

# CASE STUDY

## INTRODUCTION

GreEnviro Environmental Solutions has designed, supplied, commissioned 200 KLD Reverse Osmosis (RO) Plant for ETP treated water for a pharmaceutical industry.

## CHALLENGE

To produce reusable treated water from tertiary treated effluent having 25,000 TDS of pharmaceutical industry.

## SOLUTION OFFERED

To achieve results from 25,000 TDS RO feed water, Seawater membranes are used at 65 bar feed pressure from custom made plunger pumps. The water was fed to Reverse Osmosis System (Two stage RO). The water was recycled to be used for the process and boiler feed. Reject was then feed to multiple effect evaporator.

## RESULTS ACHIEVED

The product water after Reverse Osmosis

- Free from color
- Recovery 65%
- TDS less than 100 mg/l

## BENEFITS TO CLIENT

- Restricts pollution and saves environment
- High purity treated water being used for various applications
- Less load on Multiple effect evaporator
- Reduction in freshwater intake leading to cost savings
- Fully automatic system with minimum manual intervention
- Small footprint saved area is used for other utilities
- No foul smell/ odor

