



**Country**  
Egypt

**Client**  
Marsa Alam Tourism  
Development

**Date**  
1999-2001

**Sogreah's services**

- ▶ Design outlines
- ▶ Preliminary design
- ▶ Detailed design
- ▶ Tender documents
- ▶ Assistance with contract procedures
- ▶ Works supervision



03/01 MFN

**Context**

The EMAK investment group has launched a major tourist development project including the provision of 90 000 beds over a 15 km stretch of the Red Sea coast, 200 km south of Hurghada. The scheme includes a variety of facilities and amenities such as an international airport, three 18-hole golf courses and a marina. The marina is designed with a capacity of 1000 moorings for yachts from 15 to 50 metres in length, and covers an area of 40 hectares. It also includes a ferry quay, a maintenance area with boat lift and two slipways.

For environmental reasons (conservation of the coral reef), the marina is located in the bed of a wadi and excavated from the surrounding land. In view of the natural shelter afforded by the site, no protective breakwater is needed.

**Sogreah's role**

Sogreah was commissioned to undertake the overall design studies of the maritime works for the marina and to provide works supervision services:

- ◆ Choice of site
- ◆ Design outlines in collaboration with the architects

- ◆ Preliminary design
- ◆ Detailed design including modelling of wave propagation, modelling of navigation conditions for the ferry and large private yachts, modelling of water recirculation (TELEMAC 3D)
- ◆ Tender documents
- ◆ Assistance with contract procedures
- ◆ Works supervision