

# Mavrokolymbos Dam

The Mavrokolymbos Dam is constructed on the Mavrokolymbos River at the profile which is about 5 km far from its estuary. The dam site is located near to the town of Ktima at the south-west part of the Cyprus. The water impounded in the storage reservoir of  $0.25 \times 10^6$  cu.m capacity is completely used for irrigation of 460 hectares of cultivated land.

The dam site area is made up of serpentine and other kinds of metamorphic rocks, predominantly of clayey shales. There are many old and new landslides within the storage reservoir area and its surroundings.

Unstability of slopes was the general characteristic appearing either at the smallest cuts and it was the greatest problem occurring during the construction of the dam itself and of the spillway and bottom outlet. Hence, due attention was paid to improve the characteristics of the area where the spillway has been constructed as well as those ones of the right bank of the storage reservoir particularly in front of the entrance to the bottom outlet.

The carried out observations and measurements of terrain displacements occurring at the greater or smaller distance from the dam indicated that certain slight displacements of terrain were recorded at the storage banks after filling up of the reservoir (1966), but the terrain was settled very soon. No any considerable deformations have been discovered at the dam or appurtenant structures which is obviously the result of proper measures foreseen (certain protection measures and construction of foundations) all in accordance with the designs.

