

Birla Cement Works, Chanderia (A Unit of M/s. Birla Corporation Limited)

Company Profile

Birla Cement Works, a unit of M/s. Birla Corporation Limited (previously known as Birla Jute & Industries Limited) was installed in 1967. Birla Corporation Limited is a multifaceted manufacturing concern producing Cement, Jute products, Synthetic yarn, Linoleum, Carbide, Steel Castings, Auto Trims etc. having Regd. Office at Calcutta.

It was a Two Stage Preheater Cyclone Kiln having 2.00 Lakh TPA capacity incorporating ESP for kiln and Raw Mill venting which was the first dry process plant having ESP in circuit. Second kiln of Birla Cement Works having identical capacity was installed in 1971 i.e. total capacity 4.0 Lakh TPA.

The company is awarded with ISO 9001-2000 and ISO 14001 certificates. The company has also applied for NABL certification.

Company has also initiated Carbon Trading activities, as there is a substantial reduction in greenhouse gases emission due to different energy conservation measures taken.

A major modification and modernisation programme was taken in 1991-92 to upgrade Birla Cement Works resulting in :

1. Conversion of Two Stage Preheater Cyclone to Five Stage Low Pressure Cyclone kiln.
2. Increased capacity of each kiln from 2.0 Lakh to 3.3 Lakh TPA.
3. Enhancing Raw Mills output by modified limestone crusher and installing high efficiency separators to match clinker production. Conversion of coal mills from open circuit to close circuit.
4. Increased cement grinding capacity by incorporating high efficiency separator to augment despatch schedule etc..
5. Due to liberalisation, some of the cement plants started using better quality coal (Imported coal). Birla Cement Works have also started using imported coal blended with indigenous coal having high Calorific Value.
6. Since Feb.02, we have started usage of petcoke (waste product of oil refineries) for kiln firing as an alternative fuel of coal.

In 1996-97, preheater fans of Kiln No.1 & 2 were replaced with high efficiency fans for enhancing clinker production from 900 TPD to 1000 TPD and reducing power consumption.

In 1998-99, Tertiary limestone crusher was further modified to reduce the size of limestone for increasing raw mill output.

By continuous monitoring of energy consumption in different sections and taking judicious steps to improve plant efficiency, the energy consumption per MT of cement despatch came down drastically and in the year 1992-93 Birla Cement Works was awarded for "Best Improvement in Energy Performance" by National Council for Cement and Building Material, New Delhi.

After converting 2 Stage Preheater Cyclones kiln to 5 Stage low Pressure Cyclones Kilns, heat consumption was also optimised and Birla Cement Works was awarded in 1992-93 for "Best Improvement in Thermal Energy Performance" by National Council for Cement and Building Materials, New Delhi.

Energy conservation plans and targets

1. Participating in Bureau of Energy Efficiency scheme for energy managers.
2. Continuous monitoring of energy norms fixed by expert agencies including National Council for Cement and Building Materials.
3. Energy Cell members are being sent to energy conservation seminars for getting new ideas of energy saving and find the ways to implement the same.
4. Interaction with other cement producers.
5. Upgradation of technical knowledge based on technological development in field.
6. Energy cell members have been asked to identify energy deficient areas / equipment to make the areas / equipment energy efficient.
7. Planning for Benchmarking activity.