

MBR Sewage Treatment Plant with Tanker Station

Bataya STP, Sharjah – UAE

This sewage treatment plant utilizes municipal and industrial wastewater discharged by tanker. Incoming sewage water will be received in the inlet works which accommodate up to 6 tankers at the same time. It is commence operation since February 2010 providing effluent water to the Bataya Municipality for irrigation use.

**WASTEWATER
TREATMENT
1000 m³/day**

Tanker Discharge

Up to six tankers can discharge and maximum flow will be 480 m³/h (133 l/s). The sewerage discharged from the tankers will be emptied in a U section channel prepared with manhole covers and side drains.

Two inclined fine screens and the grit trap with classifier take over removal of the solid contents.

Active Sludge Process with MBR

The basic treatment is done by aerobic biological process, combined with MBR microfiltration each in underground design. Bacteria and virus are removed by 99,99% and the treated effluent will be disinfected and stored in 1000 m³ GRP tank with tanker filling equipment.

Sludge Dewatering

The excess sludge is pumped to underground holding tank and dewatered by containerized belt press system.

The escaping air is guided by piping system to odor control system, eliminating all smelling and hazard content of gases.



Application	Equipment
Coarse Screen	Bypass screening
Fine Screen	Inclined screw screen
Fine Screen	> 2mm particle removal
Grit Removal	Grit trap with classifier
Biological Treatment	Underground tank, Tubediffusor
Ultra Filtration	flat sheet membrane
Sludge Dewatering	Containerized belt press system
Tanker Filling Station	1000m ³ GRP storage tank
Odour Control System	Active carbon with UV
Field Instruments	for flow, level, TSS, DO, pressure
MCC Panel PLC	complete process auto controlled

