


### 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 <b>INSTALLATION OF AOD PUMP</b>	Sector : Drug & Pharmaceuticals			
Year to be filled by BEE		Technology .....			
Description of the energy conservation measure:					
<p>Air Operated Discharge Pump is used to feed the Chemicals in Reactors instead of Electrical Operated Centrifugal pumps. These pumps required air Flow at a rate of 1 m<sup>3</sup> Per hour. These Pumps are most suitable for feeding the chemicals in nearby Reactors and thus saving the Electrical Power. Total 60 Nos AOD pumps are installed in various block of production.</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.: 600000/-			Year of implementation: 2007- 2008		
First year energy cost savings, Rs.: 228855 /-					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	82125	-	-	-	-
Energy consumption after	25000	-	-	-	-
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	4.0	-	-	-	-
Company complete address:  BLAGDON PUMP LIMITED, WASHINGTON, TYNE AND WEAR NE 37 1Q, LAMBERT ROAD, ARMSTRONG, ENGLAND				We authorise Bureau to use this information for dissemination  Signature  Date	
Contact person who could be contacted for more information:					

**Note: Please submit this sheet separately for each Energy Conservation Measure implemented in 2007-2008 and a CD containing the above information may be please be enclosed.**

### 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 <b>INSTALLATION OF HORIZONTAL SCRUBBER</b>	Sector : Drug & Pharmaceuticals			
Year to be filled by BEE		Technology .....			
Description of the energy conservation measure:					
Horizontal Scrubber is installed instead of conventional Vertical Type Conventional Scrubber. These Horizontal Scrubber have a reduction of 7.4 KW as compared to vertical Type Scrubber having a Capacity of 6000 CFM. Total Six Numbers Unit Installed in Plant.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email):					
Total investment : 5400000/-			Year of implementation: 2007- 2008		
First year energy cost savings : 1787000/-					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	1292976	-	-	-	-
Energy consumption after	904032	-	-	-	-
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	4.6	-	-	-	-
Company complete address: J R Fiberglass Industries Pvt.Ltd., 1/21, Rocky Indl. Estate, I.B. Patel Road, Goregaon (E), MUMBAI – 400063				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: Mr. Pankaj Meheta jrind@bom3.vsnl.net.in (22) 26853603 /04					
				Signature	
				Date	

**Note: Please submit this sheet separately for each Energy Conservation Measure implemented in 2007-2008 and a CD containing the above information may be please be enclosed.**



### 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 <b>NITROGEN BLANKETING OF CENTRIFUGES</b>	Sector : Drug & Pharmaceuticals			
Year to be filled by BEE		Technology .....			
Description of the energy conservation measure:					
<p>Centrifuge Blanketing was done through Nitrogen which was escaping to atmosphere through open vent resulting in loss of Nitrogen. To avoid this loss of Nitrogen PRV &amp; BPRV installed and Automation done to Avoid losses through vent. Total Nitrogen consumption is reduced to 0.612 M<sup>3</sup> Per Hour after installation of this system. This Automation is Installed in total 19 Nos Centrifuge.</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.: 4750000/-			Year of implementation: 2007- 2008		
First year energy cost savings, Rs.: 1382000 / -					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	305321	-	-	-	-
Energy consumption after	4732	-	-	-	-
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	4.6	-	-	-	-
Company complete address: Nirmal Industrial Controls Pvt.Ltd., L.B. Shastri Marg, 4, Nahur Indl. Estate, Mumbai - 400 080, Maharashtra				We authorize Bureau to use this information for dissemination	
Contact person who could be contacted for more information:				Signature	
Mr. Rajesh Pradhan				Date	

**Note: Please submit this sheet separately for each Energy Conservation Measure implemented in 2007-2008 and a CD containing the above information may be please be enclosed.**

### 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 <b>POWER FACTOR IMPROVEMENT</b>	Sector : Drug & Pharmaceuticals			
Year to be filled by BEE		Technology .....			
Description of the energy conservation measure:  New Solid State Auto Power Factor Control Panels are provided to improve the Power Factor. Power Factor is maintained to Unity to reduce the line losses and avail PF Incentives from MSEB as reward to Reduce the line losses.					
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.: 1645000/-			Year of implementation: 2007- 2008		
First year energy cost savings, Rs.: 1542965 /-					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	-	-	-	-	-
Energy consumption after	-	-	-	-	-
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	-	-	-	-	-
Company complete address:  Neel Controls, 407 Sapphire Arcade 42, MG Road, Rajawadi Ghatkopar ( E) Mumbai - 400077  Contact person who could be contacted for more information:  Mr. Nitin Deshpande				We authorise Bureau to use this information for dissemination  Signature  Date	

**Note: Please submit this sheet separately for each Energy Conservation Measure implemented in 2007-2008 and a CD containing the above information may be please be enclosed.**

### 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 <b>INSTALLATION OF WATER COOLED CHILLERS</b>	Sector : Drug & Pharmaceuticals			
Year to be filled by BEE		Technology .....			
Description of the energy conservation measure:					
Energy Efficient Trane Chilling unit with water cooled condensers is installed to gain the advantage of Water Cooled Condensers . We installed Three Nos Such Units of 100TR Capacity.					
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. 6300000/-			Year of implementation: 2007- 2008		
First year energy cost savings, Rs.: 1352400 /-					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	948150	-	-	-	-
Energy consumption after	654150	-	-	-	-
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	4.6	-	-	-	-
Company complete address:				We authorise Bureau to use this information for dissemination	
Trane Cooling and Heating Systems Services Trane India Ltd, 1003/ B , Hiranandani Business Park Hiranandani Garden Warli, Mumbai - 400076					
Contact person who could be contacted for more information:				Signature	
Mr. Patole				Date	

**Note: Please submit this sheet separately for each Energy Conservation Measure implemented in 2007-2008 and a CD containing the above information may be please be enclosed.**

### Energy Conservation Measure implemented in 2007-2008

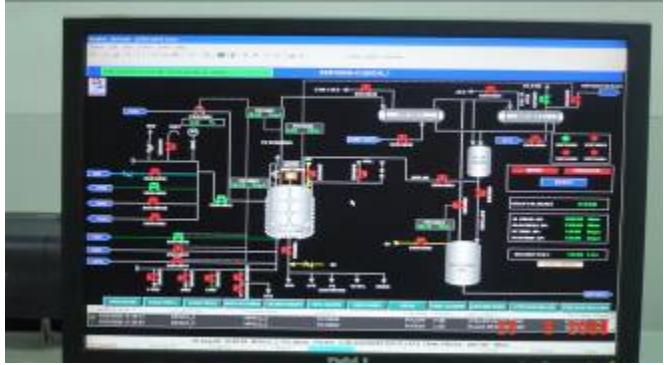
(To be filled up separately for each Energy Conservation Measure)

ID to be filled by BEE	Title of the measure <b>CFL STREET LIGHT PROJECT</b>	Sector : Drug & Pharmaceuticals .....			
Year to be filled by BEE		Technology .....			
Description of the energy conservation measure:  CFL Street Light each having a 3 x 36 W CFL is provided instead of 150 Watt HPSV Lamps. These Street Light provides the White better illumination with less Power Consumption. The Unit is equipped with Electronic Chokes to Further reduce the losses. Total 84 Nos Street Light Fitting Provided.					
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.: 319200/-			Year of implementation: 2007- 2008		
First year energy cost savings, Rs.: 69538/-					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	55188	-	-	-	-
Energy consumption after	39735	-	-	-	-
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	4.65				
Company complete address: M/S Gourav Traders Plot No. 16, Shop No 1 Shriram Complex Bansilal Nagar Aurangabad ( MS)				We authorize Bureau to use this information for dissemination	
Contact person who could be contacted for more information:  Mr. Mehata Mobile no : 9822769208				Signature	
				Date	

**Note: Please submit this sheet separately for each Energy Conservation Measure implemented in 2007-2008 and a CD containing the above information may be please be enclosed.**


### 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 <b>PROCESS AUTOMATION</b>	Sector : Drug & Pharmaceuticals			
Year to be filled by BEE		Technology .....			
Description of the energy conservation measure:					
<p>Process Automation done by Installing DCS and Automation instrument for the Process as well as for Utility Equipments. <b>Reactors Operations which were in manual system is taken into Automation through DCS. Reactors with Utilities like Air, - 10 Deg, - 40 Deg, + 10 Deg, Nitrogen is controlled by accurate desired parameters. Also some of reactors are equipped with VFD to optimize the Power consumption.</b></p>					
<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):					
Total investment, Rs.: 13000000/-			Year of implementation:		
First year energy cost savings, Rs.: 7216754 /-					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before		-	-	-	-
Energy Unit Saving	1568861	-	-	-	-
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	4.60	-	-	-	-
Company complete address: M/S Honeywell Process Solutions, 56&57 Hadapsar Industrial Estate Pune. M/S Emerson Process Management , EL 171, TTC Industrial Area. Mahape, Navi Mumbai-400710				We authorise Bureau to use this information for dissemination  Signature  Date	
Contact person who could be contacted for more information: M/S Honeywell : Mr. Bhushan Deshmukh , 020 66039725 M/S Emerson : Mr. Mr. Alok Khatlawala , 020 67122904					

### 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 <b>DRY SCREW TYPE VACCUME PUMP</b>	Sector Drug & Pharmaceuticals			
Year to be filled by BEE		Technology .....			
Description of the energy conservation measure:					
<p>Dry Screw Type Vacuum pumps is installed instead of conventional Water Ring Type Pumps for Vacuum. The Pumps have an advantage of better efficiency as compared to Water Type Pumps. For the same capacity Pump the saving in Electrical power is in the range of 20 – 25 % . Total 18 Nos such Pumps is installed in the Plant at various location.</p> <p>Also water consumption is reduced to Zero and Water Treatment cost is reduced due to reduction in Hydraulic load in ETP.</p>					
<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):					
Total investment, Rs.: 36000000/-			Year of implementation: 2007- 2008		
First year energy cost savings, Rs.: 2146176 /-					
First year other savings, Rs.: 39488472/-					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	1749600				
Energy consumption after	1283040				
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	4.65				
Company complete address: Retschle Germany or Premier Ziba (India) Pvt.Ltd., 40, Sunder Nagar, New Delhi - 110 003				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: 011 - 24357581				Signature	
				Date	

**Note: Please submit this sheet separately for each Energy Conservation Measure implemented in 2007-2008 and a CD containing the above information may be please be enclosed.**

### 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 Peeler Centrifuge	Sector : Drug & Pharmaceuticals			
Year to be filled by BEE		Technology .....			
Description of the energy conservation measure:  Peeler Centrifuge with Variable Speed Drive is installed for the Product Filtration at required speed to Reduce the Electrical Power Consumption. The Centrifuge has high Centrifugal Forces as compared to conventional Centrifuges due to which its filtration efficiency is very high.					
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.: 500000/-			Year of implementation:		
First year energy cost savings, Rs.: 140000/-					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	151200	-	-	-	-
Energy consumption after	120960	-	-	-	-
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	4.65	-	-	-	-
Company complete address: D.PARIKH ENGINEERING WORKS , MATHURDAS VASANJI ROAD, PLOT. 115,MAROL CO-OP IND, NEAR SAKI 400059				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information:  Mr. Mayank Parikh 022-28504787/28504788/28508662/28506549 dparikh@vsnl.com / sales@dparikh.com				Signature	
				Date	

**Note: Please submit this sheet separately for each Energy Conservation Measure implemented in 2007-2008 and a CD containing the above information may be please be enclosed.**

### 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 <b>PLUG TYPE BLOWER</b>	Sector : Drug & Pharmaceuticals			
Year to be filled by BEE		Technology .....			
Description of the energy conservation measure:  Plug Type Blowers are installed for Sterile Plant HVAC System to save the losses due to conventional Belt Driven Blowers in Such Type of Applications. This gives us 10 % Energy Saving. Total 17 Nos Such Blowers is installed in Sterile Plant HVAC.					
<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):					
Total investment, Rs.: 650000/-			Year of implementation:		
First year energy cost savings, Rs.: 641000/-					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	1393980	-	-	-	-
Energy consumption after	1254582	-	-	-	-
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	-	-	-	-	-
Company complete address: M+W Zander (s) Pvt.Ltd., 504, Saptagiri Towers, begumpet, Hyderabad - 500 16				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: 040-6329804 meissner@hd2.vsnl.net.in				Signature	
				Date	

**Note: Please submit this sheet separately for each Energy Conservation Measure implemented in 2007-2008 and a CD containing the above information may be please be enclosed.**

### 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 Timer Panel For Reactor Vessel Lamp	Sector : Drug & Pharmaceuticals			
Year to be filled by BEE		Technology .....			
Description of the energy conservation measure:  New Panel with Timer is designed to control the ON Time of Reactor Vessel lamp. It was observed that the times which were provided in build with Vessel lamp were unreliable and Failure of Lamps was high. After providing the Panel the Along with Time control Lamp Failure is reduced drastically. Initially only one Panel was provided and based on its result these panels are provided in all other Plant.					
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.: 338000			Year of implementation: 2007- 2008		
First year energy cost savings, Rs.: 36315 /-					
First year other savings, Rs.: Replacement Frequency of Vessel lamp is reduced.					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	-	-	-	-	
Energy consumption after	-	-	-	-	
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	-	-	-	-	
Company complete address: M/s Devson Switchgears & Controls Pvt Ltd. Vasai - 401208				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information:				Signature	
Phone Number : 0250 - 2481463				Date	

**Note: Please submit this sheet separately for each Energy Conservation Measure implemented in 2007-2008 and a CD containing the above information may be please be enclosed.**