



## Country

Tunisia

## Client

Ministère de l'Agriculture, de l'Environnement et des Ressources Hydrauliques

## Date

2003-2007

## Sogreah's services

- ▶ Monitoring of works and commissioning of Kébir and Moula dams and transfer structures
- ▶ Kébir dam



## Background

The aim of the Kébir and Moula schemes is to create two reservoirs to enable water to be transferred to Sidi El Barrak reservoir. The dams are situated near the town of Tabarka. Kébir is 8 km to the south of the town on the wadi Kébir and Moula is on the wadi Bou Terfess, 2.2 km upstream of the point where the GP7 road crosses the wadi. The transfer scheme covers a distance of 30 km.

## Civil works

- ◆ Kébir dam:  
Type: zoned earthfill dam with core

Maximum height above excavations: 80 m  
Crest length: 560 m  
Volume of earthfill: 3.65 Mm<sup>3</sup>  
Volume of reservoir at maximum pool level: 64.4 Mm<sup>3</sup>  
Surface area of reservoir at maximum pool level: 301 ha

- ◆ Ancillary structures:
  - Flood spillway  
Type: ungated morning glory spillway  
Location: tower of upstream left-bank structure  
Sill length: 25 m  
Maximum discharge: 300 m<sup>3</sup>/s
  - Bottom outlet  
Location: upstream entrance of the upstream left-bank structure  
Gates: 1 guard gate, 2.00 m x 1.30 m, 1 encased gate, 1.60 m x 1.30 m  
Maximum discharge: 54 m<sup>3</sup>/s
  - Intake structure  
Type: intake tower  
Location: tower of upstream left-bank structure  
Number of sluices: 3  
Gates: 3 identical sliding gates, 1 butterfly gate, 1250 mm in diameter at downstream outlet  
Nominal discharge: 1.34 m<sup>3</sup>/s.
- ◆ Disposal of water: underground gallery