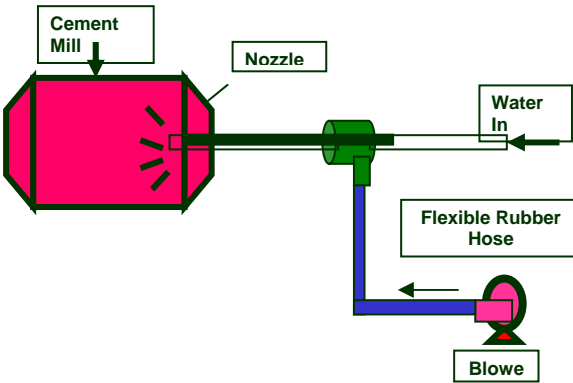
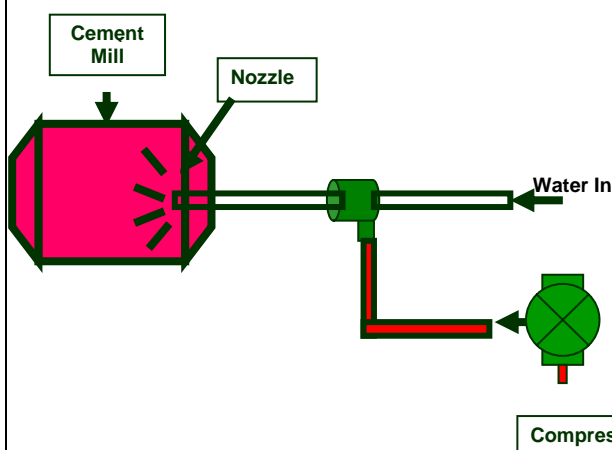


## Energy Conservation Measure implemented in 2007-2008

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

ID to be filled by BEE .....	Title of the measure  <b>Reduction of Mill Auxiliary Power through elimination of blower by compressed air in CM-1</b>	Sector : Cement			
Year to be filled by BEE .....	<b>Reduction of Mill Auxiliary Power through elimination of blower by compressed air in CM-1</b>	Technology : Manufacturing			
Description of the energy conservation measure: <ul style="list-style-type: none"> <li>2.2 KW motor (Loading: 2.1 KW) was used for air flow in water spray system which was replaced by compressed air line. It resulted into more effective spray system and elimination of 2.2 KW motor drive. Compressor's (having 7.5 KW motor) total loading was increased by 02 Hrs per day.</li> <li>Saving in rupees per month             35.4 KWH per day x 30 Days x Rs. 2.69 /- per KWH = Rs. 2,856.78 /- per month</li> </ul>					
<b>Picture/ sketch/ drawing before modification</b>		<b>Picture/ sketch/ drawing after modification</b>			
					
Agency that executed the project (with complete address and email): Cement Mill Maintenance Team					
Total investment: Rs. 10,000 /-		Year of implementation: 2007			
First year energy cost savings: Rs. 25711.02 /- (for Nine Months)					
First year other savings: Rs.					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before (Per Day)	0.0542				
Energy consumption after (Per Day)	0.015				
Energy tariff, Rs/ kWh	2.69				
Company complete address: ACC LIMITED, TIKARIA CEMENT WORKS, TIKARIA INDL. ESTATE, PO GAURIGANJ, (U.P.). PH-05368-244279/244349, FAX-05368244479  Contact person who could be contacted for more information: Mr. A. K. Singh, Assistant Officer – Plant, MOBILE NO.:9415137604				We authorize Bureau to use this information for dissemination  Signature  Date	

## 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  <b>Reduction of Mill Auxiliary Power through elimination of blower by compressed air in CM-1</b>	Sector : Cement
Year to be filled by BEE .....		Technology : Manufacturing

Description of the energy conservation measure:

- 18 KW motor (Loading: 17.5 KW) in chain conveyor was used for Fly Ash conveying from Fly Ash Hopper to Mill Inlet which was replaced by Air Slide Conveyor having 3.7 KW motor (Loading 2.4 KW) & Chain Bucket Elevator (which was kept as spare) having 3.7 KW motor (loading 2.7 KW). It resulted into reduction of energy consumption by 12.4 KW & maintenance cost of chain conveyor.

- Saving in rupees per month

297.6 KWH per day x 30 Days x Rs. 2.69 /- per KWH = Rs. 24,016.32 /- per month

Picture/ sketch/ drawing before modification	Picture/ sketch/ drawing after modification
<p>Modification in fly ash feeding system in CM-1</p>	

Agency that executed the project (with complete address and email): Cement Mill Maintenance Team

Total investment: Rs. 80,000 /-

Year of implementation: 2007

First year energy cost savings: Rs. 1,68,114.24 /- (for Seven Months)

First year other savings: Rs.

On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before (Per Day)	0.420				
Energy consumption after (Per Day)	0.122				
Energy tariff, Rs/ kWh	2.69				
Company complete address: ACC LIMITED, TIKARIA CEMENT WORKS, TIKARIA INDL. ESTATE, PO GAURIGANJ, (U.P.). PH-05368-244279/244349, FAX-05368244479				We authorize Bureau to use this information for dissemination  Signature  Date	
Contact person who could be contacted for more information: Mr. Ashish Pandey, AM – E&I, MOBILE NO.:9450940963					

## 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  <b>Reduction of Mill Auxiliary Power through elimination of blower.</b>	Sector : Cement
Year to be filled by BEE .....		Technology : Manufacturing

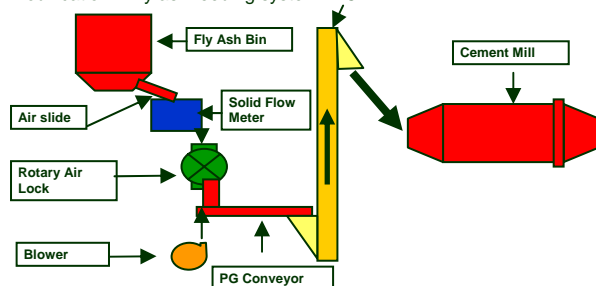
Description of the energy conservation measure:

- 3.7 KW motor was removed from air slide used for Fly Ash conveying from Fly Ash Hopper to Mill Inlet which was replaced by Air Slide.
- Saving in rupees per month

88.8 KWH per day x 30 Days x Rs. 2.69 /- per KWH = Rs. 7166.16 /- per month

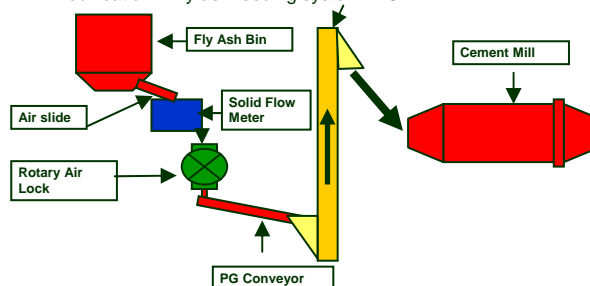
### Picture/ sketch/ drawing before modification

Modification in fly ash feeding system in CM-2



### Picture/ sketch/ drawing after modification

Modification in fly ash feeding system in CM-2



Agency that executed the project (with complete address and email): Cement Mill Maintenance Team

Total investment: Rs. NIL /-

Year of implementation: 2007

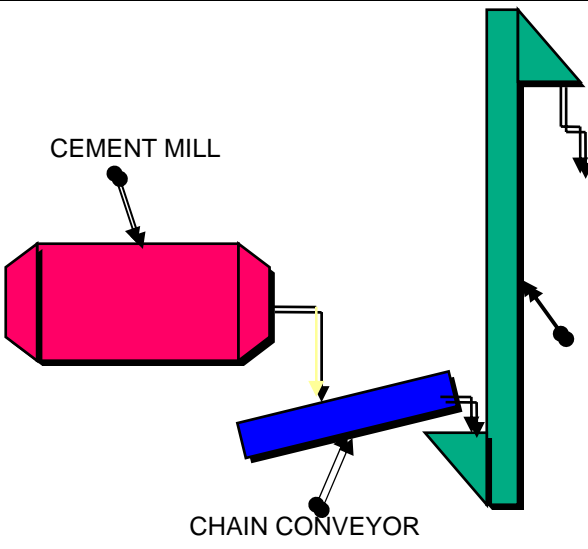
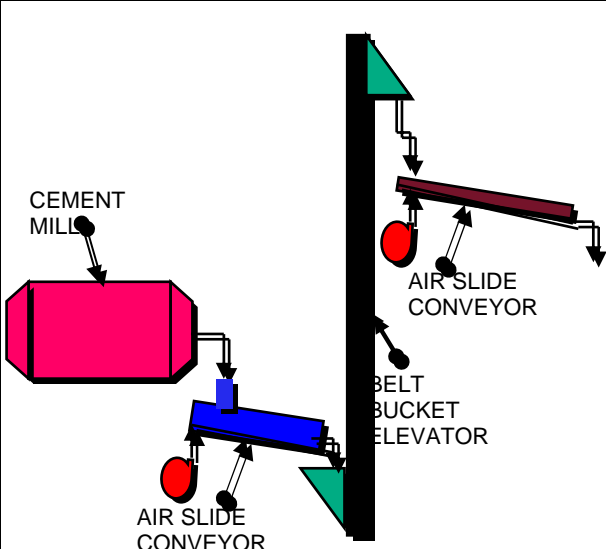
First year energy cost savings: Rs. 71661.6 /- (for Ten Months)

First year other savings: Rs.

On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before (Per Day)	0.088				
Energy consumption after (Per Day)	0				
Energy tariff, Rs/ kWh	2.69				

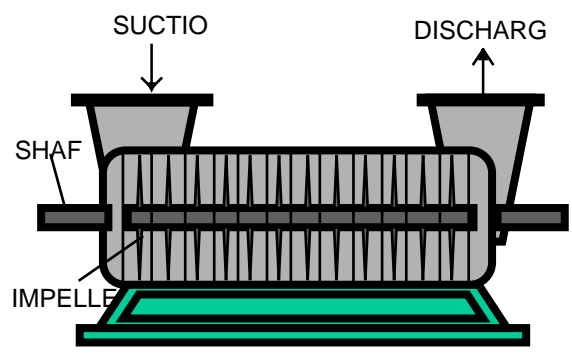
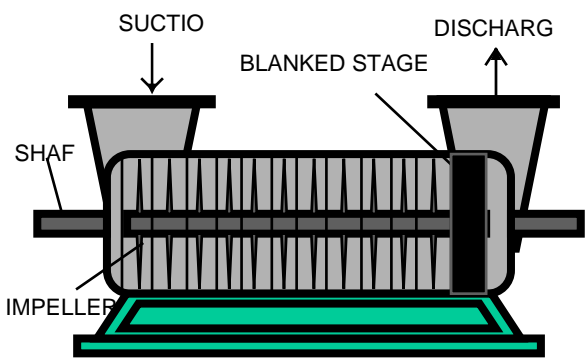
## Energy Conservation Measure implemented in 2007-2008

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

ID to be filled by BEE .....	Title of the measure  <b>Reduction of Mill Auxiliary Power through replacement of Chain Conveyor by Air Slide Conveyor</b>	Sector : Cement
Year to be filled by BEE .....		Technology : Manufacturing
Description of the energy conservation measure: <ul style="list-style-type: none"> <li>18 KW motor (Loading: 17 KW) was used for cement conveying from mill discharge to elevator which was replaced by Air Slide Conveyor having 5.5 KW motor (Loading 4.9 KW). It resulted into reduction of energy consumption by 12.1 KW &amp; maintenance cost of chain conveyor.</li> <li>Saving in rupees per month   <math>12.1 \text{ KWH per Hrs} \times 24 \text{ Hrs} \times 30 \text{ Days} \times \text{Rs. } 2.69 \text{ /- per KWH} = \text{Rs. } 23,435.28\text{- per month}</math> </li> </ul>		
<b>Picture/ sketch/ drawing before modification</b>	<b>Picture/ sketch/ drawing after modification</b>	
		
Agency that executed the project (with complete address and email): Cement Mill Maintenance Team		
Total investment: Rs. 70,000 /-		Year of implementation: 2007
First year energy cost savings: Rs. 1,87,482.24 /- (for Eight Months)		
First year other savings: Rs.		
On annual basis	kWh 000'	Coal (Tons)
Energy consumption before (Per Day)	0.480	
Energy consumption after (Per Day)	0.118	
Energy tariff, Rs/ kWh	2.69	
Company complete address: ACC LIMITED, TIKARIA CEMENT WORKS, TIKARIA INDL. ESTATE, PO GAURIGANJ, (U.P.). PH-05368-244279/244349, FAX-05368244479  Contact person who could be contacted for more information: Mr. A. K. Singh, Assistant Officer – Plant, MOBILE NO.:9415137604		We authorize Bureau to use this information for dissemination  Signature  Date

## Energy Conservation Measure implemented in 2007-2008

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

ID to be filled by BEE .....	<b>Title of the measure</b>  <b>To reduce CPP self consumption through reduction of one stage in BFP</b>	Sector : CEMENT			
Year to be filled by BEE .....		Technology : Manufacturing			
<p>Description of the energy conservation measure:</p> <ul style="list-style-type: none"> <li>Delivery head (1078 Mtr.) of pump was more than requirement (900 Mtr.) to deliver designed flow of 47 M<sup>3</sup>/Hr. so, power is being loss.</li> <li>By blanking one pump and throttling other pump to run in parallel we achieved a saving of approximately 480 units per day.</li> <li>Saving in rupees per month  480 KWH per day x 30 Days x Rs. 2.69 /- per KWH = Rs. 38736 /- per month</li> </ul>					
<b>Picture/ sketch/ drawing before modification</b>		<b>Picture/ sketch/ drawing after modification</b>			
					
Agency that executed the project (with complete address and email): CPP Engineering Team					
Total investment = NIL		Year of implementation : 2007			
First year energy cost savings: Rs. 2.32 Lakhes.					
First year other savings, ---					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before (Per Hrs)	0.205				
Energy consumption after (Per Hrs)	0.185				
Energy tariff, Rs. / kWh	2.69				
Company complete address: ACC LIMITED, TIKARIA CEMENT WORKS, TIKARIA INDL. ESTATE, PO GAURIGANJ, (U.P.). PH-05368-244279/244349, FAX-05368244479  Contact person who could be contacted for more information: Mr. V. K. B. NAIR, MANAGER - POWER HOUSE, MOBILE NO.: 9475737557 E-MAIL ID: vkbn@accement.com				We authorize Bureau to use this information for dissemination  Signature  Date	