

Case Study

**Hospital Wastewater Treatment
(Xinxiang Psychiatric Hospital Project)**

This project is located in Xinxiang psychiatric hospital with limited footprint available. In such case, our company provides MBR flat membrane solution under the comparison of various processes to get the stable effluent quality up to class A standard by taking consideration of saving investment and optimal land utilization.

The project deals mainly with the domestic wastewater. The raw water is mainly the wastewater discharged from the medical room, ward, laboratory, operating room and the dormitory and canteen of the medical staff of the hospital. The feeding water is characterized by poor water quality balance, low COD concentration and high ammonia nitrogen concentration.

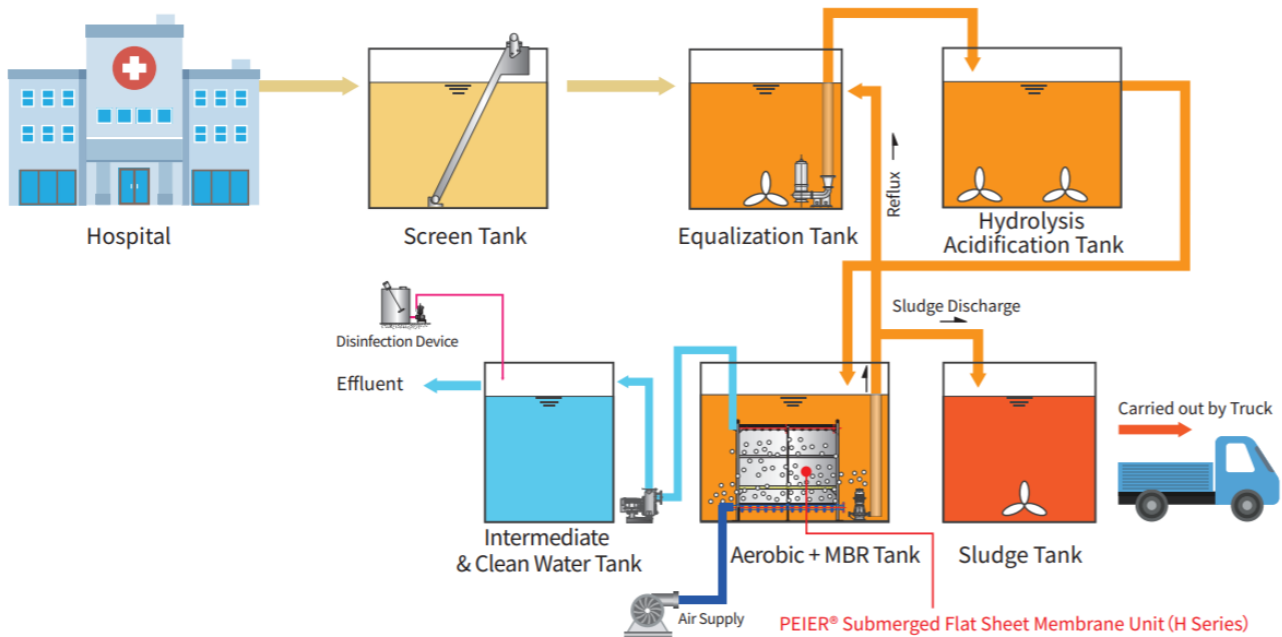


1. Outline of the Facility

Location	Xinxiang Psychiatric Hospital
Type of Wastewater	Hospital Domestic Sewage
Flow	600m ³ /D
Commissioned	Since June,2019(Peier’s MBR)

2. MBR Process Flow Sheet

Process Flow Chart of Wastewater Treatment (Xinxiang Psychiatric Hospital Project)



3. Design Parameter and Actual Data

Type	Parameter	Influent	Design	Actual	Capacity m ³ /D
Hospital 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	0.3	
	Escherichia Coli (PCs. / L)	2100	1500	790	

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

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