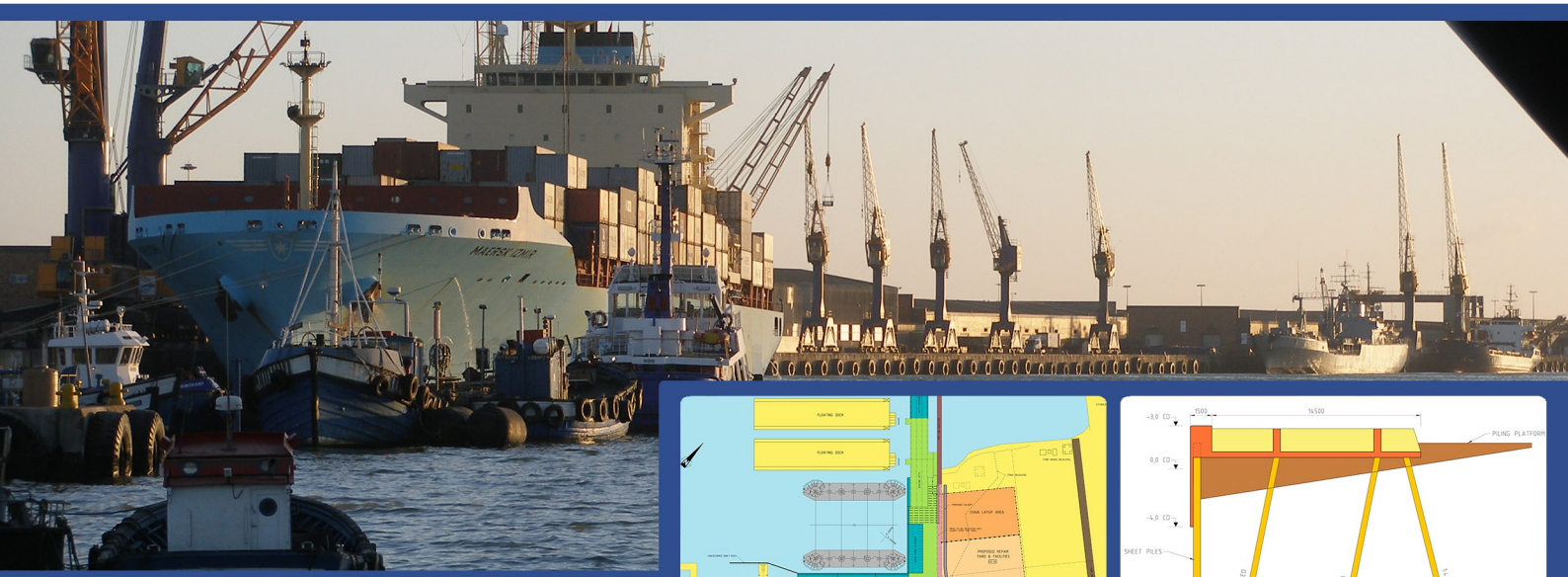

Elgin, Brown and Hammer (EBH) Namibia

Preliminary Design of Oil Rig Repair Quay: Port of Walvis Bay

Background

Project Value: NAM$200 000 000 | February – April 2010

Elgin, Brown and Hammer (EBH) Namibia approached RCE Consultants to assist them with the quay design for a Build, Operate and Transfer (BOT) tender.

The tender was for a proposed oil rig repair quay in the port of Walvis Bay.

Key Features

The objectives of the preliminary design performed by RCE were to:

- Determine the most cost efficient and structurally optimised quay wall design by analysing and performing preliminary design calculations on various quay wall alternatives;
- Determine the design and applicable user requirements from the major oil rig companies and operators regarding quay wall loading and quay furniture arrangements with the view of facilitating oil rigs to make use of the proposed rig repair quay;
- Investigate various construction alternatives and presenting them to the contractors in order to establish an optimised construction method and programme;
- Prepare bills of quantities (BOQ's) as to enable the contractors to prepare tender prices;
- Prepare the necessary preliminary plans and drawings to be submitted with the tender;
- Compile design report to be submitted with the tender.

Services Provided

The professional services provided by RCE included Structural Engineering, General Civil Engineering, and Cost Engineering.

This included BOQ's, plans and drawings as well as a Design Report.

Outcome

RCE Consultants provided EBH Namibia with a preliminary facility design, informed by potential user requirements, to assist in the tendering process for a Build, Operate and Transfer (BOT) tender for a proposed oil rig repair quay in the port of Walvis Bay. The preliminary design included BOQ's, preliminary plans and drawings as well as a Design Report.