


## Annexure - B

### Energy Conservation Measure implemented in 2006-2007

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


ID to be filled by BEE	Title of the measure Increasing efficiency of Heater & reduction in furnace oil consumption. <b>Film Plant, Chikhalthana.</b>	Sector : Plastic (Polyester)			
Year to be filled by BEE		Technology .....			
Description of the energy conservation measure: 1. Heater furnace oil consumption reduced by improvement in efficiency of the heater through excess oxygen control. 2. Optimisation of other operating parameters and standby heater operation. 3. Reduction of heat losses by proper repairs.					
<b>Picture/ sketch/ drawing before modification</b> (if available)			<b>Picture/ sketch/ drawing after modification</b>		
-----					
Agency that executed the project (with complete address and email): In house maintenance team.					
Total investment, Rs.: 35,000 /-			Year of implementation: April-2006		
First year energy cost savings, Rs.: 15.34 Lacs.					
First year other savings, Rs.: ---					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	-	-	-	2292	-
Energy consumption after	-	-	-	2196	-
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	-	-	-	15980	-
Company complete address: Garware Polyester Ltd. Aurangabad-Pune road, Waluj, Aurangabad.				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: Mr.V.S.Saraf Mobile No. 09822557093 , Email ID – vss@garwarepoly.com				Signature	
				Date	

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ID to be filled by BEE	Title of the measure 1.25 MVA transformer isolated Film Plant, Chikhalthana.	Sector : Plastic (Polyester)			
Year to be filled by BEE		Technology .....			
Description of the energy conservation measure: 1. 1.25 MVA transformer was inline with low load. 2. To avoid the operational losses, the said transformer made offline & isolated.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
-----			 <p style="margin-top: 10px;">1.25 MVA Transformer, Chikhalthana Plant.</p>		
Agency that executed the project (with complete address and email): In house maintenance team.					
Total investment, Rs.: Nil			Year of implementation: April - 2006		
First year energy cost savings, Rs.: 3.37 Lacs.					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	924	-	-	-	-
Energy consumption after	0	-	-	-	-
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	3.65	-	-	-	-
Company complete address: Garware Polyester Ltd. Aurangabad-Pune road, Waluj, Aurangabad.				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: Mr.V.S.Saraf Mobile No. 09822557093 , Email ID – vss@garwarepoly.com				Signature  Date	

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### Energy Conservation Measure implemented in 2006-2007

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ID to be filled by BEE	Title of the measure Optimisation of Brine system. <b>Film Plant, Chikhalthana.</b>	Sector : Plastic (Polyester)			
Year to be filled by BEE		Technology .....			
Description of the energy conservation measure: 1. Initially brine system provided to Film plant process was 10 TR capacity. 2. Brine system of 5 TR capacity provided, instead of 10 TR system.					
<b>Picture/ sketch/ drawing before modification</b> (if available)			<b>Picture/ sketch/ drawing after modification</b>		
-----					
Agency that executed the project (with complete address and email): In house maintenance team.					
Total investment, Rs.: 4.5 Lacs.			Year of implementation: Oct.-2006		
First year energy cost savings, Rs.: 2.4455 Lacs.					
First year other savings, Rs.: -----					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	121.8	-	-	-	-
Energy consumption after	54.6	-	-	-	-
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	3.65	-	-	-	-
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(To be filled up separately for each Energy Conservation Measure)



ID to be filled by BEE	Title of the measure	Sector : Plastic (Polyester)			
Year to be filled by BEE	Optimisations of MDO pump – Line 2, <b>Film Plant, Chikhalthana.</b>	Technology .....			
Description of the energy conservation measure: 1. Line 2 MDO secondary pump motor replaced. Previous Motor RPM –3000 Installed Motor RPM - 1500					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
-----			 <p style="text-align: center;">MDO secondary hot oil pump motor(RPM-1500), Chikhalthana Plant.</p>		
Agency that executed the project (with complete address and email): In house maintenance team.					
Total investment, Rs.: 10,000 /-			Year of implementation: April-2006		
First year energy cost savings, Rs.: 0.82 Lacs.					
First year other savings, Rs.: -----					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	54.6	–	–	–	–
Energy consumption after	31.92	–	–	–	–
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	3.65	–	–	–	–
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### Energy Conservation Measure implemented in 2006-2007

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ID to be filled by BEE	Title of the measure Line-2 Chilled water pump Installation of high efficiency pump. <b>Film Plant, Chikhalthana.</b>			Sector : Polyester (Polyester)		
Year to be filled by BEE				Technology .....		
Description of the energy conservation measure: 1. Line 2 chilled water pump replaced with high efficiency pump.						
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification			
 <p>Old inefficient pump, Chikhalthana Plant</p>			 <p>New High efficiency pump, Chikhalthana Plant</p>			
Agency that executed the project (with complete address and email): In house maintenance team.						
Total investment, Rs.: 45,000 /-			Year of implementation: Feb.-2007			
First year energy cost savings, Rs.: 3.54 Lacs.						
First year other savings, Rs.:						
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other	
Energy consumption before	282.24	-	-	-	-	
Energy consumption after	184.80	-	-	-	-	
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	3.65	-	-	-	-	
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ID to be filled by BEE	Title of the measure Condenser Cooling water pump replacement. <b>Film Plant, Chikhalthana.</b>	Sector : Plastic (Polyester)			
Year to be filled by BEE		Technology .....			
Description of the energy conservation measure: 1. Condenser cooling water pump was old & low efficiency pump. 2. Pump was replaced by high efficiency pump.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
-----					
Agency that executed the project (with complete address and email): In house maintenance team.					
Total investment, Rs.: 30,000 /-			Year of implementation: May-2006		
First year energy cost savings, Rs.: 1.782 Lacs.					
First year other savings, Rs.: -----					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	419.30	-	-	-	-
Energy consumption after	370.47	-	-	-	-
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	3.65	-	-	-	-
Company complete address: Garware Polyester Ltd. Aurangabad-Pune road, Waluj, Aurangabad.				We authorise Bureau to use this information for dissemination	
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ID to be filled by BEE	Title of the measure Stoppage of tank agitator. Chikhalthana ETP.	Sector : Plastic (Polyester)			
Year to be filled by BEE		Technology .....			
Description of the energy conservation measure: 1. In ETP agitator was in operation for 24 Hrs for homogenization of incoming effluent . 2. Agitator was operated only for homogenization of incoming effluent before transfer to holding tank. Agitator operation reduced from 24 Hrs to 20 Hrs.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
-----			 <p style="text-align: center;">Chikhalthana Plant ETP incoming effluent tank agitator.</p>		
Agency that executed the project (with complete address and email): In house maintenance team.					
Total investment, Rs.: NIL			Year of implementation: April 2006		
First year energy cost savings, Rs.: 2.83 Lacs.					
First year other savings, Rs.: -----					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	93.10	—	—	—	—
Energy consumption after	15.52	—	—	—	—
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	3.65	—	—	—	—
Company complete address: Garware Polyester Ltd. Aurangabad-Pune road, Waluj, Aurangabad.				We authorise Bureau to use this information for dissemination	
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