

JK LAKSHMI CEMENT LTD.
Distt. Sirohi (Rajasthan)

Unit Profile

M/s JK Lakshmi Cement Ltd (JKLC) is a member of well known JK Organisation which is one of the largest privately owned industry group in India. Today M/s JKLC is one of the leading cement companies in the country. The Company strongly believes that a company can grow only when it includes largest sections of the society in its development. Company offers a work culture where every individual gets an opportunity to grow with the company. M/s JKLC have well defined core values such as caring of people, integrity with intellectual honesty, openness, fairness & trust and commitment to excellence. Company have also business vision to become 12 Million Tones by 2012 (12 x 12) with a business mission to be recognized as an efficient, competitive and premium cement brand.

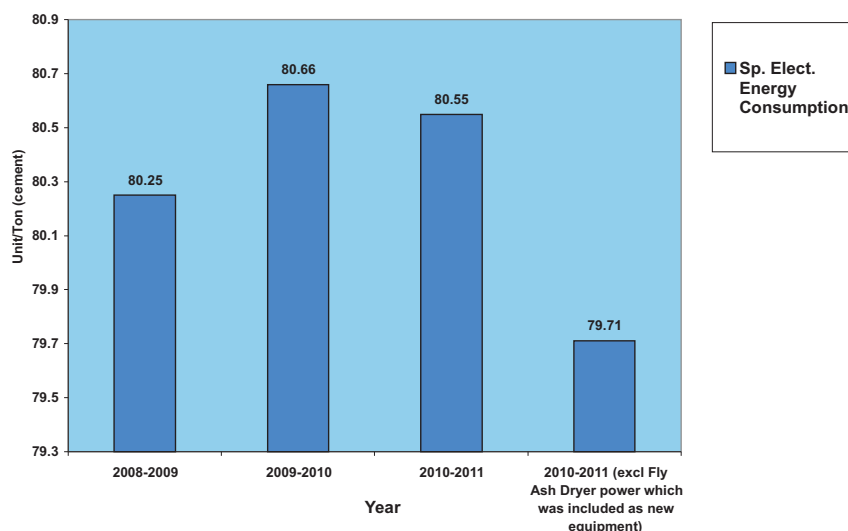
The company is confident that with the optimal use of resources and the latest technology, forthcoming years will take the company to even higher levels of glory and it will live up to the rising expectation of all the stake holders in its future journey.



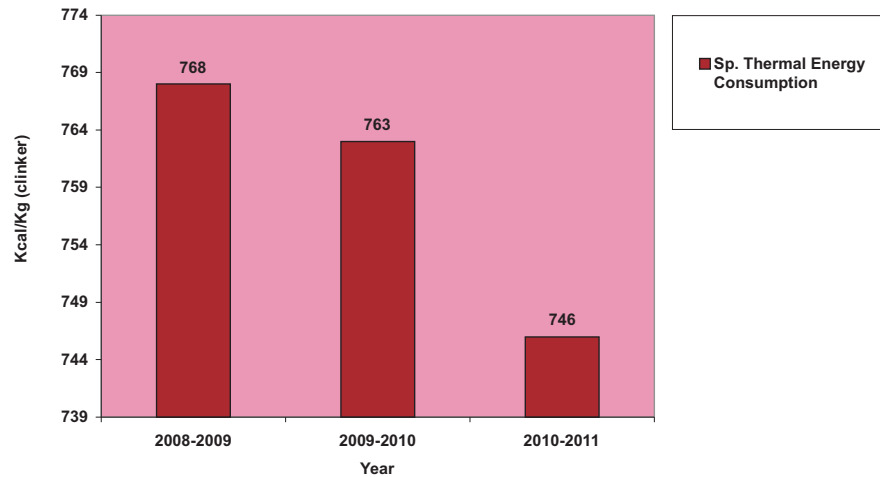
Energy Consumption

Description	Unit	2008-09	2009-10	2010-11
Installed capacity	LTPA	41.975	41.975	41.975
Actual Cement Production (excludes cement produced from grinding unit at split location in Gujarat)	LTPA	36.63	36.02	34.12
Clinker Sale (excludes clinker exported to grinding unit at split location in Gujarat)	LTPA	3.21	4.17	4.19
Total Cement Production including clinker sale	LTPA	39.84	40.19	38.31
% utilization	%	94.91	95.75	92.46
Coal consumption	Tonnes	359799	391631	373544
Electricity consumption	Lac kWh	3153.82	3366.35	3268.84
Specific electrical energy consumption (excluding crusher)	kWh/Ton of cement	80.25	80.66	80.55
Specific thermal energy consumption	Kcal/kg clinker	768	763	746
Coal consumption	Kg/ton of cement	89	85	82

Sp. Elect. Energy Consumption



Sp. Thermal Energy Consumption



List of Energy Conservation Projects

1. Optimization of operating pressure in kiln-3 preheater blaster compressor.
2. Optimization of plant lighting voltage.
3. Interconnection of compressed air pipe lines to optimize load in on compressors
4. Removal of damper of cooler fan No-9 in Kiln-2 to avoid damper losses.
5. Arresting leakages in identified process fans to avoid false air infiltration.
6. Reduction in pressure drop across damper in CIS fan-1 of Kiln-2 and CIS fan-2 of Kiln-3.
7. Extension of anti-swirl plate and reduction of cone gap in preheater fan of Kiln-1.
8. Extension of anti-swirl plate and reduction of cone gap in C. A. fan of cement mill-3 and 4.
9. Modification of PC bend to reduce fine clinker dust.
10. Installation of limit switches in cyclic valve for improving blending efficiency.
11. Reduction in false air ingress in preheater of kiln-1.
12. Modification of IKN cooler Horse-shoe of kiln-1 to avoid snowman.
13. Shifting of diaphragm in coal mill-2, to increase the length of grinding compartment.

14. Modification of retainer ring to improve brick lining life.
15. Stabilization of optimized operation of fly-ash dryer:-
 - i) Dry fly ash connected to dry fly ash bin
 - ii) Replaced modified conveying line
 - iii) Installation of air-drier to provide dry air for instrumental operation.
16. Fine tuning of HRC control loop.
17. Reduced cement mill-2 down time by:-
 - i) Internal water spray control valve made operative
 - ii) Dedicated compressor for both bag house and separate compressor for silo top bag-filter.
18. Installation of baffle plate at elevator separator discharge and modification of separator inlet air path in cement mill- 3.
19. Removal of C.A. Fan damper, extension of anti swirl plate and reduction of cone gap in cement mills Nos. – 3, 4 and 6.
20. Installation of timer based low level indicator in clinker hopper.
21. Installation of 1X15 MW Waste Heat Recovery System (WHRs) to utilize waste heat of pre-heater exhaust of Kiln-1, 2 and 3 & cooler exhaust of Kiln- 1 and 2.
22. Installation of new Chinese VRM to avoid operation of old conventional ball mill for grinding of lime stone.
23. Conversion of cement mill No-1 ESP in to bag house.

Energy Conservation Commitment, Policy and Organizational Set Up

The management of M/s.JK Lakshmi Cement Ltd. is committed to total energy management and prevention of energy wastage by:-

- Close monitoring, control and analyze the equipment and process performance for specific energy consumption.
- Explore the possibility of cheaper alternative fuel and waste products.
- Create awareness for energy conservation.
- Conduct training programs for energy consumption.

- Conduct energy audit to identify opportunities for improvement of overall energy efficiency of the plant.

The management considers energy efficiency of equipment on the basis of cost benefit analysis while purchasing the new equipments.

Energy Policy

