



Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure VFD for Air compressor	SectorPharmaceutical			
Year to be filled by BEE		Technology			
<p>Description of the energy conservation measure:</p> <p>Original situation: Air Compressor is one of the major utility. It has a motor of 40HP rating. Compressed Air is stored in a reservoir. Compressed air demand is highly fluctuating as it depends on the process. To avoid frequent starting and stopping of the large motor, the compressor goes to unloaded condition, whenever the demand drops.</p> <p>Modification done: A Variable Frequency drive (VFD) is installed and is programmed to reduce the motor speed depending on the compressed air demand, avoiding running on no-load. However suitable control system is added to avoid insufficient cooling of the motor. Control system automatically puts off the motor when the demand falls too low.</p>					
Picture/ sketch/ drawing before modification (if available)	Picture/ sketch/ drawing after modification				
					
Agency that executed the project (with complete address and email): Departmental.					
Total investment, Rs.: 1,35,000	Year of implementation: 2006-07				
First year energy cost savings, Rs.: 48875/-					
First year other savings, Rs.: -					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	116.160	-	-	-	-
Energy consumption after	106.560	-	-	-	-
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	5.09	-	-	-	-
Company complete address: Hindustan Latex Ltd. Unit: Kanagala, Belgaum Address: Kanagala, District: Belgaum, Karnataka State Ph: (08333)279244, Fax: (08333)279245 Contact person who could be contacted for more information: <p style="text-align: center;">AGM (Engg).</p>				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 Energy efficient motor installed for dust collector		Sector Pharmaceutical		
Year to be filled by BEE			Technology		
Description of the energy conservation measure: Original situation: Dust Collector in the Vulcanising Section of Condom Plant has a 40HP motor, which is having a fluctuating load. Modifications done: Motor parameters are measured and motor loading analysis is conducted. It is concluded that the motor is oversized. Further, analysis was also conducted on the financial feasibility of replacing the old motor with an "Energy Efficient Motor " with IS12615 STD certification.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
Agency that executed the project (with complete address and email): Departmental.					
Total investment, Rs.: 51,000/-			Year of implementation: 2006-07		
First year energy cost savings, Rs.: 1,37,419/-					
First year other savings, Rs.: nil					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	179.949	-	-	-	-
Energy consumption after	152.956				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	5.09	-	-	-	-
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ID to be filled by BEE	Title of the measure Solar Street Lights		Sector Pharmaceutical		
Year to be filled by BEE			Technology		
<p>Description of the energy conservation measure:</p> <p>Original situation: Ordinary Street Lights of HPSV type, in some areas critical from safety and security point of view, were not much reliable because of the unexpected power failures and slow starting of these lights.</p> <p>Modifications done: Solar powered energy efficient LED type Street Lights were installed in these locations. They are more reliable from safety and security point of view; and they are always available, when they are critically needed, during power failures. Thus, though pay back period is low, this serves other purposes of Safety and Security.</p>					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
Agency that executed the project (with complete address and email): Departmental					
Total investment, Rs.: 90000/-			Year of implementation: 2006-07		
First year energy cost savings, Rs.: 10000/-					
First year other savings, Rs.: -					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	Separate metering is not done.	-	-	-	-
Energy consumption after		-	-	-	-
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	5.09				
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ID to be filled by BEE	Title of the measure Power Factor Control Panel for Condom Utilities.		Sector Pharmaceutical		
Year to be filled by BEE			Technology		
<p>Description of the energy conservation measure: Original situation: Power factor control was done at main sub-station. Modifications done: One of the major load centers in the factory is the utilities section of the Condom Plant, with a varying electrical demand. A redistribution of the system is done to have a separate Distribution Board for these loads, with a Automatic Power Factor Control Panel, to adjust the power factor closer to unity, nearer to the load center. This improves Distribution System Efficiency. Overall Power Factor has improved from 0.95 lag to 0.99 lag.</p>					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
Agency that executed the project (with complete address and email): Departmental					
Total investment, Rs.: 72000/-			Year of implementation:		
First year energy cost savings, Rs.: 1,02,000/-					
First year other savings, Rs.: nil					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	279	-	-	-	-
Energy consumption after	261	-	-	-	-
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	5.09	-	-	-	-
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Contact person who could be contacted for more information: AGM (Engg)					

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ID to be filled by BEE	Title of the measure Turbo Ventilators in Condom Secondary Production.		Sector Pharmaceutical			
Year to be filled by BEE			Technology			
<p>Description of the energy conservation measure:</p> <p>Original situation: Condom Secondary section is provided with an Air Handling Unit (AHU) for maintaining the proper working environment. This is having a 20HP motor which was running for 16 hours daily.</p> <p>Modifications done: Self powered Turbo Ventilators are provided for the section. These ventilators does not need any power supply to drive out the hot air. After this installation, AHU is run only when the atmosphere is very hot.</p>						
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification			
Agency that executed the project (with complete address and email): Departmental						
Total investment, Rs.: 1,66,000/-			Year of implementation: 2006-07			
First year energy cost savings, Rs.: 3,65,000/-						
First year other savings, Rs.: nil						
On annual basis		kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before		Not metered.	-	-	-	-
Energy consumption after			-	-	-	-
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...		5.09	-	-	-	-
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Contact person who could be contacted for more information: Manager (Secondary)						