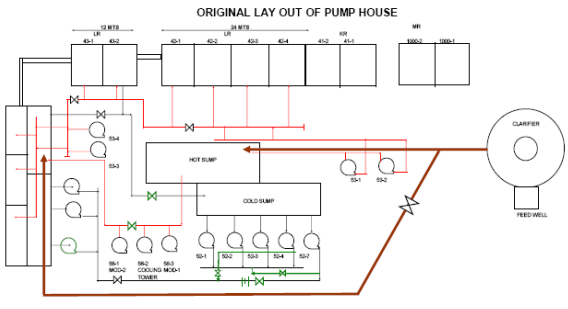
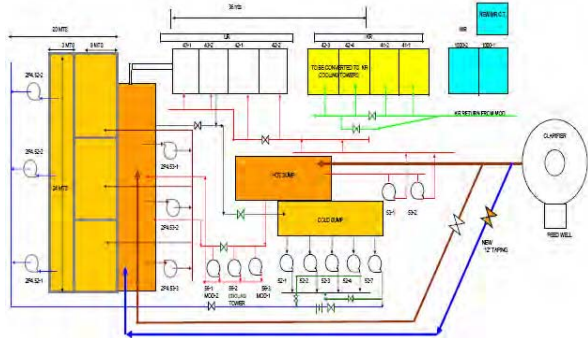


Energy Conservation Measure implemented in 2007-2008

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



ID to be filled by BEE	Title of the measure	Sector : Manufacturing			
Year to be filled by BEE	Additional 14" line provided at clarifier outlet water line	Technology: Steel			
Description of the energy conservation measure:					
Additional 14" line provided at clarifier outlet water line which results in stoppage of one pump.					
Picture/ sketch/ drawing before modification (if available)	Picture/ sketch/ drawing after modification				
					
Agency that executed the project (with complete address and email): Essar Steel Limited only					
Total investment, Rs.: 0.5 Lacs		Year of implementation: 2007 - 08			
First year energy cost savings, Rs.: 7.35Lacs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	*				
Energy consumption after	*				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.2				
Company complete address: Essar Steel Limited, 27 km - Surat Hazira Road, Surat, Gujarat - 394270				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: Mr. Paras Desai				Signature	
				Date: 16 th Oct 2008	

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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: Manufacturing			
Year to be filled by BEE	APFC panel installation in CRM comp	Technology: Steel			
<p>Description of the energy conservation measure: After switching on APFC panel total saving are as follows.</p> <ol style="list-style-type: none"> 1) Reduction in Current – 314 amps. 2) Reduction in KVAR - 396 KVAR 3) Reduction in KVA - 166 KVA 4) Improvement in P.F from 0.86 to 0.96 5) Reduction in copper loss in KW. 6) Reduction in percentage loading of Transformer from 93% to 84%. 7) Percentage of temperature rise of Cable and Transformer is reduced. 					
<p>Picture/ sketch/ drawing before modification (if available)</p>			<p>Picture/ sketch/ drawing after modification</p>		
					
Agency that executed the project (with complete address and email): Essar Steel Limited only					
Total investment, Rs.: 0.0 Lacs			Year of implementation: 2007 - 08		
First year energy cost savings, Rs.: 0.37 Lacs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	*				
Energy consumption after	*				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.2				
Company complete address: Essar Steel Limited, 27 km - Surat Hazira Road, Surat, Gujarat - 394270				We authorise Bureau to use this information for dissemination Signature Date: 16 th Oct 2008	
Contact person who could be contacted for more information: Mr. Paras Desai					

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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 : Manufacturing		
Year to be filled by BEE	Automatic lighting sensor		Technology: Steel		
Description of the energy conservation measure:					
Timer was put to control the lighting of the plant.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
Agency that executed the project (with complete address and email): Essar Steel Limited only					
Total investment, Rs.: Lacs			Year of implementation: 2007 - 08		
First year energy cost savings, Rs.: 1.47 Lacs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	*				
Energy consumption after	*				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.2				
Company complete address: Essar Steel Limited, 27 km - Surat Hazira Road, Surat, Gujarat - 394270				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: Mr. Paras Desai				Signature	
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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 : Manufacturing			
Year to be filled by BEE	Booster pump 1P2.133-1 removed	Technology: Steel			
Description of the energy conservation measure:					
Booster pump 1P2.133-1 is removed as its requirements were fulfilled by HT pump.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email): Essar Steel Limited only					
Total investment, Rs.: 0.2 Lacs			Year of implementation: 2007 - 08		
First year energy cost savings, Rs.: 36.71 Lacs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	*				
Energy consumption after	*				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.2				
Company complete address: Essar Steel Limited, 27 km - Surat Hazira Road, Surat, Gujarat - 394270				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: Mr. Paras Desai				Signature	
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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 Centrifugal Chillers	Sector: Manufacturing			
Year to be filled by BEE		Technology: Steel			
Description of the energy conservation measure:					
<p>Centrifugal Chillers (Capacity 300 TR – 04 numbers): Evaporator and condenser's tube side (water) as well as shell side (refrigerant) were Chemically cleaned. This result in better efficiency of chillers and received the required output by only 3 chillers instead of 4.</p>					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email): Essar Steel Limited only					
Total investment, Rs.: 1.11 Lacs			Year of implementation: 2007 - 08		
First year energy cost savings, Rs.: 52.58 Lacs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	*				
Energy consumption after	*				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.2				
Company complete address: Essar Steel Limited, 27 km - Surat Hazira Road, Surat, Gujarat - 394270				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: Mr. Paras Desai					
				Signature	
				Date: 16 th Oct 2008	

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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: Manufacturing			
Year to be filled by BEE	Changed Fan Blade	Technology: Steel			
Description of the energy conservation measure:					
CRM Cooling Tower: Fan blade changed from aluminum to FRP.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email): Essar Steel Limited only					
Total investment, Rs.: Lacs			Year of implementation: 2007 - 08		
First year energy cost savings, Rs.: 0.06 Lacs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before per month	*				
Energy consumption after per month	*				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.2				
Company complete address: Essar Steel Limited, 27 km - Surat Hazira Road, Surat, Gujarat - 394270				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: Mr. Paras Desai					
				Signature	
				Date: 16 th Oct 2008	

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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: Manufacturing			
Year to be filled by BEE	Chiller # 4 : Enhanced the capacity	Technology: Steel			
Description of the energy conservation measure:					
Chiller # 4: Enhanced the capacity of chiller by 9 TR by increasing the condenser water flow from 47 to 85 m ³ /hr					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email): Essar Steel Limited only					
Total investment, Rs.: 0.48 Lacs			Year of implementation: 2007 - 08		
First year energy cost savings, Rs.: 10.37 Lacs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	*				
Energy consumption after	*				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.2				
Company complete address: Essar Steel Limited, 27 km - Surat Hazira Road, Surat, Gujarat - 394270				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: Mr. Paras Desai				Signature	
				Date: 16 th Oct 2008	

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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: Manufacturing			
Year to be filled by BEE	Crane-1 & 13 Drive installation	Technology: Steel			
Description of the energy conservation measure:					
Crane-1 & 13 Drive installation					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
Agency that executed the project (with complete address and email): Essar Steel Limited only					
Total investment, Rs.: 20 Lacs			Year of implementation: 2007 - 08		
First year energy cost savings, Rs.: 13.50 Lacs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	*				
Energy consumption after	*				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.2				
Company complete address: Essar Steel Limited, 27 km - Surat Hazira Road, Surat, Gujarat - 394270				We authorise Bureau to use this information for dissemination Signature Date: 16 th Oct 2008	
Contact person who could be contacted for more information: Mr. Paras Desai					

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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: Manufacturing			
Year to be filled by BEE	DSC crane drives installation	Technology: Steel			
Description of the energy conservation measure:					
DSC crane drives installation					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
Agency that executed the project (with complete address and email): Essar Steel Limited only					
Total investment, Rs.: 17.5 Lacs			Year of implementation: 2007 - 08		
First year energy cost savings, Rs.: 27.05 Lacs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	*				
Energy consumption after	*				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.2				
Company complete address: Essar Steel Limited, 27 km - Surat Hazira Road, Surat, Gujarat - 394270				We authorise Bureau to use this information for dissemination Signature Date: 16 th Oct 2008	
Contact person who could be contacted for more information: Mr. Paras Desai					

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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: Manufacturing			
Year to be filled by BEE	Energy saving by reducing voltage from 440 v. to 400 volts	Technology: Steel			
Description of the energy conservation measure:					
Energy saving by reducing voltage from 440 v. to 400 volts					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
Agency that executed the project (with complete address and email): Essar Steel Limited only					
Total investment, Rs.: Lacs			Year of implementation: 2007 - 08		
First year energy cost savings, Rs.: 32.66 Lacs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	*				
Energy consumption after	*				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.2				
Company complete address: Essar Steel Limited, 27 km - Surat Hazira Road, Surat, Gujarat - 394270				We authorise Bureau to use this information for dissemination Signature Date: 16 th Oct 2008	
Contact person who could be contacted for more information: Mr. Paras Desai					

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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 : Manufacturing		
Year to be filled by BEE	Furnace Repairing		Technology: Steel		
Description of the energy conservation measure:					
Used good quality refractory lining, replaced damaged water and gas lines and upgraded the insulation of furnace.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
Agency that executed the project (with complete address and email): Essar Steel Limited only					
Total investment, Rs.: 300 Lacs			Year of implementation: 2007 - 08		
First year energy cost savings, Rs.: 372 Lacs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before			*		
Energy consumption after			*		
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...			10570		
Company complete address: Essar Steel Limited, 27 km - Surat Hazira Road, Surat, Gujarat - 394270				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: Mr. Paras Desai					
				Signature	
				Date: 16 th Oct 2008	

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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: Manufacturing			
Year to be filled by BEE	Harmonic Filter commissioning in MRSS	Technology: Steel			
Description of the energy conservation measure:					
Harmonic Filter commissioning in MRSS (5th ,7th & 11th)					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
Agency that executed the project (with complete address and email): Essar Steel Limited only					
Total investment, Rs.: 5.5 Lacs			Year of implementation: 2007 - 08		
First year energy cost savings, Rs.: 10.15 Lacs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	*				
Energy consumption after	*				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.2				
Company complete address: Essar Steel Limited, 27 km - Surat Hazira Road, Surat, Gujarat - 394270				We authorise Bureau to use this information for dissemination Signature Date: 16 th Oct 2008	
Contact person who could be contacted for more information: Mr. Paras Desai					

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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 HT to LT Compressor	Sector: Manufacturing			
Year to be filled by BEE		Technology: Steel			
Description of the energy conservation measure:					
We have replaced our HT compressors with new energy efficient LT compressors.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email): Essar Steel Limited only					
Total investment, Rs.: 32 Lacs			Year of implementation: 2007 - 08		
First year energy cost savings, Rs.: 36.16 Lacs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	*				
Energy consumption after	*				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.2				
Company complete address: Essar Steel Limited, 27 km - Surat Hazira Road, Surat, Gujarat - 394270				We authorise Bureau to use this information for dissemination Signature Date: 16 th Oct 2008	
Contact person who could be contacted for more information: Mr. Paras Desai					

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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: Manufacturing			
Year to be filled by BEE	Improved BAF pumps performance		Technology: Steel			
Description of the energy conservation measure:						
<p>BAF Cooling Water system, CRM – Pump performance analyzed and enhanced after modification. One pump stopped. Previously all three parallel pumps were having different impeller diameters which we have changed to same diameter that results in continuous supply of water and stoppage of one pump.</p>						
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification			
						
Agency that executed the project (with complete address and email): Essar Steel Limited only						
Total investment, Rs.: Lacs			Year of implementation: 2007 - 08			
First year energy cost savings, Rs.: 14.53 Lacs						
First year other savings, Rs.:						
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other	
Energy consumption before per month	*					
Energy consumption after per month	*					
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.2					
Company complete address: Essar Steel Limited, 27 km - Surat Hazira Road, Surat, Gujarat - 394270				We authorise Bureau to use this information for dissemination Signature Date: 16 th Oct 2008		
Contact person who could be contacted for more information: Mr. Paras Desai						

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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: Manufacturing			
Year to be filled by BEE	Increased Effectiveness of Heat Exchanger	Technology: Steel			
Description of the energy conservation measure:					
<p>RM Main Drive Ventilation System: Effectiveness of Heat exchanger increased by Chemical cleaning, Heat and Mass balance, Repairing of Partition plate. One Chiller stopped as we got the required output by remaining three chillers.</p>					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email): Essar Steel Limited only					
Total investment, Rs.: 0.75 Lacs			Year of implementation: 2007 - 08		
First year energy cost savings, Rs.: 21 Lacs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before per month	*				
Energy consumption after per month	*				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.2				
Company complete address: Essar Steel Limited, 27 km - Surat Hazira Road, Surat, Gujarat - 394270				We authorise Bureau to use this information for dissemination	
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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: Manufacturing			
Year to be filled by BEE	Incremental in Hot DRI	Technology: Steel			
<p>Description of the energy conservation measure: Previously we were using Hot Briquetted Iron (HBI) in Steel Melting Plant (SMP) as a raw material. To save Electrical Power in SMP we have started charging Hot Direct Reduced Iron (DRI) at ~550°C instead of ambient temperature along with HBI. In the last financial year we have increased the amount of Hot DRI from 1,591,132 tonnes/annum to 2,227,413 tonnes/annum in SMP through better and effective transportation of Hot DRI.</p>					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email): Essar Steel Limited only					
Total investment, Rs.:			Year of implementation: 2007 - 08		
First year energy cost savings, Rs.: 2628.88 Lacs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	677				
Energy consumption after	655				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.2				
Company complete address: Essar Steel Limited, 27 km - Surat Hazira Road, Surat, Gujarat - 394270				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: Mr. Paras Desai				Signature	
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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 : Manufacturing			
Year to be filled by BEE	Indication Lamp	Technology: Steel			
Description of the energy conservation measure:					
Replace high current consuming bulbs from low current consuming LED Indication Lamp					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email): Essar Steel Limited only					
Total investment, Rs.: 0.45 Lacs			Year of implementation: 2007 - 08		
First year energy cost savings, Rs.: 0.63 Lacs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	*				
Energy consumption after	*				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.2				
Company complete address: Essar Steel Limited, 27 km - Surat Hazira Road, Surat, Gujarat - 394270				We authorise Bureau to use this information for dissemination Signature Date: 16 th Oct 2008	
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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 : Manufacturing			
Year to be filled by BEE	Installation of CFL	Technology: Steel			
Description of the energy conservation measure:					
Normal high power consuming bulbs was replaced by low power consuming CFLs.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email): Essar Steel Limited only					
Total investment, Rs.: 0.102 Lacs			Year of implementation: 2007 - 08		
First year energy cost savings, Rs.: 2.29 Lacs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	*				
Energy consumption after	*				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.2				
Company complete address: Essar Steel Limited, 27 km - Surat Hazira Road, Surat, Gujarat - 394270				We authorise Bureau to use this information for dissemination	
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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 : Manufacturing			
Year to be filled by BEE	Installation of Electronic Ballasts	Technology: Steel			
Description of the energy conservation measure:					
Normal high power consuming Normal Ballasts were replaced by low power consuming Electronic Ballasts.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email): Essar Steel Limited only					
Total investment, Rs.: 3.36 Lacs			Year of implementation: 2007 - 08		
First year energy cost savings, Rs.: 5.57 Lacs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	*				
Energy consumption after	*				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.2				
Company complete address: Essar Steel Limited, 27 km - Surat Hazira Road, Surat, Gujarat - 394270				We authorise Bureau to use this information for dissemination Signature Date: 16 th Oct 2008	
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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: Manufacturing			
Year to be filled by BEE	Installation of Timers	Technology: Steel			
Description of the energy conservation measure:					
Periphery lighting switching operation by installation of timer					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
Agency that executed the project (with complete address and email): Essar Steel Limited only					
Total investment, Rs.: 0.2 Lacs			Year of implementation: 2007 - 08		
First year energy cost savings, Rs.: 1.84 Lacs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	*				
Energy consumption after	*				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.2				
Company complete address: Essar Steel Limited, 27 km - Surat Hazira Road, Surat, Gujarat - 394270				We authorise Bureau to use this information for dissemination Signature Date: 16 th Oct 2008	
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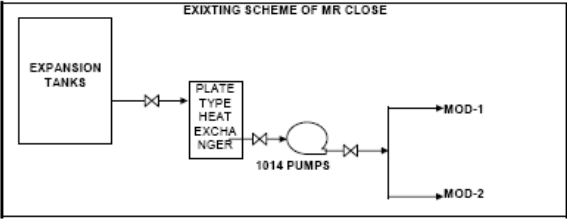
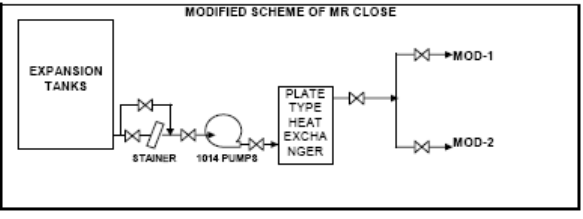
ID to be filled by BEE	Title of the measure	Sector : Manufacturing			
Year to be filled by BEE	Installation of transparent sheet	Technology: Steel			
Description of the energy conservation measure:					
Installation of transparent sheet					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
Agency that executed the project (with complete address and email): Essar Steel Limited only					
Total investment, Rs.: 14 Lacs			Year of implementation: 2007 - 08		
First year energy cost savings, Rs.: 2.94 Lacs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	*				
Energy consumption after	*				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.2				
Company complete address: Essar Steel Limited, 27 km - Surat Hazira Road, Surat, Gujarat - 394270				We authorise Bureau to use this information for dissemination Signature Date: 16 th Oct 2008	
Contact person who could be contacted for more information: Mr. Paras Desai					

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Energy Conservation Measure implemented in 2007-2008

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

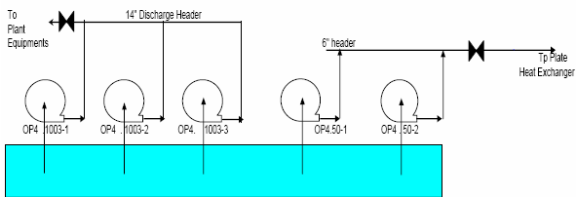
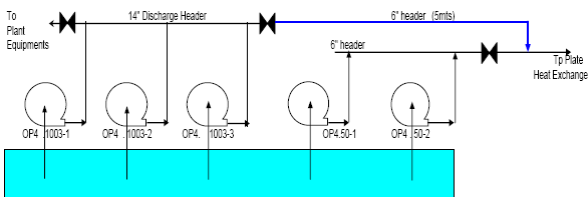
ID to be filled by BEE	Title of the measure Modification of suction lines	Sector : Manufacturing			
Year to be filled by BEE		Technology: Steel			
<p>Description of the energy conservation measure: Existing scheme route for OP1014 is through heat exchanger to pump suction to Briquette Machines. By modifying as per new scheme that is from expansion tank to strainer to pump to heat exchanger we benefited:</p> <ol style="list-style-type: none"> 1. Avoiding heat exchanger plugging 2. Good suction pressure as it will increase by avoiding Dp of heat exchanger. 3. Temperature rise during pumping will be also compensated in heat exchanger. 					
Picture/ sketch/ drawing before modification (if available)	Picture/ sketch/ drawing after modification				
					
Agency that executed the project (with complete address and email): Essar Steel Limited only					
Total investment, Rs.: 0.35 Lacs	Year of implementation: 2007 - 08				
First year energy cost savings, Rs.: 6.13 Lacs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	*				
Energy consumption after	*				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.2				
Company complete address: Essar Steel Limited, 27 km - Surat Hazira Road, Surat, Gujarat - 394270				We authorise Bureau to use this information for dissemination Signature Date: 16 th Oct 2008	
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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 : Manufacturing			
Year to be filled by BEE	MR open pumps OP 4.50-12 removed	Technology: Steel			
Description of the energy conservation measure:					
MR open pumps OP 4.50-12 stopped by connecting other pumps to that line.					
Picture/ sketch/ drawing before modification (if available)		Picture/ sketch/ drawing after modification			
					
Agency that executed the project (with complete address and email): Essar Steel Limited only					
Total investment, Rs.: 0.25 Lacs		Year of implementation: 2007 - 08			
First year energy cost savings, Rs.: 8.57 Lacs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	*				
Energy consumption after	*				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.2				
Company complete address: Essar Steel Limited, 27 km - Surat Hazira Road, Surat, Gujarat - 394270				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: Mr. Paras Desai				Signature	
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Energy Conservation Measure implemented in 2007-2008

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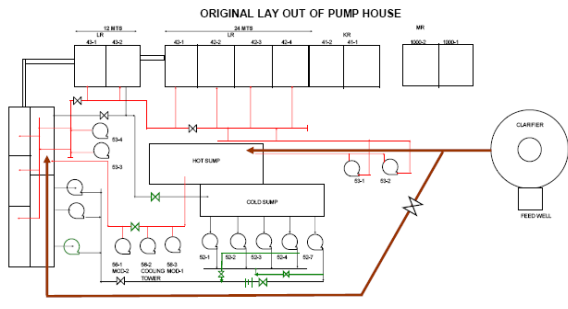
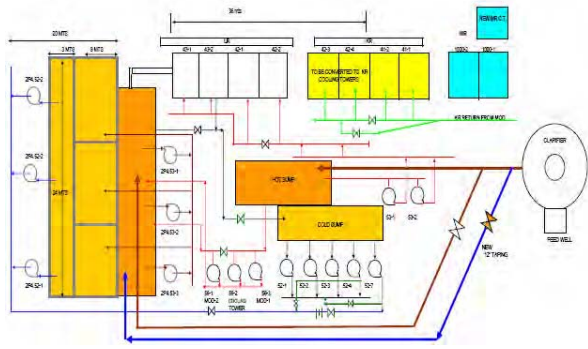
ID to be filled by BEE	Title of the measure	Sector: Manufacturing			
Year to be filled by BEE	Old ductable unit modified to split one	Technology: Steel			
<p>Description of the energy conservation measure: Crane 260 T # 2 Cabin A/C: Old ductable unit modified in split one</p> <p>3 months before project:</p> <ul style="list-style-type: none"> Crane operator cabin high temperature, Frequent fatigue of crane operators. Frequent filter chocking & failure of cabin AC unit. <p>3 months after project:</p> <ul style="list-style-type: none"> Crane Cabin AC room temp. is maintained in between 25 to 30 Deg. C Efficiency of operator improved due to high comfort level. Reduction in power consumption from 18 Amps to 12 Amps. 					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email): Essar Steel Limited only					
Total investment, Rs.: 0.89 Lacs			Year of implementation: 2007 - 08		
First year energy cost savings, Rs.: 1.26 Lacs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	*				
Energy consumption after	*				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.2				
Company complete address: Essar Steel Limited, 27 km - Surat Hazira Road, Surat, Gujarat - 394270				We authorise Bureau to use this information for dissemination Signature Date: 16 th Oct 2008	
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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 : Manufacturing			
Year to be filled by BEE	One hot water pump stopped	Technology: Steel			
<p>Description of the energy conservation measure: Equipment Name: OP4.56 (LR Hot water Pump) Application: To fetch Hot Water to Top Gas Scrubber. Used For: Diverting Hot water from old Cold water Sump to New Hot water sump for Balancing sump levels. Reason: 1. This was done as new sump has high elevation than the old pump resulting water level remaining high in old sump and when water was consumed from new sump level was dropping due to low input. This level is maintained by keeping these two pumps on. Reason 2. Clarifier overflow designed for new sump was not adequate to feed 2400 km³/hr to new sump due to line size and point of inclination. Throttling of Clarifier overflow valve towards new sump leads to overflow of clarifier. Modification: One new 14" tapping beside the old taken for diverting this water to new sump and resoling stopping of this OP4.56 pumps.</p>					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
 <p style="text-align: center;">ORIGINAL LAY OUT OF PUMP HOUSE</p>					
Agency that executed the project (with complete address and email): Essar Steel Limited only					
Total investment, Rs.:			Year of implementation: 2007 - 08		
First year energy cost savings, Rs.: 36.71 Lacs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	*				
Energy consumption after	*				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.2				
Company complete address: Essar Steel Limited, 27 km - Surat Hazira Road, Surat, Gujarat - 394270				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: Mr. Paras Desai				Signature	
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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 : Manufacturing			
Year to be filled by BEE	Operated only one cooling tower	Technology: Steel			
Description of the energy conservation measure:					
Stoppage of one cooling tower for SVC in Winter Season for electrical energy saving.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email): Essar Steel Limited only					
Total investment, Rs.: Lacs			Year of implementation: 2007 - 08		
First year energy cost savings, Rs.: 0.46 Lacs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	*				
Energy consumption after	*				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.2				
Company complete address: Essar Steel Limited, 27 km - Surat Hazira Road, Surat, Gujarat - 394270				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: Mr. Paras Desai				Signature	
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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: Manufacturing			
Year to be filled by BEE	Power Saving due to reducing the Speed	Technology: Steel			
Description of the energy conservation measure:					
Power Saving due to reducing the Speed (1000 RPM) of Base Fan Drive					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
Agency that executed the project (with complete address and email): Essar Steel Limited only					
Total investment, Rs.: Lacs			Year of implementation: 2007 - 08		
First year energy cost savings, Rs.: 1.49 Lacs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	*				
Energy consumption after	*				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.2				
Company complete address: Essar Steel Limited, 27 km - Surat Hazira Road, Surat, Gujarat - 394270				We authorise Bureau to use this information for dissemination Signature Date: 16 th Oct 2008	
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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 : Manufacturing			
Year to be filled by BEE	Process Optimization		Technology: Steel			
Description of the energy conservation measure:						
Performed Process Optimization for better utilization of resources. Planned rolling of slabs of different grades and sizes for lesser energy consumption per ton of output.						
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification			
Agency that executed the project (with complete address and email): Essar Steel Limited only						
Total investment, Rs.: 0.0 Lacs			Year of implementation: 2007 - 08			
First year energy cost savings, Rs.: 92.40 Lacs						
First year other savings, Rs.:						
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other	
Energy consumption before	*					
Energy consumption after	*					
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.2					
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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: Manufacturing			
Year to be filled by BEE	Recovered Condensate	Technology: Steel			
Description of the energy conservation measure:					
<p>From CRM Steam System we have started recirculation of clean steam back to the system at 90°C and recovered 1,323 m³ Condensate. Previously we were dumping all used steam to blow down tank. Fuel Energy saving of Rs. 0.92 lacs per month.</p>					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email): Essar Steel Limited only					
Total investment, Rs.: 0.55 Lacs			Year of implementation: 2007 - 08		
First year energy cost savings, Rs.: 11.04 Lacs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before			*		
Energy consumption after			*		
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...			10570		
Company complete address: Essar Steel Limited, 27 km - Surat Hazira Road, Surat, Gujarat - 394270				We authorise Bureau to use this information for dissemination	
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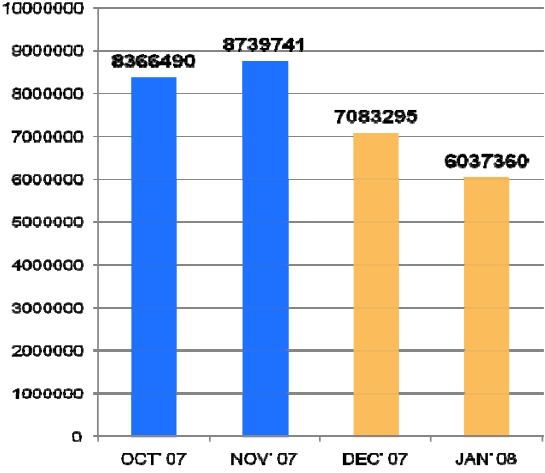
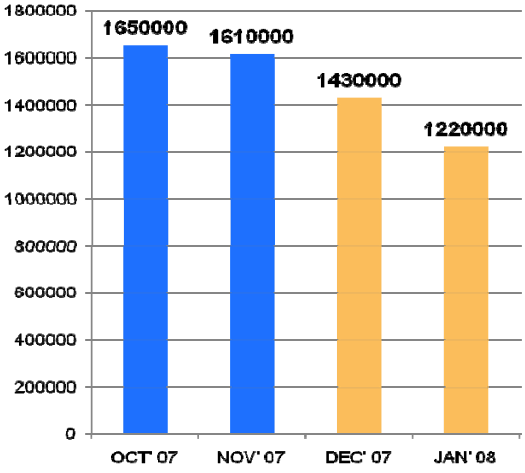
ID to be filled by BEE	Title of the measure	Sector: Manufacturing			
Year to be filled by BEE	Removed Orifice Plate	Technology: Steel			
Description of the energy conservation measure:					
EAF 3 Primary circuit – Replaced Orifice plate which leads to reduction in pressure drop to Ultra Sonic Flow meter.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
Agency that executed the project (with complete address and email): Essar Steel Limited only					
Total investment, Rs.: 2.15 Lacs			Year of implementation: 2007 - 08		
First year energy cost savings, Rs.: 30.00 Lacs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	*				
Energy consumption after	*				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.2				
Company complete address: Essar Steel Limited, 27 km - Surat Hazira Road, Surat, Gujarat - 394270				We authorise Bureau to use this information for dissemination Signature Date: 16 th Oct 2008	
Contact person who could be contacted for more information: Mr. Paras Desai					

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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 Separated Plant Air & Instrument Air	Sector: Manufacturing																							
Year to be filled by BEE		Technology: Steel																							
Description of the energy conservation measure: Reduction of energy consumption by 5% to 8% by separating instrument air (HP) and plant air(LP) ➤ BEFORE AND AFTER MODIFICATION																									
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification																						
TOTAL AIR (PLANT & INST)  <table border="1" style="margin-top: 10px; width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Month</th> <th>Total Air (Plant & Inst)</th> </tr> </thead> <tbody> <tr> <td>OCT 07</td> <td>8366490</td> </tr> <tr> <td>NOV 07</td> <td>8739741</td> </tr> <tr> <td>DEC 07</td> <td>7083295</td> </tr> <tr> <td>JAN 08</td> <td>6037360</td> </tr> </tbody> </table>			Month	Total Air (Plant & Inst)	OCT 07	8366490	NOV 07	8739741	DEC 07	7083295	JAN 08	6037360	TOTAL ENERGY (U)  <table border="1" style="margin-top: 10px; width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Month</th> <th>Total Energy (U)</th> </tr> </thead> <tbody> <tr> <td>OCT 07</td> <td>1650000</td> </tr> <tr> <td>NOV 07</td> <td>1610000</td> </tr> <tr> <td>DEC 07</td> <td>1430000</td> </tr> <tr> <td>JAN 08</td> <td>1220000</td> </tr> </tbody> </table>			Month	Total Energy (U)	OCT 07	1650000	NOV 07	1610000	DEC 07	1430000	JAN 08	1220000
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DEC 07	1430000																								
JAN 08	1220000																								
Agency that executed the project (with complete address and email): Essar Steel Limited only																									
Total investment, Rs.: 3 Lacs			Year of implementation: 2007 - 08																						
First year energy cost savings, Rs.: 132.43 Lacs																									
First year other savings, Rs.:																									
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other																				
Energy consumption before per month	1610																								
Energy consumption after per month	1220																								
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.2																								
Company complete address: Essar Steel Limited, 27 km - Surat Hazira Road, Surat, Gujarat - 394270				We authorise Bureau to use this information for dissemination																					
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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: Manufacturing			
Year to be filled by BEE	Smaller Diameter Impeller Replaced	Technology: Steel			
Description of the energy conservation measure:					
CRM Pump House: Smaller diameter Impeller replaced to higher diameter impeller which results in stoppage of one pump out of three as flow and head requirements were matched by two pumps only.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email): Essar Steel Limited only					
Total investment, Rs.: 0.25 Lacs			Year of implementation: 2007 - 08		
First year energy cost savings, Rs.: 4.79 Lacs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before per month	*				
Energy consumption after per month	*				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.2				
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ID to be filled by BEE	Title of the measure		Sector : Manufacturing			
Year to be filled by BEE	Stoppage of Idle equipments		Technology: Steel			
Description of the energy conservation measure:						
Stopped Idle equipments and optimized the equipments performance during lower production rate.						
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification			
Agency that executed the project (with complete address and email): Essar Steel Limited only						
Total investment, Rs.: 0.0 Lacs			Year of implementation: 2007 - 08			
First year energy cost savings, Rs.: 17.01 Lacs						
First year other savings, Rs.:						
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other	
Energy consumption before	*					
Energy consumption after	*					
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.2					
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ID to be filled by BEE	Title of the measure		Sector : Manufacturing		
Year to be filled by BEE	Stoppage of idle running conveyors		Technology: Steel		
Description of the energy conservation measure:					
Put speed sensors and load switches to stop of idle running conveyors. This lead to drastic amount of electricity saving. And also it will reduce wear and tear effect on entire drive system (motor, fluid coupling, pulley, gearbox, belt, roller, feeder etc.). This will in turn increases belt drive operating hours.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
Agency that executed the project (with complete address and email): Essar Steel Limited only					
Total investment, Rs.: Lacs			Year of implementation: 2007 - 08		
First year energy cost savings, Rs.: 4.03 Lacs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	*				
Energy consumption after	*				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.2				
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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 : Manufacturing			
Year to be filled by BEE	Switched off one Primary cooling water pump	Technology: Steel			
Description of the energy conservation measure:					
Switched off one Primary cooling water pump with better maintenance practice and rigorous follow up of SOPs.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email): Essar Steel Limited only					
Total investment, Rs.: Lacs			Year of implementation: 2007 - 08		
First year energy cost savings, Rs.: 0.34 Lacs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	*				
Energy consumption after	*				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.2				
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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 : Manufacturing			
Year to be filled by BEE	Switching off SVC's During shutdown	Technology: Steel			
Description of the energy conservation measure:					
Switching off SVC's During shutdown periods with better information system and rigorous following of SOP.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email): Essar Steel Limited only					
Total investment, Rs.: Lacs			Year of implementation: 2007 - 08		
First year energy cost savings, Rs.: 182.28 Lacs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	*				
Energy consumption after	*				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.2				
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ID to be filled by BEE	Title of the measure		Sector : Manufacturing		
Year to be filled by BEE	The motors' terminal connection changed to star from delta		Technology: Steel		
Description of the energy conservation measure:					
The motors' terminal connection changed to star from delta for higher efficiency and better utilization of motor capacities.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
Agency that executed the project (with complete address and email): Essar Steel Limited only					
Total investment, Rs.: Lacs			Year of implementation: 2007 - 08		
First year energy cost savings, Rs.: 1.13 Lacs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	*				
Energy consumption after	*				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.2				
Company complete address: Essar Steel Limited, 27 km - Surat Hazira Road, Surat, Gujarat - 394270				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: Mr. Paras Desai				Signature	
				Date: 16 th Oct 2008	

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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 : Manufacturing			
Year to be filled by BEE	Top gas scrubber venturi and swirl nozzles diameter increased	Technology: Steel			
Description of the energy conservation measure:					
Top gas scrubber venturi and swirl nozzles diameter increased which leads to reduction in pressure drop.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email): Essar Steel Limited only					
Total investment, Rs.: 0.1 Lacs			Year of implementation: 2007 - 08		
First year energy cost savings, Rs.: 15.29 Lacs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	*				
Energy consumption after	*				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.2				
Company complete address: Essar Steel Limited, 27 km - Surat Hazira Road, Surat, Gujarat - 394270				We authorise Bureau to use this information for dissemination Signature Date: 16 th Oct 2008	
Contact person who could be contacted for more information: Mr. Paras Desai					

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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: Manufacturing			
Year to be filled by BEE	V30 and V31 DOL replacement by drives	Technology: Steel			
Description of the energy conservation measure: V30 and V31 DOL replacement by drives					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email): Essar Steel Limited only					
Total investment, Rs.: 12 Lacs			Year of implementation: 2007 - 08		
First year energy cost savings, Rs.: 20.40 Lacs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	*				
Energy consumption after	*				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.2				
Company complete address: Essar Steel Limited, 27 km - Surat Hazira Road, Surat, Gujarat - 394270				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: Mr. Paras Desai				Signature Date: 16 th Oct 2008	

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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 : Manufacturing		
Year to be filled by BEE	Voltage of lighting is reduced to 230V		Technology: Steel		
Description of the energy conservation measure:					
Voltage of lighting is reduced to 230V from 257 V by doing modification in transformer.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
Agency that executed the project (with complete address and email): Essar Steel Limited only					
Total investment, Rs.: Lacs			Year of implementation: 2007 - 08		
First year energy cost savings, Rs.: 10.42 Lacs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	*				
Energy consumption after	*				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.2				
Company complete address: Essar Steel Limited, 27 km - Surat Hazira Road, Surat, Gujarat - 394270				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: Mr. Paras Desai				Signature	
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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 : Manufacturing			
Year to be filled by BEE	VVF drive installation		Technology: Steel			
Description of the energy conservation measure:						
VVF drive installation at new cooling tower fan CPP1 & Side stream filtration unit fixed in new cooling tower CPP1						
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification			
Agency that executed the project (with complete address and email): Essar Steel Limited only						
Total investment, Rs.: 250 Lacs			Year of implementation: 2007 - 08			
First year energy cost savings, Rs.: 151.2 Lacs						
First year other savings, Rs.:						
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other	
Energy consumption before	*					
Energy consumption after	*					
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.2					
Company complete address: Essar Steel Limited, 27 km - Surat Hazira Road, Surat, Gujarat - 394270				We authorise Bureau to use this information for dissemination		
Contact person who could be contacted for more information: Mr. Paras Desai						
				Signature		
				Date: 16 th Oct 2008		

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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: Manufacturing			
Year to be filled by BEE	VVVF Drive Installation for Rapid Cool Motor	Technology: Steel			
Description of the energy conservation measure:					
<p>Power Saving due to VVVF Drive Installation for Rapid Cool Motor Conversion of 315 KW HT Motor by 250KW LT Motor. With Variable frequency drive. Installation of Variable frequency drive for V30 Blower</p>					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email): Essar Steel Limited only					
Total investment, Rs.: 15 Lacs			Year of implementation: 2007 - 08		
First year energy cost savings, Rs.: 0.83 Lacs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	*				
Energy consumption after	*				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.2				
Company complete address: Essar Steel Limited, 27 km - Surat Hazira Road, Surat, Gujarat - 394270				We authorise Bureau to use this information for dissemination Signature Date: 16 th Oct 2008	
Contact person who could be contacted for more information: Mr. Paras Desai					

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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 : Manufacturing			
Year to be filled by BEE	Wiring and logic changed to put off the lights at night	Technology: Steel			
Description of the energy conservation measure:					
Wiring and logic changed to put off the lights at night in office area and not utilizing areas in the plant.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
Agency that executed the project (with complete address and email): Essar Steel Limited only					
Total investment, Rs.: 0.1 Lacs			Year of implementation: 2007 - 08		
First year energy cost savings, Rs.: 1.51 Lacs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	*				
Energy consumption after	*				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.2				
Company complete address: Essar Steel Limited, 27 km - Surat Hazira Road, Surat, Gujarat - 394270				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: Mr. Paras Desai				Signature	
				Date: 16 th Oct 2008	

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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 : Manufacturing			
Year to be filled by BEE	160 W Lamps by 70 W Lamps	Technology: Steel			
Description of the energy conservation measure:					
160 W Lamps by 70 W Lamps					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email): Essar Steel Limited only					
Total investment, Rs.: 2.5 Lacs			Year of implementation: 2007 - 08		
First year energy cost savings, Rs.: 2.94 Lacs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	*				
Energy consumption after	*				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.2				
Company complete address: Essar Steel Limited, 27 km - Surat Hazira Road, Surat, Gujarat - 394270				We authorise Bureau to use this information for dissemination Signature Date: 16 th Oct 2008	
Contact person who could be contacted for more information: Mr. Paras Desai					

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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 : Manufacturing			
Year to be filled by BEE	A high capacity pump Installed in HBI	Technology: Steel			
Description of the energy conservation measure:					
A high capacity HT pump Installed instead of LT pumps in HBI which leads to energy saving.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
Agency that executed the project (with complete address and email): Essar Steel Limited only					
Total investment, Rs.: 11.3 Lacs			Year of implementation: 2007 - 08		
First year energy cost savings, Rs.: 22.55 Lacs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	*				
Energy consumption after	*				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.2				
Company complete address: Essar Steel Limited, 27 km - Surat Hazira Road, Surat, Gujarat - 394270				We authorise Bureau to use this information for dissemination Signature Date: 16 th Oct 2008	
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