

Wireless Last-Mile Transmission

Secures **Western Coalfields** Assets in Central India



CONNECTING YOUR WORLD

Introduction

Wavesight has extended its industrial wireless transmission technology to the Western Coalfields (a subsidiary of Coal India) in Central India. In collaboration with Bangalore-based systems integrator Mro-Tek, Wavesight deployed advanced wireless radios to deliver consistent, reliable last-mile connectivity, enabling Western Coalfields to connect and protect their on-site assets cost-effectively.

Challenge

- Provide secure, uninterrupted data transmission for monitoring equipment and CCTV feeds across a dispersed mining site.
- Overcome the logistical and financial hurdles of laying fiber optic cabling in remote and rugged terrain.
- Ensure a scalable and resilient network capable of withstanding environmental and operational interference.

Solution:

- Installed Wavesight's high-performance wireless radios to establish secure last-mile links between critical asset locations and central monitoring points.
- Mro-Tek managed system integration, ensuring seamless compatibility with Western Coalfields' existing monitoring infrastructure.
- Engineered the network for low latency, high reliability, and ease of expansion to support future monitoring requirements.

Results

- Western Coalfields now enjoys dependable last-mile connectivity for asset monitoring with minimal maintenance demands.
- Eliminated costly fiber deployments, significantly reducing installation time and expenses.
- Established a flexible wireless framework that supports future site expansions and strengthens overall operational security.