



Oromieh Lake Bridge, Iran

Contract Period
2003-2005

Completion
Schedule 2007

Construction cost
NOK 100 mill

Services rendered

- Competition proposal in co-operation with NGI
- Preliminary Design
- Detailed design

Client
SADRA

The Oromieh Lake Crossing in Iran will mainly consist of embankments crossing the 15.4 km narrowest point in the 7500 km² large Oromieh Lake in the Iran highlands. At one location, a 1.4 km long bridge is planned. Aas-Jakobsen has on behalf of SADRA, in 2001-2002 performed concept studies and preliminary design for this bridge crossing for both railway and road traffic, one alternative with 4 road lanes and one railway line, and one alternative with 2 road lanes and one combined road and railway. The bridge consists of viaducts with typical span width 70 m and a main span of 100 m. Total bridge length is 1414 m. The main span is a self-anchored steel arch with two arches and a concrete deck. Railway traffic is routed between the arches and road traffic cantilevered outside. The viaducts are composite steel/concrete box girders. The bridge is supported on driven closed-end steel piles with 32" diameter (typically). Pile lengths vary but have a mean length of approximately 65 m. SADRA won this turn-key project 2002, and Aas-Jakobsen has performed the detailed design in the years 2003 – 2005.

