

## CASE STUDY



## PACKAGED & MODULAR WWTP FOR COLGATE PALMOLIVE FACTORY EFFLUENT (POLAND)

**DEVISE ENGINEERING S.A.** designed, constructed, installed and successfully commissioned in 2010 (and extended in 2012) a Packaged Plant for the biological treatment of industrial wastewater effluent from the factory of the well-known multinational company Colgate Palmolive in Poland.

The WWTP is capable of treating a total average flow of **577 m<sup>3</sup>/d** of industrial wastewater with a COD load of up to 1.840 kg/day, achieving the effluent quality parameters specified by the client.

DEVISE technical approach for this application was implemented using **smart compact and prefabricated units**.

The treatment process comprises of the following stages:

- Existing physical-chemical treatment using DAF separation
- DEVISE Packaged Biological treatment units operating in parallel 4 (3+1) modular units (Model : 40 BIOMAX-3) incorporating MBBR-IFAS technology
- Excess Sludge Dewatering using DEVISE Containerized Sludge Dewatering Plant, Model: CSDP-3 (~2,5-3 m<sup>3</sup>/h)

**DEVISE HIGH-RATE Bio Plant** is ideal for high organic load applications and is a very compact unit with integrated MBBR reactor and machine room, all in one structure of ISO 40ft container.

The Wastewater Treatment Plant is fully automated and controlled through an advanced PLC & SCADA system to ensure reliable and efficient operation.



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