability	Triple stream		
Frame Rate	Main stream: 8MP (3840 × 2160)@1-20 fps, 4MP (2688 × 1520)@1-25/30 fps Sub stream 1: D1 (704 × 576)@1-25 fps/ (704 × 480)@1-30fps Sub stream 2: D1 (704 × 576)@1-25 fps/ (704 × 480)@1-30fps		
Smart search	Work together with AI NVR to perform refine AI search, event extraction and merging to event videos		
Video format	PAL/NTSC		
Privacy Mask	4 areas		
ROI	Support (4 areas)		
OSD	Camera title, Date & Time, Channel Title, Time Title, Location, Font Properties, Custom Title		
Audio	Built-in Mic		
Audio Compression	G.711a, G.711Mu, PCM, G.726, AAC		
Bit Rate	H.265: 3 kbps-8192 kbps, H.264: 3 kbps-8192 kbps		
Bit Rate Control	CBR/VBR		
Protocol	SFTP, IPv6, IPv4, DNS,RTCP, NTP, RTP, HTTP, HTTPS, SNMP V3, TLS Version 1.2, TCP/IP, PPPoE, NFS, UDP, UPnP, ICMP, SSL, DHCP, SMTP, RTSPS, InstaOn, ONVIF (Profile S, Profile G, Profile T), unicast, multicast		
SDK and API	Support		
Ethernet	RJ-45 (10/100 Base-T)		
Resolution	8MP (3840 × 2160), 6MP (3072 × 2048), 5MP (3072 × 1728), 4MP (2880 × 1620/2688 × 1520), 3MP (2048 × 1536/2304 × 1296), 2MP (1920 × 1080), 1.3MP (1280 × 960), 720p (1280 × 720), D1 (704 × 576/704 × 480), VGA (640 × 480), CIF (352 × 288/352 × 240)		
Noise Reduction	2D NR, 3D NR		
Motion detection	OFF/ON (4 areas, rectangular)		
Cyber Security	AES 256-bit Encryption, Configuration encryption, trusted execution, Digest, security logs, WSSE, account lockout, syslog, video encryption, IP/MAC filtering, HTTPS, trusted upgrade, trusted boot		
IMD (Intelligent motion detection)	Support the classification and accurate detection of human and vehicle		
Mirror Function	Support		
IR Control	Auto, Manual		
Iris Control	Fixed		
Smart	Support		

Illumination			
Smart IR	Support		
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 ×1520 resolution and lower)		
Alarm Event	Network disconnection, IP conflict, illegal access, Motion detection, Video tampering, Audio detection, IMD (Intelligent motion detection), Security exception		
User/Host	6 (Total bandwidth: 48 M)		
Browser	IE, Chrome, Firefox		
Certificates	ISO 9001: 2015, ISO 20000-1 : 2018, CE, FCC and RoHS, BIS, STQC approved compliance report		
Power Source	12 VDC/PoE (802.3af)		
Power Consumption	Basic: 2.5 W (12 VDC), 3.5 W (PoE) Max.: 4.5 W (12 VDC), 5.8 W (PoE) (H.265 + intelligence on+ DWDR + illuminator intensity)		
Weatherproof Standard	IP67		
Operating Temperature	-40°C to +55°C		
Operating Humidity	≤95%(RH), non-condensing		
Storage Temperature	-40°C to +60°C (-40 °F to 131 °F)		
Storage Humidity	≤95%(RH), non-condensing		
Dimension	85.5mm × 109mm		
Casing	Metal + Plastic		
Weight	280g		

4) 8TB Surveillance Hard Disk Drive (HDD)

Features	Minimum Specifications	Offered Specifications	Make/Model
Formatted capacity	8TB		
Form factor	3.5-inch		
Interface	SATA		
Recording Technology	CMR		
Drive Technology	Air		
RV Sensors	Yes		
RoHS compliant	Yes		
Camera Support	Up to 64 HD		
AI Streams	32		
Firmware Name Feature	AllFrame AI		
Tarnish resistant components	Yes		
Interface transfer rate (max) Buffer to host	6 Gb/s		
Internal transfer rate (max)	267 MB/s		
Cache (MB)	256 MB		
RPM	7200		
Load/unload cycles	600,000		
Annualized Workload Rate (TB/year)	Up to 550 TB/year		
Non-recoverable read errors per bits read	<1 in 10 ¹⁵		
MTBF (hours)	2,000,000		
Limited warranty (years)	5 years		

Average Power (W)			
Read/Write	7.3W		
Idle	6.5 W		
Standby/Sleep	0.3 W		

5) 4-Port Power Over Ethernet (PoE) Switch (10/100 Mbps)

Features	Minimum Specifications	Offered Specifications	Make/Model
Network Ports	6 Ports		
PoE Ports	4 × RJ-45 10/100 Mbps (PoE) Ports		
Uplink Ports	2 × RJ-45 10/100 Mbps (Uplink) Ports		
Network Standard	IEEE 802.3, IEEE 802.3u, IEEE 802.3x		
Switching Capacity	1.2 Gbps		
Packet Forwarding Rate	0.893 Mbps		
MAC Address List	2K		
Packet Buffer	768 Kbit		
Jumbo Frame	2048 Byte		
DIP switch	Long Distance PoE: The transmission distance of ports 1-4 can reach up to 250 meters. The negotiation speed can be reduced to 10 Mbps		
ESD Protection	Air discharge: 8KV, Contact discharge: 6KV		
Lightning Protection	Common mode: 6KV, Differential mode: 1KV		
PoE Pin Assignment	1/2+, 3/6-		
Long Distance PoE Transmission	Support		
PoE Power	Port 1-4≤30 W, Total≤48 W		
Power Source	Built-in power supply:200-240 VAC, 50/60 Hz, Max. 1 A		
Power Consumption	Idling: 0.3 W, Full load: 48 W		
Operating Temperature	-10°C to +45°C		
Operating Humidity	10%~90% (RH), non-condensing		
Storage Temperature	-10°C to +45°C		
Storage Humidity	5%~95% (RH), non-condensing		
Casing	Sheet Metal		
Dimensions	180mm × 112mm × 44mm		
Weight	420 g		
Certificates	ISO 9001: 2015, ISO 20000-1 : 2018, ISO 14001 : 2015, ISO 45001 : 2018, ISO 50001:2018, CE, FCC and RoHS, TEC/ MTCTE		

6) 8-Port Power Over Ethernet (PoE) Switch (10/100 Mbps)

Features	Minimum Specifications	Offered Specifications	Make/Model
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Network Ports	10 Ports		
PoE Ports	1-6 Ports: 10/100/1000Mbps PoE ports (RJ45); 7-8 Ports: 10/100/1000Mbps PoE ports (RJ45), Support bt 60W High Power		
Uplink Ports	2, 10/100/1000Mbps uplink ports (RJ45)		
Network Standard	IEEE 802.3i 10BASE-T/IEEE 802.3u 100BASE-TX, IEEE 802.3ab 1000BASE-T, IEEE 802.3x Flow Control, IEEE 802.3af/at/bt Power over Ethernet		
Bandwidth	20Gbps		
Network Latency	≤16μs (use the 64byte package size)		
MAC Address Table	8K		
AI Watchdog	Support		
Transmission Rate	1000Mbps: Full Duplex Only; 10/100Mbps: Full Duplex / Half Duplex		
Transmission Distance	130m		
Power Source	Built-in Power Supply Input: AC 90~240V Totals≤120W Output: PoE 1~6 Port: 1/2(+52V), 3/6(GND)≤30W PoE 7~8 Port:1245(+52V), 3678(GND) Compatible1/2(+52V), 3/6(GND)≤60W		
Protection	ESD Protection:8KV Lightning Protection:6KV		
Operating Temperature	-30°C ~60°C		
Operating Humidity	10%~90% Non-condensing		
Storage Temperature	-40°C~70°C		
Storage Humidity	5%~90% Non-condensing		
Dimensions (L x W x H)	190mm x 140mm x 43mm		
Weight	1000g		
Certificates	ISO 9001: 2015, ISO 20000-1 : 2018, ISO 14001 : 2015, ISO 45001 : 2018, ISO 50001:2018, CE, FCC and RoHS, TEC/ MTCTE		

7) Outdoor Heavy Duty Media Converter (A&B Pair)

Features	Minimum Specifications	Offered Specifications	Make/Model
Standard	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z		
Data Rate	Copper: 10/100/1000M; Fiber: 1.25G		
Flow Control	Full duplex: flow control; Half duplex: back pressure		
Cooper Port	No.s of Copper Port: 1 Connector: RJ45 Connector Distance:100m		

Fiber Port	No.s of Fiber Port: 1 Connector: SC as default Wavelength: 1310/1550nm Distance: 20 Km		
LED Indicators	PWR (power supply); FL/A (optical link/action) FDX (FX full duplex), TL/A (twisted pairs link/action) 100 (100M transmission rate of twisted pairs), FX (100M transmission rate of optical fiber)		
Power Supply	Working power: DC5V 1A AC Power Supply: 100V~AC240V to 5V1A Or DC Power Supply: -36~-72V to 5V1A External / Internal Power Supply Optional		
Power Consumption	<3W		
Environment	Operating temperature: -10~55°C Storage Temperature: -40~85°C Relative Humidity: 5% to 95% non-condensing		
Dimensions	External: 94mmx70mm*26mm Internal: 140mmx110mmx30mm		
Gross Weight	External: 0.4kg Internal: 0.5kg		

8) Ethernet Cat 6 Cable

Features	Minimum Specifications	Offered Specifications	Make/Model
Construction			
Conductor	23 AWG Solid bare Copper		
Insulation	High Density Polyethylene		
Pairs	2 insulated conductors twisted together		
Shield	Aluminum/ Polyester foil Tinned copper Braiding		
Sheath	FR-PVC/ LZSH complies with ASTM D 2863/IEC 60332-1/IEC 60754-1 (Applicable for LSZH)		
Cable Diameter	7.3 mm nominal		
Electrical properties			
Conductor Resistance	$\leq 9.38 \Omega/100m$		
Mutual Capacitance	$< 5.6nF/100m$		
Resistance Unbalance	5% Max		
Capacitance Unbalance	330pF/100m		
Delay Skew	$< 45nS$		
Mechanical properties			
Bending radius	$< 8 \times \text{Cable Diameter at } -20^\circ \text{ C } \pm 1^\circ \text{ C}$		
Pulling Force	11.54 kgs		
Temperature Range	-20° to +70° C		
Connection System	Compatible with all common systems according to TIA/EIA 568.C.2		

9) 4F Optical Fiber Cable

Features	Minimum Specifications	Offered Specifications	Make/Model
Applications	Inside Duct, Pulled or Blown For CATV application, aerial application along with messenger wire		
Cable Construction	Up to 12 low water peak single mode fibres in compliance with ITU-T-G.652D Metallic / Non metallic rod used as strength member embedded in sheath Loose buffer tubes jelly filled and centrally placed in the cable UV stabilized PE outer sheath, black		
Mechanical Characteristics	Temperature Range : (IEC 60794-1-2-F1) Laying & Installation : -10°C to +50°C Operation : -20°C to +60°C		
Cable Bending Radius (IEC 60794-1-2-E11A)	During Installation : 20D, D=Cable Diameter Installed : 15D, D=Cable Diameter Repeated Bending : 30 Cycle, r=20D, 5 Kg, Load, D=Cable Diameter (IEC 60794-1-2-E6)		
Tensile Force (IEC 60794-1-2-E1)	During Installation : 800 N Installed : 500 N Torsion Resistance (IEC 60794-1-2-E7) : 10 Cycle (± 360°) 5 Kg weight, L=1 Mtr Crush Resistance (IEC 60794-1-2-E3) : 500 N (100 X 100 mm) for 60 sec Kink Resistance (IEC 60794-1-2-E10) : 15D, D=Cable Diameter Water Penetration (IEC 60794-1-2-F5B) : 1 Mtr Water Head, 3 Mtr Cable Sample, 24 Hours		
Fibre Count	2 to 8		
Diameter(mm) (Nominal)	6.0		
Weight (kg/km)	30		
Tensile Strength Installation	800		
Tensile Strength Installed	500		

10) 55" LED Smart TV (Monitoring Display)

Features	Minimum Specifications	Offered Specifications	Make/Model
Display	Size: 55-inch (138 cm) diagonal Resolution: 4K Ultra HD (3840 × 2160 pixels) Panel Type: QLED (Quantum Dot Technology) with a 16:9 aspect ratio Refresh Rate: 60Hz native, with up to 120Hz DLG (Game Booster) support HDR & Color: Supports HDR10+, HLG, Dolby Vision, and covers 94% DCI-P3 wide color gamut		

	Viewing Angle: 178° / 178°		
Audio	Sound Output: 34W Box Speakers Sound Formats: Dolby Audio, DTS:X, DTS Virtual:X, and DTS-X support		
Smart Features	Operating System: Fire TV OS built-in Voice Control: Bluetooth voice remote with Alexa integration Casting: Supports Apple AirPlay 2 and Miracast		
Hardware Connectivity &	Processor & Storage: Quad-core processor with 2GB RAM and 32GB internal storage HDMI: 3 ports (including 1 with eARC) USB: 2 USB-A ports Wireless: Dual-band Wi-Fi and Bluetooth Other Ports: 1x Ethernet (RJ45), 1x Optical audio out, 1x3.5mm headphone jack, and AV input		
Design Dimensions &	Frame: Premium metal bezel-less frame Dimensions (with stand): \ (957 \text{ mm (Length)} \times 211 \text{ mm (Width)} \times 599 \text{ mm (Height)} \backslash \) Weight: 24.8 kg		

11) 2 KVA Pure Sine Wave Inverter

Features with Minimum Specifications		Offered Specifications	Make/Model
POWER			
Apparent Power	2000VA		
Active Power	1600W		
INPUT			
REGULATED UPS MODE			
Rated Voltage	230V AC		
Undervoltage	180±5V		
Undervoltage Restoration	190±5V		
Overvoltage	265±5V		
Overvoltage Restoration	255±5V		
UNREGULATED ECO MODE			
Undervoltage	85±10V		
Undervoltage Restoration	105±10V		
Overvoltage	285±10V		
Overvoltage Restoration	275±10V		
OUTPUT			
Rated voltage (UPS Mode)	(220-240)V AC ± 5%		
Voltage (Mains Mode)	SAME AS INPUT		
Frequency (UPS Mode)	50 ± 0.5Hz		
Frequency (Mains Mode)	SAME AS INPUT (45-55 Hz)		
Overload	> 115%		
Transfer Time(typical a.s.)	< 20 ms. in Narrow Mode		
	< 30 ms. in Narrow Mode		
BATTERY			
Capacity	80Ah-220Ah TUBULAR / FLAT / SMF		
Number of Battery	2		
Typical Recharge Time	8-10 hours approx		
Protection	LOW BATTERY		
PHYSICAL			
Net weight (Kg.)	21.0 approx		
Gross weight (Kg.)	22.8 approx		
Dimension (LxWxH)(mm)	300x326x284		
FRONT LCD DISPLAYS			
Switch Off on battery mode	Displays "OFF"		
Load Percentage	Displays "L085%"		
Time to Charge & Discharge	Display time to charge or discharge in		

	HH:MM		
Battery High Cut	Displays when battery voltage > 35V		
Battery Level Symbol	Displays battery level available		
Charging Symbol	Displays when battery is charging		
Mains Symbol	Displays Mains available		
Mode Selection	Displays ECO or UPS Mode		
Fault Symbol	Displays if there any fault or trip condition		
ALARM			
Mains to Inverter change over	Beep with 1 second gap till Battery Low		
Low Battery Pre-alarm	Beep with 1 second gap till Battery Low		
Low Battery	Continuous beep for 10 Seconds		
Overload & Short circuit	Continuous beep for 10 Seconds		
Overload Pre-alarm	Beep with 1 second gap till Overload		
Over temperature	Continuous beep till fault get reset		
Mains MCB trip	Continuous beep till fault get reset		
ENVIRONMENTAL			
Operating Temperature	0-45°C (32-113°F)		
Storage Temperature	0-45°C (32-113°F)		
Humidity	0-95% RH non-condensing		

12) 1100 VA Pure Sine Wave Inverter

Features with Minimum Specifications		Offered Specifications	Make/Model
POWER			
Apparent Power	1100VA		
Active Power	924W		
INPUT			
REGULATED UPS MODE			
Rated Voltage	230V AC		
Undervoltage	180±5V		
Undervoltage Restoration	190±5V		
Overvoltage	265±5V		
Overvoltage Restoration	255±5V		
UNREGULATED ECO MODE			
Undervoltage	85±10V		
Undervoltage Restoration	105±10V		
Overvoltage	285±10V		
Overvoltage Restoration	275±10V		
OUTPUT			
Rated voltage (UPS Mode)	(220-240)V AC ± 5%		
Voltage (Mains Mode)	SAME AS INPUT		
Frequency (UPS Mode)	50 ± 0.5Hz		
Frequency (Mains Mode)	SAME AS INPUT (45-55 Hz)		
Overload	> 105%		
Transfer Time(typical a.s.)	< 20 ms.		
BATTERY			
Capacity	80Ah-220Ah TUBULAR / FLAT / SMF		
Number of Battery	1		
Typical Recharge Time	8-10 hours approx		
Protection	LOW BATTERY		
PHYSICAL			
Net weight (Kg.)	11.4 approx		
Gross weight (Kg.)	12.2 approx		
Dimension (LxWxH)(mm)	300x275x139		
FRONT LCD DISPLAYS			
Switch Off on battery mode	Displays "OFF"		
Load Percentage	Displays "L085%"		
Time to Charge & Discharge	Display time to charge or discharge in HH:MM		

Battery High Cut	Displays when battery voltage > 17.5V		
Battery Level Symbol	Displays battery level available		
Charging Symbol	Displays when battery is charging		
Mains Symbol	Displays Mains available		
Mode Selection	Displays ECO or UPS Mode		
Fault Symbol	Displays if there any fault or trip condition		
ALARM			
Mains to Inverter change over	Single Beep for 1 second		
Low Battery Pre-alarm	Beep with 1 second gap till Battery Low		
Low Battery	Continuous beep for 10 Seconds		
Overload & Short circuit	Continuous beep for 10 Seconds		
Overload Pre-alarm	Beep with 1 second gap till Overload		
Over temperature	Continuous beep till fault get reset		
Input Fuse Failure	Continuous beep till fault get reset		
ENVIRONMENTAL			
Operating Temperature	0-45°C (32-113°F)		
Storage Temperature	0-45°C (32-113°F)		
Humidity	0-95% RH non-condensing		

The evaluation of technical score is given below:

The weight given to the Technical (T) and Financial (P) proposal are: T:P ::70%:30%

16. EVALUATION CRITERIA/SUB-CRITERIA AND MARKING SYSTEM

Sl. No.	Criteria	Level	Score	Max Score	Bidder's Score
1	Availability of Office in Mizoram(at Aizawl)	Can produce proof of office within 3 months from award of contract	2	5	
		Available	5		
2	Technical Team size	<10 persons	0	5	
		10 to 20 persons	3		
		>20 persons	5		
3	Average annual Turnover in last 3 yrs i.e. Financial Year 2022-23, 2023-24, 2024-25	50-100 lakhs	2	5	
		100-150 lakhs	3		
		150-200 lakhs	5		
4	Certificate/authorization letter of the offered products from the Manufacturer		5	5	
5	Experience of CCTV Project under Govt. of Mizoram along with Supply order	50-100lakhs	2	5	
		100-200lakhs	3		
		200-250lakhs	5		
6	Experience of CCTV Project under Central Govt / Society/ Institution	20-30lakhs	2	5	
		30-50lakhs	3		
		50-100lakhs	5		

7	Turnkey basis successful project experience involving installation of minimum of 40 CCTV cameras in each work with supply/work order		10	10	
8	Evaluation of equipment/ compliance			60	
	(a) 32 Channel NVR		6		
	(b) 8.0 MP Outdoor Bullet Type Camera with Night Vision		8		
	(c) 8.0 MP Outdoor Dome Type Camera with Night Vision		8		
	(d) 8 TB Surveillance HDD		4		
	(e) 4-Port POE		5		
	(f) 8-Port POE		5		
	(g) Media Convertor		5		
	(h) Ethernet Cable		2		
	(i) 4F Optical Fibre		2		
	(j) 55" Monitor		6		
	(k) 2 KVa Inverter		6		
	(l) 200Ah Tubular Inverter Battery		3		
	TOTAL			100	

Note : The method of selection that shall apply for selecting a System Integrator from those who submit their proposal is Quality and Cost Based Selection (QCBS). The total score is calculated by weighing the technical and financial scores and adding them as per the formula and instructions specified below:

$$B_n = 0.70 * T_n + 0.30 * (C_{min}/C_b)100$$

Where B_n = Overall score of bidder under consideration.

T_n = Technical score of the bidder under consideration.

C_b = Actual price quoted by the bidder.

C_{min} = Lowest price amongst the financial bids.

17. PRICE BID FORMAT:

The Price Bid Format is attached below with this RFP and bidders are required to fill this up correctly with full details.

DESCRIPTION	QUANTITY	UNIT	UNIT RATE WITH TAXES	AMOUNT WITH TAXES
CCTV EQUIPMENT				
32 Channel NVR	2	Nos		
8.0 MP Bullet Type Camera	34	Nos		
8.0 MP Dome Type Camera	12	Nos		
8 TB Surveillance HDD	4	Nos		
4-Port PoE	31	Nos		
8-Port PoE	5	Nos		
Media Convertor	26	Nos		
55" Monitor	2	Nos		
POWER BACKUP				
2 KVa Inverter with 200Ah battery	2	Nos		
ACCESSORIES				
Galvanised Iron Pole	26	Nos.		
Single Mode Optic Fibre	14500	Mtrs.		
CAT6 (armoured)	2800	Mtrs.		
9U Ethernet Switch Rack	1	Nos.		
6U Ethernet Switch Rack	1	Nos.		
RJ47 connector	150	Nos.		
5x5 PVC Waterproof Gang Box	46	Nos.		
PoE Waterproof Junction Box	31	Nos.		
Camera Mounting Accessories	46	Nos.		
Monitor Wall Mounting Bracket	2	Nos		
Electrification & Wiring Accessories	2	Lots		
INSTALLATION & COMMISSIONING CHARGES				
Supply, Installation, Integration, Project Management Charges				
AMC CHARGES				
AMC Charges for 12 Months				
TOTAL (Supply + Installation + Service)				

Note: The detailed pricing for each component will be filled in by the bidders in the Bill of Quantity mentioned in the RFP which will be attached along with the price bid.

18. BANK GUARANTEE PROFORMA

Whereas.....(hereinafter called the “tenderer”) has submitted their offer dated..... for the supply of (hereinafter called the “tender”) against the purchaser’s tender enquiry No..... KNOW ALL MEN by these presents that WE.....of.....having our registered office at are bound unto.....(hereinafter called the “Purchaser”) in the sum of.....for which payment will and truly to be made to the said Purchaser, the Bank binds itself, its successors and assigns by these presents. Sealed with the Common Seal of the said Bank this.....day of 2026.

THE CONDITIONS OF THIS OBLIGATION ARE:

- (1) If the tenderer withdraws or amends, impairs or derogates from the tender in any respect within the period of validity of this tender.
- (2) If the tenderer having been notified of the acceptance of his tender by the Purchaser during the period of its validity –
 - (a) If the tenderer fails to furnish the Performance Security for the due performance of the contract.
 - (b) Fails or refuses to accept/execute the contract.

We undertake to pay the Purchaser up to the above amount upon receipt of its first written demand, without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser will note that the amount claimed by it is due to it owing to the occurrence of one or both the two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force upto and including 45 days after the period of tender validity and any demand in respect thereof should reach the Bank not later than the above date.

When communication is received from or on behalf of Mizoram Police to invoke this Bank Guarantee, the amount will be remitted to in favour of **Office of Director General of Police , Police Headquarters, Khatla, Aizawl.**

(Signature of the authorized officer of the Bank)

.....

Name and designation of the officer

.....

Seal, name & address of the Bank and address of the Branch

19. BILL OF MATERIAL

Approved Price Bid of the successful bidder as indicated in Section 17 will form the detailed Bill of Material.