

**Second Prize**

**Grasim Industries (Chemical Division)  
Bilagram, Nagda, (Madhya Pradesh)**

**Sector: Chlor Alkali**

**Unit Profile:**

Grasim Industries Limited, a flagship Company of Aditya Birla Group of Industries was set-up in 1947 to produce Viscose Staple Fibre. The Company was accorded ISO 9002, ISO 14001, and SA8000 & OHSAS18001. Today Grasim's core businesses are Viscose Staple fiber and Cement with Textile, and Chemical form supplementary business. As a backward integration, Chemical Division was set up in early 1970's to manufacture Caustic Soda, Liquid Chlorine and its allied products. Initially in 1972 a 100 Tons per day Mercury Cell plant based on the technology supplied by DENORA, ITALY, was set up. Thereafter another plant with Mercury Cell technology was set up in 1983 and by the year 1989 the

Caustic Soda production capacity of Chemical Division was enhanced to 350 Tons per day. In 1994, the 1st Mercury cell Plant was converted to Membrane Cell Plant based on the finite gap technology supplied by M/s. Uhde Germany. There after it was in-house converted in to narrow gap technology. Subsequently we converted the 2nd Mercury Cell Plant also in 2006 with highly energy efficient Membrane Cell Plant based on worlds latest zero gap technology supplied by M/s. AKCC Japan. Cell Power consumption at Chemical Division's Membrane Cell Plant has become the benchmark even for the plants operating with latest technologies of M/s. AKCC, Japan, and similar such technologies.



**Brief Description of the major Energy Conservation Actions:**

1. Re-Membraning of A, B, E & D electrolyzers.
2. Installation of new screw Freon compressor 259 TR.
3. Conversion of UHDE 2<sup>nd</sup> generation electrolyzer-D into 5th gen electrolyzer.
4. Conversion of UHDE 2<sup>nd</sup> generation electrolyser-B into 5th gen electrolyzer.
5. Installation of VFDs.

<b>Total Investment</b>	<b>₹ 3646 Lakh</b>
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<b>First Year Energy Cost Saving</b>	<b>₹ 1177 Lakh</b>
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**Person who should be contacted for more Information:**

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