CASE STUDY
A major refinery in Western India

Problem
- Major Steam Loss
- Frequent failure of steam traps
- Water hammering
- Frequent shutdown
- Noise pollution

Objective
To achieve a sustainable zero leak steam system by implementing a steam trap management system

Solution
Steam Trap System Management - audit, rectification and sustenance by Forbes Marshall

Phase 1
Total steam traps population : 12,000
Steam trap performance rate: 29.72%
Steam loss identified: 23 Ton/hr

Phase 2
Supervision of the steam trap system rectification by Forbes Marshall and replacement with Forbes Marshall products
Improved steam trap performance rate : 97.6%
Steam savings achieved: 21 Ton/hr

Phase 3
Sustain the achieved performance for next 30 Months
Steam trap performance rate : 98%
Steam savings achieved further: 4.39 Ton/hr

Benefits
- Reduction in steam losses
- Increased steam system reliability
- No water hammering
- Increased steam trap life
- Savings in fuel consumption
- Reduced noise pollution
- Improved steam leak factor from 0.96 Kg/MT (2017) to 0.37 Kg/MT (2019) - CHT audit