




Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure Replacement of Conventional Agitators by economix Agitators		SectorChemical....		
Year to be filled by BEE			Technology...Mixing Profile		
Description of the energy conservation measure: In our Ibuprofen Division, the conventional Agitators along with warm Reducer Gear box have been replaced by specially designed Economix Agitators along with Helical gearbox. In conventional System, motors used were of 15 HP rating because of heavy Shaft & Blades. Whereas at present Agitators are designed as per the process requirement which resulted in lighter weight Shaft & Blades & hence motor requirement has been reduced to 3-5 HP					
Picture/ sketch/ drawing before modification (if available)		Picture/ sketch/ drawing after modification			
Not Available					
Agency that executed the project (with complete address and email): IOLCP					
Total investment, Rs.: 92.80 Lakhs			Year of implementation: 2006 -07		
First year energy cost savings, Rs.: 92.40 Lakhs					
First year other savings, Rs.:					
On annual basis	kWh Lakhs	Coal (Tons)	Gas Nm ³	Oil (kL)	Other Steam (MT)
Energy consumption before	52.38	--	--	--	--
Energy consumption after	31.55	--	--	--	--
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.4	--	--	--	--
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. Damandeep Singh				Signature	
				Date	

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ID to be filled by BEE	Title of the measure Gravitational & Unidirectional Flow:-				Sector ...Chemical.....	
Year to be filled by BEE					Technology	
Description of the energy conservation measure: Our Newly erected Ibuprofen Division is completely designed on Gravitational & Unidirectional Flow. This has led to reduction in pumping cost thereby leading to power savings as well as uniformity to the whole plant.						
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.: 30.00 Lakhs			Year of implementation: 2006 - 07			
First year energy cost savings, Rs.: 44.00 Lakhs						
First year other savings, Rs.:						
On annual basis	kWh Lakhs	Coal (Tons)	Gas Nm ³	Oil (kL)	Other Steam (MT * 10 ³)	
Energy consumption before	NA	--	--	--	--	
Energy consumption after	--	--	--	--	--	
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.4	--	--	--	--	
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				Date		


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ID to be filled by BEE	Title of the measure Conventional Jacket Replacement by Limpet Coil		SectorChemical.....			
Year to be filled by BEE			Technology--.....			
Description of the energy conservation measure: Conventionally reactors used for the production of Ibuprofen were of jacketed type which have been now replaced with Limpet Coil Reactors.. In jacketed reactor the flow of utility is laminar in nature, whereas in Limpet coil, flow is of turbulent nature. Due to turbulancy, heat transfer takes place in better & more efficient manner thereby decreasing the load on the utility side.						
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.:18 Lakhs			Year of implementation: 2006 - 07			
First year energy cost savings, Rs.: 9.45 Lakhs						
First year other savings, Rs.: NA						
On annual basis	kWh Lakhs	Coal (Tons)	Gas Nm ³	Oil (kL)	Other Steam (MT * 10 ³)	
Energy consumption before	--	---	---	--	11.00	
Energy consumption after	--	--	--	--	9.5	
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	--	--	--	--	630	
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				Date		


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ID to be filled by BEE	Title of the measure Maximum Capacity Utilization		SectorChemical.....			
Year to be filled by BEE			Technology--.....			
<p>Description of the energy conservation measure:</p> <p>At IOLCP, we have made the process running more efficient by minimizing the breakdown, providing stand by infrastructure, reducing the periodic shut down once in a year, as compared to the earlier which was twice in a year.</p> <p>In all plants, additional strainers have been provided in the pipeline to minimize choking thereby ensuring smooth running of operations.</p> <p>Moreover all continuous processes are operated by DCS system which makes process running more efficient with minimum handling error & more accurate traceability.</p>						
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification			
Not Available			Not Available			
Agency that executed the project (with complete address and email):						
Total investment, Rs.:208 Lakhs			Year of implementation: 2006 - 07			
First year energy cost savings, Rs.: 398.93 Lakhs						
First year other savings, Rs.: NA						
On annual basis	kWh Lakhs	Coal (Tons)	Gas Nm ³	Oil (kL)	Other Steam (MT * 10 ³)	
Energy consumption before	207.88				233.33	
Energy consumption after	160.92				202.78	
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.40				630	
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				Date		

Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure Installation of Plate Type Heat Exchangers for recovering Heat from Plant	Sector ...Chemical.....			
Year to be filled by BEE		Technology			
Description of the energy conservation measure: In total 6 no. Plate Type Heat Exchangers supplied by M/s Alfa Laval (Pvt.) Ltd. have been installed in the plant. These Heat Exchangers have hot process stream on one side and cold hot stream on the other side. The two streams exchange heat with each other thus reducing load on further heating and cooling equipments in the process.					
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.: 15.00 Lakhs	Year of implementation: 2006 - 07				
First year energy cost savings, Rs.: 49.90 Lakhs					
First year other savings, Rs.:					
On annual basis	kWh Lakhs	Coal (Tons)	Gas Nm ³	Oil (kL)	Other Steam (MT * 10 ³)
Energy consumption before	--	--	--	--	15.50
Energy consumption after	--	--	--	--	7.58
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	--	--	--	--	630
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ID to be filled by BEE	Title of the measure PLC Based Operation – Centrifuge & Fluidized Bed Dryer				Sector ...Chemical.....
Year to be filled by BEE					Technology
Description of the energy conservation measure:					
<p>In the Ibuprofen section, earlier Centrifuge & FBD were operated by simply on/off system which resulted in running of equipment at full frequency every time. In the new system 3 Centrifuge & 2 FBD have been taken on PLC based system, This modification led to automatic running of equipment as per requirement at variable frequency, thereby reducing the power consumption.</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.: 10.00 Lakhs			Year of implementation: 2006-07		
First year energy cost savings, Rs.: 22.00 Lakhs					
First year other savings, Rs.:					
On annual basis	kWh Lakhs	Coal (Tons)	Gas Nm ³	Oil (kL)	Other Steam (MT)
Energy consumption before	15	--	--	--	--
Energy consumption after	10	--	--	--	--
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.40	--	--	--	--
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