



Matrix Secures the Prison Department in One of India's Largest States

*2,000+ Network Cameras Installed Across Four
Cities to Monitor 10,000+ Inmates*

Case Study

Industry:

Government

Location:

India

Company Profile:

The office of the Additional Director General of Police (ADG) and Inspector General (IG) of Prisons oversee the management and security of all prisons in Maharashtra. This includes ensuring the safety of prison facilities, implementing rehabilitation programs for inmates, and managing prison staff. The ADG and IG focus on improving prison conditions and ensuring legal standards are met. Their goal is to create a secure and fair environment, balancing safety with efforts to reform and rehabilitate prisoners for their eventual return to society.

Scenario:

The absence of a video surveillance system created critical security blind spots, making it difficult to monitor key areas effectively. The need for a robust solution became clear after issues like hidden illegal items and unmonitored inmate movements posed significant risks to prison security.

To comply with government regulations, the new video surveillance system had to adhere to stringent standards

established by the **Bureau of Indian Standards (BIS)**. This included IS 16910, which details the specifications for camera performance and image quality, and IS 13252, which covers safety guidelines for IT equipment. The system required **STQC certification** to ensure it met high security and data privacy standards, crucial for government installations. Additionally, it needed to comply with **OWASP ASVS 4.0 L2** standards to ensure robust cybersecurity, safeguarding against common vulnerabilities. High-resolution cameras were essential for clear image capture, and tamper-proof storage was required to securely retain footage for 30 to 90 days. The system also had to align with the **National Cyber Security Policy** to protect sensitive data from cyber threats. Compliance with these standards was vital for maintaining security and operational integrity within the prison.

Challenges:

- Struggled to monitor blind spots in the prison yard where fights and disputes frequently occurred.
- Detecting the smuggling of drugs and mobile phones during visitations was nearly impossible with manual checks alone.
- Staff couldn't always be present to monitor isolated areas like back rooms, corridors, and staircases, leading to security gaps.

- Identifying the individuals involved in riots or brawls was difficult due to the lack of visual evidence.
- Inmate escape attempts often went unnoticed until too late, especially during night shifts.
- Ensuring round-the-clock monitoring of high-risk zones like solitary confinement was a constant challenge.
- Coordinating emergency responses, such as medical help during violent outbreaks, was delayed without instant visual updates.

Solution:

Matrix Network Cameras and NVRs were installed across four prisons statewide, providing robust security for over 10,000 inmates.

Matrix PTZ Cameras were deployed in larger spaces like the prison yard, where they could pan, tilt, and zoom to follow suspicious activities or fights, providing dynamic coverage and ensuring swift responses to incidents.

Mini Dome Cameras were placed inside cells and common areas to provide constant, wide-angle surveillance, keeping tabs on inmate behavior and reducing the chances of fights or smuggling illegal items. These cameras were also installed in cafeterias and recreation areas to monitor inmate interactions.

Mini Bullet Cameras were installed in corridors and cellblock hallways to keep a close eye on inmate movement, ensuring no blind spots in these high-traffic zones. They were also installed in less-visited areas like storage rooms and staff offices to prevent unauthorized access and maintain control.

Project Bullet Cameras were mounted along the prison yard and perimeter walls, providing long-range surveillance to prevent escape attempts and monitor outdoor activity. They were also installed at entry and exit points to keep tabs on everyone going in and out, securing access to the facility.

All Matrix Network Cameras were centrally monitored with **Matrix 64 Channel NVRs**. This setup enabled 24x7 real-time monitoring, recording, and playback of video from different areas of the prison, ensuring complete coverage and prompt incident response.

Similarly, the prison departments in three other cities of the state were also secured with Matrix Network Cameras and NVRs.

Products Offered:

<p>Matrix MIDR20FL36CWS P2 (800+) 2MP IR Mini Dome Camera with 3.6 mm Fixed Lens</p>
<p>Matrix MIBR20FL36CWS P2 (600+) 2MP IR Mini Bullet Camera with 3.6 mm Fixed Lens</p>
<p>Matrix CIBR20FL36CWS P2 (800+) 2MP IR Project Bullet Camera with 3.6 mm Fixed Lens</p>
<p>Matrix PZCR20ML25CWP P2 (70+) 2MP IR PTZ Camera with 25x Optical Zoom</p>
<p>Matrix NVR6408X P2 (40+) 64 Channel NVR with 8 SATA Ports</p>

Benefits:

The installation of Matrix Network Cameras effectively eliminated critical security blind spots in the prison yard, reducing the risk of fights and disturbances. They ensured round-the-clock surveillance of high-risk zones, such as solitary confinement and cell blocks, preventing inmate escapes and unauthorized movements.

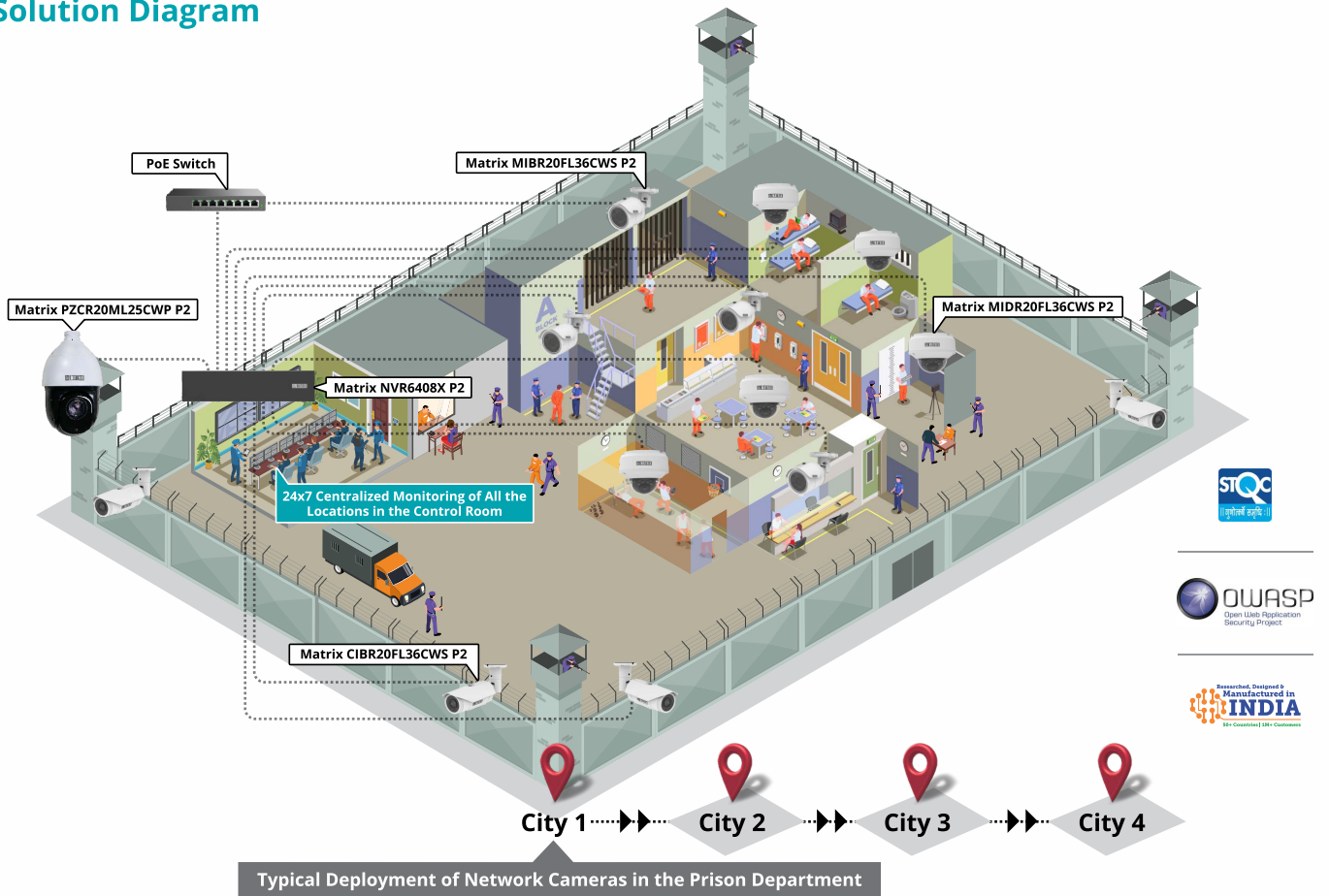
Matrix video surveillance system enabled accurate monitoring during visitations, significantly enhancing the detection of smuggling attempts for drugs and mobile phones.

Centralized monitoring via the 64-Channel NVR allowed for quick identification and response to disturbances, ensuring timely intervention during riots or medical emergencies.

High-resolution camera footage provided reliable documentation of inmate interactions and incidents, supporting investigations and enhancing overall prison security management.

Matrix video surveillance system meets BIS and STQC standards, ensuring compliance with government regulations for safety and data privacy. It also complies with OWASP ASVS 4.0 L2 standards, enhancing data security and protecting against cyber threats.

Solution Diagram



About Matrix

Established in 1991, Matrix is a leader in Security and Telecom solutions for modern businesses and enterprises. As a technology-driven, and customer-focused organization, the company is committed to keeping pace with the revolutions in the Security and Telecom industries.

With around 40% of its human resources dedicated to the development of new products, Matrix has launched cutting-edge products like Video Surveillance Systems – Video Management Systems, Network Video Recorders and IP Camera, Access Control and Time-Attendance Systems as well as Telecom Solutions such as Unified Communications, IP-PBX, Universal Gateways, VoIP and GSM Gateways and Communication Endpoints. These solutions are feature-rich, reliable, and conform to international standards.

Having global footprints in Asia, Europe, North America, South America, and Africa through an extensive network of more than 4000+ channel partners, Matrix ensures that the products serve the needs of its customers faster and longer.

Matrix has ISO 27001: 2013, 20000-1 2018, 14001- 2015, and 9001: 2015 certifications for quality management standards. Matrix has also been awarded ZED Quality Certification, and DSIR Certification for indigenous R&D and Manufacturing. Matrix has gained the trust and admiration of customers representing the entire spectrum of industries.



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