ROCKFALL PROTECTION AMMAN MINERAL NUSA TENGGARA
SUMBAWA BARAT, NUSA TENGGARA BARAT, INDONESIA

Dynamic Barriers

Problem

A mining site faced a significant safety challenge due to extremely high and steep rock slopes. Initially, Shotcrete and Rockbolt were used for slope protection, but the shotcrete equipment was unable to reach the upper sections of the slope. As a result, these areas remained vulnerable to rockfalls, posing a serious risk to the safety of workers and vehicles below. This area is a crucial operational zone with high traffic, making rockfall protection essential. Without an effective solution, falling rocks could lead to accidents, equipment damage, and operational disruptions.

Solution

To mitigate this risk, the Rockfall Barrier system was selected as an effective protection solution. Unlike shotcrete, this system could be installed on the first and second slope levels without requiring major modifications to the slope structure. The Rockfall Barrier intercepts falling rocks before they reach the operational area, significantly reducing accident risks. Additionally, this installation method remains feasible in terrains that are difficult to access with conventional methods. By implementing the Rockfall Barrier, the mining site successfully enhanced worker safety, ensured smooth operations, and created a more secure and controlled working environment without requiring complex structural interventions.

Client: PT Anggun Permai Tekindo
Designer / Consultant: Maccaferri Indonesia
Contractor: PT Anggun Permai Tekindo
Products used (Qty.)

- Rockfall Barriers 1750 m2
- HELLOMAC 1 unit

Date of construction: 09/2024 - 12/2024

Google Maps Google Earth


Before Construction


During Construction



Finished Construction

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