

Ingolstadt

Central Sewage Treatment Plant Reconstruction and Extension



Regierungsbaumeister
SCHLEGEL



Client

Zweckverband
Zentralkläranlage Ingolstadt
[Ingolstadt Central Sewage
Treatment Plant Association]

Period

since 2006

Project Cost

11.000.000 €

Abstract

Reconstruction and extension of Ingolstadt sewage treatment plant was necessary, due to the increasing inflow load and high discharge demands with regard to the entire organic nitrogen. Two of the existing four primary settlement tanks, used for denitrification and biological phosphor elimination, were reconstructed. The other primary settlement tanks were refurbished and equipped with new scrapers. At the same time, a new primary sludge pumping station was constructed. The first biological stage was provided with two aeration tanks, each with a capacity of 1,480 m³. A new distributor was installed ahead of the aeration tanks for flow regulation. In line with optimisation of the clarifier, new tank scrapers were installed and a better wastewater distribution was provided. Furthermore, the precipitant dosing station used for phosphor elimination was renewed. An explosion protection document was made available for the entire treatment plant, in accordance with the operation security guidelines.

Scope of Service

pre-design, design, approval design,
execution design, preparation of tender
documents, construction supervision, site
supervision
planning of structural framework
technical equipment

explosion protection report

Technical Data

Capacity	275,000 PE
Dry weather, $Q_{t, h, max}$	3,240 m ³ /h
Rainy weather, Q_m	6,500 m ³ /h
Effluent standards	
COD	≤ 65 mg/l
BOD	≤ 15 mg/l
Organic nitrogen	≤ 13 mg/l
Ammonia	≤ 10 mg/l
Phosphor	≤ 0.8 mg/l