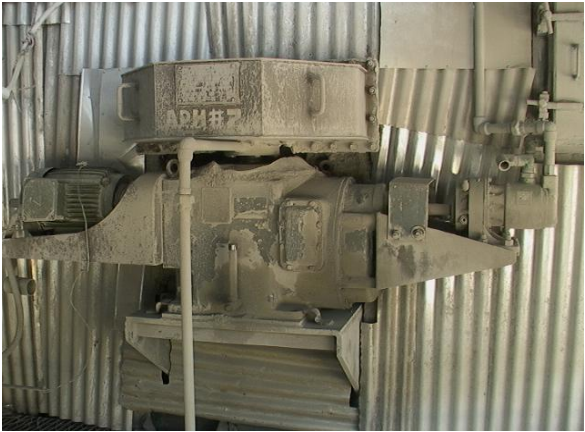






## Energy Conservation Measure implemented in 2007-2008


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


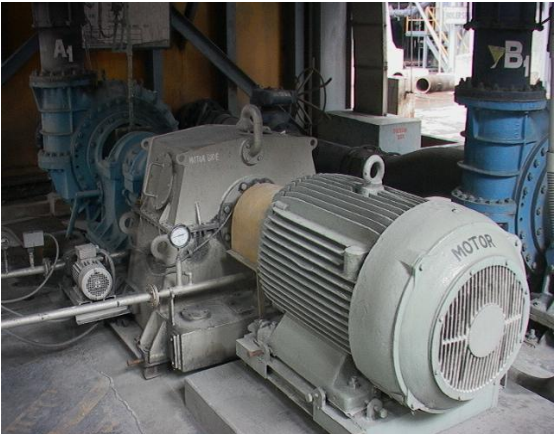
ID to be filled by BEE	Title of the measure	Sector .....			
Year to be filled by BEE		Technology .....			
Description of the energy conservation measure: Boiler #4 revamped with efficient Tubular Air Pre Heater (TAPH) in place of inefficient Rotary Air Pre Heater for improving Boiler Efficiency by 2.0%. Boiler capacity was also enhanced from 275 TPH to 302 TPH to operate with TG #4. Thus TG output increased from 74 MW to 80 MW.					
<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): M/s Alstom Power.					
Total investment, Rs.: 5487 Lakhs			Year of implementation: 2007-08		
First year energy cost savings, Rs.: 149 Lakhs					
First year other savings, Rs.: 908 Lakhs (Additional generation 50 MU/Year)					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before		559080			
Energy consumption after		545768			
Energy tariff, Rs/kWh/ Ton/Nm <sup>3</sup> /kL ...		1120			
Company complete address: Renusagar Power Division, Renusagr, District : Sonebhadra (UP) -231218 Phone : 05446 277161 to 163 , 278592 to 95 Fax : 05446-277164, 278596				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: Shri Ranjan Kumar				Signature  Date	

ID to be filled by BEE	Title of the measure		Sector .....		
Year to be filled by BEE			Technology .....		
Description of the energy conservation measure: Oxygen Analyzers were installed in Boiler # 5 & Spare for optimizing the combustion air thereby improving boiler efficiency by 0.4% in each boiler.					
<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): In house team					
Total investment, Rs.: 22.50 Lakhs			Year of implementation: 2007-08		
First year energy cost savings, Rs.: 57 Lakhs					
First year other savings, Rs.: Lakhs (Additional 50 MU generation)					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before		1036195			
Energy consumption after		1031116			
Energy tariff, Rs/kWh/ Ton/Nm <sup>3</sup> /kL...		1120			
Company complete address: Renusagar Power Division, Renusagr, District : Sonebhadra (UP) -231218 Phone : 05446 277161 to 163 , 278592 to 95 Fax : 05446-277164, 278596  Contact person who could be contacted for more information: Shri Ranjan Kumar				We authorise Bureau to use this information for dissemination  Signature  Date	

ID to be filled by BEE	Title of the measure		Sector .....		
Year to be filled by BEE			Technology .....		
Description of the energy conservation measure: . Total (4) Nos. Variable Frequency Drives (VFDs) Installed ID & PA fans during R&M of Boiler #4, thus reducing the auxiliary consumption by 500 kW.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email): M/s Alstom Power.					
Total investment, Rs.: 250 Lakhs			Year of implementation: 2007-08		
First year energy cost savings, Rs.: 73 Lakhs					
First year other savings, Rs.: NIL					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	14851				
Energy consumption after	10771				
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	1.80				
Company complete address: Renusagar Power Division, Renusagr, District : Sonebhadra (UP) -231218 Phone : 05446 277161 to 163 , 278592 to 95 Fax : 05446-277164, 278596				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: Shri Ranjan Kumar				Signature	
				Date	

ID to be filled by BEE	Title of the measure	Sector .....			
Year to be filled by BEE		Technology .....			
Description of the energy conservation measure: 2 Nos old inefficient Boiler Feed Pumps of Unit #3&4 replaced with efficient one, thus reducing auxiliary consumption by 390 kW in both pumps.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email): In house team					
Total investment, Rs.: 145 Lakhs			Year of implementation: 2007-08		
First year energy cost savings, Rs.: 31 Lakhs					
First year other savings, Rs.: NIL					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	15767				
Energy consumption after	14054				
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	1.80				
Company complete address: Renusagar Power Division, Renusagr, District : Sonebhadra (UP) -231218 Phone : 05446 277161 to 163 , 278592 to 95 Fax : 05446-277164, 278596				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: Shri Ranjan Kumar				Signature	
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ID to be filled by BEE	Title of the measure	Sector .....			
Year to be filled by BEE		Technology .....			
Description of the energy conservation measure: 10 Sets inefficient Cooling Tower Fan blades made of GRP replaced with energy efficient FRP material blades in TG #9&10, thereby reducing auxiliary consumption by 250 Kw.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email): In house team					
Total investment, Rs.: 65 Lakhs			Year of implementation: 2007-08		
First year energy cost savings, Rs.: 20 Lakhs					
First year other savings, Rs.: NIL					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	3404				
Energy consumption after	2306				
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	1.80				
Company complete address: Renusagar Power Division, Renusagr, District : Sonebhadra (UP) -231218 Phone : 05446 277161 to 163 , 278592 to 95 Fax : 05446-277164, 278596				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: Shri Ranjan Kumar				Signature	
				Date	

ID to be filled by BEE	Title of the measure	Sector .....			
Year to be filled by BEE		Technology .....			
Description of the energy conservation measure: V-Belt pulley drive system replaced with fluid coupling in Ash Slurry Pump of Ash Plant #2, thus reducing auxiliary consumption by 120 Kw.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email): In house team					
Total investment, Rs.: 11 Lakhs			Year of implementation: 2007-08		
First year energy cost savings, Rs.: 14 Lakhs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	975				
Energy consumption after	897				
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	1.80				
Company complete address: Renusagar Power Division, Renusagr, District : Sonebhadra (UP) -231218 Phone : 05446 277161 to 163 , 278592 to 95 Fax : 05446-277164, 278596				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: Shri Ranjan Kumar				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.**