

WASTEWATER

MORDOĞAN WASTEWATER TREATMENT PLANT



Location

İzmir

Client

İzmir Water and Wastewater Administration (İZSU)

Duration of Services

07/2015-06/2016

Financing

İzmir Water and Wastewater Administration (İZSU)

Costs

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Project Description:

The population of Mordoğan neighbourhood of Karaburun district of İzmir province increases considerably during summer season. So does the wastewater amount. For this reason, wastewater treatment plant is designed for different seasonal requirements. The capacity of WWTP for year 2030 is 11,000 m³/day average flow rate and 2750 kg/day BOD5 load for summer and 1224 m³/day flow rate and 306 kg/day BOD5 load for winter. These two significantly different capacities will be served by two different biological treatment processes. The summer WWTP units are anaerobic bio-P tanks, extended aeration BNR tanks, final sedimentation tanks and channel type UV disinfection unit. The winter WWTP units are equalization tank, sequencing batch reactors (SBR) and in-line UV disinfection unit. The other units, such as coarse and fine screens, aerated grit and grease chambers, septic sludge station, sludge retention tank, sludge dewatering unit (screw press) are the common units of WWTPs of both seasons. The design of BNR units is based on ATV-DVWK-A 131 "Dimensioning of Single-Stage Activated Sludge Plants", May 2000 guideline and that of SBR is done according to MERKBLATT DWA – M210 Standards.

Services:

- Implementation design
- Preparation of technical specifications and tender documents