

**PROJECT TITLE**

Irrigation Networks of Florina Plain

**LOCATION**

Florina Prefecture, Northern Greece

**CLIENT**

Ministry of Infrastructures, Transports &amp; Networks - Special Directorate for Public Works / Road Tunnels &amp; Underground Projects (EYDE / OSYE)

**DESCRIPTION**

The scope of the contract includes the **design of works for the conveyance and distribution of irrigation water**, along with the **associated drainage and flood control works**, at the southern part of the Florina plain in Northwestern Greece. The **detailed scope** of the **hydraulic study** includes:

- 1) Final design of the irrigation networks for 4340 hectares of agricultural land, which will be supplied with water from the Triantafylia and Kolhiki dams and reservoirs, which are currently under construction.
- 2) Final design of the central conveyance pipeline (1600mm diameter).
- 3) Final design of drainage and flood control works of the irrigation area – final design of flood control and settlement works of parts of the nine streams of the greater irrigation area, including the use of computer models for the sizing of the works.
- 4) Final design of two reservoirs (with capacities of 300m<sup>3</sup> and 800m<sup>3</sup>) which will regulate irrigation water flows.
- 5) Design of optimization and control scheme for irrigation network.
- 6) Hydrological study.
- 7) Feasibility study.
- 8) Health & Safety study.
- 9) Preparation of Tender Documents.

The contract also includes the **structural design** of **two bridges** of **25m span** each and **two bridges** of **15m span** each, the **topographic surveys**, the **geological and geotechnical investigations and studies**, the **design of electrical/ mechanical works** (regulating valves, monitoring equipment, etc) and the **environmental impact assessment study**.

Services Include:

- 1) Final design of the irrigation networks
- 2) Final design of the central conveyance pipeline
- 3) Final design of drainage and flood control works – final design of flood control and settlement works of parts of the nine streams of the greater irrigation area, including the use of computer models
- 4) Final design of two reservoirs
- 5) Design of optimization and control scheme for irrigation network
- 6) Hydrological study
- 7) Feasibility study
- 8) Health & Safety study
- 9) Preparation of Tender Documents.