

# CASE STUDY

## INTRODUCTION

GreEnviro Environmental Solutions has designed, supplied, commissioned 300 KLD Sewage Treatment Plant using Membrane Bio Reactor (MBR) for an industry in one of the Gulf Countries.

## CHALLENGE

To produce reusable treated water from primary treated wastewater of Construction allied Industry.

## SOLUTION OFFERED

To achieve results compatible to reusable water as per industrial standards, Membrane Bio Reactor (MBR) process was employed. After the reduction of COD, BOD and suspended impurities (from MBR) the water was disinfected with Ultraviolet (UV) System. The water was recycled to be used for the process and boiler feed.

## RESULTS ACHIEVED

The product water after MBR

- Free from organic pollutants & suspended solids
- Turbidity < 0.1 NTU
- Free from color
- Free from odor
- Recovery 90%

## BENEFITS TO CLIENT

- Restricts pollution and saves environment.
- Compliance with the Environment Department laws
- Treated water well within the safe limits as per water standards
- Reduction in volume and associated fresh water cost
- Fully automatic system with minimum manual intervention
- Maximum recovery with minimal discharge
- Small footprint saved area is used for other utilities
- Superior design leading to lower operation cost
- No foul smell/ odor

