

Blast Env AI

Blast Green. Mine Responsible.

 Web + IoT  AMW Mining & Allied Services  amwmining.in

Blast Env AI provides AI-driven environmental monitoring for blast operations — predicting vibration levels, air overpressure, dust dispersion patterns, and ensuring real-time compliance with environmental regulations.

The Challenge

Mining blasts generate vibration, noise, dust, and flyrock that affect nearby communities and ecosystems. Manual monitoring is reactive, inconsistent, and insufficient for regulatory compliance.

Our Solution

Blast Env AI predicts and monitors environmental impacts in real time, ensuring every blast stays within regulatory limits.

Key Features

Purpose-built capabilities for the mining industry



Vibration Prediction

ML models trained on site-specific data predict peak particle velocity (PPV) before each blast.



Air Overpressure

Blast noise and air blast pressure forecasting with community impact zone mapping.



Dust Dispersion

Wind-based dust plume modeling with particulate matter concentration predictions.



Compliance Alerts

Real-time alerts when any parameter approaches or exceeds regulatory limits (PPV, PM10, noise dB).



Historical Analytics

Trend analysis of environmental parameters across shifts, seasons, and blast types.



Regulatory Reporting

Auto-generated environmental compliance reports formatted for Pollution Control Board submissions.



Impact & Results

Measurable outcomes from real mining operations

Zero

Regulatory violations

Pre-blast

Impact prediction

Real-time

Community safety

Automated

PCB reporting

Ideal For

- ✓ Mines near habitations
- ✓ Environmentally sensitive zones
- ✓ Coal India operations
- ✓ Projects with strict EC conditions

**Ready to Transform Your Mining
Operations?**

Contact us for a live demo and see how Blast Env AI can work for your mine.

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