Pharmaceutical Wastewater Treatment

(Zhejiang Zhebang Pharmaceutical Project)

Zhejiang Zhebang Pharmaceutical Co., Ltd. is mainly engaged in the production and sales of cephalosporin APIs and pharmaceutical intermediates. At present, the company produces 700 tons of production wastewater every day, including high ammonia nitrogen wastewater, high salt wastewater, high COD wastewater, antibiotic wastewater and other pharmaceutical wastewater.

The project originally adopted traditional process, but later it was transformed into MBR process because it could not meet the productivity and effluent quality. Hollow fiber membrane was first used with problems such as frequent pollution, blockage and high maintenance difficulty etc. Finally, our company confirmed the membrane flux through experiments, and replaced it with all of our company's MBR flat membranes in 2018, which solved the problem of frequent pollution and blockage.



Hollow membrane hardening and wire breakage



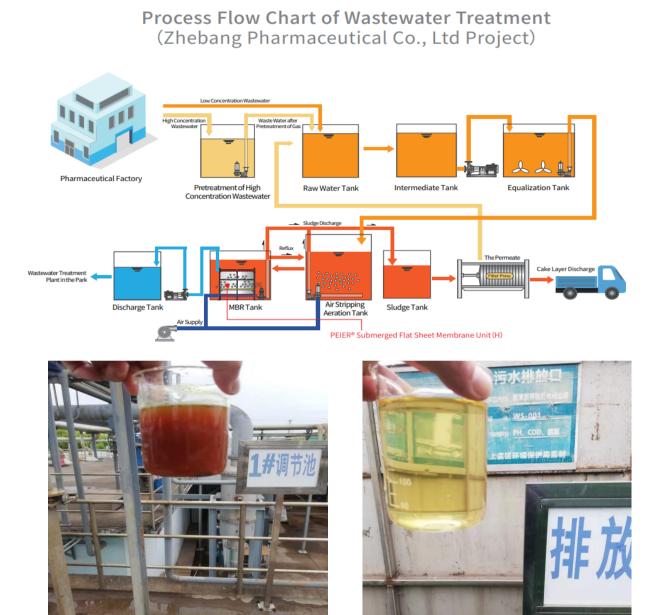
Flat membrane operation after transformation

1. Outline of the Facility

Location	Shaoxing City, Zhejiang Province		
Type of Wastewater	Pharmaceutical wastewater		
Flow	700m³/d		
Commissioned	Since 2018(Peier MBR)		



2. MBR Process Flow Sheet



Feeding biochemical water sample

MBR permeate water sample

3. Design Parameter and Actual Data

	Туре	Parameter	Influent	Design	Actual	Capacity m ³ /D
	Pharmaceutical Wastewater	$\text{COD}_{\text{Cr}} \ (\text{mg/L})$	8000-10000	≤500	300-400	
		NH3-N (mg/L)	200-300	≤35	15-20	≦700
	рН	6~9	6-9	7-8		

"Design" values of effluent are regulatory limits. "Actual" values are average values.

Jiangsu Peier Membrane Corp., Itd,

MBR Flat sheet membrane manufacturer since 2007

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