

Intenzifikacation of WWTP Divín

In the period 09/2014 - 04/2016 intensification of WWTP Divin was carried out. Supplier of technological and electrotechnical engineering was the company Covspol Bratislava.



WWTP Divín was officially put into operation in 2006. The construction of the sewerage and WWTP was set up by the village Divín. From 2009, the sewerage and WWTP of Divín is a property of Stredoslovenská vodárenská company (StVS). The sewerage and WWTP is since 2007 operated by Stredoslovenská vodárenská prevádzková company (StVPS). New owner, based on requirements of operator to remove the persistent operational issues and to improve the quality of treated water, in the period 09/2014 - 04/2016 organized intensification of Divín WWTP. The contractor of the complete engineering of technological and electrotechnical part was company Čovspol, Bratislava.

In the framework of intensification of the Divín WWTP, a new relief chamber before the WWTP was built, a new complete mechanical pre-treatment stage consisting of the grave trap, automatically scraped screens, vertical sand trap and new inlet pumping station was built. The original technology of biological treatment based on principle of a pair of discontinuous surface aeration reactors was dismantled. Into the parallel tanks of the biological treatment, continuous fine-bubble aeration system and built-in storage clarifiers were installed. It's a low-loaded activation system with pre-denitrification and aerobic stabilization of the sludge. Two new blowers are the source of air for the biological stage. Biologically treated water is purified in the tertiary stage - a new micro drum filter. Part of the contract was also the supply of measurement & control devices and an automated system of management of technological processes. There is an online monitoring of: pH value at the inlet, waste water flow rate at the inlet and outlet of the WWTP, the water level in the entrance pumping station and in the inflow canal of the fine screens and in the sludge tank, the concentration of the oxygen and ammonia in the biological stage, the temperature of the water at the inlet and in the biological stage. Automatic control is provided through the PLC in the central switchboard and in the controlling room of the WWTP, where a PC with visualization of technological process and the possibility of creating outputs and change settings by the WWTP operators is installed.

Intensification of Divín WWTP has met the expected objectives - the persistent operating problems have been eliminated and the quality of treated wastewater is in accordance with the legislative requirements.

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