

Offshore Causeway Due diligence

Design review of marine works

Abu Dhabi, UAE



Construction in progress – Abu Dhabi

Client: DIWI Consult (Emirates)

Services provided:

- site inspection of early works
- review of design requirements
- review of environmental conditions applied to design
- review of causeway design
- meetings with designer
- reporting

The Ministry of Transport in Abu Dhabi commissioned DIWI Consult (Emirates) to undertake a due diligence review of a new causeway and bridge to be built between the Ras Ghomeis and Gaga island. ENBE was appointed by DIWI to carry out design review of the coastal and marine engineering aspects of the project.

The review encompassed consideration both to the environmental conditions and the design of the causeway. Hence, it extended to a comprehensive review of:

- scope of design basis
- waves and sea level
- currents
- sediments and bed geology
- scour and sedimentation
- hydraulic performance of structures, e.g. overtopping
- slope protection system

The work itself comprised a site visit and inspection, review of design evidence, meetings with the designer, preparation of review statements and report on design to DIWI/ Ministry of Transport.