



Water Treatment Solutions for the Pharmaceutical Industry

The most successful system for recovery of reusable permeates from primary / secondary treated effluent.

Features

- No pretreatment such as UF, NF, Chemical Treatment / Polishing required
- Treating rejects of conventional RO systems thereby inducing savings in evaporation and incineration costs
- Consistent performance ensures Zero Discharge commitments
- Currently over 22 installations all over India
- Over 5,000 M3 treated every day

Parameter	Raw feed	Rochem Treated
TDS (PPM)	15,000	<500
COD (PPM)	8,000	<250
BOD (PPM)	1,500	<30
Recovery	70 - 85%	



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CASE STUDY

Pharmaceutical Unit, Bangalore

Background : The effluent from the unit is being treated in the existing ETP. There was a requirement to reduce effluent loads through wastewater recovery for recycle/reuse to achieve zero discharge.

Plant Installed : Rochem PT-RO System
(Microprocessor controlled, fully fail safe and unattended operation)

Input : 800 cum/day of ETP treated effluent as input

Recovery Rate : 80%

Plant Performance

Parameter	Unit	Effluent (Input to RO)	RO Output
Flow	cum/day	800	640
Total Dissolved Solids	ppm	3500	< 250
Chemical Oxygen Demand	ppm	1500	< 100

Salient Features

The installed system treats the input wastewater to a level of quality where it can be reused within the factory while reducing the hydraulic load of the wastewater to be treated through energy intensive systems such as evaporation and incineration.

General Parameters for Pharmaceutical Units

Parameter	Biomethanated Spentwash Feed	Rochem Treated
TDS (PPM)	15000	< 500
COD (PPM)	8000	<250
BOD (PPM)	1500	<30
Recovery	70% - 85%	