

# Centre of operations

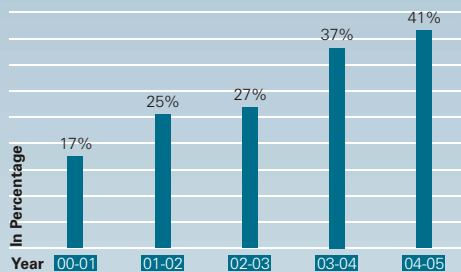
## Manufacturing advantages

Shree produced a record quantity of cement this year at 3.02 million tonnes. This it has reached on the back of the highest clinker production of 2.48 million tonnes in the history of the company.

## Cement & Clinker Production

Year	Clinker (Lac MT)	Cement (Lac MT)
2000-01	21.1	23.8
2001-02 (9 mths)	16.3	18.1
2002-03	22.9	27.5
2003-04	22.9	28.4
2004-05	24.8	30.2

## ROC as % of Total Production



ROC production in relation to the total has been increasing over time. This meant that a lower quantity of clinkers was needed per tonne of cement every passing year.

The company has maintained its record of keeping capacity utilisation above rated capacity.

## Cement Production and Capacity Utilisation

Year	Installed Capacity (Lac tonnes)	Production (Lac tonnes)	Capacity Utilisation (%)
2000-01	20.0	23.8	129
2001-02*	16.8	18.1	107
2002-03	26.0	27.5	106
2003-04	26.0	28.4	109
2004-05	26.0	30.2	116

\*For nine months .

## Kiln operations

Kiln productivity has improved over the year with better maintenance and innovative procedures. For instance, the brick lining of the kiln was carried out by the screw jack method to reduce stoppage time by two days, which meant saving of about Rs. 39 lacs. In another operation, its ring coating was removed by the Bob Cat machine, instead of manually, to cut down downtime to 62.45 hours from 156 hours.

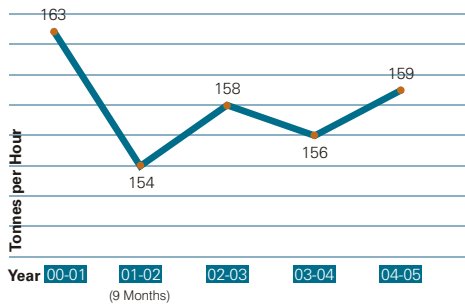


# Shree

## Looking back; looking ahead



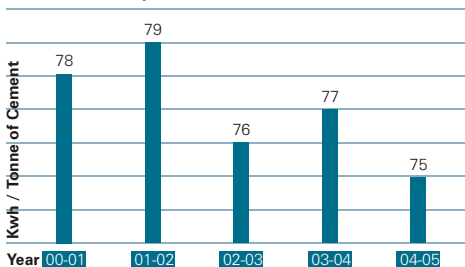
### Kiln Productivity



Other initiatives that contributed to overall productivity included installation of triplet cyclones in Unit II to increase production by 100 TPD (equivalent to a gain of about Rs. 1.9 crore a year).

Operational efficiency of the plants has increased over the years. This can be gauged by the power consumption per tonne of cement produced.

### Power Consumption



### Automation

Automation has been proceeding at a healthy pace at Shree. During the year, operations of two compressor houses, limestone hoppers, crusher at village Ras, Suratgarh fly ash project, clinker feeding, two water pump houses, among others, have been automated, thereby reducing the need for manpower.

### Productivity (Best achievement)

Section	Unit-I		Unit-II	
	Guaranteed	Best Achievement	Guaranteed	Best Achievement
Raw Mill	210 TPH	278 TPH (day)	300 TPH	444 TPH (day)
		225 TPH (month)		395 TPH (month)
Kiln	2200 TPD	4173 TPD (day)	3700 TPD	5610 TPD (day)
		3432 TPD (month)		4752 TPD (month)
Cement Mill	125 TPH	219 TPH (day)	210 TPH	369 TPH (day)
		175 TPH (month)		286 TPH (month)



### 'What Next?'

Boosting operational efficiency and manpower productivity in the plant is critical to reaching the high production targets of Shree. We aim to produce 31.5 lac MT by the year 2005-06 with 50% of it being production of ROC. We expect to achieve this with a lower power consumption of 73 units per tonne. In the pipeline is the close-circuiting of Unit II to achieve about 6% more output and greater control over quality. In line with Shree's tilt towards production of its ROC brand and its energy-saving initiatives, a second silo will be installed with a truck unloading system to stock fly ash.

**S M Khira**

Vice President (Tech.)