


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 Installation of high efficiency cooler vent fan	Sector : Large Scale			
Year to be filled by BEE		Technology : Cement manufacturing			
Description of the energy conservation measure: After Cooler Up gradation the efficiency of Cooler vent fan decreased upto 40%. A fan of higher efficiency (60%) was installed which results in the fan power saving of 37 KW.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email): Flakt Woods India Ltd.					
Total investment, Rs.: 40.00 L			Year of implementation: 2007		
First year energy cost savings, Rs.: 8.61 L					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	143				
Energy consumption after	106				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	Rs 3.23				
Company complete address: Grasim Industries Limited Cement Division – South Reddipalyam, Ariyalur Taluk & District, Tamil Nadu. PinCode - 621704				We authorise Bureau to use this information for dissemination Signature Date	
Contact person who could be contacted for more information: V.B .Ekre (V.P. Technical)					

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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 Installation of high efficiency Raw Mill fan	Sector : Large Scale			
Year to be filled by BEE		Technology : Cement manufacturing			
Description of the energy conservation measure: Raw mill fan flow capacity enhanced from 3.03 Lac m³/hr to 3.70 Lacs m³/hr. of 76% and fan efficiency increased from 76% to 84%.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email): Flakt Woods India Ltd.					
Total investment, Rs.: 57.00 L			Year of implementation: 2008		
First year energy cost savings, Rs.: 15.00 L					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	110				
Energy consumption after	50				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	Rs 3.23				
Company complete address: Grasim Industries Limited Cement Division – South Reddipalyam, Ariyalur Taluk & District, Tamil Nadu. PinCode - 621704				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: V.B .Ekre (V.P. Technical)				Signature	
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ID to be filled by BEE	Title of the measure Installation of high efficiency cooler fans (3 nos.)	Sector : Large Scale			
Year to be filled by BEE		Technology : Cement manufacturing			
Description of the energy conservation measure: Three Numbers of High efficiency Cooling fans installed. This results in power savings of 27 KW. Hence net savings achieved = 7.0 Lacks/Annum					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email): Flakt Woods India Ltd.					
Total investment, Rs.: 42.00 L			Year of implementation: 2007		
First year energy cost savings, Rs.: 7.00 L					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	264				
Energy consumption after	237				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	Rs 3.23				
Company complete address: Grasim Industries Limited Cement Division – South Reddipalyam, Ariyalur Taluk & District, Tamil Nadu. PinCode - 621704				We authorise Bureau to use this information for dissemination	
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ID to be filled by BEE	Title of the measure Installation of high efficiency Raw Mill ESP fan	Sector : Large Scale			
Year to be filled by BEE		Technology : Cement manufacturing			
Description of the energy conservation measure: Raw mill ESP fan changed with high efficiency fan to remove Process bottleneck (Fan flow increased from 4.6 Lacs m³/hr to 5.0 Lacs m³/hr)					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email): Flakt Woods India Ltd.					
Total investment, Rs.: 50.00 L			Year of implementation: 2007		
First year energy cost savings, Rs.: 32.00 L					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	600				
Energy consumption after	480				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	Rs 3.23				
Company complete address: Grasim Industries Limited Cement Division – South Reddipalyam, Ariyalur Taluk & District, Tamil Nadu. PinCode - 621704				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: V.B .Ekre (V.P. Technical)				Signature	
				Date	

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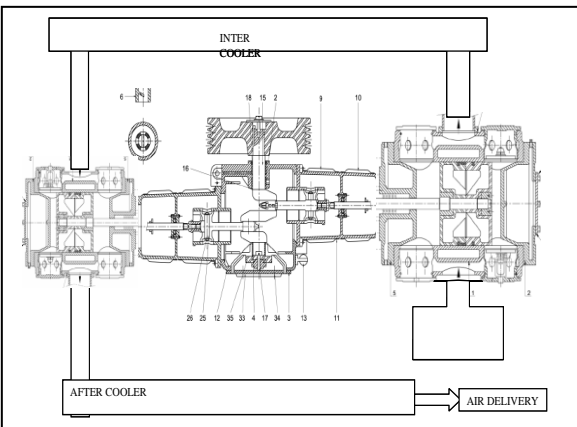

(To be filled up separately for each Energy Conservation Measure)

ID to be filled by BEE	Title of the measure Reduction of power consumption in Raw Mill Circuit			Sector : Large Scale	
Year to be filled by BEE				Technology : Cement manufacturing	
Description of the energy conservation measure: After Plant Up gradation from 2950 TPD to 3250 TPD the increase in power consumption of Raw Mill circuit was observed. Hence Detailed study for the change was done by analyzing the pressure drop, measurement of air volume and velocity calculation at different locations. With the study it was observed the High pressure drop from Preheater Outlet to Raw Mill Inlet “ Around 136 mmWG” and also the velocity in inlet duct was 26 m/sec. Hence it was decided to re-modify the duct geometry and size to reduce the pressure drop and velocity from 26 m/sec to 18 m/sec.					
After modification			After modification		
					
Agency that executed the project (with complete address and email): In-house					
Total investment, Rs.: 129.75 Lacs			Year of implementation: 2008		
First year energy cost savings, Rs.: 14.00 Lacs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	14.01				
Energy consumption after	13.2				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	Rs 3.23				
Company complete address: Grasim Industries Limited Cement Division – South Reddipalyam, Ariyalur Taluk & District, Tamil Nadu. PinCode - 621704				We authorize Bureau to use this information for dissemination Signature Date	
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ID to be filled by BEE	Title of the measure Replacement of Reciprocating compressors by Screw Compressors	Sector : Large Scale			
Year to be filled by BEE		Technology : Cement manufacturing			
Description of the energy conservation measure: Four numbers of Atlas Copco make Screw compressors were installed in place of reciprocating compressors in pre-heater and cement mill sections.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email): Atlas Copco					
Total investment, Rs.: 48.00 L			Year of implementation: 2007		
First year energy cost savings, Rs.: 24.00 L					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	640				
Energy consumption after	550				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	Rs 3.23				
Company complete address: Grasim Industries Limited Cement Division – South Reddipalyam, Ariyalur Taluk & District, Tamil Nadu. PinCode - 621704				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: V.B .Ekre (V.P. Technical)				Signature	
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(To be filled up separately for each Energy Conservation Measure)

ID to be filled by BEE	Title of the measure Interconnection line made between Pyro and Cement mill Air Receiver.	Sector : Large Scale			
Year to be filled by BEE		Technology : Cement manufacturing			
Description of the energy conservation measure: Efficiency of Screw compressor is high but unloading power is low as we are using different capacity compressors. It was decided to combine different capacity compressors to operate according to our plant air requirement. 150NB interconnection line provided between Pyro & Cement mill Air-receivers.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
Agency that executed the project (with complete address and email): Chicago Pneumatic					
Total investment, Rs.: 3.12 L			Year of implementation: 2007		
First year energy cost savings, Rs.: 5.61 L					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	264				
Energy consumption after	224				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	Rs 3.23				
Company complete address: Grasim Industries Limited Cement Division – South Reddipalyam, Ariyalur Taluk & District, Tamil Nadu. PinCode - 621704				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: V.B .Ekre (V.P. Technical)				Signature	
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ID to be filled by BEE	Title of the measure Installation of high efficiency classifier for coal mill	Sector : Large Scale			
Year to be filled by BEE		Technology : Cement manufacturing			
Description of the energy conservation measure: Coal mill classifier was designed for 14 TPH out put & was designed for lignite grinding, but during grinding of pet coke, we were facing certain problems such as unable to get fine coal residue less than 2% on 90 microns as well as unable to get coal mill rated output. Installed high efficiency coal mill classifier to increase the output to 18 TPH.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email): Losche					
Total investment, Rs.: 94.00 L			Year of implementation: 2007		
First year energy cost savings, Rs.: 3.79 L					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	29				
Energy consumption after	10				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	Rs 3.23				
Company complete address: Grasim Industries Limited Cement Division – South Reddipalyam, Ariyalur Taluk & District, Tamil Nadu. PinCode - 621704				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: V.B .Ekre (V.P. Technical)				Signature	
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