

Case Study

**Laundry Wastewater Treatment
(Shanghai Sinopharm Medical Washing Project)**

The project mainly deals with the laundry wastewater generated by the cleaning of bedding, work clothes and functional surgical linen in the plant.

Characteristics of sewage treated in this project: the wastewater mainly contains detergents. The effective components of detergents are surfactants, detergents, bleach and other auxiliary components. Washing wastewater contains a large number of short fibers, and aeration will produce a large number of bubbles. The average value of CODCr is low, but the CODCr value of main washing wastewater is high; the wastewater is turbid, and the color changes with the depth of the washing product; Different from ordinary laundry wastewater, the project mainly serves medical institutions. The wastewater contains infectious bacteria such as bacteria and viruses.



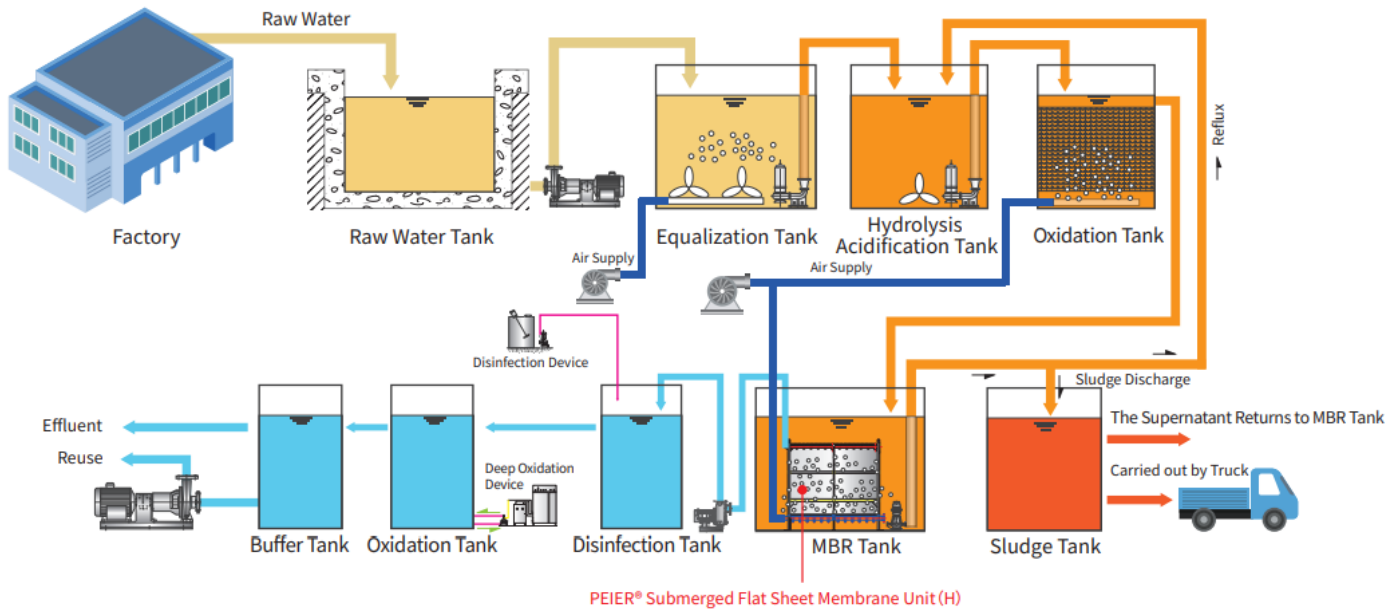
1. Outline of the Facility

Location	Shanghai city
Type of Wastewater	Medical laundry wastewater
Flow	600m ³ /D
Commissioned	Since Sept.,2018 (Peier MBR)

2. MBR Process Flow Sheet

According to the types of pollutants in sewage and the discharge of various sewage, the sewage treatment station adopts the following processes for sewage treatment:

Process Flow Chart of Wastewater Treatment (Sinopharm Medical Washing Project)



3. Design Parameter and Actual Data

Type	Parameter	Influent	Design	Actual	Capacity m ³ /D
Laundry Wastewater	COD _{Cr} (mg/L)	≤400	≤50	37	≤600
	BOD ₅ (mg/L)	≤120	≤25	17	
	SS (mg/L)	≤250	≤10	2.5	
	Chroma (degrees)	≤200	≤20	10	
	pH	6~9	6~9	7~9	
	Turbidity (NTU)	≤30	≤5	0.6	
	Escherichia Coli (PCs. / L)	----	1500	----	

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

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