



BIOTHANE

Anaerobic Wastewater Treatment

Pulp & Paper Industry

Anhui Shanying Paper Industry Co. Ltd.

Newsprint (from DIP) and Testliner from OCC (old corrugated coated) recycle paper

Anhui Shanying Paper Industry Co. Ltd. is located in Maanshan/Anhui province Peoples Republic of China. The mill is producing Newsprint paper from the Deinking process and Testliner from OCC recycle paper. Biothane has applied for the anaerobic Biobed® EGSB technology which can eliminate the bulk of the COD at low operating costs. The wastewater treatment plant consists of three stages also; pre treatment for equalization, flocculation - solids removal in primary clarifier and cooling, anaerobic treatment to remove the bulk of the COD and aerobic post treatment for final polishing the anaerobic effluent to meet the effluent limits.



In the Biobed® EGSB process, the bulk of the COD load is converted into biogas. The wastewater enters the anaerobic system through a Conditioning tank where the optimum conditions for the anaerobic process (pH, temperature) are created. The conditioning tank also serves as an internal mixing tank of the raw influent and treated anaerobic effluent. The anaerobic process is designed to remove 54% of the COD load from the wastewater. The system started up quickly and successful (2 weeks till design flow) and positive biomass growth of excellent quality.

Wastewater characteristics (after pre-treatment)

Flow	25000 m ³ /d
SCOD load	46000 kg/d
TSS	<200 mg/l
Temperature	<40 °C

