

## Ultra Tech Cement Limited Dhutra Orissa

### UNIT PROFILE



### (UltraTech Cement Limited, Jharsuguda Cement Works, Orissa)

Jharsuguda Cement Works is one of the manufacturing unit of M/s UltraTech Cement Limited, an acknowledged market leader in Cement Business .It is an Aditya Birla Group company. This is a grinding unit manufacturing Portland Pozzolana Cement. The plant installed capacity is 7.50 lacs ton of cement grinding per annum However , with various up gradation and improvements the production capacity has been increased. The total production for the year 2006-07 was 8.93 lacs ton. This year 2007-08 the production target is 10.29 lacs ton.

Jharsuguda Cement Works is certified for ISO 14000 ,ISO 9000 and OSHSAS 18000. We have also adopted World Class Manufacturing standard for excellence.

### RAW MATERIALS

Jharsuguda Cement Works produces Portland Pozzolana Cement by grinding the three raw materials viz Clinker ,Flyash and Gypsum.

Clinker: (Calcined form of lime stone) procured from UltraTech Cement Limited, Hirni Cement Works

Gypsum(mineral): It is procured from Jodhpur Fertilizer India Corporation, Rajasthan

Fly ash: It is a by-product of Power Plants, procured from HINDALCO- Hirakud, & Orissa Power Generation Corporation, Banaharpali, Dist:Jharsuguda

### POWER SUPPLY

The energy cost is 5% of the manufacturing cost. The Electrical power utilized for manufacturing cement is being supplied by M/s Western Electricity Company Limited..

## (ii)ENERGY CONSUMPTION

With the implementation of various energy conservation measures as our ongoing practice, there is a steady decline of specific energy consumption. During last three years the specific energy consumption has reduced as shown below which depicts continual reduction in energy consumption over last two years .This happened due to our sustained efforts to conserve energy with the implementation of various energy conservation initiatives & improvement ideas to enhance the efficiency of equipments.

DESCRIPTION	UNIT	2004-05	2005-06	2006-07
Electrical Energy consumption	kwh/ton	38.70	36.74	34.45
Thermal Energy consumption	M kcl/ton	14.81	9.44	0.93
Total Manufacturing cost	Rs.lakhs	14285.77	15837.40	18531.57
Total Energy Bill	Rs.Lakhs	981.56	1005.69	994.90
Energy as % of total cost of production	%	7	6	5

## (iii)Energy Conservation Commitment, Policy and Organizational Set up

(Please include a photo copy of unit's Energy Conservation Policy, if decided)

## (iv)Energy Conservation Achievements

Various kind of energy conservation has been adopted , the details achievement is enclosed.

## (v)Energy Conservation Plans and Targets

Planned Specific Energy Consumption Target for the year 2007-08 & 2008-09				
Year	Electrical kwh/ton	Thermal	Reduction over the year 2006-07	
			Electrical %	Thermal %
2006-07 (Base year)	34.45		8.08	
2007 - 08	32.00	0	7.11	0
2008 - 2009	30.00	0	6.25	0

## PROCESS

The entire process is divided in to two parts i.e cement grinding and packing. The clinker, Flyash and gypsum are mixed together and ground in the Horizontal Ball Mill for producing cement. The product is being transported through screw conveyor and bucket elevator and stores in RCC silos. As per the demand of the market and requirement given by Cement Marketing, the same is bagged in the packer machine and by the loading machine. This cement is being transported to the customer by railways wagons or trucks.

## LOCATION

Jharsuguda Cement Works is situated in the District of Jharsuguda, in the Western part of Orissa. It is on the Howrah – Bombay Rail line situated near Dhutra Railway Station, which is 10 kms from Jharsuguda Railway Station. It is situated in the revenue village Arda, 12 kms by road from Jharsuguda in Jharsuguda Laikera Road.

## LAND

The total land acquired for establishment of the factory in the Revenue Circle Arda is 165 acres.

## ESTABLISHMENT

The land acquisition was completed by May'92 and the factory was established by Mrch'93 and commercial production was stated on 14<sup>th</sup> September 1993.

### (vi)Environment and Safety

(A sample write up is attached at Annexure `C' for ready reference)

a) State Pollution Control Board ,Govt.Orissa has given their consent for existing/new operation of plant under Section 21 of the Air(Prevention and Control of Pollution) Act, 1981 vide their consent order no.357/SPCB/BBSR-IND-1(CON)-1272 ,dtd 06.-01.2007.A copy of consent order is enclosed.

b) State Pollution Control Board ,Govt.Orissa has given their consent for discharge of sewage and/or trade effluent under section 25/26 of Water(Prevention and Control of Pollution) Act, 1974 vide their consent order no.359/SPCB/BBSR-IND-1(CON)-1272 ,dtd 06.-01.2007.A copy of consent order is enclosed.

c) Top management is strongly committed for safety of the Men & Machinery .Our aim is **Zero Accident** . We have crossed 500 days accident free days so far .A safety officer is has been nominated for controlling the abnormalities and implementing the new improvement initiatives in coordination with the concern section in charge. All the near miss cases are being reported and necessary action has being taken earliest to avoid the same. Safety abnormality list is being generated for unsafe act or unsafe place . A safety Committee has been formed comprising with the workmen level to Unit head level .Review of all safety related issues are being done in the safety committee meeting on monthly basis. Mock drills are being observed regularly.

Jharsuguda Cement Works is certified OSHAS 18000.A copy of certificate is enclosed.

d) The employees of the department where there is no accidents are being appreciated by giving them one day increments in their basic salary. However incase of failure the employee along with the concerned in charge not elevated to the next level .

21.Whether any dispute pertaining to statutory requirements of safety and pollution control is pending with any Government Agency. If Yes, give details:

There is no dispute pertaining to statutory requirements of safety and pollution control is pending with any Government Agency

## PRODUCTION & DESPATCH

Year	Production (In Lacs MT)	Despatch (In Lacs MT)
1993-94	1.43	1.33
1994-95	3.96	3.95
1995-96	5.34	5.37
1996-97	5.54	5.56
1997-98	7.53	7.56
1998-99	6.21	6.21
1999-2000	6.34	6.34
2000-2001	7.37	7.37
2001-2002	6.79	6.80

2002-2003	6.10	6.10
2003-2004	5.22	5.25
2004-2005	7.78	7.76
2005-2006	8.82	8.82
2006-2007	8.93	8.87