

UltraTech Cement Limited Magdalla Works



Unit Profile

UltraTech Cement, Magdalla Works is a Cement Grinding Unit of 0.7 MTA capacity established in the Year 1982. Unit is situated on the banks of river Tapti at Surat engaged in manufacturing of Cement – OPC53 & PPC grade by grinding Clinker. It receives clinker through ships from its mother unit located at Jafrabad, Saurashtra region of Gujarat. Our dispatches are at Local markets of surat & nearby districts. Our logistics distance is 50-70 kMs. Unit is conferred with the ISO 9001:2000, ISO 14001:2004 & OHSAS 18001:1999 certifications.

During Year '2007-08, we have manufactured cement of 5.5 LMT & total annual sales are Rs. 171 Crores.



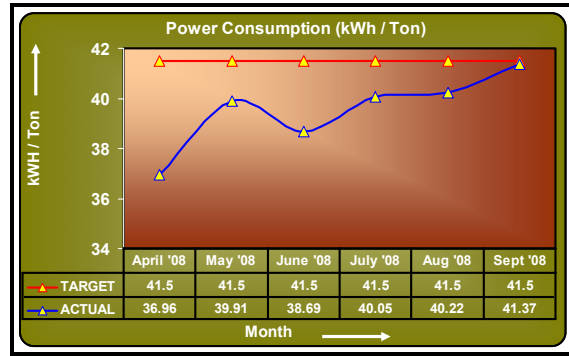
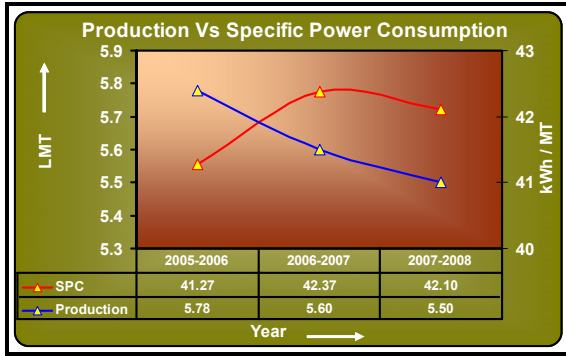
Energy Consumption

Due to various constraints like flood & others our plant was under shutdown for 02 months in year '2006 & 01 month in year '2007. With this our productivity had been reduced & specific power consumption was on increasing trend. However due to various energy conservation measures, same was within limit.

With the various energy conservation measures & increase in productivity our specific energy consumption for the year H1 '2008 has reduced & is 39.5 kWh/MT.

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Contribution of energy cost to manufacturing cost was 17.51%, 16.23% & 12.82% for year 2005-06, 2006-07 & 2007-08 respectively. Here contribution of energy cost compare to raw materials on manufacturing cost is on decreasing trend. This indicates that not only energy conservation but conservation of raw materials are more important and accordingly we have focused on it & **increased mixing share of Fly ash with clinker from 9% to 13% in the year 2005-08.**

Details	Unit	2005-2006	2006-2007	2007-2008
Electrical Energy Consumed	L kWh	238.48	237.28	231.54
Total Production	LMT	5.78	5.60	5.50
Specific Power Consumption	kWh / MT	41.27	42.37	42.10
Total Manufacturing cost	Rs. Lacs	7042.10	7961.73	9795.8
Total Energy Cost	Rs. Lacs	1233.19	1291.96	1255.95
Energy cost as % of Manufacturing	%	17.51	16.23	12.82

Energy Conservation Commitment, Policy and Organizational Set up

NMGD plant was established a long back in 1980's & very old plant having hard wired relay logic control systems & old equipment. Plant had adopted time to time various new technologies for the better efficiency. **Budgetary approval has been allocated in Year 2007-08 for Rs. 331 Lac for the up gradation of the plant's control system to PLC based.** Budgetary approval will be assigned & given priority for the project pertaining to energy & raw material conservation.

Capital Budget allocation for the Resource Conservation


Year	Fund Allocation	Fund Utilized
2005-06	No Budget	--
2006-07	Rs. 7.72 Lac	7.71
2007-08	Rs. 22.57 Lac	9.14
2008-09	Rs. 14.36 Lac (Under approval process)	
TOTAL	Rs. 30.29 Lac	Rs. 16.65 Lac

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EM Policy



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Magdalla Works**

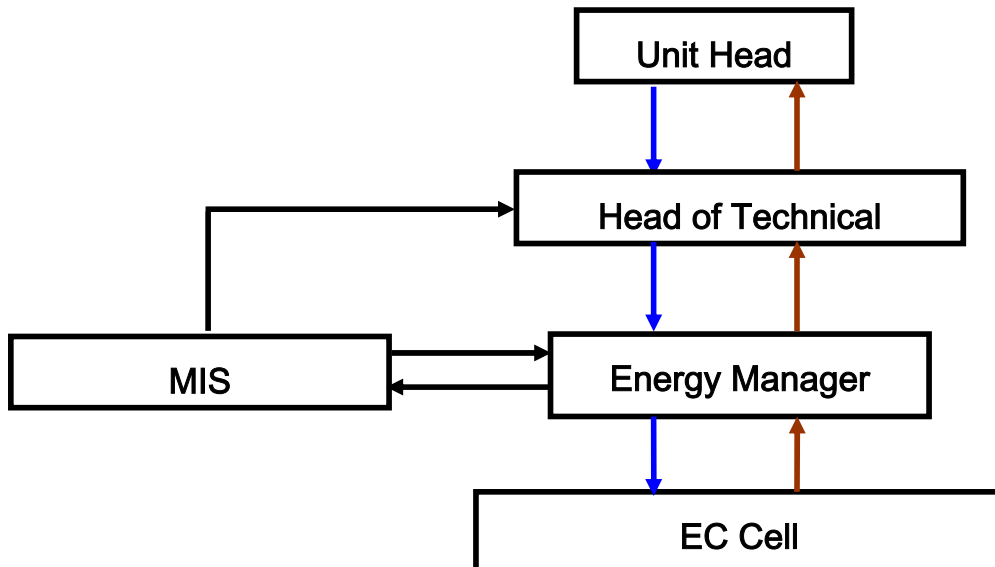
Energy Management Policy

We are committed to become an Energy efficient organization by utilizing the energy & raw materials efficiently and conserving the natural resources by utilizing industrial waste like Fly Ash, Gypsum, etc.

We are committed to promote awareness of energy conservation by doing periodic audits and to implement the action points for the same.

B. L. Deopura
Unit Head

Organizational Setup for Energy Conservation









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At a glance: Implemented projects for Energy & Raw material conservation

#	STEPS TAKEN	Investment in Rs.	Saving in kWh/Annum	Savings (Rs.5.45/kWh)	Payback Period	
1	Installed voltage stabilizer for lighting load at main gate & laboratory.	169000.00	10570	57606.00	35 Months	
2	Air optimizer was installed in compressor house.	350000.00	81360	443412.00	9.5 Months	
3	Install VFD on Ball Mill Dust collector fan (90 KW) & removed damper control.	318000.00	21480	117066.00	32 Months	
4	Install VFD on O'sepa Dust collector fan (75 KW) & removed damper control.	283000.00	90216	491677.00	7 Months	
5	Ball Mill Dust collector fan (90 KW) motor replaced by EE motor.	141578.00	20522	111846.00	15 Months	
6	O'sepa Dust collector fan (75 KW) motor replaced by EE motor.	164259.00	25448	138689.00	14 Months	
	TOTAL	1425837.00	249596	1360298.00	12 Months	

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Future Plans

#	Future Plan	Approx. Investment (In Rs)	Energy Saving (kWh)	Savings (In Rs.)	Payback Period
1	Replacing motors with Energy Efficient motors (41 Nos)	760000.00	144000	863000.00	11 Month
2	VFD for 30 kW Fan for Mill motor Stator cooling Fan	300000.00	21600	129000.00	28 Month
3	Soft starter for Grab & Hoist motor of clinker Unloader	1036000.00	36540	219000.00	57 Month
4	VFD for LT & CT drive of clinker unloader	652000.00	34950	209000.00	37 Month
5	Transvector nozzles for the cleaning points (6 Nos)	10000.00	19800	119000.00	1 Month
6	Silo Aeration blower (15 kW) drive system replacing with Flat belt from V-belt	12000.00	31680	190000.00	1 Month

Environment

Unit is doing enormous effort for the conservation of the environment. To maintain the conditions **unit is spending 1.5 kWh/MT of cement on account of running of dust controlling equipments.**

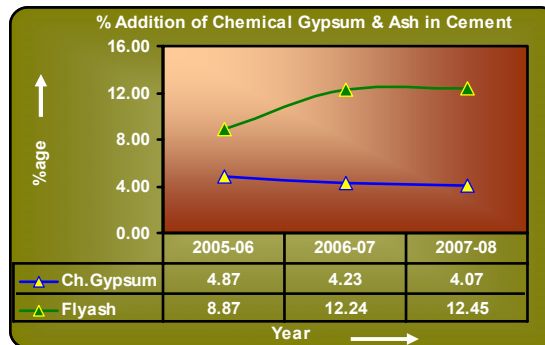
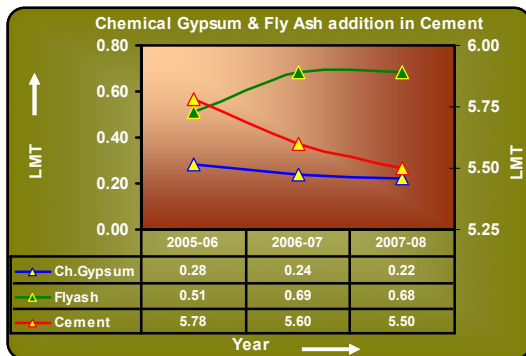
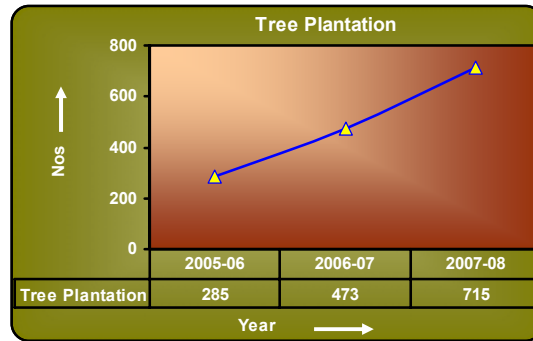
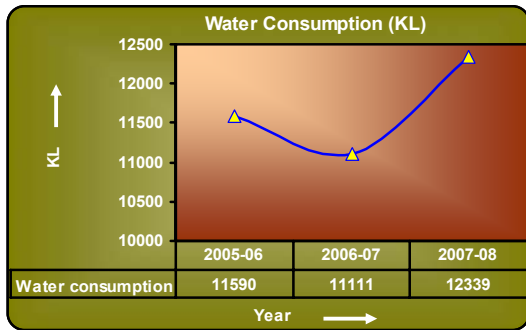
Green View of Plant



Green Belt at a Glance

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Usage of Industrial waste which otherwise put burden on environment, Further with this nature sources of raw material are conserved.

Celebration of World Environment Day (5th June of Every Year)



Employees Taking Oath



Trees Plantation



Prize distribution