



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 Agitator Thin Film Evaporator for replacing conventional batch type reactor.	Sector : Drugs and Pharmaceuticals
Year to be filled by BEE		Technology :-Heat Transfer Rate
<p>High heat transfer coefficient Continuous Agitated thin film evaporator was installed in replace of batch type High Vacuum Distillation reactor, Better heat transfer co-efficient means using the same amount of area available more evaporation can be done, thus increasing production rate results in maximizing productivity and yield by minimizing utility consumption.</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.: 20 Lakhs	Year of implementation: 2007 - 08	

First year energy cost savings, 27.06 Lakhs					
First year other savings, Rs.:					
On annual basis	kWh Lakhs	Coal (Tons)	Gas Nm ³	(FO)Oil (kL)	Other Steam(MT)
Energy consumption before	2.87	--	--	....	9648
Energy consumption after	1.37	--			1608
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.43	--	--	--	840
Company complete address: IOL Chemicals & Pharmaceuticals Ltd Village Fatehgarh Channa, Mansa Road, Barnala - 148101 Contact person who could be contacted for more information: Mr. Vijay Singla (Vice President)				We authorise Bureau to use this information for dissemination Signature Date	

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ID to be filled by BEE	Title of the measure Maximum Energy Utilization:- Replacement of Haste alloy with FFA cum reactor.	Sector :- Drugs and Pharmaceuticals
Year to be filled by BEE		Technology Heat Transfer Rate
<p>Description of the energy conservation measure: Replaced conventional batch type Haste alloy coil system with high heat transfer coefficient continuous Graphite falling film reactor cum absorber thus resulting in shifting of heat load from Brine to CT Water moreover process breakdown eliminated after implantation of this system.</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.: 15 Lakhs	Year of implementation: 2007 - 08	

First year energy cost savings, 26.14 Lakhs					
First year other savings, Rs.:					
On annual basis	kWh Lakhs	Coal (Tons)	Gas Nm ³	(FO)Oil (kL)	Other Steam(MT)
Energy consumption before	3.19	--	--	....	4312.44
Energy consumption after	1.84	--			1912.64
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.43	--	--	--	840
Company complete address: IOL Chemicals & Pharmaceuticals Ltd Village Fatehgarh Channa, Mansa Road, Barnala - 148101 Contact person who could be contacted for more information: Mr. Vijay Singla (Vice President)				We authorise Bureau to use this information for dissemination Signature Date	

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ID to be filled by BEE	Title of the measure Installation of Continuous energy efficient graphite sulphuric acid dilution system.	Sector :- Drugs and Pharmaceuticals
Year to be filled by BEE		Technology :-Heat Transfer Rate
Replaced the batch type CSTR Sulphuric Acid dilution with continuous energy efficient Graphite dilution system. Due to this replacement heat load from brine water shifts to the Chilled Water and Cooling Tower Water addition to this production increases in same set up due to reduced time cycle.		
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.: 4.5 Lakhs	Year of implementation: 2007 - 08	

First year energy cost savings, 6.41 Lakhs					
First year other savings, Rs.:					
On annual basis	kWh Lakhs	Coal (Tons)	Gas Nm ³	(FO)Oil (kL)	Other Steam(MT)
Energy consumption before	0.683	--	--	....	923.07
Energy consumption after	0.183	--			423.07
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.43	--	--	--	840
Company complete address: IOL Chemicals & Pharmaceuticals Ltd Village Fatehgarh Channa, Mansa Road, Barnala - 148101 Contact person who could be contacted for more information: Mr. Vijay Singla (Vice President)				We authorise Bureau to use this information for dissemination 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 Installation of Plate Type Heat Exchanger in replace of Shell & Tube Heat Exchanger.	Sector : Drugs and Pharmaceuticals
Year to be filled by BEE		Technology :-Heat Transfer Rate
<p>Plate type heat exchangers were installed in replace of Conventional Shell and Tube type Heat exchanger. Due to this replacement steam consumption reduces by 1500mt/annum</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.: 15 Lakhs	Year of implementation: 2007 - 08	

First year energy cost savings, 12.60 Lakhs					
First year other savings, Rs.:					
On annual basis	kWh Lakhs	Coal (Tons)	Gas Nm ³	(FO)Oil (kL)	Other Steam(MT)
Energy consumption before	-	--	--	....	6000
Energy consumption after	-	--	--		4500
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	-	--	--	--	840
Company complete address: IOL Chemicals & Pharmaceuticals Ltd Village Fatehgarh Channa, Mansa Road, Barnala - 148101 Contact person who could be contacted for more information: Mr. Vijay Singla (Vice President)				We authorise Bureau to use this information for dissemination Signature Date	

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ID to be filled by BEE	Title of the measure Process modification was done in intermediate stage through R&D to remove moisture instead of conventional distillation	Sector : Drugs and Pharmaceuticals
Year to be filled by BEE		R & D/ Process
<p>Conventional distillation replaced by chemically treatment (Extraction process) of intermediate solvent to remove moisture content, results in saving of steam consumption during distillation.</p>		
Picture/ sketch/ drawing before modification (if available)	Picture/ sketch/ drawing after modification	
Not Available		
Agency that executed the project (with complete address and email):		
Total investment, Rs.: 2.00 Lakhs	Year of implementation: 2007 - 08	

First year energy cost savings, 4.5 Lakhs					
First year other savings, Rs.:					
On annual basis	kWh Lakhs	Coal (Tons)	Gas Nm ³	(FO)Oil (kL)	Other Steam(MT)
Energy consumption before		--	--	....	500
Energy consumption after		--			0
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	--	--	--	--	840
Company complete address: IOL Chemicals & Pharmaceuticals Ltd Village Fatehgarh Channa, Mansa Road, Barnala - 148101				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: Mr. Vijay Singla (Vice President)				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 Installation of natural Air Operated Ventilator for replacing Electrical operated exhaust fan.	Sector : Drugs and Pharmaceuticals
Year to be filled by BEE		Technology Natural Energy
<p>Replaced the electrical operated exhaust fan with natural air operated turbine air ventilators. Hence now there is no power consumption for exhaust system. Moreover they are maintaince free and eco friendly.</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.: 2.02 Lakhs	Year of implementation: 2007 - 08	

First year energy cost savings, 2.28 Lakhs					
First year other savings, Rs.:					
On annual basis	kWh Lakhs	Coal (Tons)	Gas Nm ³	(FO)Oil (kL)	Other Steam(MT)
Energy consumption before	0.514	--	--	....	...
Energy consumption after	-	--			....
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.43	--	--	--	
Company complete address: IOL Chemicals & Pharmaceuticals Ltd Village Fatehgarh Channa, Mansa Road, Barnala - 148101 Contact person who could be contacted for more information: Mr. Vijay Singla (Vice President)				We authorise 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 Pitched Blade Agitator by Hydrofoil impellers.	Sector : Drugs and Pharmaceuticals
Year to be filled by BEE	Technology	
The hydrofoil impellers produce the same process and flow results, at lower power consumption as compared to Pitched blade agitators thus results in saving of power and better yield.		
Picture/ sketch/ drawing before modification (if available)	Picture/ sketch/ drawing after modification	
Not Available		
Agency that executed the project (with complete address and email):		
Total investment, Rs.: 5.00 Lakhs	Year of implementation: 2007 - 08	

First year energy cost savings, 2.18 Lakhs					
First year other savings, Rs.:					
On annual basis	kWh Lakhs	Coal (Tons)	Gas Nm ³	(FO)Oil (kL)	Other Steam(MT)
Energy consumption before	1.41	--	--	....	...
Energy consumption after	0.91	--			....
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.43	--	--	--	
Company complete address: IOL Chemicals & Pharmaceuticals Ltd Village Fatehgarh Channa, Mansa Road, Barnala - 148101 Contact person who could be contacted for more information: Mr. Vijay Singla (Vice President)				We authorise Bureau to use this information for dissemination Signature Date	