

LANDSLIDE REHABILITATION MAKALE-PALOPO ROAD PALOPO, SOUTH SULAWESI, INDONESIA

Reinforced Soil Walls and Slope Reinforcement

Problem

On November 8, 2009 a landslide disaster occurred and destroyed road between Tana Toraja (Tator) and Palopo City in South Sulawesi. The road was cut off and completely not function. The landslide is caused by residual soil layer above andesite layer which is pretty steep and also by saturation condition which is occurred by a heavy rainfall. The height of landslide is varies between 7 to 21 m and with slopes between 60 - 80 degrees. Therefore a comprehensive solution is needed to solve the problems of retaining wall structure.

Solution

The subgrade consists of andesit with limited and isolated area, so it is not possible for heavy equipments to do pilling work. A structure with permeable characteristic is also needed to keep the water flowing. Maccaferri Terramesh System as a flexible structure can provide solution for the problems. The landslide can be reconstructed with reinforced embankment structure. Considering its easy and simple installation, Maccaferri Terramesh System can be constructed with another structure, such as culvert box or pipe and also can be used for emergency or for post-disaster reconstruction.

Client: MINISTRY OF PUBLIC WORKS

Designer / Consultant: CORE TEAM, P2JJ

Contractor: PRIBUMI SAWERIGADING

Products used (Qty.)

- Terramesh

N/A

Date of construction: 01/2001 - 03/2001



Site condition after the landslide



Construction progress



Finished construction