



Energy Conservation Measure implemented in 2007-2008


	Title of the measure Calcium Silicate Insulation of High Pressure Steam pipe line in Ammonia Plant	Sector
		Technology
Description of the energy conservation measure: Due to age old poor insulation on High Pressure Steam pipe line between Aux.Super heater and steam turbine inlet of Synthesis gas compressor in both the streams of ammonia plant heat was lost. By providing Calcium Silicate Insulation there was a net rise of 4°C temperature .i.e. (From 486 °C to 490 °C).		
Picture/ sketch/ drawing <u>after</u> modification		
		
Agency that executed the project (with complete address and email):		
Total investment, Rs.:126.71Lakhs.		Year of implementation: 2007-08
First year energy cost savings, Rs.: 363.35 Lakhs		
First year other savings, Rs.:		
On annual basis	kWh 000'	Coal (Tons)
Energy consumption before		Gas Nm ³
Energy consumption after		Oil/Naphtha (Tonnes)
Energy tariff, Rs/ MT		Other
		1126.25

		32261.822
Company complete address: Contact person who could be contacted for more information:		We authorise Bureau to use this information for dissemination Signature Date

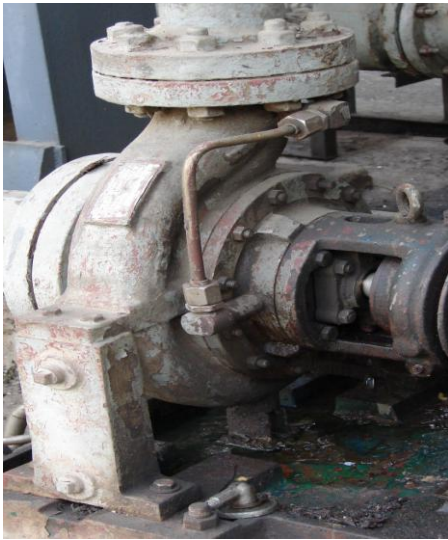
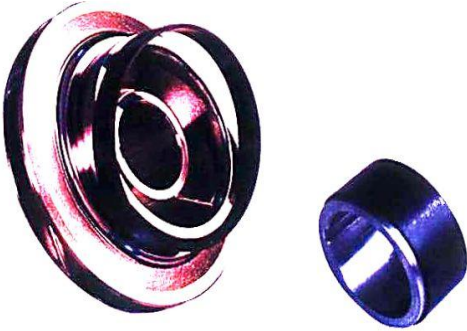
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	Title of the measure Steam Traps in MP Header connected to Deaerator in ammonia plant	Sector			
		Technology			
Description of the energy conservation measure: MP Steam through steam trap was getting lost in both the streams of ammonia plant. It was connected through a header and condensate was sent to Deaerator.					
Picture/ sketch/ drawing <u>after</u> modification					
					
Agency that executed the project (with complete address and email):		In house modification			
Total investment, Rs.: 6.5 Lakhs	Year of implementation: 2007-08				
First year energy cost savings, Rs.: 9.69 lakhs					
First year other savings, Rs.: -----					
On annual basis	kWh 000'	Coal (Tons)	Gas Lakhs SM ³	Oil/Naphtha (Tonnes)	Other
Energy consumption before			2.97		
Energy consumption after			-----		
Energy tariff, Rs.1000/ SM ³			3255.9		
Company complete address:				We authorise Bureau to use this information for dissemination Signature Date	
Contact person who could be contacted for more information:					


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	Title of the measure Variable Frequency Drive (VFD) In ammonia plant	Sector
		Technology
Description of the energy conservation measure: Condensate pumps MP 1303 A; MP 1602 B; MP 2322 A and MP 1322 A after providing VFD'S it was observed that there was a saving of 9.2; 11.24; 15.93; 14.86 kW for each pump respectively. Total Saving is 51.23 kW.		
Picture/ sketch/ drawing <u>after</u> modification		
		
Agency that executed the project (with complete address and email):		
Total investment, Rs.: Nil	Year of implementation: 2007-08	
First year energy cost savings, Rs.: 31.00 Lakhs		
First year other savings, Rs.:		
On annual basis	kWh 000'	Coal (Tons)
Energy consumption before	960	
Energy consumption after	554	
Energy tariff, Rs/ kWh	7.641	
Company complete address:		We authorise Bureau to use this information for dissemination Signature Date
Contact person who could be contacted for more information:		


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	Title of the measure PEEK WEAR RING in ammonia plant	Sector			
		Technology			
Description of the energy conservation measure: Peek rings have been provided in pumps like P303; P321; P602 & P322. The saving achieved is 2.50; 1.25; 4.5 and 2.7 Kw respectively. Total Saving is 10.95 kW.					
Picture/ sketch/ drawing <u>after</u> modification					
	PEEK in pump applications 				
<u>P1602 Turbine Condensate pump.</u>					
Agency that executed the project (with complete address and email):					
Total investment, Rs.:	Year of implementation: 2007-08				
First year energy cost savings, Rs.: 6.63 Lakhs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil/Naphtha (Tonnes)	Other
Energy consumption before	907				
Energy consumption after	820			-----	
Energy tariff, Rs/ kWh	7.641				
Company complete address: Contact person who could be contacted for more information:				We authorise Bureau to use this information for dissemination Signature Date	

Energy Conservation Measure implemented in 2007-2008

	Title of the measure Stopping of P-18 pump in Urea Plant	Sector			
		Technology			
Description of the energy conservation measure: Condensate export pipe line modification was carried out in all three units of urea plant, resulting in stopping of P-18 pump. Now the water is going by gravity only. There is a power saving of 18 kW x 3 units					
Picture/ sketch/ drawing <u>after</u> modification					
					
Agency that executed the project (with complete address and email):		In house modification			
Total investment, Rs.: Nil	Year of implementation: 2007-08				
First year energy cost savings, Rs.: 32.68 Lakhs					
First year other savings, Rs.: -----					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil/Naphtha (Tonnes)	Other
Energy consumption before	428				
Energy consumption after	-----			-----	
Energy tariff, Rs. / kWh	7.641				
Company complete address: Contact person who could be contacted for more information:				We authorise Bureau to use this information for dissemination Signature Date	

Energy Conservation Measure implemented in 2007-2008

	Title of the measure Interconnection of MP condensate header in Urea plant	Sector			
		Technology			
Description of the energy conservation measure: Condensate pump (P-10) was running in all three urea plants for purging and flushing. An interconnection has been provided which has resulted in stoppage of P-10 pump. There is a power saving of 46 kW.					
Picture/ sketch/ drawing after modification					
					
Agency that executed the project (with complete address and email)		In house modification			
Total investment, Rs.: 0.6 lakhs	Year of implementation: 2007-08				
First year energy cost savings, Rs.: 27.84 lakhs					
First year other savings, Rs.: -----					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil/Naphtha (Tonnes)	Other
Energy consumption before	1187				
Energy consumption after	824			-----	
Energy tariff, Rs/ kWh	7.641				
Company complete address: Contact person who could be contacted for more information:				We authorize Bureau to use this information for dissemination Signature Date	