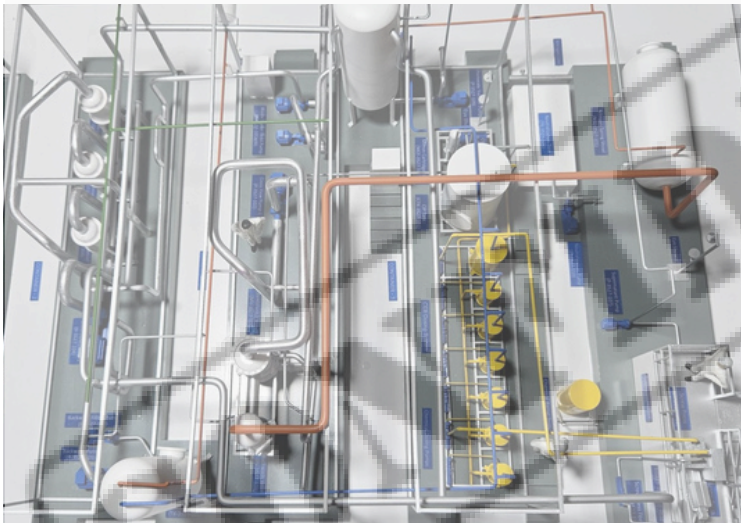


## OBJECTIVE

The aim of the Produced Water De-Oiling and Filtration Project is to efficiently treat high-contaminant produced water, reducing Total Suspended Solids (TSS) to below 3 mg/l and oil content to below 10 mg/l. The plant is designed to operate flexibly in both Dead-End and Cross Flow modes, supporting sustainable and high-quality water recovery.



## SOLUTION

- Online analyzers with pump interlocks.
- Prefiltration using basket filters.
- Ceramic membrane vessel for oil and TSS removal.
- Automatic Chemical Cleaning.

[Pilot Plant Animation Video.mov](#)

## PLANT DETAILS:

Parameters	Unit	Inlet	Outlet
Flow Rate	m <sup>3</sup> /hr	40-80	40-80
TSS	mg/l	2000	< 3
Oil Content	mg/l	1000	< 10
TDS	mg/l	200000	200000
Chloride	mg/l	164205	164205
Temperature	°C	70	70

## CHALLENGES

- High TDS, TSS, and oil content in inlet water.
- Membrane fouling and system clogging.
- Handling variable flow rates.
- Sludge management and disposal.

## BENEFITS

- High-quality treated water with lower footprint as compared to conventional oil removal technology.
- Low maintenance, high uptime.
- Compact, modular, and scalable setup.
- Supports water reuse and environmental compliance.



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