



## Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure	Sector ...Pumps.....			
Year to be filled by BEE	Installation of VFD's for Shell cooling Tower pumps & Return water pumps	Technology .....Variable frequency drive.....			
<p>Description of the energy conservation measure:</p> <p>Encouraged by significant energy saving at Boiler ID fan &amp; Glendon ID fan, the company has Installed VFD's for its main cooling tower pumps in the month of April 2006. Average Power consumed by cooling pump after installation of VFD has reduced by approx 33%.</p>					
Picture/ sketch/ drawing before modification (if available)		Picture/ sketch/ drawing after modification			
Not Available					
Agency that executed the project (with complete address and email): In House					
Total investment, Rs.: 12 lacs		Year of implementation:2006			
First year energy cost savings, Rs.: 13.64 lacs					
First year other savings, Rs.: NIL					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	23.52	NA*	NA	NA	NA
Energy consumption after	16.80	NA	NA	NA	NA
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	2.03				
Company complete address: Sesa Industries Ltd, Pig Iron plant, Amona Goa PIN:403507  Contact person who could be contacted for more information: N L Vhatte				We authorise Bureau to use this information for dissemination  Signature  Date	


\*NA – Not applicable

## Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure Installation of 30 MW Waste heat recovery Power plant	Sector .....Energy.....			
Year to be filled by BEE		Technology .....Waste heat recovery.....			
<p>Description of the energy conservation measure:</p> <p>The Company has made an agreement with Goa Energy private Ltd (GEPL- A Videocon group company) to set up a waste heat recovery Power Plant of 30 MW size where by Sesa will provide fuel/ heat for steam generation ( Blast furnace gas and Coke oven waste heat gas).The plant is commissioned &amp; put in operation on 01/06/2007. As per the agreement reached, Sesa will get free power from GEPL for their own consumption and additional revenue of Rs 0.37/Kwh of power sold to Power Trading corporation (PTC). This will reduce our production cost by a considerable amount and will generate additional revenues.</p> <p>In addition to the reduction in Production cost, this project activity has been registered as a CDM project, capable of generating CERS to the tune of 0.1 millions tones of Co2 per annum.</p>					
<b>Picture/ sketch/ drawing before modification</b> (if available)		<b>Picture/ sketch/ drawing after modification</b>			
Not Available					
Agency that executed the project (with complete address and email): Goa Energy Private limited					
Total investment, Rs.: 11000 lacs		Year of implementation:2007			
First year energy cost savings: 825 lacs (to Sesa Industries)					
First year other savings, Rs.: NIL					
On annual basis	kWh 000'	Coke (Tons/ THM)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	398.75	NA*	NA	666 HSD	NA
Energy consumption after	371.25	NA	NA	55 HSD	NA
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	2.55	NA	NA	33600	NA
Company complete address: Sesa Industries ltd, Pig Iron plant, Amona Goa PIN:403507 Contact person who could be contacted for more information: N L Vhatte				We authorise Bureau to use this information for dissemination  Signature  Date	

**NA\* Not applicable**

## Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure	Sector Furnaces & Kilns.....			
Year to be filled by BEE	Installation of Hot Blast Stoves in Place of MBP	Technology Blast air Preheater.....			
Description of the energy conservation measure:					
<p>The Company has installed hot blast stoves in place of MBP in both blast furnaces so as to obtain higher blast temperature, which is necessary for reducing coke rate. Company has achieved 960°C blast temperature against the past level of 780°C , i.e an increase of 180°C. This has reduced the coke consumption by approximately 25Kg /Tonne In addition, the productivity is also improved by around 3.25%. Higher blast temperature will facilitate the introduction of fuel injection (coal or oil) through tuyeres planned at a later stage which will further reduce the coke rates.</p>					
<b>Picture/ sketch/ drawing before modification</b> (if available)			<b>Picture/ sketch/ drawing after modification</b>		
Not Available					
Agency that executed the project (with complete address and email): In House					
Total investment, Rs.: 3000 lacs			Year of implementation:2006		
First year energy cost savings, Rs: 587 lacs					
First year other savings, Rs.: NIL					
On annual basis	kWh 000'	Coke (Tons/ THM)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	26.88	0.650	NA*	24	NA
Energy consumption after	16.80	0.625	NA	0	NA
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	2.03	9173	NA	33600	NA
Company complete address: Sesa Industries Ltd, Pig Iron plant, Amona Goa PIN:403507				We authorise Bureau to use this information for dissemination  Signature  Date	
Contact person who could be contacted for more information: N L Vhatte					

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