MineWise Operational Report

Daily Report • Today

Generated at: 12 Des 2025, 12.03

1. Executive Summary

This section summarizes production performance, weather impact, equipment availability, road conditions, and key operational risks for the selected period.

Snapshot:
• Total Production : 12850 ton (Target: 15000 ton)
• Achievement (%) : 85.7%
• Avg Production / Day : 1850 ton/day
• Active Excavators : 9
• Active Dump Trucks : 8
• Weather Highlight : 45.8 mm (Heavy) (Temp: 24.1°C – 28.9°C)
• Road Status Highlight : Slippery (Friction: 0.32, Alert: High Risk Alert)

AI Summary:
• Produksi menurun 14.3% dari target.
• Cuaca ekstrem berpotensi menghambat hauling.
• Road B menyebabkan bottleneck pada haul fleet.
• AI menyarankan maintenance shift penyesuaian.

Key Performance Indicators (KPI)

Metric	Value
Total Production	12850 ton (Target 15000 ton)
Achievement %	85.7%
Active Excavators	9
Active Dump Trucks	8

2. Operational Overview

Overview of overall mine production compared to target, including cumulative tonnage, average daily output, and high-level efficiency indicators.

3. Weather Analysis

Parameter	Value
Location	PIT A
Rainfall / Probability	45.8 mm (Heavy)
Temperature	24.1°C – 28.9°C
Humidity	82%
Wind Speed	18 km/h
Visibility	1.2 km
Extreme Flag	Yes
Updated	July 8, 2025

Weather Risk

Field	Value
Score	79
Title	High weather-related danger
Description	High risk of weather-related delays detected.

4. Equipment Status

Condition Summary

Condition	Units
Excellent	31
Good	37
Maintenance Required	17
Slightly Damaged	12
Severely Damaged	8

Fleet Overview

Type	Active	Maintenance	Idle
Excavator	9	2	3
Dozer	5	1	1
Truck	8	3	2
Wheel Loader	10	2	5
Grader	7	0	4

5. Road Conditions

Haul Road Overview (Dashboard)

Road	Status	Speed	Friction	Water
Road A	Normal	22 km/h	0.45	0 cm
Road B	Waspada	12 km/h	0.35	5 cm
Road C	Banjir	8 km/h	0.21	17 cm

6. AI Recommendations

• **Scenario 1 - Most Recommended**
Reallocate 3 excavators and 3 dump trucks from PIT B to PIT A to improve production balance. This additional fleet helps PIT A accelerate its current workload and minimize potential delays.

• **Scenario 2**
Set hauling for Road B for one day to lessen friction index and increased slip risk. Rerouting through Road A will maintain safer hauling operations with minimal impact on travel time.

• **Scenario 3**
Scenario 3 is an “over-plan” to anticipate the upcoming rainfall. The excess rainy loading and hauling activities

are compensated to achieve better material processing.

7. Scenario Analysis

Baseline Scenario

Impact:
• Production Change: 78%
• Cost Efficiency: 71%
• Risk Level: 60%

Optimized Scenario

Impact:
• Production Change: 92%
• Cost Efficiency: 89%
• Risk Level: 45%

Conservative Scenario

Impact:
• Production Change: 68%
• Cost Efficiency: 76%
• Risk Level: 35%

8. Risk Assessment

Weather-related Risk

Field	Value
Score	79
Title	High weather-related danger
Description	High risk of weather-related delays detected.