Design and construct of a quay wall for Limbe Shipyard, approximately 80 kilometres north of Douala, Cameroon’s main commercial city.

The project comprised the construction of a 320-metre long quay wall, using 55-tons rectangular concrete blocks on a concrete underwater foundation. In a water depth of twelve to eighteen metres a total number of 1,369 blocks have been installed.

In 2007 BAM International already completed the design and construction of the 700-metre long breakwater to shelter the Limbe Shipyard from the Atlantic Ocean waves.

‘Second project for BAM at Limbe Shipyard’
Prefab concrete elements (blocks) produced on site and locally produced fill materials were key to the successful construction of the Limbe quay wall. With the complete production chain under BAM International’s control, very high quality with a very low failure rate could be achieved. The production chain included our own quarry operation and precast yard close to the work site. At peak days production reached 15 blocks a day.

With specially designed marine equipment such as a purpose built screed frame, an underwater concrete casting setup and a RTK GPS system, a very accurate foundation was constructed after dredging up to the weathered rock. On top of this foundation blocks were placed, with a maximum of 45 blocks a day.

The first 150 metres were already completed in July 2014, which CNIC started using immediately. Limbe Shipyard is fully operational as of 1 November 2014, which gives the region’s economy a huge boost.