



Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure		Sector ... Chemical ...		
Year to be filled by BEE	Replacement energy efficient fans to cooling tower.		Technology ...Reuse the vapor as the steam.		
Description of the energy conservation measure:					
Replacing the cooling tower fan blades with FRP instead of Aluminium alloy.					
Picture/ sketch/ drawing before modification <small>If available</small>			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email):					
Total investment, Rs.:65,000			Year of implementation:2006 - 2007		
First year energy cost savings, Rs. 1,29,880					
First year other savings, Rs.: 28,195 KWH / Anum					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	92585				
Energy consumption after	64390				
Energy tariff, Rs/ kWh ...	4.05				
Company complete address: M/S GHARDA CHEMICALS LIMITED D-1/2 MIDC, LOTE PARSHURAM, TAL - KHED DIST - RATNAGIRI PIN - 415 722 (MS) TEL - (02536) 272431, FAX - (02356) 272190				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: Mr Suresh kumar				Signature	
				Date	



Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure Replaced utility CHW to CTW.		Sector ... Chemical ...			
Year to be filled by BEE	2006 – 2007.		Technology ...Energy utilization.			
Description of the energy conservation measure: Replacing the utility from chilled water to cooling water by providing more heat transfer area heat exchanger.						
Picture/ sketch/ drawing before modification If available			Picture/ sketch/ drawing after modification			
						
Agency that executed the project (with complete address and email):						
Total investment, Rs.:7,25,000			Year of implementation:2006 - 2007			
First year energy cost savings, Rs. 7,36,560						
First year other savings, Rs.: 28,195 KWH / Anum						
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other	
Energy consumption before	148500					
Energy consumption after	25740					
Energy tariff, Rs/ kWh ...	4.05					
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1. Hot and cold Re –9 reactors bottom circulation pump stopped and circulation to the reactor utility only with the header pressure that reduces continuous circulation of bottom circulation pump.

2. Cooling water used in the ejector cooler again sending to the cooling tower for reusing other it increasing the effluent and extra water consumption.
3. Cooling tower fans MOC changed from Aluminium to FRP so that it is giving the same work done with less power consumption.
4. Instead of running the 2# 100 HP motors running one motor with 150 HP. During the peak load and when there is less load running one 100 HP motor.
5. Ejecting system having cooler with chilled brine utility provided more heat transfer area heat exchanger with cooling water as utility.
6. Existing agitators to the following reactors with high efficiency agitators.
7. DME gas generating from the plant as by product using the same as a gaseous fuel.
8. CO₂ using in the reaction must be reused by equalizing with fresh Co₂ and using in the next batch it reduces the 20% of fresh CO₂.
9. Waste paper and cot boards using as solid fuel in the boiler.
10. Single CT water pump used for both plants 1 and 3.
11. Ejector system replaced with high pressure steam to low pressure steam.



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ID to be filled by BEE	Title of the measure	Sector ... Chemical ...			
Year to be filled by BEE	Replaced with high efficiency agitators. 2006 – 2007.	Technology ...Power conservation.			
Description of the energy conservation measure:					
Replacing the high efficiency agitators to the reactors R – 5211, R- 104 and R – 5221 from 40% TT to 80% TT.					
Picture/ sketch/ drawing before modification If available			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email):					
Total investment, Rs.:36,000			Year of implementation:2006 - 2007		
First year energy cost savings, Rs. 2,97,500					
First year other savings, Rs.: 73455 KWH / Anum					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	293826				
Energy consumption after	220337				
Energy tariff, Rs/ kWh ...	4.05				
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ID to be filled by BEE	Title of the measure Optimization cooling water pump.		Sector ... Chemical			
Year to be filled by BEE	2006 - 2007		Technology ...Optimize pump HP.			
Description of the energy conservation measure: Optimize pump motor from 200 HP to 150 HP, there were a 2# pumps with 100 HP motors running to fulfilling the process heat load instead of that using the pump with 150 Hp motor.						
Picture/ sketch/ drawing before modification If available			Picture/ sketch/ drawing after modification			
						
Agency that executed the project (with complete address and email):						
Total investment, Rs.: 50,000			Year of implementation:2006 - 2007			
First year energy cost savings, Rs. 11,88,000						
First year other savings, Rs.: 2,97,000 KWH / Anum						
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other	
Energy consumption before	1188000					
Energy consumption after	891000					
Energy tariff, Rs/ kWh ...	4.05					
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ID to be filled by BEE	Title of the measure Pump usage optimization.	Sector ... Chemical			
Year to be filled by BEE	2006 - 2007	Technology ...using the utility header pressure.			
Description of the energy conservation measure:					
<p>Optimization of Hot cold Re - 9 Booster pump (circulation pump) running hours of the four reactors while they were continuously running earlier. Now they were completely stopped and running with only utility circulation pump.</p>					
Picture/ sketch/ drawing before modification If available			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email):					
Total investment, Rs.:62,000			Year of implementation:2006 - 2007		
First year energy cost savings, Rs. 4,74,725					
First year other savings, Rs.: 1,17,216 KWH / Anum					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	117216				
Energy consumption after	000				
Energy tariff, Rs/ kWh ...	4.05				
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ID to be filled by BEE	Title of the measure Bi product as a fuel.	Sector ... Chemical			
Year to be filled by BEE	2006 - 2007	Technology ...Self generative fuel.			
Description of the energy conservation measure: DME gas generating while manufacturing of the Dicamba product, same as using as fuel in the boiler to reduce the major fuel consumption of the boiler.					
Picture/ sketch/ drawing before modification If available			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email):					
Total investment, Rs.:62,000			Year of implementation:2006 - 2007		
First year energy cost savings, Rs. 4,74,725					
First year other savings, Rs.: 1,17,216 KWH / Anum					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	117216				
Energy consumption after	000				
Energy tariff, Rs/ kWh ...	4.05				
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ID to be filled by BEE	Title of the measure Optimization pump flow and HP.	Sector ... Chemical ...			
Year to be filled by BEE	2006 - 2007	Technology ...Flow optimization.			
Description of the energy conservation measure: Earlier there was a pump with 200 HP motor to fulfill the requirement of process heat load of 2 plants now the pump replaced with the pump with 100 HP to fulfill the heat load.					
Picture/ sketch/ drawing before modification If available			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email):					
Total investment, Rs.:22,000			Year of implementation:2006 - 2007		
First year energy cost savings, Rs. 23,73,624					
First year other savings: 5,86,080 KWH / Anum					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	1188000				
Energy consumption after	586080				
Energy tariff, Rs/ kWh ...	4.05				
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