

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

#### SOIL REINFORCEMENT

**Product:** GABION, TERRAMESH SYSTEM

#### 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 broken 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 high rainfall. The height of landslide is varies between 7 to 21 m and with slopes between  $60^{\circ}$  -  $80^{\circ}$ . Therefore a comprehensive solution is needed to solve the problems of retaining wall structure.

#### Solution

The subgrade consists of andesite with limited and isolated area, so it is not possible for heavy equipments to do pilling or boring 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.

SECTION 366+200



Before construction



During construction



End of construction

Client:

MINISTRY OF PUBLIC WORK

Main contractor:

PRIBUMI SAWERIGADING

Consultant:

CORE TEAM, P2JJ

Products used:

GABION, TERRAMESH SYSTEM

Date of construction:

OCTOBER 2010

SECTION 366+100



Before construction

SECTION 365+950



Before construction



During construction



During construction



During construction



End of construction

## SECTION 365+925



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