

Real-Time Wireless CCTV Surveillance Solutions

Enhances Security of
GAIL's Natural Gas
Transmission Pipeline

CONNECTING YOUR WORLD

Introduction

Gas Authority of India Limited (GAIL), India's leading natural gas transmission company, needed a dependable wireless solution to enable CCTV surveillance for their pipeline running across Himachal Pradesh and Uttar Pradesh. Wavesight partnered with Tech SIS to deploy wireless transmission equipment connecting 35 remote camera locations to control rooms, addressing connectivity challenges in areas lacking fiber infrastructure.

Challenge

GAIL's pipeline infrastructure covered remote and challenging terrain, where traditional fiber optic connections were unavailable or posed significant deployment difficulties. This created security gaps in pipeline monitoring. GAIL required a reliable wireless approach to securely transmit CCTV video feeds from remote installation points to centralized control rooms for effective surveillance.

Solution

Wavesight deployed advanced wireless radios to establish secure transmission paths from cameras positioned at 35 remote locations along the pipeline to control facilities. The system integrated smoothly with existing CCTV infrastructure, managed by Tech SIS, ensuring continuous and secure video feed delivery necessary for pipeline asset protection.

Results

The wireless transmission setup successfully overcame communication hurdles across challenging terrains, enabling seamless CCTV monitoring throughout the pipeline network. This cost-effective wireless alternative mitigated reliance on fiber deployment, enhanced overall pipeline security, and established a scalable network foundation for future surveillance expansion.