

CASE STUDY 7 : MANAGING DIVERSE ALTERNATE FUELS - ULTRATECH CEMENT LIMITED, GUJARAT CEMENT WORKS

Project Implemented by : UltraTech Cement Limited, Gujarat Cement works,

Project Implemented in : 2008

Company Details

UltraTech Cement Limited, a subsidiary of Grasim Industries Limited, a group company of Aditya Birla Group is a leading manufacturer of cement in India with installed capacity of about 17 Million Tonnes Per Annum (MTPA).

UltraTech's cement plants are located in Maharashtra (Awarpur), Chhattisgarh (Hirmi), Gujarat (Kovaya) and Andhra Pradesh (Tadpatri), NCCL (Jafarabad) with grinding units at Orissa (Jharsuguda), Tamil Nadu (Arakkonam), West Bengal (Durgapur), Gujarat (Magdalla) and Maharashtra (Ratnagiri). Grasim – UltraTech Cement combined is one of the largest cement producer in India having 21% of installed Indian cement manufacturing capacity & is the 8th largest cement producer in the world.

Project Details

UltraTech Cement Limited, Gujarat Cement works (GCW) installed comprehensive system to feed alternative fuels in Calciner vessel.

Wastes such as tire chips, rubber dust, rice husk, processed municipal solid waste is fed to storage bin via ground hopper. These waste fuels will have calorific value in the range of 3000 to 3800 kCal/kg waste fuel. Alternative fuel or waste fuel will be dried, before firing to calciner vessel.

This system consists of

1. Separate belt conveyor system to carry alternative fuel in storage bin with capacity of 150 m³ and to feed Alternative fuel in calciner vessel.
2. Storage bin and weigh feeder below bin for controlled feeding of alternative fuel
3. Bucket elevator carries the waste fuel from weigh feeder discharge to feeding pan conveyor
4. Double air sluices gates at feed points avoid false air system



Recommendation to other units

It is recommend to try this project in other cement plants, wherever it is applicable.

Contact Information of the plant

Mr. K.Y. P Kulkarni

Senior Executive president & Unit Head

UltraTech Cement limited

Gujarat Cement works

Post : Kovaya

Rajula, Amreli

Gujarat

Phone : 02794-283034

Fax : 02794 – 283036

E mail : kyp.kulkarni@adityabirla.com

