


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 Low excess air burner in PDA	SectorRefinery (Furnace).....
Year to be filled by BEE		Technology
Description of the energy conservation measure: Replacement of Eight (8) Oil Burners (40% Excess Air) with Low NOx, Low Excess Air (With Oil: 20%) Burners were carried out during M&I shutdown in Oct'07 as a part of PDA heater efficiency improvement project.		
Picture/ sketch/ drawing before modification (if available)		Picture/ sketch/ drawing after modification
		
Agency that executed the project (with complete address and email): JOHN JINK LUXEMBOURG SARL Liaison Office –India 31 Kalpataru Court C. Gidwani Marg Chembur Mumbai 400071 Tel. No: 0091 22 2520 7981/2 Fax No: 0091 22 2520 7983		
Total investment, Rs.: 200 Lakhs		Year of implementation: 2007

First year energy cost savings, Rs: 53 Lakhs					
First year other savings, Rs:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	-	-	-	5492	-
Energy consumption after	-	-	-	5214	-
Energy tariff, Rs/kL ...	-	-	-	16391.9	
Company complete address: Indian Oil Corporation Limited Haldia Refinery, P.O Haldia Refinery, Dist.: Purba Medinipur, West Bengal- 721601 Contact person who could be contacted for more information:				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

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ID to be filled by BEE	Title of the measure Installation of Low excess air burner in VBU	Sector(Refinery) Furnace.....
Year to be filled by BEE		Technology
Description of the energy conservation measure: Replacement of existing Sixteen (16) Combined Firing Oil & Gas Burners (40% Excess Air) with Low NOx Low Excess Air (With Oil: 20% & With Gas: 15%) Burners were carried out during shutdown in Oct'07 to improve VBU heater efficiency from a level of 84.0% to 85.9%.		
Picture/ sketch/ drawing before modification (if available)		Picture/ sketch/ drawing after modification
		
Agency that executed the project (with complete address and email): JOHN JINK LUXEMBOURG SARL Liaison Office –India 31 Kalpataru Court C. Gidwani Marg Chembur Mumbai 400071 Tel. No: 0091 22 2520 7981/2 Fax No: 0091 22 2520 7983		
Total investment, Rs.: 79 Lakhs		Year of implementation: 2007

First year energy cost savings, Rs: 70 Lakhs					
First year other savings, Rs:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	-	-	-	7255/Yr	-
Energy consumption after	-	-	-	6924/Yr	-
Energy tariff, Rs/kL ...	-	-	-	16391.9	
Company complete address: Indian Oil Corporation Limited Haldia Refinery, P.O Haldia Refinery, Dist.: Purba Medinipur, West Bengal- 721601 Contact person who could be contacted for more information:				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 Ceramic Insulation in PDA heater	SectorFurnace.....
Year to be filled by BEE		Technology
<p>Description of the energy conservation measure:</p> <p>Old castable refractory of PDA was replaced with Ceramic fibre insulation in Oct'07. This modification reduced the furnace wall temperature from average 105°C to 42°C. Due to reduction in furnace wall temperature, the radiation heat loss of the furnace reduced from the level of 0.28 MMKcal/hr to 0.02 MMKcal/hr.</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.: 30 Lakhs		Year of implementation: 2007

First year energy cost savings, Rs: 46 Lakhs					
First year other savings, Rs:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	-	-	-	7255/Yr	-
Energy consumption after	-	-	-	6924/Yr	-
Energy tariff, Rs/kL ...	-	-	-	16391.9	
Company complete address: Indian Oil Corporation Limited Haldia Refinery, P.O Haldia Refinery, Dist.: Purba Medinipur, West Bengal- 721601 Contact person who could be contacted for more information:				We authorise Bureau to use this information for dissemination Signature Date	

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