

Energy Conservation Measure Compendium

ID to be filled by BEE	Reduction in Insulation losses using Armaflex (Nitrile rubber) insulation.	Sector: Chemical
Year to be filled by BEE		Technology
<p>Description of the energy conservation measure: <i>In this measure the operation of cooling towers in brine plant were made automatic through Data Acquisition system. In brine plant cooling tower operation was manual and about 2 to 3 nos of cooling towers use to run 24 hrs a day to cater the cooling water requirement for brine chilling plants irrespective of cooling water temperature. As the brine plant equipments are designed to operate at 30 deg. C, lot of energy was wasted by operating the cooling towers at lower temperature i.e around 27 deg. C. To minimise the operating cost & to save energy these cooling tower operation was controlled with thermostatic controllers through Data Acquisition System & set the operating band at 27 to 30 deg.C</i></p>		
Picture/ sketch/ drawing before modification (if available)		Picture/ sketch/ drawing after modification
<p>Agency that executed the project (with complete address and email): Syngenta India Ltd, Mr. R.M.Seralathan, Head Engineering, Email: seralathan.rm@syngenta.com</p>		
Total investment, Rs.: 20000/-		Year of implementation: 2006

First year energy cost savings, Rs: 13,21,799 /-

First year other savings, Rs.:

On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	2049				
Energy consumption after	1451				
Energy tariff, kWh/ TR	6.75				

Company complete address:

Syngenta India Limited
Crop Protection Division
Santa Monica Works
Corlim. Ilhas
GOA - 403 110

Contact person who could be contacted for more information:

R. M Seralathan.
Manager- MES and Utilities
Tel: 0832-2460247
Email: r.m.seralathan@syngenta.com

We authorize Bureau
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for dissemination

Signature

Date

Energy Conservation Measure Compendium

ID to be filled by BEE	<u>Effective operation of MEG Brine system by consistent monitoring & reducing run hours.</u>	Sector : Chemical
Year to be filled by BEE	.	Technology
<p>Description of the energy conservation measure: <i>In this measure we have monitored the MEG Brine chilling system operating parameters & its auxiliaries through Data Acquisition system. Due to low load conditions unit was operating for about 14 to 15 hrs per day on Auto mode based on the MEG brine outlet temperature input. Compressor was running in unloading condition due to lower temperature settings. These loading, unloading & trip parameters analyzed and all the settings have been revised to run the compressor in full load for shorter duration. This resulted in reducing the running hours to ave. 8 hrs per day. Also cooling water supply to this system was on for 24 hrs irrespective of compressor operation. The same was made manual ON /OFF during compressor trip.</i></p>		
Picture/ sketch/ drawing before modification (if available)		Picture/ sketch/ drawing after modification
<p>Agency that executed the project (with complete address and email): Syngenta India Ltd, Mr. R.M.Seralathan, Head Engineering, Email: seralathan.rm@syngenta.com</p>		
Total investment, Rs.: 20000/-		Year of implementation: 2006
First year energy cost savings, Rs.: 607872 /-		
First year other savings, Rs.:		
On annual basis	kWh 000'	Coal (Tons)
Energy consumption before	201.26	
Energy consumption after	125.28	
Energy tariff, Rs/ KWH	8.0	
<p>Company complete address: Syngenta India Limited Crop Protection Division Santa Monica Works Corlim. Ilhas GOA - 403 110</p> <p>Contact person who could be contacted for more information: R. M Seralathan. Head Engineering Tel: 0832-2460245 Email: seralathan.rm@syngenta.com</p>		<p>We authorize Bureau to use this information for dissemination</p> <p>Signature</p> <p>Date</p>