

JTI Japan Tobacco Industrial Wastewater Treatment Plant



The treatment plant is in İzmir Torbalı.

Plant Description:

- JTI Japan Tobacco Industrial Torbalı factory wastewater treatment and re-use plant.
- Plant treats combined industrial and domestic wastewater.
- Effluent quality achieved meets the most stringent requirements.
- The contract agreement provided for the process design, specification and supply of flat sheet membrane units.
- Factory contractor Dubai company ACWA constructed the plant, MBR gave technical support for operation and maintenance and supplied the spares.

Status:	In operation
Client:	JTI Japan Tobacco Industrial
Commissioned:	2004
Req.discharge quality:	COD < 150 mg/l, SS <10 mg/l,
Performance:	Design standards are achieved
Brief description:	Existing plant is retrofitted and a new membrane plant is added

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JTI Japan Tobacco Industrial Wastewater Treatment Plant

Process Description:

Existing plant is retrofitted to meet high COD loads that reached 2000kg/d 10,000mg/L levels and increased wastewater volumes also a new membrane plant is constructed.

Existing plant is upgraded by %60. (230m³/g- > 366m³/g)

Existing plants' capacity to handle biological load is increased by %65.(1200kg/->2000kg/d)

Membrane tank area 3.5m x 3.5m

Plant designed to operate automatically with minimal supervision.

Design Requirements

Influent average loadings:

COD	10,000 mg/l
BOD	2,355 mg/l
TKN	2 mg/l
NH ₃ – N	30 mg/l
SS	500 mg/l
TDS	5,000 mg/l

Effluent Standards

COD	< 150 mg/l
BOD	< 50 mg/l
SS	< 5 mg/l

Plant Data

Maximum daily flow	366 m ³ /d
Average daily flow	175 m ³ /d
MLSS membrane tank	12,500 mg/l
MLSS aeration tank	7,800 mg/l
Membrane area	800 m ²
Sludge age	25 days

Current performance

COD	< 150 mg/l
BOD	< 5 mg/l

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