

## COMBINATION OF MSE WALL & EROSION CONTROL FOR LANDSLIDE MANAGEMENT CIANJUR, WEST JAVA, INDONESIA

Reinforced Soil Walls and Slope Reinforcement

## **Problem**

The earthquake that occurred in November 2022 with a magnitude of 5.6 on the Richter scale, which struck the city of Cianjur and its surrounding areas, resulted in landslides in several regions. As a result of these landslides, several road access points were severed, leading to hundreds of casualties. Immediate action is needed to address the impacts of this issue. The solution of the MSE Wall and erosion control from Maccaferri Indonesia was chosen to address the landslide problem as well as the erosion control in an area covering 43,920 square meters.

## Solution

Maccaferri Indonesia recommends a combination of solutions involving MSE Wall and erosion control using Terramesh as a reinforcement and MacMat that functions as a cover for the landslide area to promote vegetation growth. To address erosion in the area affected by the landslide, a combination of HDPE geomat and double-twisted wire mesh panels with high tensile strength longitudinal steel wires, known as Macmat HS, is used. A series of seed-containing mulch is then applied to Macmat HS to promote vegetation growth. Vegetation will restore the environment as part of the rehabilitation process. Available in roll form, Macmat HS is easy to install with T-shaped deformable stakes to secure the mesh on sloped surfaces. Maccaferri's Erosion Control System offers several advantages, such as easy and fast installation, surface drainage, vegetation support for rehabilitation, compatibility with Soil Nailing, and suitability for steep slopes.

**Client: BRANTAS ABIPRAYA** 

Designer / Consultant: PT BUANA ENJINIRING

**KONSULTAN** 

**Contractor: BRANTAS ABIPRAYA** 

Products used (Qty.)

Terramesh
 Gabions
 Macmat
 Macmat Hs
 500 units
 300 units
 33540 sqm
 10380 sqm

**Date of construction:** 02/2023 - 08/2023

Google Maps Google Earth





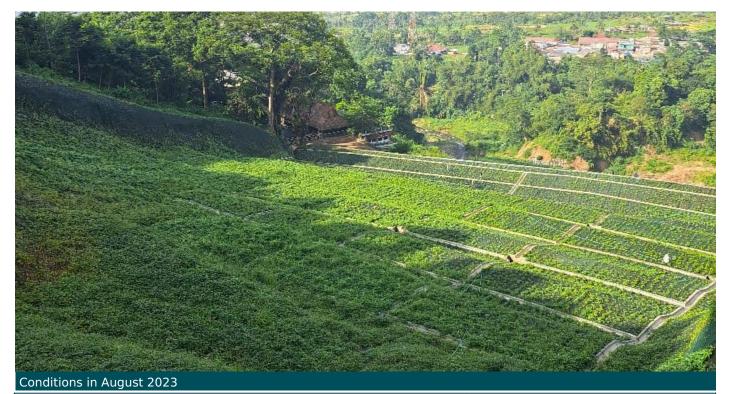
## MACCAFERRI











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