Full Scope Document for Mine Operations Dashboard

Project: Mine Operations Data Dashboard

Client: Mine Acres

Prepared for:

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1. Objective

Develop a comprehensive, real-time Mine Operations Dashboard that integrates production, processing, engineering, and financial data from all mining activities.

The system will track performance and expenditure across departments, differentiate between Mine Acres production and contractor-mined ore, and display financial outcomes per milling and leaching cycle.

The goal is to enhance transparency, improve accountability, and support data-driven management decisions.

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2. Dashboard Structure & Data Sections

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A. Mining Section

Design: Visual KPI cards + data tables for daily and monthly summaries.

Data Inputs:

Name of Claim: Active shaft or location (e.g., Cowslip 37, Cowslip37B, Cowslip 37A,Cowslip15, Comedy SW14 ).

Type of Production:

Mine Acres Ore – mined by in-house teams.

Contractor Ore – mined by independent contractors (tracked separately).

Explosives & Diesel Used: Quantities per day or shift.

Tonnage Hoisted:

Ore (Mine Acres)

Ore (Contractors)

Waste Material

Tonnage Hauled: Total hauled from shaft to stockpile or plant.

Visuals:

Ore/waste ratio chart.

Daily/weekly production trend lines.

Comparative chart: Mine Acres vs Contractor output.

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B. Milling Plant Section

Design: Shift-based layout with efficiency and downtime visualization.

Data Inputs:

Tonnage Received: Ore delivered to the mill, separated by source (Mine Acres / Contractor).

Tonnage Milled per Shift: Throughput by day/night shift.

Machine Downtime Details: Duration, cause, affected machine, and remarks.

Visuals:

Shift output graph.

Downtime breakdown chart (by reason or duration).

Mill performance gauge (% of target achieved).

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C. Leaching Plant Section

Design: Process-based dashboard for recovery and reagent usage.

Data Inputs:

Tonnage of Sands Loaded: Quantity per vat or cycle.

Chemicals Used: Cyanide and caustic soda consumption (kg or L).

pH and Cyanide Strength Tests: Daily test records.

Lab Results: Boiler carbon sample assay results (g/t or ppm).

Visuals:

Chemical consumption and test trend charts.

Recovery performance per batch or vat.

Comparison of leaching efficiency over time.

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D. Engineering Section

Design: Maintenance and inventory monitoring.

Data Inputs:

Service Records: Machine service logs, dates, and remarks.

Stock in Hand: Spare parts, lubricants, and consumables with re-order thresholds.

Visuals:

Maintenance schedule calendar.

Stock level bars with low-stock alerts.

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E. Financials Section

Design: Integrated financial dashboard linking production and sales.

Data Inputs:

Gold Disposed:

Gold recovered and sold per milling cycle.

Gold recovered and sold per leaching cycle.

Cash Received After Bullion Disposal: Net proceeds from gold sales after refinery or buyer deductions.

Contractor Sales:

Contractor gross sales.

Contractor expense deductions.

Mine Acres Share (30%) automatically calculated and displayed.

Mine Acres Own Production Revenue: Direct gold sales from in-house ore.

Petty Cash Section:

Daily expenditure logs (fuel, food, small parts, repairs, etc.)

Balance tracking and running total.

Visuals:

Cycle-based gold sales trend.

Revenue split chart: Mine Acres vs Contractor contributions.

Petty cash ledger with daily expenditure summary.

Monthly financial summary card (Total Income, Expenses, Net Cash Flow).