

## PARAMESH WALL FOR BAJO - MALAWATAR ROAD SEGMENT LABUAN BAJO, EAST NUSA TENGGARA, INDONESIA

### Reinforced Soil Walls and Slope Reinforcement

#### Problem

The Road, which is the main access connecting Bajo and Malawatar District, has a length of approximately 60 km. There was one section of the road with a length of 72m where the Landslide occurred in October 2022. Several cracks appeared on the roadside which indicate the failure zone. Thus, immediate handling shall be done, considering that the road will always be active for public mobilization and daily activities. The Retaining Wall was chosen as a solution for the case. Maccaferri Indonesia recommended the solution of a Mechanically Stabilized Earth Wall using Paramesh System.

#### Solution

The Retaining Wall Structure for Bajo - Malawatar Road Segment is constructed using Paramesh System with a height of 8.5m, consisting of a Terramesh System as the facing and secondary reinforcement, which is then combined with Paragrid HF 150 - geogrid with a tensile strength of 150 kN/m - with the length of 7m as the primary reinforcement of the structure. Maccaferri Indonesia proposed to use the Polimac Coated Wire for the Terramesh System as protection against corrosion, abrasion, and UV exposure. The usage of this material proved to be more effective and efficient in terms of construction time and cost. All the stability checks of the structures were performed using the internally developed software of Maccaferri (MacStars). Furthermore, Maccaferri provided the client with Product Assistant in order to ensure The Obligated Standard Procedures were followed.

**Client:** DINAS PU KAB. MANGGARAI BARAT

**Designer / Consultant:** PT. INTI KARYA JAYA PERKASA

**Contractor:** PT. INTI KARYA JAYA PERKASA

**Products used (Qty.)**

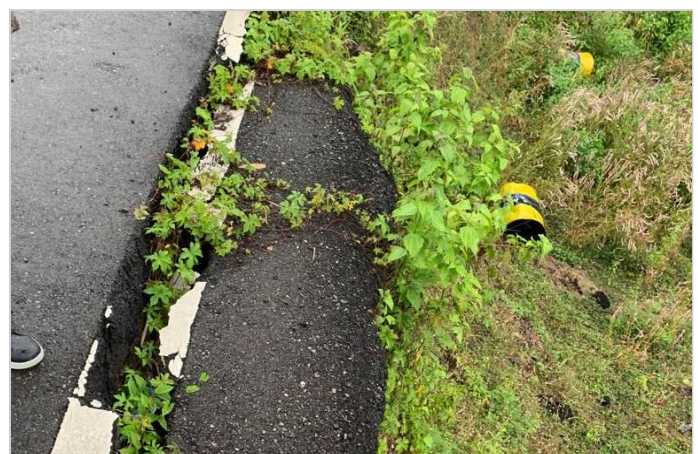
**Date of construction:** 11/2022 - 12/2022

[Google Maps](#)

[Google Earth](#)



Before Construction



Before Construction

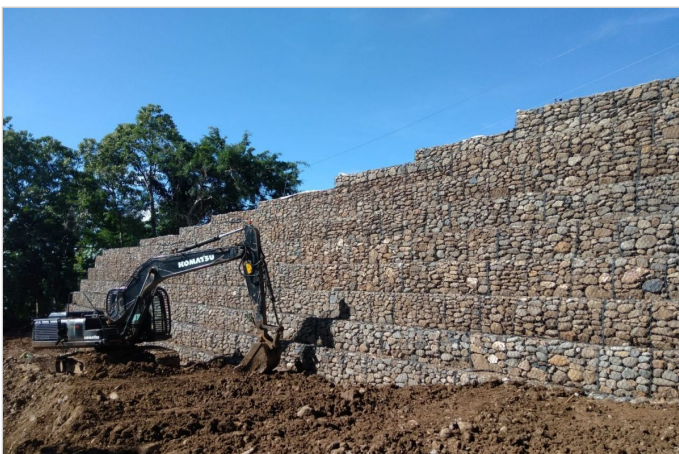




Paramesh Wall Installation



Paramesh Wall Installation



Finish Construction



After Construction

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