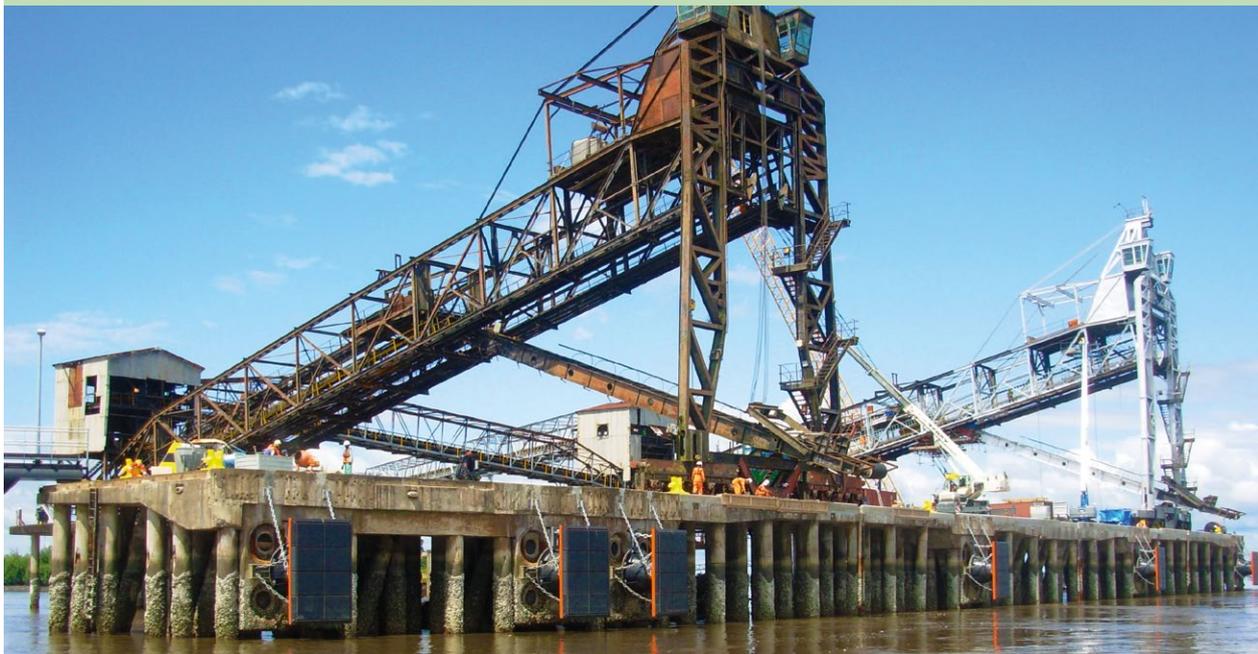


Jetty and Navigation Aid Structures, Pepel, Sierra Leone

BAM International's client for this project, African Minerals Ltd., has invested heavily in the exploitation of its Tonkolili iron ore deposit. As part of the rehabilitation of their loading facility in Pepel, BAM International has renovated the existing jetty, and extended it with two mooring dolphins, upgrading it to receive large modern-day vessels. In addition, a string of navigation aids were placed along the Sierra Leone river, to facilitate ship movements by day and by night.

Special equipment included BAM's own crane barge Marlin to drive the 63-metre-long piles along the 25-kilometre-long ship channel from Pepel to the Atlantic Ocean.



Location

Port of Pepel, near Freetown, Sierra Leone

Client

AML, African Minerals Ltd

Contractor

BAM International in joint venture with Stefanutti Stocks

Contract period

May 2011 - January 2012

Contract sum

€17 million

'Early return on investment for client, due to early completion.'

Scope of work

Construction and installation of 37 navigation aid structures and two mooring dolphins as well as the refurbishing of an existing jetty. Approximately 50 years of age, this jetty needed renewal of its bollards, quick release hooks and fender system. The BAM International/ Stefanutti Stocks joint venture provided access to the new mooring dolphins with two new walkways from the main jetty. For the navigation aids, 63-metre-long piles with a diameter of 914 mm were driven along the 25-kilometre-long ship channel from Pepel to the Atlantic Ocean.

The first part of the project focused on the existing jetty, which is now ready to receive 60,000-ton ships. The final activities concentrated on the navigation aids, which consist of 37 piles and platforms along the fairways in the wide Sierra Leone river.



Platform mooring dolphin west placed into position on the piles



Installation of the first walkway from the jetty to the new mooring dolphin

Appreciation

The team's handling of the project was much appreciated by the client. Not only because of the speedy completion, they also valued the quality and our approach to safety.

BAM's crane barge Marlin

The Marlin played a crucial role in the piling for this project. The barge is fitted out with a 300-tonne Manitowoc Ringer crane. It has seen further action in Australia and Bangladesh and was then deployed for many years by BAM Nuttall on piling projects in England, Scotland and Ireland. In the Netherlands the Marlin has been piling for the construction of the storm surge barrier in Hook of Holland, an High-Speed-Rail-Link bridge and the LNG terminal for GATE at the Maasvlakte, part of the Harbour of Rotterdam.

Start of the piling from barge Marlin

