



Case Study of Zero Liquid Discharge Plant at SABMiller, Aurangabad

Sector: Brewery

Location : Aurangabad, India

About SABMiller

Multinational brewing and beverage company headquartered in London, England, United Kingdom.

Sab Miller India: With 10 high quality breweries spanning across 9 states, SABMiller India stands today as one of the largest breweries of India.

The last 14 years they have witnessed growth to one fourth of the beer market share in India. Haywards 5000, Knock Out, Foster`s, Royal Challenge, Indus Pride and Peroni Nastro Azzurro fall under our portfolio of brands.



Client's requirement

75 m³/hr RO/ZLD Plant so as to reduce, reuse & recycle effluents thereby conserving fresh water resource

Total Water Management system by Thermax:

We have offered Total Water Management system consists of following packages:

- RO package : Fresh Water & Reject RO
- Brine Management system :
 - o Softening Package
 - o Electrodialysis Reversal
 - o Zero liquid Discharge Plant

RO package outlet parameters -

Parameters	Unit	Outlet
TDS	ppm	< 500
Chlorides	ppm	< 100

Softner package outlet parameters -

Parameters	Unit	Outlet
Magnesium as Mg	ppm	10
Calcium as Ca	ppm	50
TSS	ppm	< 10

ZLD Package outlet Parameters -

Parameters	Unit	Outlet
Sludge quality		
Dry Solids concentration	%	90

Parameters	Unit	Outlet
Condensate quality		
TDS	ppm	< 500
Chlorides	ppm	< 100



Benefits

- Optimized RO Recovery
- Advanced ZLD system with optimized operating cost
- Minimum foot print area
- Optimized dosages & chemical consumption for brine softening system
- Proven expertise of similar type of application

Thermax has also installed Effluent Recycle plant at Arvind Mills, Hyundai motors, Honda, ITC, Hindalco, Tata steel, Shell & many more....