

PROJECT MANAGEMENT

Project Management

International

Ada Coastal Protection Works: URGENT MEASURES

Client: Government of Ghana
Location: Ada Foah, Ghana
Period: January 2010 – Present

Ada Coastal Protection Works: URGENT MEASURES

The coastal town of Ada Foah, located 100km East of Accra, at the point where the Volta river flows into the Atlantic ocean, is experiencing severe coastal erosion of between of 4 – 7m/year. The local population and Ada village are under threat due to the eroding coastline. There has been a loss of land and infrastructure, with the resultant negative impact on agricultural potential and possible infrastructure development. The Government of Ghana has requested PMI in cooperation with International Marine and Dredging Company to design and manage the construction of a coastal defence system.

The Works

The main work items are the following:

- Investigations
- Design
- Physical Modelling
- Construction
- Management & Supervision

Investigations

Investigations to collect data have been done to validate and use as input for the design. The investigations included a topo- , bathymetric survey, through tide



measurements, long term measurements and a study of the beach materials.

Design

The design effort consist of the following:

- Wave Modelling
- Hydrodynamic Modelling
- Morphological modelling

Physical Modelling

The hydrological stability of the design will be tested with a physical model. Two groyne will be constructed and tested with extreme waves and long periods. The design will be optimized during this phase.

Construction

The construction period is 24 months. The start of construction is scheduled for March 2011.

Management and Supervision

PMI is responsible for the management and supervision of the project during construction.

