

# CASE STUDY

A multinational pharmachem company in Western India



## Problem

- Low efficiency in the multi effect evaporators (MEE) leading to excess steam consumption
- Venting of steam along with the non-condensables added to the steam losses
- Quality of final product affected due to variations in outlet feed percentage concentration

## Objective

To increase economy of the MEE and minimise steam losses

## Solution

- Installation of the Forbes Marshall meeMAC on the multiple effect evaporators in the ETP section for control of evaporation rate, feed rate and automatic air venting
- everSENSE for monitoring of all essential process parameters to be controlled by the system

## Benefits

- 10% steam reduction with increase in economy from 3.9 kg/kg to 4.3 kg/kg
- Steam savings of ~ 500 kg/h
- Reduced variations in outlet feed percentage concentration
- Outlet feed percentage concentration maintained between 35-40%