

Measure	
Fuel Substitution	
Equipment	
Chemical Heating Tanks in Electroplating Plant	
Industry / Sector	
Automobile Industry/ Engineering	
Year of Implementation	
2004	
Cost Benefit Analysis	
□ Type of Measure	: To replace electrical heating with hot water heating using HSD as fuel.
□ Annual energy Savings	: Single shift working = 200KWH X 8HRS X 300 Days Electricity Saved = 480000 (kWh) @ Rs 4.60 = Rs 22.05 Lac. Cost of Diesel Consumed = 140Ltrs/Day X 300 Days X Rs 26 = Rs 10.92 Lac
Actual cost savings	: Single shift working = Rs 22.05 - Rs 10.92 = Rs 11.13 Lac
□ Actual investment	: Rs 28 Lacs
□ Payback	: 2 years 6 months on single shift working
□ Pay back will be more attractive on two shift basis.	
Implementation Highlights	
We had installed hot water heating system for our paint shop phosphating tanks during 1998, having 1 No ATH-10 + 1 No ATH-15 package (diesel fired) heating system from M/s Thermax. After studying the requirements we realised that we have sufficient spare capacity available to be used somewhere else.	

Summary

The services of M/s Thermax were requisitioned to conduct the heating load requirement of our two plating lines and workout the techno economics of the same.

M/s Thermax was awarded the turn-key job @ Rs 28 Lac.

The project was successfully commissioned during June 2004 and is working satisfactorily.

The details of actual savings is shown in above sheet.

Connected load of electric heaters =900 KW

Reduction in MDI =300 KVA

Demand Saving = Nil (Single Part Tariff in Haryana)

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