

# - Proposal for Wastewater Treatment Plant -

## Conventional activated sludge process

Capacity:  
10.000 person equivalent  
2.000 m<sup>3</sup>/d

Design:  
The sewage treatment plant consists of a non-roofed screen, a pumping station and a combined basin with an outer diameter of Ø 30 m, an inner diameter Ø 18 m and a depth of 10 m. Aeration is realised by paddle wheels.  
The operating building is designed as a log cabin containing all controlling equipment and a social room.  
Two reed bed systems are constructed for sludge dewatering and mineralisation.



European gross cost estimate:  
1.200.000 EUR

Effluent parameters at water temperatures of 12 °C

COD	≤	75 mg/l
BOD <sub>5</sub>	≤	25 mg/l
NH <sub>4</sub> -N	≤	10 mg/l
Total N	≤	15 mg/l

Operating costs  
Electricity: 1,100 kW/d  
Amount of surplus sludge: 12 m<sup>3</sup>/d  
Maintenance staff: 0,5 skilled workers

