





## ENERGY CONSERVATION ACHIEVEMENTS

During the period 2005-2006 to 2007-2008, the unit implemented, 48 energy saving ideas generated. Annual savings of Rs. 616.74 lakhs was achieved as against the investment of Rs. 438.85 lakhs.

Major projects implemented for Energy Conservation during the period 2007-2008

### 1. Installation of Vapour Absorption Machine (VAM) and Waste Heat Recovery Boiler (Trend-setter Project)


	<p>02 Nos. of Vapour Absorption M/C are installed those are utilized to produce the Chilling Effect from the Hot Water of all 04 Gas Engines. Due to this we are getting @250TR/hr again the consumption of 240KW. This concept of using VAM for chilling of hot water (a major requirement in dairy) is first done by MDG</p>
	<p>02 Nos. of Waste Heat Recovery Boilers are installed those are utilized to produce Steam from Exhaust Gas from all Engines. We are getting 1.5TPH steam from each WHRB.</p> <p><b>Investment:</b> Rs. 345.46 lakh</p> <p><b>Saving:</b> Rs. 300.04 lakh</p>




**Mother Dairy**  
[A unit of GCMF Limited]  
Gandhinagar, Gujarat

Annexure 'D'

**2. Installed new burner for air heater in old powder plant**

	<p>Replaced burner of air heater of powder plant to achieve best O<sub>2</sub> level of 2.8%-3.0% to save gas consumption around 10%.</p> <p><b>Investment:</b> Rs. 11 lakh</p> <p><b>Gas Saving:</b> 1.1 lakh SCM</p> <p><b>Saving:</b> Rs. 14.02 lakh</p>
---	---

**3. Replaced conventional Chock with electronics ballast in Tube light fittings**

	<p>Replaced Conventional Chock in tube light fittings by new Electronics ballast. By this we save 13-watt/single fitting.</p> <p><b>Investment:</b> Rs. 1.77 lakh</p> <p><b>Electricity Saving:</b> 0.24 lakh KWH</p> <p><b>Saving:</b> Rs. 1.08 lakh</p>
---	---