

**Case Study**

**Hospital Wastewater Treatment  
(Anhui Provincial Cancer Hospital Project)**

The sewage discharged from the hospital is mainly the domestic sewage produced by the daily life of its staff and patients and the medical wastewater in the process of medical activities. The wastewater contains infectious bacteria such as bacteria and viruses.

In order to improve the internal sewage treatment process of the unit, the hospital had transformed the sterilization and disinfection device into a membrane biological (MBR) treatment device, and disinfected it with ultraviolet light. The treated wastewater is finally connected to the treatment plant through the urban sewage pipe network for treatment.

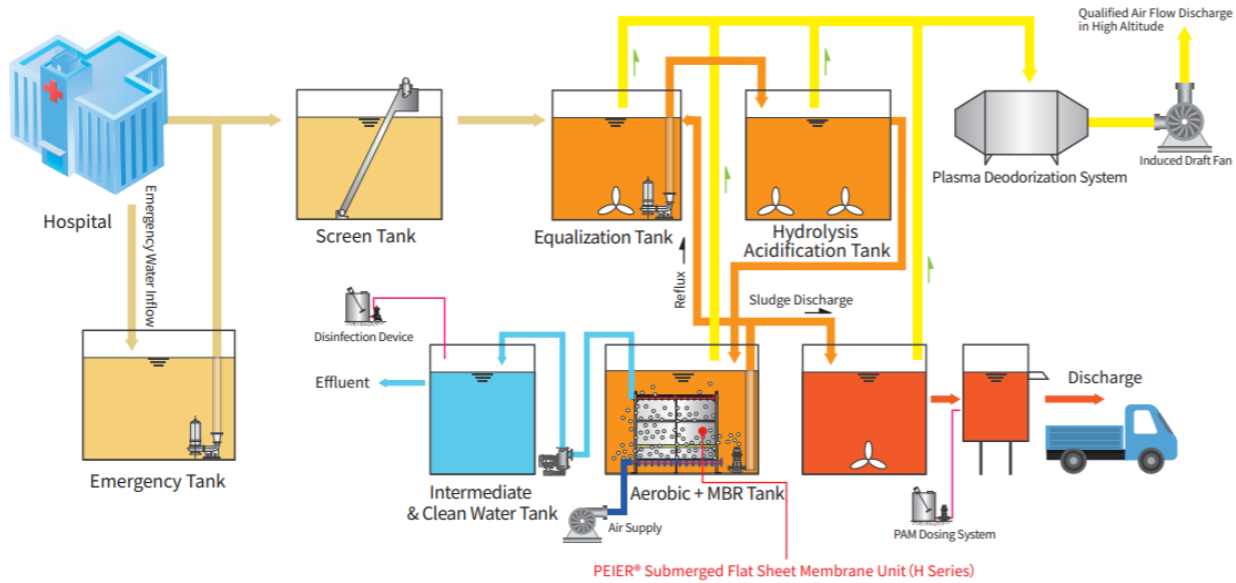


**1. Outline of the Facility**

<b>Location</b>	Anhui Provincial Cancer Hospital
<b>Type of Wastewater</b>	Hospital domestic sewage
<b>Flow</b>	2000m <sup>3</sup> /D
<b>Commissioned</b>	Since Nov.,2021 ( Peier MBR)

## 2. MBR Process Flow Sheet

Process Flow Chart of Wastewater Treatment  
(Anhui Cancer Hospital Project)



## 3. Design Parameter and Actual Data

Type	Parameter	Influent	Design	Actual	Capacity m <sup>3</sup> /D
Hospital Wastewater	COD <sub>Cr</sub> (mg/L)	≤400	≤50	37	≤2000
	BOD <sub>5</sub> (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	0.4	
	Escherichia Coli (PCs. / L)	----	1500	----	

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

Jiangsu Peier Membrane Corp.,Ltd,

MBR Flat sheet membrane manufacturer since 2007

Add: East Industry Zone, Gaocheng Town, Yixing City, 214214 Jiangsu Province, China,

Tel:+86 510 8783 8775 Fax:+86 510 87838773, Web:www.chinapeier.com/ www. peier-membrane.com/