

HYDRO POWER PLANT MURATLI

Facts

City/Country
Muratli / Turkey

Client
Devlet Su Isleri (General Directorate of State Hydraulic Wor, Ankara

Contract Value
€59,00 Mio.

Construction Period
1/1999 - 1/2005 (72 months)

Project Description

The dam is located at the Coruh River, in the Lower Coruh Basin at the state border to the Republic of Georgia. Excavation, support and concrete lining of two road tunnels (lengths 235 m + 180 m), diversion tunnels (2 x 350 m) incl. valve chamber, grouting (injection). 4 galleries, total length approx. 500 m.

The dam consists of an earth embankment dam with an asphalt facing on the upstream side connected with a cut-off-wall below on the right bank of the river and concrete structures on the left bank area, integrating spillway and intake structure to the powerhouse.

Excavation and concrete of inlet and outlet structures.

Asphalt facing for main dam (approx. 18,000 m²), drilling and grouting works (37,500 m drilling, 1,250m³ grouting). Construction of a cut-off wall (approx. 10,500 m² with a maximum depth of 75 m).

Concrete of intake structure, penstock, switchyard, spillway, powerhouse and control buildings.

PROJECT DATA:

Earth dam with asphalt facing
Total volume of excavation 5,000,000 m³
Total volume of concrete 400,000 m³
Total volume of fill 2,000,000 m³

Catchment Area 19,748 km²
Mean annual flow at dam site 6.06 million m³
Reservoir total storage capacity 74.8 million m³
Reservoir surface area 4.115 million m²
Dam height 44 m / Dam crest length 438 m
Diversion capacity 1,725 m³/s
Annual energy generation 444 GWh / Installed capacity 115 MW

