




**Energy Conservation Measure implemented in 2007-2008**

(To be filled up separately for each Energy Conservation Measure)


ID to be filled by BEE	Title of the measure	Sector - Cement (Grinding)			
Year to be filled by BEE	75 KW VFD DRIVE INSTALLED FOR O'SEPA DUST COLLECTOR FAN. (50 FN-2 Fan)	Technology .....			
Description of the energy conservation measure:					
DAMPER WAS USED FOR CONTROLLING THE DRAFT OF THE O'SEPA CIRCUIT. VFD IS INSTALLED TO CONTROL THE DRAFT AS PER THE REQUIREMENT BY VARYING THE SPEED OF THE FAN THROUGH VFD.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
DOL Starting method with Damper control			 <p>Provided Variable Frequency drive to control the draft of separator circuit by varying the speed of fan</p>		
Agency that executed the project (with complete address and email): NIDHI SYSTEMS, B-117, U.U.N. SAHAKARI SANGH COM.COMPLX, CENTRAL ROAD NO.10, nidhisys@hotmail.com					
Total investment, Rs.: 2,83,000			Year of implementation: 2007-08		
First year energy cost savings, Rs.: 491677.00					
First year other savings, Rs.: NIL					
On annual basis	MWh/PA	Coal (Tons )	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	371.53	NA	NA	NA	NA
Energy consumption after	281.45	NA	NA	NA	NA
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	5.45/KWH	NA	NA	NA	NA
Company complete address: M/s. UltraTech Cement Limited Unit: Narmada Cement - Magdalla Works, Magdalla port, Dumas Road, SURAT – 395 007. District Surat, Gujarat State				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: Mr. R. B. Verma				Signature	
				Date	

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**Energy Conservation Measure implemented in 2007-2008**

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ID to be filled by BEE	Title of the measure	Sector Cement (Grinding)			
Year to be filled by BEE	90 KW VFD DRIVE INSTALLED FOR MILL DUST COLLECTOR FAN. (G-69 Fan)	Technology .....			
Description of the energy conservation measure:  DAMPER WAS USED FOR CONTROLLING THE DRAFT OF THE MILL CIRCUIT. VFD IS INSTALLED TO CONTROL THE DRAFT AS PER THE REQUIREMENT BY VARYING THE SPEED OF THE FAN THROUGH VFD.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
DOL Starting method with Damper control			 <p>Provided Variable Frequency drive to control the draft of separator circuit by varying the speed of fan</p>		
Agency that executed the project (with complete address and email): NIDHI SYSTEMS, B-117, U.U.N. SAHAKARI SANGH COM.COMPLX, CENTRAL ROAD NO.10, nidhisys@hotmail.com					
Total investment, Rs.: 3,18,000.00			Year of implementation: 2007-08		
First year energy cost savings, Rs.: 1,17,066.00					
First year other savings, Rs.: NIL					
On annual basis	MWH/PA	Coal (Tons )	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	294.17	NA	NA	NA	NA
Energy consumption after	272.77	NA	NA	NA	NA
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	5.45/KWH	NA	NA	NA	NA
Company complete address: M/s. UltraTech Cement Limited Unit: Narmada Cement - Magdalla Works, Magdalla port, Dumas Road, SURAT – 395 007. District Surat, Gujarat State				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: Mr. R. B. Verma				Signature	
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ID to be filled by BEE	Title of the measure		Sector Cement (Grinding)		
Year to be filled by BEE	AIR OPTIMIZER INSATLLAED IN COMPRESSOR HOUSE.		Technology .....		
Description of the energy conservation measure: Installed air optimizer in the compressed air circuit					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
<p>Process demand variation direct imposed on the compressor &amp; this led to frequent load / unload.</p>			 <p>Installed air optimizer. This absorbs the process demand variation &amp; put constant requirement on the compressor.</p>		
Agency that executed the project (with complete address and email): GODREJ & BOYCE MFG. CO. LTD., E&E DIVISION, PI-35, CAMS, PIROJSHANAGAR, VIKHROLI, sukhoi@godrej.com & vilas@godrej.com					
Total investment, Rs.: 3,50,000			Year of implementation: 2007-08		
First year energy cost savings, Rs.: 4,43,412.00					
First year other savings, Rs.: NIL					
On annual basis	MWH/PA	Coal (Tons )	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	791.76	NA	NA	NA	NA
Energy consumption after	710.42	NA	NA	NA	NA
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	5.45/KWH	NA	NA	NA	NA
Company complete address: M/s. UltraTech Cement Limited Unit: Narmada Cement - Magdalla Works, Magdalla port, Dumas Road, SURAT – 395 007. District Surat, Gujarat State  Contact person who could be contacted for more information: Mr. R. B. Verma				We authorise Bureau to use this information for dissemination  Signature  Date	

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ID to be filled by BEE	Title of the measure		Sector Cement (Grinding)		
Year to be filled by BEE	Energy Efficient motor instead of Standard Motor		Technology .....		
Description of the energy conservation measure:					
Replaced old (25 years) motor of G-69 & 50 FN-2 (90kW & 75 kW) with energy efficient motor					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
Earlier motor efficiency was 85% & was very old & re-winded for 2-3 times			 <p>Replaced the same with high efficiency motor (95%).</p>		
Agency that executed the project (with complete address and email): Motor supplied by M/s. Siemens & Installed internally.					
Total investment, Rs.: 3,05,837.00			Year of implementation: 2007-08		
First year energy cost savings, Rs.: 2,50,535.00					
First year other savings, Rs.: NIL					
On annual basis	MWH/PA	Coal (Tons )	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	554.22	NA	NA	NA	NA
Energy consumption after	508.25	NA	NA	NA	NA
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	5.45/KWH	NA	NA	NA	NA
Company complete address: M/s. UltraTech Cement Limited Unit: Narmada Cement - Magdalla Works, Magdalla port, Dumas Road, SURAT – 395 007. District Surat, Gujarat State				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: Mr. R. B. Verma				Signature	
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ID to be filled by BEE	Title of the measure		Sector Cement (Grinding)		
	Air pressure optimisation.				
Year to be filled by BEE			Technology .....		
Description of the energy conservation measure:					
Optimised the air pressure at Unloading & loading point of compressor from 7.8 to 6.1 For unloading & 6.5 to 5.5 for loading					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
Earlier pressure set-point was high w.r.t Process demand.			Loading-unloading set-point changed as per the process requirement.		
Agency that executed the project (with complete address and email): Internally					
Total investment, Rs.: 0.00			Year of implementation: 2007-08		
First year energy cost savings, Rs.: 3,68,000.00					
First year other savings, Rs.: NIL					
On annual basis	kWh 000'	Coal (Tons )	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	508.25	NA	NA	NA	NA
Energy consumption after	441.25	NA	NA	NA	NA
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	5.45/KWH	NA	NA	NA	NA
Company complete address: M/s. UltraTech Cement Limited Unit: Narmada Cement - Magdalla Works, Magdalla port, Dumas Road, SURAT – 395 007. District Surat, Gujarat State				We authorise Bureau to use this information for dissemination	
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