



## **UNIT PROFILE:**

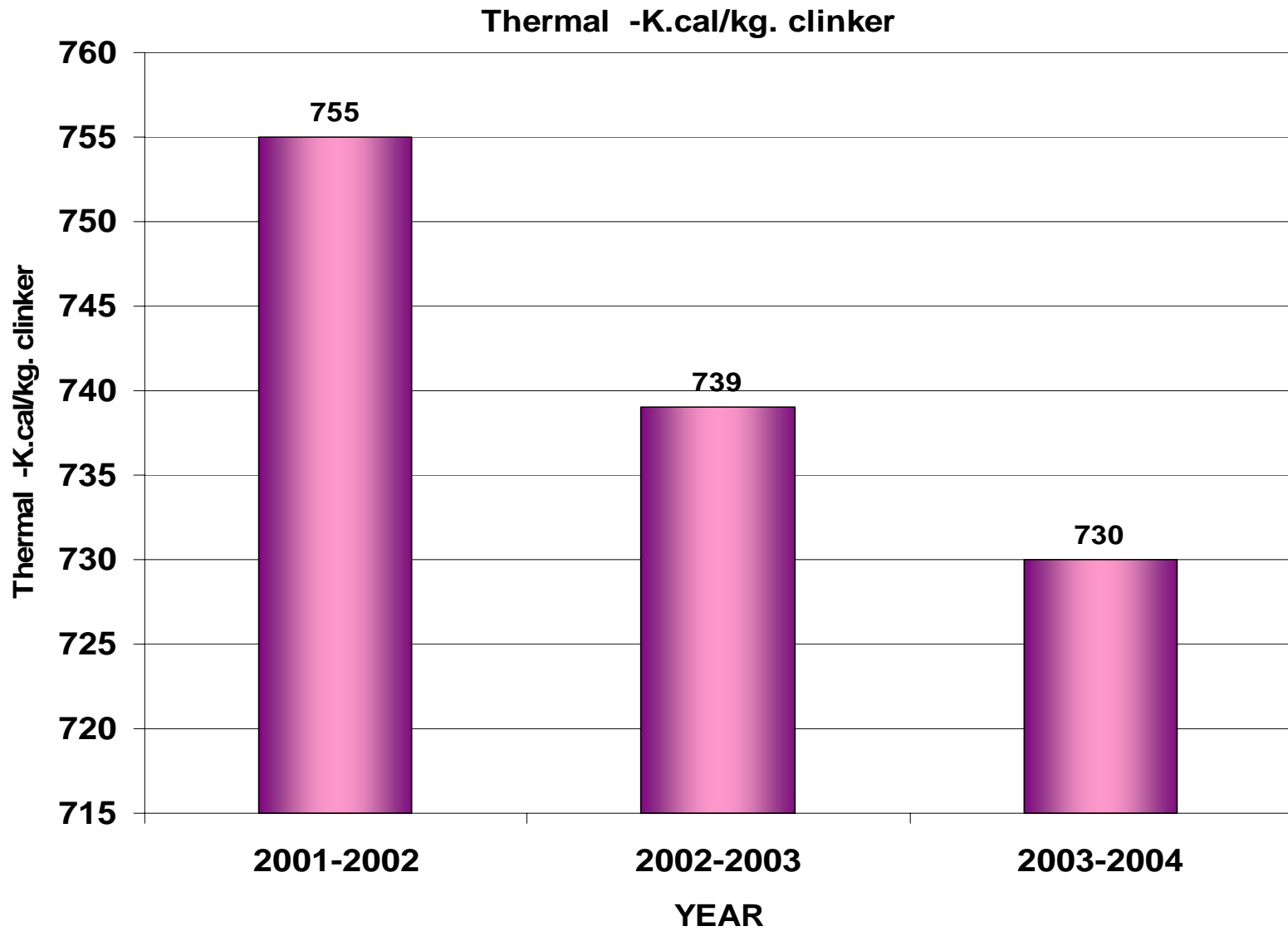
Chanda Cement Works, the first cement manufacturing unit of ACC in Maharashtra State was Commissioned in 1970. This was a dry process cement plant with two kilns with 4 stage Preheater system each with an installed Capacity of 600 TPD.

MFC for both the Kilns were installed in 1980 to enhance the output to 850 tpd and further Modified to NMFC in 1989-90 to enhance the output to 1000 TPD. In the year 2000-01, the 6 stage preheater system with PC were Commissioned to enhance the output to 1350 TPD.

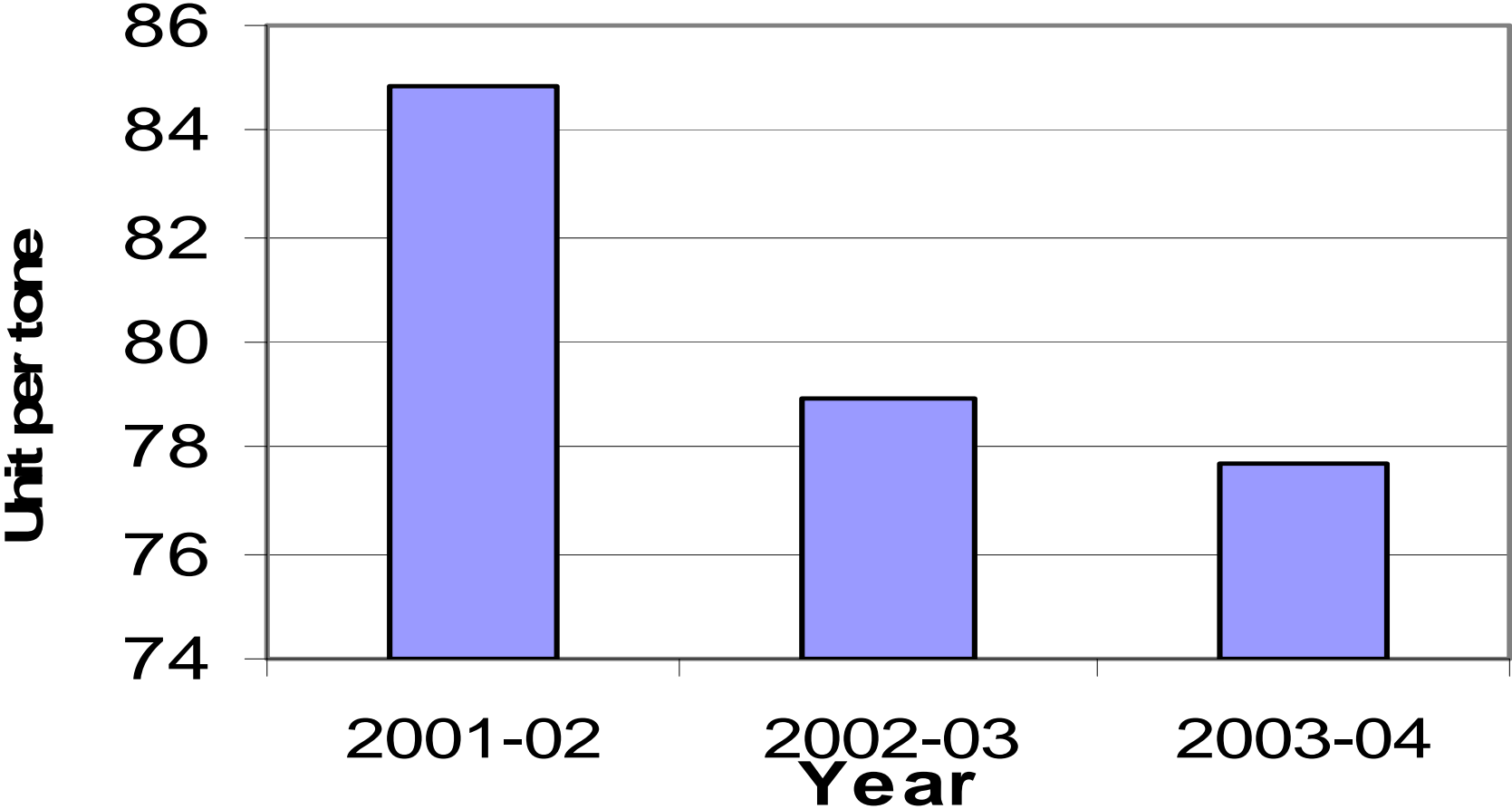
After optimisation of the process , the capacity has become 1400 TPD. The Main products are OPC-43, OPC-53 (Samrat), & PPC (Fly ash based) branded as SURAKSHA.

To enhance the cement grinding capacity the VRM Pre-grinder was installed for cement mills followed by close-circuiting of cement mills for better particle size distribution.

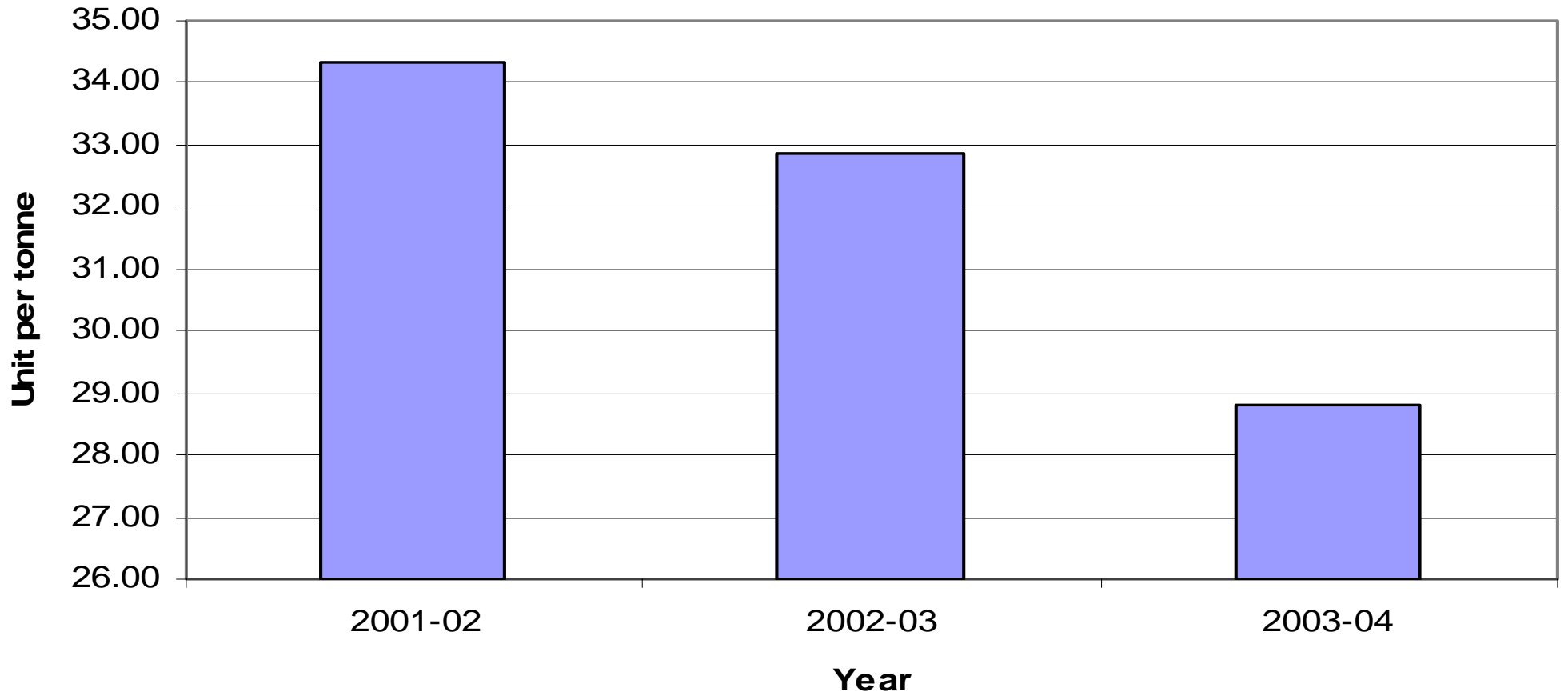
Pneumatic conveying system for cement has been replaced with mechanical conveying system. A 15 MW Captive Thermal Power Plant has been commissioned in 2002-03



# Chanda - Power consumption upto Clinkerisation



### ACC Chanda Power consumption for Grinding

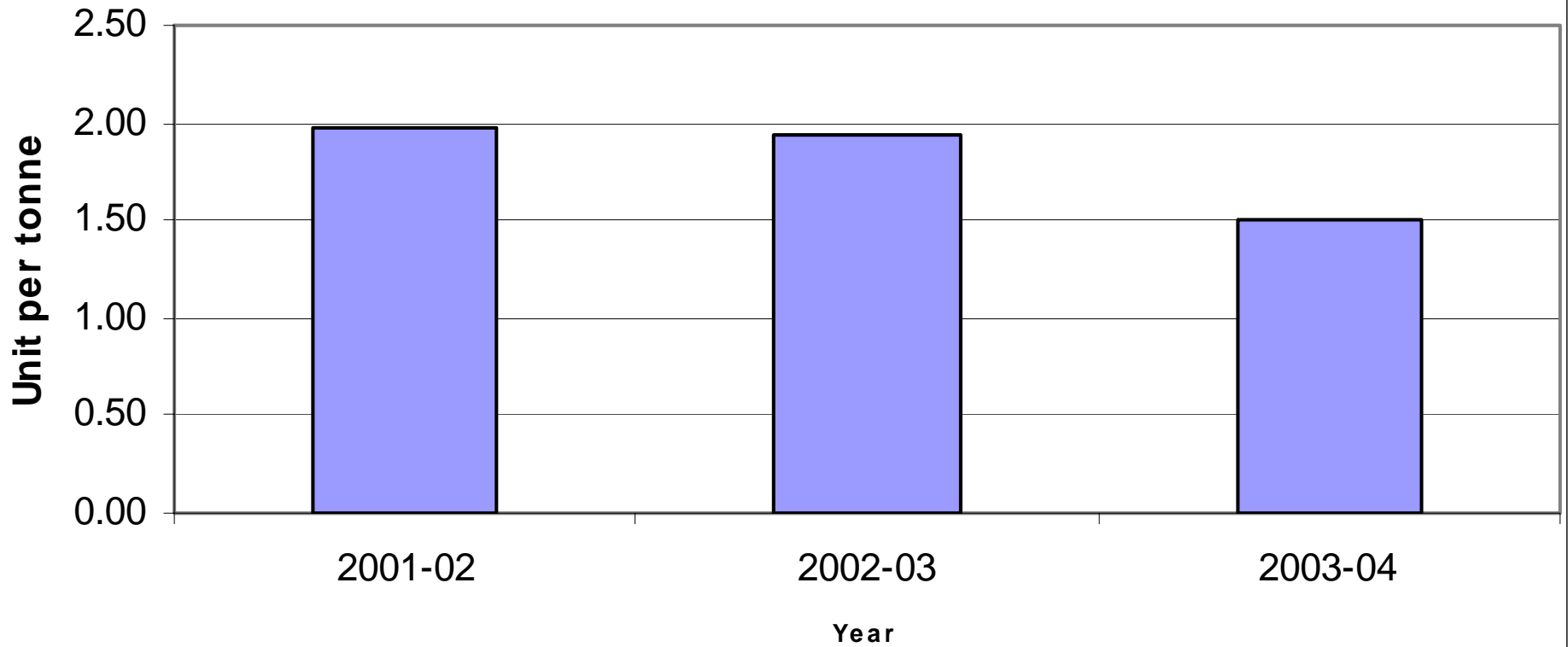




**ACC**

# ACC CHANDA CEMENT WORKS

**Chanda Power consumption for Packing**



Energy Conservation Commitment, Policy and Organizational Set up  
(Please include a photo copy of unit's Energy Conservation Policy, if decided)

**The Energy management activities are done on daily basis.**

**The power consumption of each department is communicated to the Head of depts. well before the daily meeting so as to communicate the same to down the line for actions to be taken.**

**The Energy Management Cell Set up is as under :**

**Chairman:**

**Vice President**

**Energy Managers:**

**Dy.Mgr-Eelc & Dy.Mgr.-Process**

**Members:**

**All HODs**

**Energy Auditors:**

**Dy.Manager-Plant-Cement Mills, Asst.Manager-CPP**

**Energy Conservation Policy yet to be decided.**

## Energy Conservation achievements during 2003-04:

- i) Provision of water spray system in both clinker coolers
- ii) Replacement of RM-3 Sepax reject airslide with belt conveyer(inhouse)
- iii) Utilisation of packing plant recirculation water,i.e.,reduction of water pump running hours by 3.0hrs
- iv) Improvent of power factor & discount achieved
- v) Optimisation of compressed air in packing plant
- vi) Derating of compressor air pressure by optimisation
- vii) Modification of distribution in UPS supply by reducing number of AMC's.

The above projects were implemented with an investment of only Rs.4.0 L which resulted in 14.8 Lakh Kwh saving equivalent to Rs.59.60 Lakhs per annum.

## **Energy conservation plans & targets**

<b>Energy conservation measures (Planned)</b>	<b>Anticipated savings in Energy</b>	<b>Approx. investment (Rs.L)</b>	<b>Project commencement &amp; completion year</b>
Dynamic separator for Coal Mills 1,2&3	5.34	20	2004
Automation of Packing House (Packer 1 & 2 circuit)	4.05	5.5	2004
Remote operation of Coal Mill 1&2 and Raw coal transportation from Kiln control Room	2.97	15	2004
Replacing the existing 960 KW HT motor with 650 KW HT motor-2 nos- Waste Gas Fan of Kiln 1&2	12.83	20	2005
Replacing the existing 185 KW HT motor with 185 KW LT motor with VVVF for FD Fan s of CPP Boilers - 2 no	25.2	18	2005

## Environment & Safety:

All measures are being taken continuously by the Management towards The safety and environment on top priority. Tree plantation is being done intensively Inside plant as well as in the nearby areas. Certification of ISO-14001 is under Progress.

Priority is being given towards :

Mineral conservation by utilising waste products

Recycling & re-use of natural resources

Implementation of TPM & TLM