

WASTEWATER

2nd STAGE OF TORBALI WASTEWATER TREATMENT PLANT

Location

İzmir

Client

İzmir Water and Wastewater Administration (İZSU)

Duration of Services

09/2016-03/2018

Financing

İzmir Water and Wastewater Administration (İZSU)

Costs

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Project Description:

The 1st Stage of Torbali wastewater treatment plant was put in operation in 2010. The preliminary treatment units were designed for 2970 m³/h, maximum flow rate of 2nd Stage (2042), whereas other units were designed for 990 m³/h, average flow rate and 1980 m³/h, maximum flow rate of 1st Stage (2017). However, city has industrialized rapidly and developed unexpectedly. As a result, the capacity of plant has fallen short and requirement for 2nd Stage plant has emerged suddenly. For this reason, a new plant having average capacity of 56,184 m³/day and 295,000 PE is designed in a plot near the existing plant.

The designed WWTP units are preliminary treatment units, septic sewage acceptance station, anaerobic bio-P tanks, extended aeration BNR tanks, final sedimentation tanks, channel type UV disinfection unit, sludge retention tank, sludge dewatering unit and other auxiliary structures and buildings. The design of BNR units is based on ATV-DVWK-A 131 "Dimensioning of Single-Stage Activated Sludge Plants", May 2000 guideline.

Services:

- Implementation design,
- Preparation of technical specifications and tender documents,
- Preparation of environmental impact assessment report.