

HOLCIM BULACAN CEMENT PLANT NORZAGARAY, BULACAN, REGION III, PHILIPPINES

Simple Drapery

Problem

Holcim Philippines, the country's leading cement manufacturer, experienced rock fall problems in their cement plant located in Matictic, Norzagaray, Bulacan. In an incident, a portion of the plant's conveyor was hit by falling rocks that resulted to delay in production and very costly repair. The initial solution was to use shotcrete with rock anchors. However, due to high cost of shotcrete materials and its installation, Holcim opted to look for an alternative solution.

Solution

The solution proposed by Maccaferri, in coordination with the contractor, was to use a polymeric-coated double-twist rockfall net acting as a simple drapery system to prevent rocks from damaging the conveyor. A simple drapery system features panels of mesh netting anchored securely on top of the slope as well as onto the face of the rock slope where it aimed to restrict movement of detached rocks and to guide the detached rocks downslope without unnecessary damage to the nearby structure. Holcim approved the design because of its cost effectiveness and ease of installation within the limited time frame.

The contractor was able to construct the simple drapery system for a 150 meters long section of rock slope within 15 working days.

Client: Holcim (Philippines), Inc.

Designer / Consultant: Pearl & Jade Construction and Development

Contractor: Pearl & Jade Construction and Development

Products used (Qty.)

- Steelgrid 12,975 sq.m.

Date of construction: 05/2007 - 11/2007



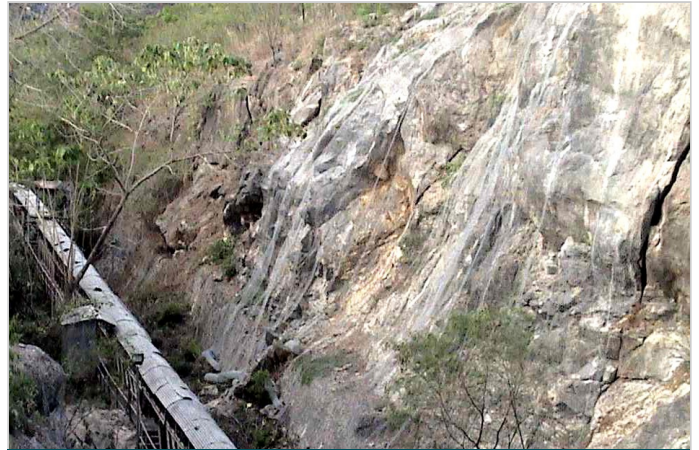
Before Installation



During Construction



Near Completion



Near Completion



Project Completed



Project Completed