

## AI-Powered Explosion-Proof CCTV Surveillance Solutions

By Jiach Energy Solutions Private Limited

100% Made in India | Certified Industrial Safety Solutions

In high-risk industrial environments, traditional monitoring is no longer sufficient. Today's industries demand **intelligent, real-time surveillance systems** that not only monitor but actively detect, alert, and prevent incidents before they escalate. STQC ER-01 certification ensures CCTV systems meet India's safety and cybersecurity standards. **Authorized Partner -SPARSH CCTV.**

Jiach Energy Solutions has developed **AI-powered Software for explosion-proof CCTV systems** engineered specifically for hazardous and mission-critical environments, including:

- Oil & Gas Drilling Rigs
- Offshore Platforms
- Industrial Processing Plants
- Marine Vessels

### 4MP Explosion-Proof PTZ Camera

- Explosion-Proof Certified (ATEX & IECEx Compliant)
- Powerful Optical Zoom (30X / 42X Variants)
- Ultra Long-Range Night Vision (IR up to 250m)
- PTZ Control with 360° Pan & Auto Tracking
- IP68 Weatherproof + Stainless Steel (316L) + Cyber Security Certified



### 8MP Explosion-Proof Bullet Camera

- 8MP Ultra HD (4K) Resolution (1/1.8" CMOS Sensor)
- Explosion-Proof Certified (ATEX & IECEx Compliant)
- Long-Range Night Vision (IR up to 100m)
- Motorized Zoom Lens (2.7-13.5mm / Optional 6-22mm)
- Bi-directional Audio Support
- IP68 Weatherproof & IK10 Vandal Proof + Stainless Steel (316L) + Cyber Security Certified



### Industrial-Grade Hardware

Engineered for durability and performance in extreme conditions:

- Explosion-Proof IP Cameras (Dome, Bullet, PTZ)
- Fixed & Varifocal Lens Options
- Explosion-Proof Monitors (15" / 17" / 19")
- Industrial POE Switches
- Rugged Network Video Recorders (NVRs)
- Flameproof & Dustproof Enclosures
- Marine-Grade Armoured Fiber Optics

### Advanced AI Video Analytics



Our solution goes far beyond conventional surveillance by integrating cutting-edge AI capabilities:

- Facial Recognition
- Weapon Detection

- Line Crossing Alerts
  - Fire & Smoke Detection
  - Fall Detection
- ...and more, tailored to your operational needs.

### Certifications & Compliance

Built to perform in hazardous environments, our systems meet stringent global standards:

- STQC & BIS Certified
- IECEx Certified
- ATEX Certified
- PESO Approved
- Intrinsically Safe System Design

### Key Features

- High-definition monitoring of critical zones (rig floor, substructure, mud pumps, engine areas)
- Day/Night Vision with IR illumination
- 24x7 Continuous Monitoring & Recording
- Remote Access via LAN / Wi-Fi / 5G
- Secure Data Storage & Backup