

# HIGH-END RESIDENTIAL PROJECT

## MBR WASTE WATER TREATMENT

### Project Details:

Description	Details
Location	Ahmedabad
Product	Submerged MBR Membrane
Capacity	70.00 M3/day
Membrane Area	140 M2
Model No.	FMBR 80-175
Flux	25 LMH

### 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.

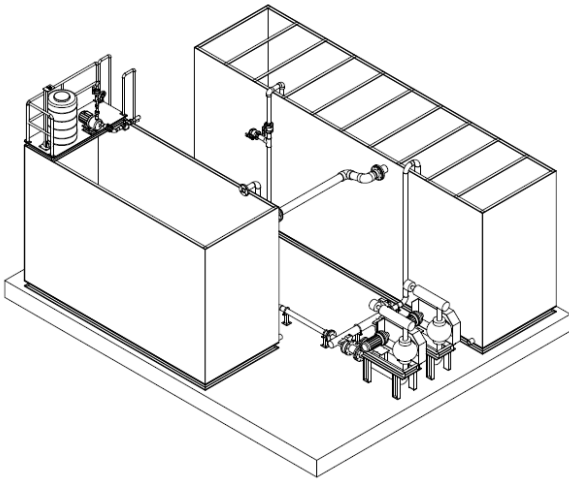
### Challenge of project:

Challenge Faced during the project:

- To much variation in flow
- Less Available space
- Location of STP undecided and variation in area.
- To handle high parameter sewage
- Reuse of treated water in Flushing and car washing.



## Imemflo Solution:



We would like to mention here a case of a High-end residential project based in Ahmedabad, Gujarat, which demanded for High Quality treated Water from sewage treatment plant to reuse in Floor Washing and Toilet Flushing. We advised them to go with our special MBR STP fitted with our specially developed membranes Imemflo 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 membrane has pore size around 0.1  $\mu$  to get a higher rate on TSS filtration and clear 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  $\mu$  pore size. 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 water and sludge.

### 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].

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



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