



Δεξαμενές χημικών ουσιών - Alum & lime tanks



Δεξαμενές επεξεργασίας νερού - Process line structures



Φυσικό-χημικό εργαστήριο - Physico-chemical laboratory

TERSEPHANOU WATER TREATMENT PLANT AND TERSEPHANOU-NICOSIA CONVEYOR

The Tersephanou Water Treatment Plant is located approximately 9 km west of Larnaca. The plant will be augmenting the water supply to the cities of Nicosia and Larnaca, the Government controlled area of Famagusta and a number of villages along the Tersephanou - Nicosia Conveyor.

The raw water flows to the plant by gravity from the Kouris reservoir through the Southern Conveyor main pipeline. The raw water is treated by pre-chlorination, aeration, coagulation, flocculation, clarification, filtration, post-chlorination and pH adjustment. Provisions have been made for the installation of an ozonization system in the future, in case the need arises. The nominal capacity of the plant is 60 000 m³/day with provision for extension to 90 000 m³/day. The plant includes the Tersephanou pumping station which pumps water to Dhali balancing reservoir wherefrom it flows by gravity to Lakatamia reservoir. It covers a total surface area of about 13 500 m² within a fenced area of 38 000 m².

The plant was designed and supervised by "Energoprojekt Hidroinzenjering" of Yugoslavia. The civil works were constructed by "Iacovou Brothers (Constructions) Ltd". The supply and installation of electromechanical equipment for the treatment plant was undertaken by "Sigma Engineering", of Czech Republic, having "A&B (G. Vassiliou) Ltd" as their erection sub-contractor. The supply and installation of electromechanical equipment for the Tersephanou pumping station was executed by "Caramondani Brothers Ltd".

The laying of the 37 km long, 900 mm diameter ductile iron, Tersephanou - Nicosia Conveyor of 900 l/s capacity, as well as the construction of the 12 000 m³ Dhali Balancing Reservoir, was undertaken by "Joannou & Paraskevaides Ltd".

The total cost of the treatment plant and the conveyor is expected to be about CY£20 million. The European Investment Bank and the Kuwait Fund for Arab Economic Development granted loans totalling 60% of the total cost of the project.

As from May 1998, water from Dhekelia Desalination Plant is also conveyed to Nicosia through Tersephanou Pumping Station and the Tersephanou-Nicosia Conveyor. The Tersephanou Treatment Plant was put into operation on the 6th of December 1999, following the successful completion of a two month trial run period. In the future the Tersephanou Water Treatment Plant will also be connected with the Larnaca Desalination Plant currently under construction.



Δεξαμενή εξισορρόπησης Δαλιού - Dhali balancing reservoir