

# MineWise Operational Report

Custom Report • Current Period

Generated at: 11 Des 2025, 19.47

## 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

### Scenario 1 - Most Recommended

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## 8. Risk Assessment

### Weather-related Risk

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

## **Operator Notes**

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