

ACC Ltd., New Wadi Plant

Unit Profile:

ACC is a very fond acronym in India often assuming synonymy with Cement. The company is producing and catering to the need of cement for national development since last sixty eight years and has sustained its leadership position. Presently we have 15 Cement plants spread throughout the country. Presently ACC is a part of the "**Holcim Group**", one of the largest multinational Cement manufacturers.

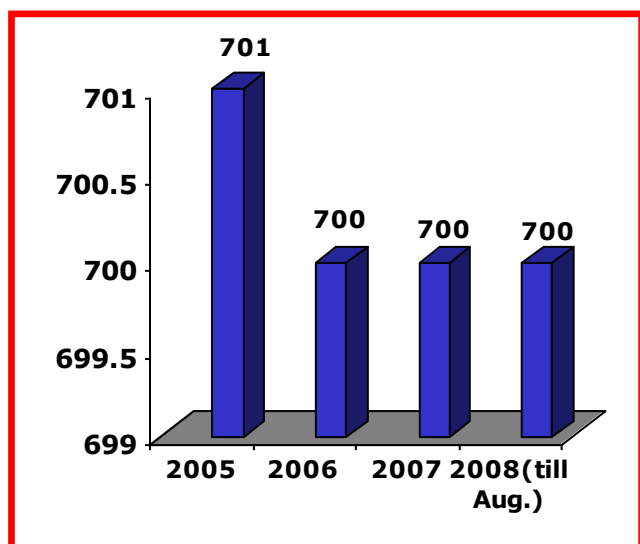
ACC New Wadi Plant is located in northern Karnataka bordering Maharashtra and Andhra Pradesh. Plant started with a capacity of 1.95 million tons per annum in the year 2001 and the present capacity is 2.8 million tons. NWP produces exclusively Portland Pozzolana Cement (PPC), which is eco-friendly, more durable cement and conserves the national reserves.



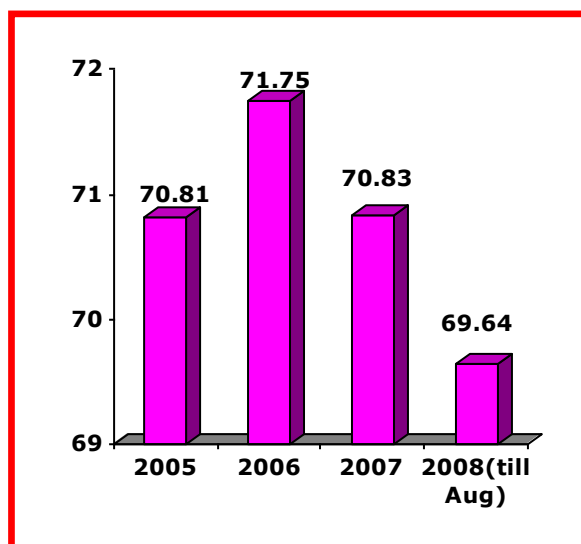
Energy Consumption:

The table below shows the energy consumption figures of the unit during last three years.

Parameter	Units	2005	2006	2007
Electrical Energy	Kwh/Ton of Cement	70.81	71.75	70.83
Thermal Energy	Kcal/Kg.of Clinker	701	701	700
Energy cost as % of Total production cost	%	55	60	62



Specific Thermal Energy Consumption (Kcal/Kg.Clinker)



Specific electrical energy Consumption (Kwh/Ton Cement)

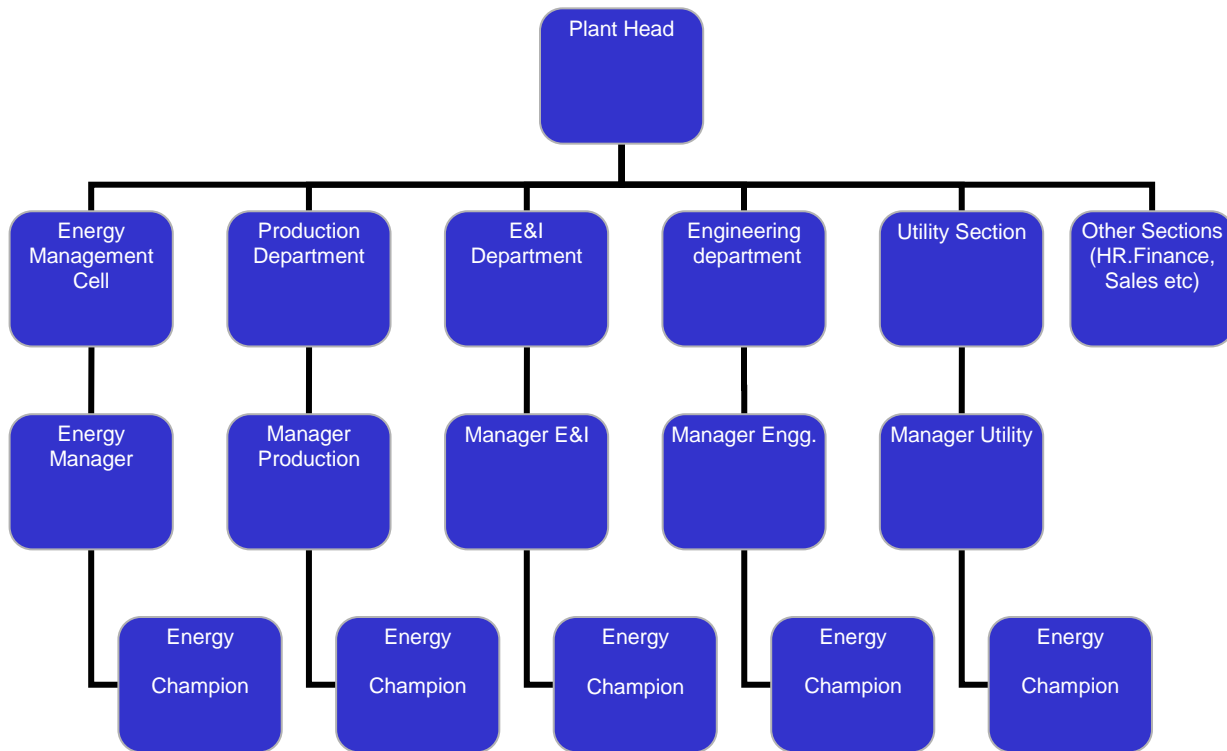
Energy Conservation commitment, policy and Se up:

At the Corporate level we have an Environment and Energy Conservation Cell, working under the Technical Support Service (TSS) at Thane. They review the energy consumption parameters of all our units regularly. They set targets and provides support in achieving them.

At the plant level the Encon cell is headed by our Plant Head and consists of all department heads. Apart from them an Energy Champion is identified

from each department who will be reporting to their department head as well as energy Manager on energy management related activities.

Structure of Energy Management Cell:



Energy Conservation achievements:

During the period 2005-2008, the unit implemented several energy conservation measures. Annual savings of Rs. 92 Lakhs was achieved with an investment of 166.46 lakhs with payback period of approx. twenty two months only.

Major projects implemented during 2007:

1. Installation of VFD s for 4 nos.of Fans:



Total 4 nos.VFD s were installed for both the Cement mills Sepax separator vent Fans, No.1 Cement mill Vent fan and Cooler seal air fan. This has resulted in a reduction in power consumption of 3.17 Lakh Units per annum.

Investment: 15.0 Lakhs

Saving: 7.60 Lakhs

2.Installation of Bell mouth in 6 nos.of Cooler fans :



For total 6nos.of Cooler fans Bell mouths were installed for the fan suction. This has resulted in a power saving of 0.71 Lakh KWh per annum

Investment: 2.5 Lakhs

Saving: 1.43 Lakhs

3. Modification of Cement mills 1 and 2 Sepax Vent fans :



Inlet box of both Cement mills Sepax fans was modified to reduce the pressure drop. This has resulted in a power saving of 1.16 Lakh units per annum.

Investment: **6.0 Lakhs**

Saving: **2.09 Lakhs**

4. Installation of new Screw Compressor:



New Elgi Screw compressor has been installed at Cement mills keeping the existing reciprocating as standby. This has resulted in a saving of 2.85 Lakh units per annum.

Investment: **10.0 Lakhs**

Saving: **2.85 Lakhs**