

# High-end Residential Project

MBR Waste Water Treatment



## Project Details:

Description	Details
Location	Ahmedabad
Product	Submerged MBR Membrane
Capacity	70.000 M3/day
Membrane Area	140 M2
Model No.	FMBR 80-175
No Module	1

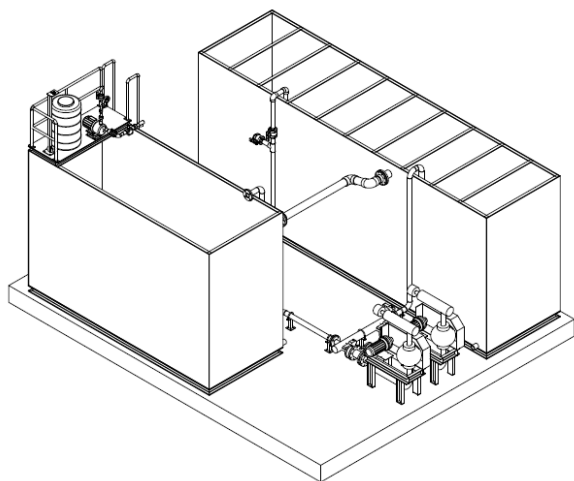
## Project Overview:

A High-end Residential building in one of Ahmedabad's very well-known area, was installing a sewage treatment system in the premises to recycle the building sewage. The treated sewage water was to be recycled for flushing and gardening purposes.

## Challenge of project:

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## Imemflo Solution:



We would like to mention case here that High-end residential project based on Ahmedabad, Gujarat demanded for High Quality treated Water Quality form sewage treatment plant to reuse in floor washing and toilet flushing. We advised them to go with our special membranes developed for such application. Imemflo flat sheet membrane is made of PVDF, which has better chemical stability, fouling resistance and mechanical strength. With advanced membrane fabrication technology, imemflo the membrane pore size around 0.1  $\mu$  to get a higher water flux and water quality.

## Process Summary:

Municipal sewage treatment plant with a design capacity of 70 KLD located in Ahmedabad, Gujarat. The membranes used in the bioreactor are made of PVDF material and of 0.1  $\mu$  poresize. The membranes were stacked in form of cassettes. The filtrate from the MBR is removed by means of MBR filtrate pumps. Return activated sludge pumps are providing in the MBR chamber to maintain the continuous circulation of the mixed. And sludge are stor

### Benefit of client:

- Small Footprint
- Less depend on Man power
- Robust
- Compact
- Fully Automatic
- High purity water
- Achieve PCB Norms
- Easy operation
- High efficient plant

## About Imemflo:

Imemflo, a German developed product always focuses on membrane research and development to meet customers strict filtration needs and is available in flat sheet [F- MBR] and hollow fibre module type[ HF- MBR].



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Description Typical municipal wastewater			
Parameter	Input water	Output water	
TURBIDITY (NTU)	--	Membrane	0.4
SDI	--	filtration	3
TSS (mg/L)	100-300	process	2
BOD <sub>5</sub> (mg/L)	300		3
COD (mg/L)	600		30
NH <sub>3</sub> -N (mg/L)	30	Biological	0.5
TN (mg/L)	40	process	13
TP (mg/L)	10-20		0.5