

ARMOUR ROCK WITH MACTEX GEOTEXTILE CAVITE, PHILIPPINES

SHORELINE & OFFSHORE PROTECTION— CAVITE COASTAL ROAD—R1 EXPRESSWAY EXTENSION PROJECT

Product: Maccaferri MacTex MXC 90

Problem

UEM - MARA, THE No. 14th Metallurgical Construction Company of China National Nonferrous Metal Industry (MCC), one of the largest engineering and development companies in China, is constructing a 7.0 Kilometer 4.0 lane toll road (R1 Extension), which will extend the existing Coastal Road (R1 Expressway) from Zapote, Alabang to Kawit Cavite.

The embankment slope of the Coastal Road was protected by Armor Rock Protection to resist on Erosion and scouring of the embankment.

The worry of the implementing office, the consultant and the contractor is the potential for bank failure cause by migration and hydraulic leaching of soil particles thru the armor rock protection due to hydrostatic forces.

Solution

Taking into consideration the of size of the Armor Rocks (larger than the boulder standard size) to be used, that is directly place on the fabric, the Implementing Office (DPWH), the consultant (Katahira), the contractor (UEM-Mara Philippines Co.) in coordination with Philippine Gabions Inc., agreed that the **Maccaferri MacTex MXC 90** is the right filter fabric to eliminate the potential embankment slope failure cause by migration and hydraulic leaching of soil particles thru the armor rock protection due to hydrostatic pressure.



During Construction

Date : May 2007

Owner:

UE MARA

Main contractor name:

RON DANIELS CONSTRUCTION

Consultant:

KATAHIRA

Product used:

150,000 SQUARE METER - MXC 90 geotextile

Construction info:

Construction Date : March 2007

Completion Date : November 2008



During Construction

Date : Aug 2007

MACCAFERRI



Project Completed

Date: December 2007



Near Completion

Date: December 2007

Maccaferri Asia

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