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CASE STUDY

High-Performance IP Bullet Cameras Enable the Detection of Unauthorized Access and Criminal Activities at IDA Bollaram

Project Objective:

IDA Bollaram, a key industrial development area, recognized the need for robust surveillance solutions to monitor various aspects such as theft prevention, vehicle tracking, detection of unusual activities, people observation, and handling accident cases. This case study explores the project's challenges faced, the solutions implemented, and the achieved results.

Project Challenges:

1. Wiring Challenges due to 12KM Pole-to-Pole Distance:

The extensive distance between poles posed difficulties in wiring, leading to potential connectivity issues.

2. Difficulty Working with Existing Poles and Transformers:

Working around current poles and transformers created logistical challenges and potential safety concerns for the installation team, making it difficult to navigate and execute the wiring work seamlessly.

3. Low Height of Power Cables:

The low height of power cables introduced risks of damage and accessibility issues.

4. Difficulty in Pole Drilling due to Galvanized Poles:

Galvanized poles presented challenges in terms of pole drilling, affecting the efficiency of the installation process.

5. Complications in Wire Crossing:

Wire crossing difficulties at various points introduced the risk of damage and signal interference.

Solutions Implemented:

IP 2MP Motorized Varifocal Bullet Cameras (42 Units):

• 42 units of high-resolution cameras with motorized varifocal lenses provided clear and detailed images.

• 32GB SD card slots facilitated local storage for backup and retrieval of footage inside the cameras.

Powerful Intrusion Detection System:

• Integrated a robust intrusion detection system to identify and alert authorities about unauthorized access.

Loss Prevention Alarm System (EAS Systems):

• Installed Electronic Article Surveillance (EAS) systems to prevent losses due to theft and alarms were triggered in case of suspicious activities, discouraging potential theft attempts.

Technology Solutions:

Cloud-Based Feature:

Leveraging cloud technology allowed for remote access to live feeds and recorded footage.

Lane Assist Technology:

• Implemented Lane Assist Technology for efficient monitoring of vehicular movements.

The Other Valuable Solutions Provided:

1. Outdoor Fiber Cable Deployment:
Objective: To provide reliable and high-speed connectivity for surveillance systems.

Solution: We implemented specialized long-distance wiring techniques, such as signal boosters and high-quality FIBER CABLES at each location point-to-point for reliable data transmission across the 12KM distance. between cameras and central monitoring.

2. Laying of 6-Core and 12-Core Cables:

Objective: To establish a robust cabling infrastructure to support data and power requirements.

Solution: We laid 6-core and 12-core cables, catering to different data and power needs across the surveillance network.

3. Use of Stay Wire for Fiber Cable Laying:

Objective: For stability and longevity of the fiber cable infrastructure.

Solution: We implemented stay wire and cable management systems during the fiber cable laying process, addressing cable crossing and fold-to-fold scenarios durability and prevent damage.

4. Industrial Standard Galvanized Poles with Foundations:

Objective: To provide stable and secure mounting for surveillance cameras.

Solution: We utilized specialized drilling equipment and techniques and erected industrial standard 6m galvanized poles with Silver Paint for proper foundations to support the weight of bullet cameras.

5. 2-Core Power Cables with MCB Module Sockets:

Objective: To supply reliable power to surveillance cameras at each location.

Solution: We deployed 2-core power cables with 5 AMPS MCB (Miniature Circuit Breaker) module sockets.

Project Outcome:

- Alarms were triggered in case of suspicious activities, discouraging potential theft attempts.
- Improved traffic management and assisted in tracking vehicles within the designated lanes.
- The deployment of advanced cameras with AI-based features and the integration of fiber optics for connectivity resulted in a comprehensive security system.

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Location:-
7-1-621/259, V Floor, Sahithi Arcade,
Beside S R Nagar Police Station,
S R Nagar, Hyd-500 038.

9885888835, 9581234499
www.brihaspathi.com