

CAP MALHEUREUX CEMETERY SEA WALL
CAP MALHEUREUX, MAURITIUS

SHORELINE & OFFSHORE PROTECTION / SHORELINE PROTECTION

Product: Gabions

Problem

Wave action was eroding the sand dune bordering the Cap Malheureux Cemetery. A method of containing the cemetery, and preventing the wash-away of human remains, was required.

A retaining system was needed which could withstand the occasional cyclonic conditions, and also retain the sand to a maximum height of 5,8m.

Solution

A gabion revetment was constructed using 2x1x0,5 PVC coated gabions.

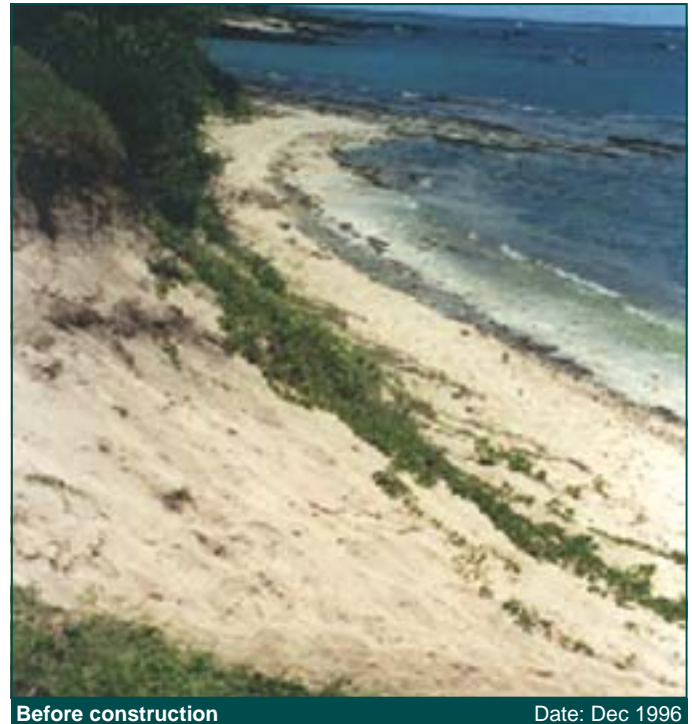
The first 4 rows of the wall (2m high) were laid in HEADER fashion to absorb the vertical impact of waves during cyclonic conditions.

The upper layers were laid in STRETCHER BOND fashion. A geotextile filter fabric was placed behind the gabions.

Benefits

The use of geotextile allows for the flow of ground water, without the migration of fines, through the structure. This alleviated any possible pore water pressure problems.

One feature in this project was a large fig tree at the southern end of the site which was in danger of collapsing due to undermining. The flexibility of gabions allowed for the revetment structure to be built around the tree, saving the tree and preserving the natural environment.



Client name:

MINISTRY OF ENVIRONMENT (MAURITIUS)

Main contractor name:

CLIENT

Consultant:

MACCAFERRI / AFRICAN GABIONS

Product used:

GABIONS

Construction info:

Construction date: FEBRUARY 1997

Completion date: APRIL 1997

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