

Sewage Quality Development for Xellia

INDUSTRIAL WASTE WATER TREATMENT SBR

Pureco Ltd. together with its technological partner, called Nijhuis Water Technology has delivered a two-stage wastewater treatment plant (WWTP) to one of the largest pharmaceutical market leader in Hungary, called Xellia. The extension of the existing WWTP was necessary due to the rollout of new products. These new products contributed to the higher pollution concentration in the wastewater stream that could not be handled any more by the existing treatment plant.

The new technology, as the first stage, consists of a drum screen, where most of the non-dissolved material is removed. Moreover, it is a safeguard for the down-stream instrumentation within the plant. As the second stage an aerobic sequence batch reactor (SBR) is dedicated to remove the dissolved materials being present in the waste water stream. The surplus sludge is dewatered by a cloth filter before it is transported to an incineration plant.

The technology ensures that organic materials arose during production could be biodegradable and appropriate quality of treated water.

Parameter	Unit	Influent	Effluent
Flow	m ³ /d	340	
CODt	mg/l	11 000	≤ 1 000
BOD5	mg/l	4 500	≤ 500
Efficiency on CODt	%	91	



SBR system,
pharmaceutical industry

