

## **KALYANPUR CEMENTS LIMITED**

**Banjari, Distt. Rohtas (Bihar)**

### **Unit Profile**

Kalyanpur Cements Limited (KCL) was incorporated in 1937. It was earlier known as Kalyanpur Lime & Cement Works, it got its present name with effect from March 09, 1988.

In 1989-90, the Company embarked on a modernisation-cum-expansion scheme with the assistance of World Bank for increasing the installed capacity from 5.5 Lacs tonnes to 10 Lacs tonnes per annum based on 1,650 tonnes per day dry process kiln with a 5-stage suspension pre-heater and pre-calciner, separate roll presses for grinding raw materials clinker and slag. The scheme was completed in May 94 in technical and financial collaboration with Holder Bank Management and Consulting, Switzerland, at a cost of Rs.132 cr.

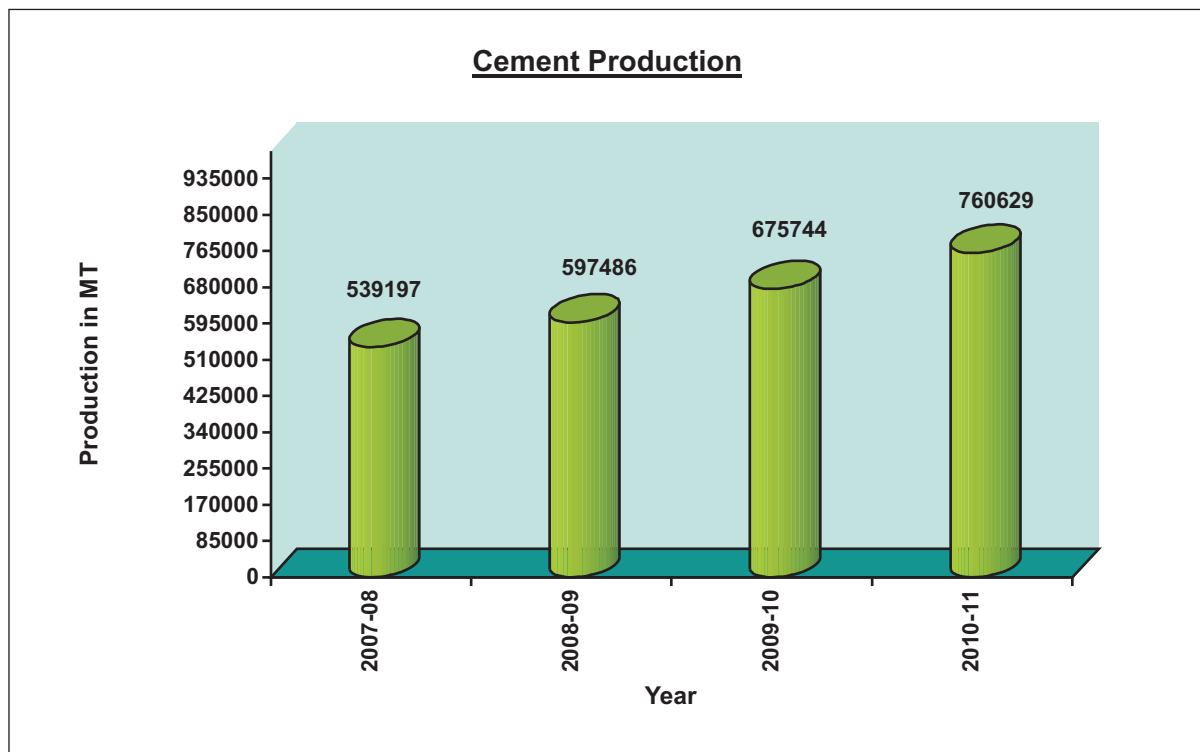
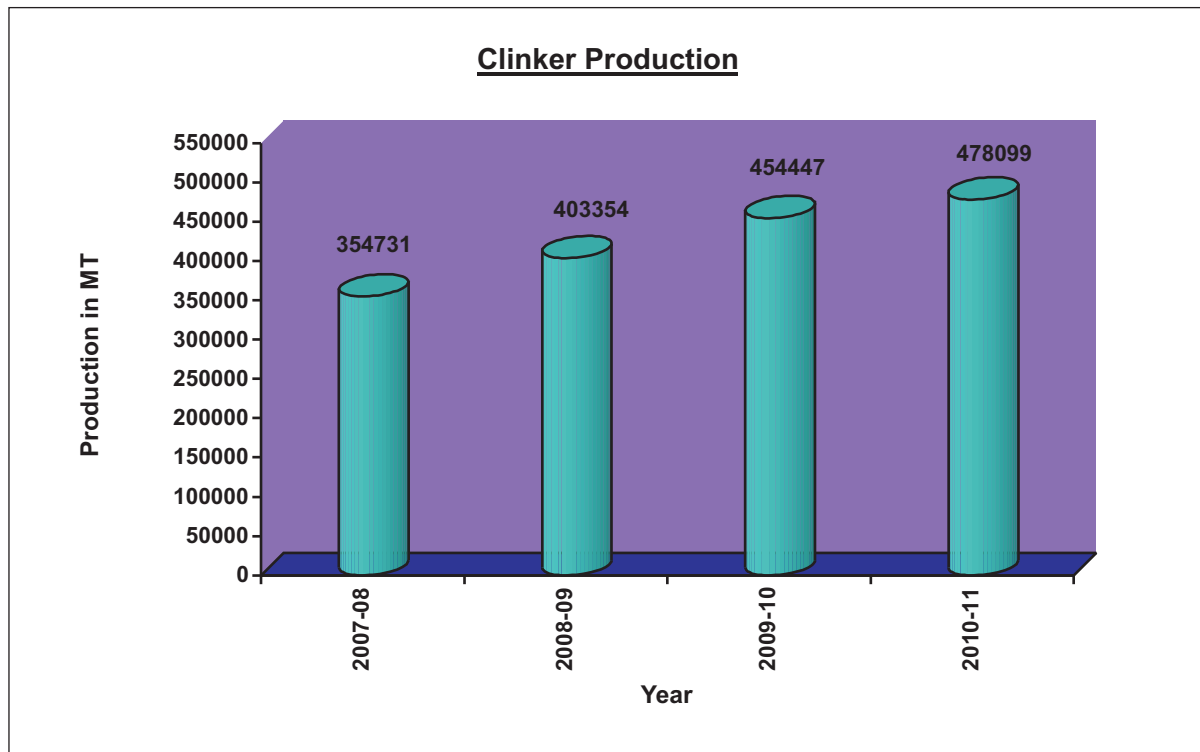
The factory of 'Kalyanpur Cements Ltd.' (KCL) is located in village Kalyanpur, P.O. Banjari, Distt. Rohtas in Bihar. Banjari is 35 Kms by road South of Dehri On Sone Railway Station [Grand Chord Eastern Railway]. The company's operations have shown a marked improvement in 2006-2007. The company markets about 80% to 90% of its products in Bihar.

Now KCL intends to expand its cement production capacity from 1 MTPA to 1.15 MTPA for the near future.



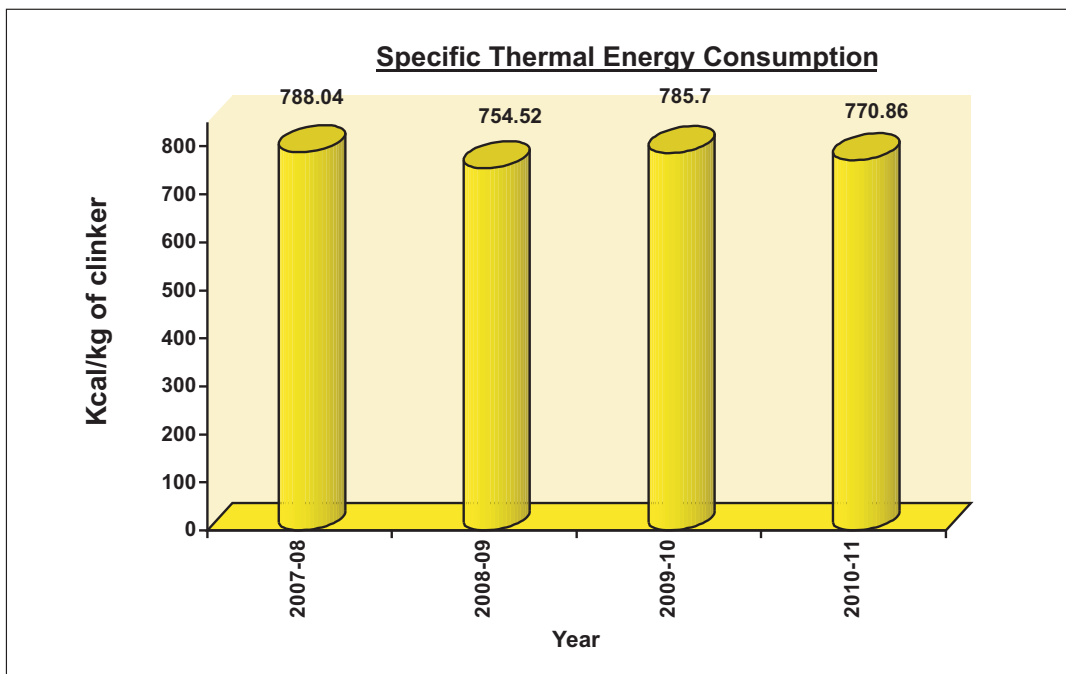
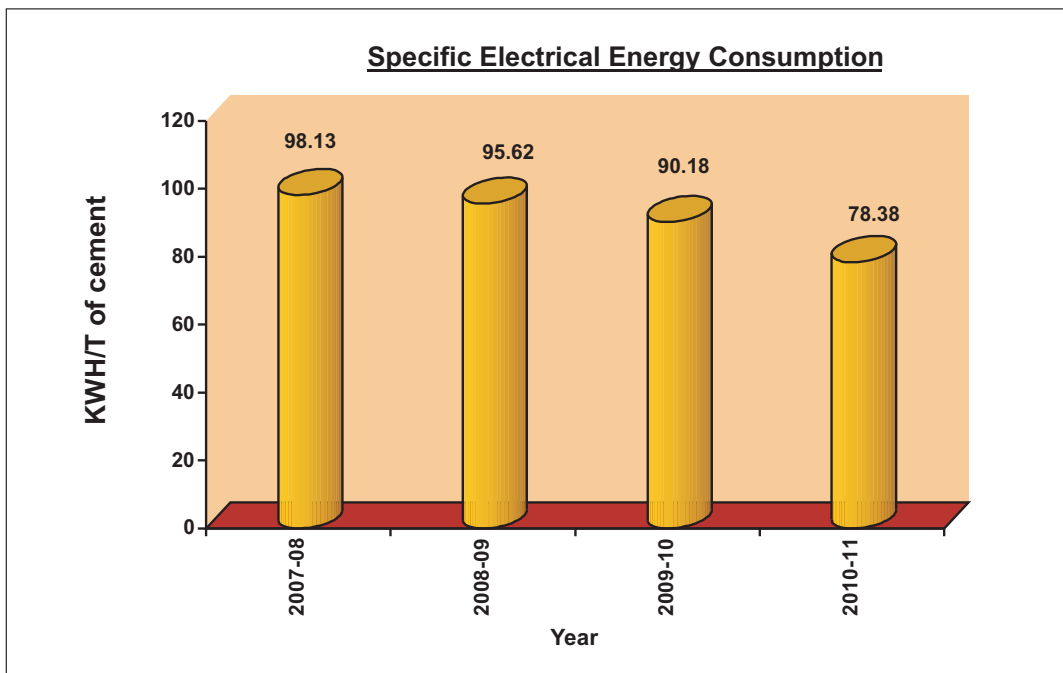
*Installed Capacity  
Clinker: 0.55MTPA  
Cement: 1.0MTPA*

## Clinker and Cement Production



### Specific Electrical Energy and Thermal Energy Consumption

Kalyanpur Cement Limited is committed to reduce energy consumption by implementation of modern technology and practices for reducing its usage of power. It installed and replaced a range of energy efficient equipments during the year 2010-11 such as high efficient fans, motors, VFDs etc. The power consumption during the year has decreased from 90.18 to 78.38 kWh/ton of cement.



## ***Energy Conservation Measures Implemented during the year 2010-11***

### **1) Replacement of low efficient compressors with high efficient compressors**

**Energy Saving : 19.6 Lacs kWh/annum**  
**Total Savings : Rs. 95 Lacs/annum**  
**Total Investment : Rs. 150 Lacs**



### **2) Improvement of system power factor**

**Energy Saving : 30.6 Lacs kWh/annum**  
**Total Savings : Rs. 148.5 Lacs/annum**  
**Total Investment : Rs. 28.1 Lacs**



### **3) Replacement of overhead crane**

**Energy Saving : 10.3 Lacs kWh/annum**  
**Total Savings : Rs. 50 Lacs/annum**  
**Total Investment : Rs. 120 Lacs**



### **4) Replacement of Process Fans**

**Energy Saving : 43 Lacs kWh/annum**  
**Total Savings : Rs. 114.5 Lacs/annum**  
**Total Investment : Rs. 154 Lacs**



### 5) Upgradation of Belt Bucket Elevator

Energy Saving	:	13.5 Lacs kWh/annum
Total Savings	:	Rs. 65.7 Lacs/annum
Total Investment	:	Rs. 277.6 Lacs



### 6) Installation of Flyash Mechanised Silo

Energy Saving	:	114 Lacs kWh/annum
Total Savings	:	Rs. 55.2 Lacs/annum
Total Investment	:	Rs. 171.3 Lacs

### *Energy Management Policy*

We, at Kalyanpur cements limited, Banjari are committed to optimally utilize various forms of energy (fuel & Power) in cost effective manner to ensure conservation of energy resources.

#### **To meet the Above GOALS, We will strive to:-**

- Reduce specific energy consumption by identifying areas of energy saving potential in the process.
- Set energy consumption targets and monitor continuously.
- Involve all the employees to work towards progressive improvements of target of energy consumption.
- Promote culture of awareness towards energy conservation in the organization.
- Implement innovation ideas for modification improvement and upgradation of the equipments & process for optimizing energy consumption.

Date: April - 2011

Place: Banjari

**D M Sinha**

Sr. V P (W) & Unit Head

## ***Environment and Safety***

### **Environment**

Kalyanpur Cement Limited is concerned for clean & green environment and committed to eco-friendly processing of cement manufacturing from mining to placement of product at users end. The entire manufacturing process is carried out by latest technology with controlled emission meeting the stringent national norms through application of the latest and advanced air pollution control equipments.

### **Safety**

Kalyanpur Cement Limited is committed for providing the safe working environment of its employees and to work within rules and procedures that facilitate their protection. There is a complete system of tracking accidents and causes of such accidents. Kalyanpur Cement Limited has separate safety committee comprising of workers and management representatives for cement plants. The key responsibility of safety committee is to create safety awareness among all workers suggestions, recommendations made in safety audit reports and ways to implement them.