

### 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	Sector ...Petrochemical Industry.....
Year to be filled by BEE	<b>Aerator stoppage of IWWTP during Monsoon period</b>	Technology .....
<p>Description of the energy conservation measure:</p> <p>In IWWTP Plant BOD in the effluent water is reduced in aeration tank by aerobic digestion. Aeration tank has two compartments each of 5125 M3 capacity. There are six aerators in each compartment. Each aerator consumes 40 HP of electricity.</p> <p>Aeration tank is designed for 410 M3/hr of water flow and 2500 Kg/Day of BOD load. Actual flow rate of water flow rate as well as BOD load in non-monsoon season remains much less than the design value.</p> <p>One compartment of the aeration tank was already taken out of operation during non-monsoon period.</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.: Nil		Year of implementation:2007-2008

First year energy cost savings, Rs.: 9.8 Lakhs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	360				
Energy consumption after	180				
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	2.6				
Company complete address: Reliance Industries Limited-(NMD) P.O.Pterochemicals Township Nagothane, District Raigad, Maharashtra Pin-402125  Contact person who could be contacted for more information: SHRI RAMESH KASHIKAR				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	Sector ... <b>Petrochemical Industry</b>
Year to be filled by BEE	<b>Replacement of 13 ID fans of cooling tower (CT-01 &amp; CT-02)</b>	Technology .....
<p>The two seven-cell cooling towers at RIL-NMD employ hollow bladed FRP fans of 10 m diameter powered by 75 KW motors. These fans are designed to deliver air at the rate of 38242.5 cum per min. running continuously throughout the year. A measurement of current consumption showed that the fan motors consume 49 KW to 52 KW power (85A to 90A against a full load rated current of 130A), meaning that the fans are loaded only 65-70%. In addition to this, all the fans are required to run continuously to deliver the required supply temperature of cooling water. This results not only in a time crunch for preventive maintenance, but also results in higher power consumption and loss in operating efficiency.</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.: 24.8	Year of implementation: 2007-2008	

First year energy cost savings, Rs.: 29.5 Lakhs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	678.12				
Energy consumption after	500.17				
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	2.6				
Company complete address: Reliance Industries Limited-(NMD) P.O.Pterochemicals Township Nagothane, District Raigad, Maharashtra Pin-402125  Contact person who could be contacted for more information: SHRI RAMESH KASHIKAR				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 Stopping of degassing fans of storage & off grade silos.				Sector ... <b>Petrochemical Industry</b>	
Year to be filled by BEE					Technology .....	
Stopping of degassing fans of storage & off grade silos.						
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.:			Year of implementation: 2007-2008			
First year energy cost savings, Rs.: 0.9 Lakhs						
First year other savings, Rs.:						
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other	
Energy saving	0.5 lakhs					
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...						
Company complete address: Reliance Industries Limited-(NMD) P.O.Petrochemicals Township Nagothane, District Raigad, Maharashtra Pin-402125				We authorise Bureau to use this information for dissemination  Signature  Date		
Contact person who could be contacted for more information: SHRI RAMESH KASHIKAR						

**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>Replacement of conventional Electromagnetic ballast with electronic ballast in PP service building.</b>		Sector ... <b>Petrochemical Industry</b>		
Year to be filled by BEE			Technology .....		
Replacement of conventional Electromagnetic ballast with electronic ballast in PP service building					
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.: 2.3			Year of implementation: 2007-2008		
First year energy cost savings, Rs.: 1.6 Lakhs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy saving	0.9 lakhs				
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...					
Company complete address: Reliance Industries Limited-(NMD) P.O.Petrochemicals Township Nagothane, District Raigad, Maharashtra Pin-402125				We authorise Bureau to use this information for dissemination  Signature  Date	
Contact person who could be contacted for more information: SHRI RAMESH KASHIKAR					

**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>Replacement of H 10 &amp; H 11 furnace ID fans</b>		Sector ... <b>Petrochemical Industry</b>		
Year to be filled by BEE			Technology .....		
Replacement of H 10 & H 11 furnace ID fans					
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.: 45			Year of implementation: 2007-2008		
First year energy cost savings, Rs.: 68.1 Lakhs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other MMKCal
Energy saving	0.7 lakhs				7833.6
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...					
Company complete address: Reliance Industries Limited-(NMD) P.O.Petrochemicals Township Nagothane, District Raigad, Maharashtra Pin-402125				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: SHRI RAMESH KASHIKAR				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>Replacement of existing Halogen lamps and fixtures with Metal halide lamps and fixture in township</b>		Sector ... <b>Petrochemical Industry</b>			
Year to be filled by BEE			Technology .....			
Replacement of existing Halogen lamps and fixtures with Metal halide lamps and fixture in township						
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.: 2.2			Year of implementation: 2007-2008			
First year energy cost savings, Rs.: 1.3 Lakhs						
First year other savings, Rs.:						
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other MMKCal	
Energy saving	0.7 lakhs				7833.6	
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...						
Company complete address: Reliance Industries Limited-(NMD) P.O.Petrochemicals Township Nagothane, District Raigad, Maharashtra Pin-402125  Contact person who could be contacted for more information: SHRI RAMESH KASHIKAR					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		Sector ...Petrochemical Industry.....		
Year to be filled by BEE	<b>Coating of impeller and casing of one cooling water makeup pump with corrocoat coating</b>		Technology .....		
Coating of impeller and casing of one cooling water makeup pump with corrocoat coating					
<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.: 0.7			Year of implementation:2007-2008		
First year energy cost savings, Rs.: 1.1 Lakhs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy saving	0.6				
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	2.6				
Company complete address: Reliance Industries Limited-(NMD) P.O.Petrochemicals Township Nagothane, District Raigad, Maharashtra Pin-402125				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: SHRI RAMESH KASHIKAR				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.**