



INNOVATIVE PACKAGE SOLUTION FOR A WASTEWATER REUSE APPLICATION IN THE ISLAND OF CRETE

DEVISE ENGINEERING S.A. designed, engineered and manufactured a Modular Package (MBR) Wastewater Treatment Plant in the touristic area of "Gouves" for the Municipality of Hersonissos, Prefecture of Heraklion in the Island of Crete.

This Package Sewage Treatment Plant treats domestic sewage and the effluent water is suitable for unrestricted irrigation, with guaranteed high quality effluent ($BOD \leq 10$ mg/l, $TSS \leq 2$ mg/l, $NH_4-N \leq 1$ mg/l, $TN \leq 15$ mg/l, Total Coliforms CFU/100 mL < 2).

This project is very important for the local community and is located in a touristic coastal area of the Island of Crete (Greece). This STP **is one of the largest of its type in the region of South Europe & Mediterranean, with a capacity of up to 3,425 m³/d.** The project is fully implemented using pre-fabricated Packaged Units comprising of:

1. Compact Pre-treatment Plant
2. Containerized Biological Treatment Units using "UltraClear" Technology, a Hybrid method of MBR and MBBR Technologies
3. Package Sludge Dewatering Plant

The design incorporates four (4) parallel treatment lines, so it can achieve a wide range of flow capacities in an efficient and reliable way that will serve the requirements of this Touristic Municipality, which requires flow ranges from 600 to 3,425 m³/d between Winter & Summer seasons.

The Plant is fully automated and controlled through an advanced PLC & SCADA system and is remotely monitored by DEVISE Control Center to provide on-line service for support and trouble-shooting of the plant.



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