

Reduced Consumption of Energy

Situation before: In a pharmaceutical plant, the combustion system consisting of Thermic Fluid Heater and two Boilers was not operating optimally as determined by flue gas analysis. The oxygen content in the flue gas was very high with an ID fan in operation.



IMPROVEMENT DONE

ID fan was stopped and draft was controlled by a damper to optimise combustion.

ECO IMPACT

Savings/year: Rs. 1,92,000
Cost: Rs. 0.00
Payback time: 0.00 years

| Flue gas parameters | Equipment 1 (Thermic fluid heater) | | Equipment 2 (Steam boiler) | |
|----------------------------|------------------------------------|-------|----------------------------|-------|
| | Before | After | Before | After |
| Excess air (%) | 1642 | 200 | 514.7 | 354 |
| O ₂ content (%) | 19.5 | 17.9 | 17.5 | 16.4 |
| Efficiency (%) | 32 | 61.8 | 71.9 | 78.8 |