

Energy Conservation Measure implemented in 2007-2008

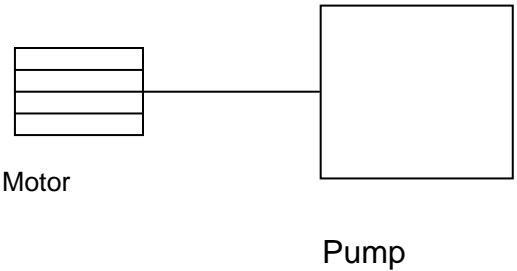
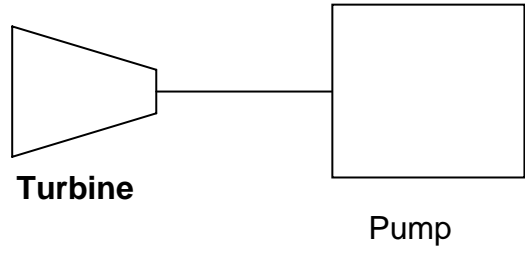
(To be filled up separately for each Energy Conservation Measure)

ID to be filled by BEE	Title of the measure	Sector ...Fertiliser.....			
Year to be filled by BEE	Reduction in impeller diameter of Cooling water pump	Technology			
Description of the energy conservation measure:					
<p>The cold well pump in PAP had a capacity of 2250M³/Hr as per original design. Consequent to the stopping of the concentration section , the cooling water requirement of PAP came down to around 1500 M³/Hr and the pump was running with discharge throttled. It was decided to replace the impeller of cold well pump No.2 with smaller sized one to reduce power consumption. The smaller size impeller supplied by the manufacturer was fixed and pump lined up in January 2008. The reduction in power consumption is around 26 KW and the annual saving in power cost is around Rs.6Lakhs. The cost of new rotor is Rs. 2lakhs, which gives a pay back period of 4 months.</p>					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
Agency that executed the project (with complete address and email Implemented by our own staff					
Total investment, Rs.: 2 Lakhs			Year of implementation: 2008		
First year energy cost savings, Rs.: 1.5 Lakhs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	0.2500428/MT of Phosphoric acid produced				
Energy consumption after*	0.2500043/MT of Phosphoric acid produced				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	Rs 3.7/kWh				
Company complete address: The Fertilisers And Chemicals Travancore Ltd, Cochin Division, Ambalamedu, Ernakulam – 682303 Contact person who could be contacted for more information: Shri.K.B.Biju Manager, Technical Services (Process), FACT-Cochin Division, Ambalamedu, Ernakulam-682303				We authorise Bureau to use this information for dissemination Signature Date	

*-Since energy saved is negligible compared to the total energy consumption, savings are less.

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ID to be filled by BEE	Title of the measure Turbine drive for Glycol pump In NPK plant	Sector ...Fertiliser.....
Year to be filled by BEE		Technology
<p>Description of the energy conservation measure:</p> <p style="text-align: center;">The Glycol pump motor (100KW, 1450 rpm) in NPK plant was replaced with the turbine of Ammonia plant TG set. The total cost of the project is around Rs. 16 Lakhs. The annual savings is Rs.20Lakhs. This scheme was implemented in February 2008.</p>		
Picture/ sketch/ drawing before modification (if available)	Picture/ sketch/ drawing after modification	
 <p>Motor</p> <p>Pump</p>	 <p>Turbine</p> <p>Pump</p>	
Agency that executed the project (with complete address and email): Our own staff		
Total investment, Rs.:16 Lakhs		Year of implementation: 2008
First year energy cost savings, Rs.:3.33 Lakhs		
First year other savings, Rs.:		
On annual basis	kWh 000'	Coal (Tons)
Energy consumption before	0.072025/MT of NP 20:20 produced	
Energy consumption after*	0.072003/MT of NP 20:20 produced	
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	Rs 3.7/kWh	
<p>Company complete address: The Fertilisers And Chemicals Travancore Ltd, Cochin Division, Ambalamedu, Ernakulam – 682303 Contact person who could be contacted for more information: Shri.K.B.Biju Manager, Technical Services (Process), FACT-Cochin Division, Ambalamedu, Ernakulam-682303</p>		<p>We authorise Bureau to use this information for dissemination</p> <p>Signature</p> <p>Date</p>

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