




Energy Conservation Measure implemented in 2006

ID to be filled by BEE	Title of the measure Efficient vacuum system for 4 set of ovens	Sector ...FOOD PROCESSING
Year to be filled by BEE		Technology ... Energy Efficient Technology
Description of the energy conservation measure: The venture system used for Oven vacuum system is inefficient consuming more power. Two water Pumps along with one vacuum pump were used. Replaced venture system with efficient Blower system. Project commissioned in year 2006.		
Picture/ sketch/ drawing Before modification		Picture/ sketch/ drawing After modification
		
<div style="border: 1px solid black; padding: 5px; width: fit-content;"> Venture Principal used by circulation of Water & Vacuum maintained. </div>		
Agency that executed the project (with complete address and email): Internal EC Team		
Total investment, Rs.: INR 150000		Year of implementation: Year 2005-06

First year energy cost savings, Rs.: INR 528000					
First year other savings, Rs.: Maintenance Cost etc					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before					
Energy consumption after	* Saving of 132240 units/ annum				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	Rs/Unit- 4.28				
Company complete address: GLAXOSMITHKLINE CONSUMER HEALTHCARE LTD. PATIALA ROAD, NABHA (PUNJAB) PH. No. 01765-220151 FAX No. 01765-220642 Contact person who could be contacted for more information: Rajinder Singh Tel. No. 01765-220151 Extn. 421, Fax No. 01765-220642 E-mail - rajinder.9.singh@gsk.com				We authorise Bureau to use this information for dissemination Signature Date	

Energy Conservation Measure implemented in 2006

ID to be filled by BEE	Title of the measure	Sector ...FOOD PROCESSING
Year to be filled by BEE	Sonic soot blower installation at Boiler Economizer	Technology ... Energy Efficient Technology
<p>Description of the energy conservation measure:</p> <p>Economizer is installed in Boilers for flue gas heat recovery for preheating of Boiler feed water. The heat transfer rate decreases due to deposition of soot on Economizer tubes which results in heat loss and higher energy consumption. Automatic controlled pneumatic operated sonic soot blowers are installed to reduce the soot deposition and energy conservation. Project commissioned in July 2006.</p>		
Picture/ sketch/ drawing Before modification		Picture/ sketch/ drawing After modification
		
Agency that executed the project (with complete address and email): Internal EC Team		
Total investment, Rs.: INR 150000		Year of implementation: Year 2006



First year energy cost savings, Rs.: INR 243000 / INR Per Annum- 486000					
First year other savings, Rs.: Maintenance Cost etc					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before					
Energy consumption after		* Saving of 108 T/ annum			
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...		INR 4395 / T			
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Energy Conservation Measure implemented in 2006

ID to be filled by BEE	Title of the measure Solar Water Heating	Sector ...FOOD PROCESSING
Year to be filled by BEE		Technology ... CDM
<p>Description of the energy conservation measure:</p> <p>Replaced Electric water heaters with Solar water heaters of 500 lit per day capacity (2 in nos.) and 1000 lit per day capacity (1 in nos.). This helped in reducing electricity consumption, in reducing global warming effect and reducing carbon dioxide emissions.</p>		
Picture/ sketch/ drawing Before modification		Picture/ sketch/ drawing After modification
Agency that executed the project (with complete address and email): Internal EC Team		
Total investment, Rs.: INR 451000		Year of implementation: Year 2006


First year energy cost savings, Rs.: INR 145000 Per Annum					
First year other savings, Rs.: Maintenance Cost etc					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before					
Energy consumption after	* Saving of 32000 units / annum				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	Rs 4.28 / unit				
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Energy Conservation Measure implemented in 2006

ID to be filled by BEE	Title of the measure Hurricane Turbine Ventilators	Sector ...FOOD PROCESSING
Year to be filled by BEE		Technology ... CDM
<p>Description of the energy conservation measure:</p> <p>Six Hurricane ventilators powered by non conventional renewable wind energy in place of conventional electrical exhaust fans are installed. These are working on the principle of wind siphoning and centrifugal force created by rotating head of the turbine due to the wind.</p>		
Picture/ sketch/ drawing Before modification		Picture/ sketch/ drawing After modification
		
Agency that executed the project (with complete address and email): Internal EC Team		
Total investment, Rs.: INR 125000		Year of implementation: Year 2006



First year energy cost savings, Rs.: INR 85000 Per Annum					
First year other savings, Rs.: Maintenance Cost etc					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before					
Energy consumption after	* Saving of 17640 units / annum				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	Rs 4.28 / unit				
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Energy Conservation Measure implemented in 2006

ID to be filled by BEE	Title of the measure	Sector ...FOOD PROCESSING
Year to be filled by BEE	Utilization of natural light in Warehouse & Godowns	Technology ... CDM
<p>Description of the energy conservation measure:</p> <p>Replaced Asbestos sheet with translucent Acrylic sheets in Warehouse & Godowns for usage of non-conventional energy source.</p>		
Picture/ sketch/ drawing Before modification	Picture/ sketch/ drawing After modification	
		
Agency that executed the project (with complete address and email): Internal EC Team		
Total investment, Rs.: INR 50000		Year of implementation: Year 2006



First year energy cost savings, Rs.: INR 22304 Per Annum					
First year other savings, Rs.: Maintenance Cost etc					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before					
Energy consumption after	* Saving of 5440 units / annum				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	Rs 4.28 / unit				
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Energy Conservation Measure implemented in 2006

ID to be filled by BEE	Title of the measure	Sector ...FOOD PROCESSING
Year to be filled by BEE	Bio-composting of degradable waste	Technology ... Environment Technology
<p>Description of the energy conservation measure:</p> <p>In its constant endeavor for improving the environment, the site has further strengthened its contribution through the development and deployment of 'Bio composting technique'. This technique will not only reduces the environmental pollution through the use of incinerator, but also aim at conserving electrical and natural resources like diesel besides enhancing the community partnership of the company through providing natural manure to the farmers for increasing the yield of the crops.</p>		
Picture/ sketch/ drawing Before modification		Picture/ sketch/ drawing After modification
		
<p>Incinerator – Stopped after Bio-composting Project Commissioning.</p>		
Agency that executed the project (with complete address and email):		Internal EC Team
Total investment, Rs.: INR 30000		Year of implementation: Year 2006

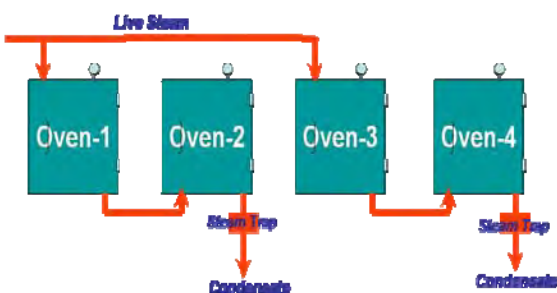
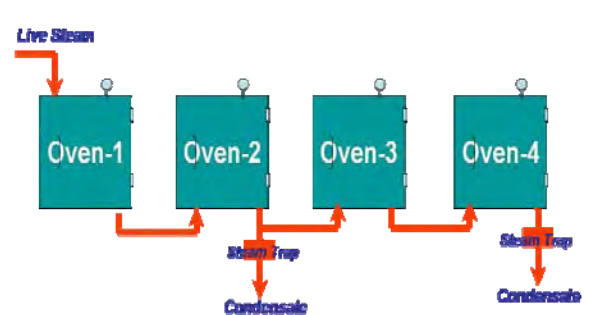
First year energy cost savings, Rs.: INR 230000 Per Annum					
First year other savings, Rs.: Maintenance Cost etc					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	HSD Oil (kL)	Other
Energy consumption before					
Energy consumption after	* Saving of 26332 units / annum			* Saving of 5.475 KL/ annum	
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	Rs 4.28 / unit			Rs 29.61 / Ltr	
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Energy Conservation Measure implemented in 2005

ID to be filled by BEE	Title of the measure	Sector ...FOOD PROCESSING
Year to be filled by BEE	Bio-composting of degradable waste	Technology ... Environment Technology
<p>Description of the energy conservation measure:</p> <p>In its constant endeavor for improving the environment, the site has further strengthened its contribution through the development and deployment of 'Bio composting technique'. This technique will not only reduces the environmental pollution through the use of incinerator, but also aim at conserving electrical and natural resources like diesel besides enhancing the community partnership of the company through providing natural manure to the farmers for increasing the yield of the crops.</p>		
Picture/ sketch/ drawing Before modification		Picture/ sketch/ drawing After modification
		
<p>Incinerator – Stopped after Bio-composting Project Commissioning.</p>		
Agency that executed the project (with complete address and email):		Internal EC Team
Total investment, Rs.: INR 30000		Year of implementation: Year 2006



First year energy cost savings, Rs.: INR 230000 Per Annum					
First year other savings, Rs.: Maintenance Cost etc					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	HSD Oil (kL)	Other
Energy consumption before					
Energy consumption after	* Saving of 26332 units / annum			* Saving of 5.475 KL/ annum	
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	Rs 4.28 / unit			Rs 29.61 / Ltr	
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Energy Conservation Measure implemented in 2006

ID to be filled by BEE	Title of the measure	Sector ...FOOD PROCESSING
Year to be filled by BEE	Energy Efficient Master Slave Ovens	Technology ... Efficient Heat Energy
<p>Description of the energy conservation measure:</p> <p>Oven Steam are Utilized Optimum by doing calculation & Trails basis. At Starting we have One Master & One Slave Concept in Oven Heating . Finally we reached up to a level of One Master + Three Slave . This is replicated in all the Ovens keeping the Operating Parameters same & with Improved Quality Product .</p>		
Picture/ sketch/ drawing Before modification		Picture/ sketch/ drawing After modification
<p style="text-align: center;"><i>Steam distribution system 1 Master 1 Slave</i></p> 		<p style="text-align: center;"><i>Steam distribution system 1 Master 3 Slave</i></p> 
Agency that executed the project (with complete address and email): Internal EC Team		
Total investment, Rs.: INR 30000		Year of implementation: Year 2006


First year energy cost savings, Rs.: INR 700000 Per Annum					
First year other savings, Rs.: Maintenance Cost etc					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	HSD Oil (kL)	Steam
Energy consumption before					
Energy consumption after					* Saving of 0.4 T per Four Oven Per day- Reduction in Steam Consumpt ion is about 20 % .
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...					
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Energy Conservation Measure implemented in 2006

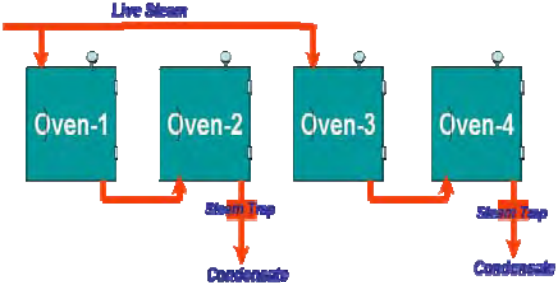
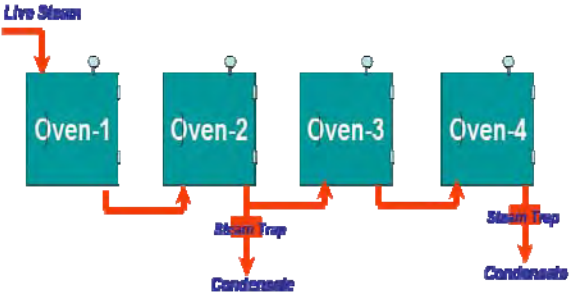
ID to be filled by BEE	Title of the measure	Sector ...FOOD PROCESSING
Year to be filled by BEE	Cooling Tower Blades Replacement	Technology ... Efficient Cooling
<p>Description of the energy conservation measure:</p> <p>Replacement of Aluminium Blades of Cooling Tower Fans with Hollow FRP Blades.</p>		
Picture/ sketch/ drawing Before modification		Picture/ sketch/ drawing After modification
		
Agency that executed the project (with complete address and email): Internal EC Team		
Total investment, Rs.: INR 1.5 Lac		Year of implementation: Year 2006

First year energy cost savings, Rs.: INR 140000 Per Annum					
First year other savings, Rs.: Maintenance Cost etc					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	HSD Oil (kL)	Steam
Energy consumption before					
Energy consumption after	* Saving of 0.34 Lac Kwh				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	Rs 4.28 / unit				
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ID to be filled by BEE	Title of the measure		Sector ...FOOD PROCESSING			
Year to be filled by BEE	Servo Stabilizer Installation for Lighting Load		Technology ... Efficient Technology			
Description of the energy conservation measure: Servo Stabilizer for lighting load in 9L Plant . For optimum Voltage level for Lighting Loads .						
Picture/ sketch/ drawing Before modification			Picture/ sketch/ drawing After modification			
						
Agency that executed the project (with complete address and email): Internal EC Team						
Total investment, Rs.: INR 1.5Lac			Year of implementation: Year 2006			
First year energy cost savings, Rs.: INR 150000 Per Annum						
First year other savings, Rs.: Maintenance Cost etc						
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	HSD Oil (kL)	Steam	
Energy consumption before						
Energy consumption after	* Saving of 0.37 Lac Kwh					
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	Rs 4.28 / unit					
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Energy Conservation Measure implemented in 2006

ID to be filled by BEE	Title of the measure	Sector ...FOOD PROCESSING
Year to be filled by BEE	Energy Efficient Master Slave Ovens	Technology ... Efficient Heat Energy
<p>Description of the energy conservation measure:</p> <p>Oven Steam are Utilized Optimum by doing calculation & Trails basis. At Starting we have One Master & One Slave Concept in Oven Heating . Finally we reached up to a level of One Master + Three Slave . This is replicated in all the Ovens keeping the Operating Parameters same & with Improved Quality Product .</p>		
Picture/ sketch/ drawing Before modification		Picture/ sketch/ drawing After modification
<p style="text-align: center;">Steam distribution system 1 Master 1 Slave</p> 		<p style="text-align: center;">Steam distribution system 1 Master 3 Slave</p> 
Agency that executed the project (with complete address and email): Internal EC Team		
Total investment, Rs.: INR 30000	Year of implementation: Year 2006	

First year energy cost savings, Rs.: INR 700000 Per Annum					
First year other savings, Rs.: Maintenance Cost etc					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	HSD Oil (kL)	Steam
Energy consumption before					
Energy consumption after					* Saving of 0.4 T per Four Oven Per day- Reduction in Staem Consumpt ion is about 20 % .
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...					
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