

RASHTRIYA CHEMICALS AND FERTILISERS LIMITED

THAL UNIT

Energy Conservation Policy

Plants at Thal have performed well largely due to the proactive and painstaking efforts taken in the field of energy conservation and capacity enhancement through technical foresight. The energy level maintained by 22 years old RCF, Thal plants itself shows our commitment & outlook towards Energy conservation.

Energy Conservation Plans and Targets

1. End-to-End to survey of Ammonia plant including proposal for additional coil in waste heat section.
2. Use of low grade waste heat for refrigeration/Cooling for PAC in ammonia plant, CO₂ in Urea plant etc.
3. Installations of variable frequency drive (VFD) for Ammonia, Urea & SGP plants.
4. Replacement of reciprocating compressor by Screw compressor for one unit of air conditioning in administration building.
5. Installation of Variable Frequency Drive:
 - 3414 A/B and Kurul water pump.
 - T.G condensate extraction pump two no.
 - Steam Generation Plant Cooling Tower Fan.
6. Energy efficient lighting in Ammonia Plant.
7. High emissivity Zirconium coating of refractory in primary reformer in ammonia plant line II..
8. Calcium silicate insulation for SH lines in Ammonia plant and for SGP to Ammonia plant.
9. Provision of Geared Motor in place of Motor+Gear box in Urea.
10. Interconnection of P-10 pumps so as to stop one pump.
11. Removal of mill air heater for all three boilers in SGP.
12. Replacement of Split A/C with energy efficient machines