MACCAFERRI

CASE HISTORY

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ROCKFALL PROTECTION AT SIMPANG PULAI, PERAK, MALAYSIA

SIMPANG PULAI, PERAK, MALAYSIA

Dynamic Barriers

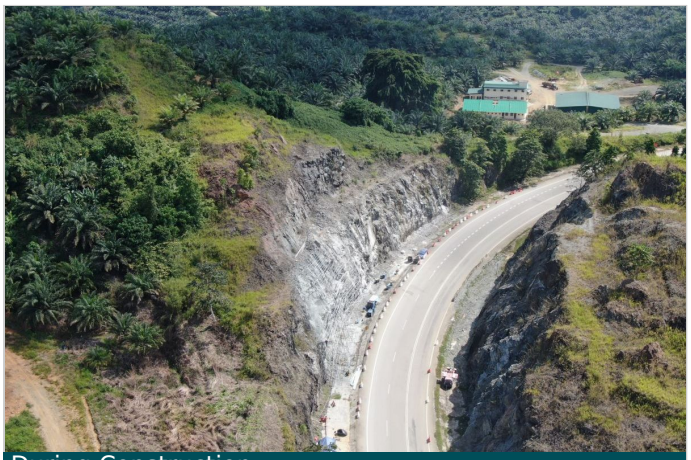
Problem

Several rockfall incidents were reported along the road between Simpang Pulai and Cameron Highland. Based on the geohazard assessment, four locations were identified as high hazard, hence requires rockfall intervention measures. Pintas Utama Sdn Bhd approached Maccaferri to assist in the selection of rockfall protection structures.

Solution

Based on the rockfall trajectory analysis, the design energy level required is 2000 kJ. Flexible barrier with post height of 4m in installed over 500m span. The work completed within 6 months. Maccaferri flexible barrier achieved Category A of ETAG27 category, which is the best performance when it comes to residual height after impact. In addition to the performance, the barrier kit is easy to be installed and it makes it ideal for use at location with restricted access.
In addition, simple drapery system using Maccaferri Steel Grid High Resistance (SG HR) netting were placed on the bottom half of the rock slope. SG HR steel composite system combined double twisted mesh with interwoven high strength steel vertical rope to enhance the transfer of the load into the anchorage system. The draped mesh is hung freely from a support cable along the crest, pinned with anchors. The overall component was sized using MacRO 2, according to required debris volume allowed during the service life.

Client: PINTAS UTAMA
Designer / Consultant: PINTAS UTAMA
Contractor: PINTAS UTAMA
Products used (Qty.)
Date of construction: 01/2021 - 05/2021
Google Maps Google Earth


During Construction


During Construction

After Construction

After Construction

After Construction

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