





Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	<p style="text-align: center;">Title of the measure</p> Installation of Variable Frequency Drive for 75 kw Fume Exhaust Blower Motor in Cold Rolling Mill	SectorAluminium.....			
Year to be filled by BEE		Technology ...Annexure "A" (b) Installation of variable speed drive			
Description of the energy conservation measure: 75 Kw Variable speed drive was installed for Fume Exhaust Blower motor in cold rolling mill to stop the motor during No coil running and during Mill down time to reduce the fixed load consumption of cold rolling mill. Due to this modification power consumption of cold rolling mill has reduced and also power factor of system increased. Frequent start / stop of big motors with Direct on line starter is not advisable hence VFD was installed for smooth start/stop of motor,					
Picture/ sketch/ drawing before modification (if available)	Picture/ sketch/ drawing after modification				
	 <p style="text-align: center;">FUME EXHAUST SYSTEM : 75KW VFD</p>				
Agency that executed the project (with complete address and email):Electrical Department, Hindalco Industries Limited, Village – Dahali, Ramtek Road, Mouda ,Nagpur Pin 441 104, email – hindalcomouda@adityabirla.com					
Total investment, Rs.:2,66,074(till March 2007)		Year of implementation: Sep.2006			
First year energy cost savings, Rs.:3,24,778(till March 2007)					
First year other savings, Rs.:NA					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	276	NA	NA	NA	NA
Energy consumption after	131	NA	NA	NA	NA
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.53 Rs/kwh	NA	NA	NA	NA
Company complete address: Hindalco Industries Limited, Village – Dahali, Ramtek Road, Mouda ,Nagpur. Pin 441 104, Contact person who could be contacted for more information: Mr.Rajiv Sharma (Works Head)				We authorise Bureau to use this information for dissemination Signature: Rajiv Sharma Date : 22-10-2007	


Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure Installation of Variable Frequency Drive for 110 kw for Feed Pump Motor in roll collent in Cold Rolling Mill	SectorAluminium.....			
Year to be filled by BEE		Technology ...Annexure "A" (b) Installation of variable speed drive			
Description of the energy conservation measure: 110 Kw Variable speed drive was installed for Feed Pump Motor of Roll coolent in cold rolling mill to stop the motor during No coil running and during Mill down time to reduce the fixed load consumption of cold rolling mill. Due to this modification power consumption of cold rolling mill has reduced and also power factor of system increased. Frequent start / stop of big motors with Direct on line starter is not advisable hence VFD was installed for smooth start/stop of motor,					
Picture/ sketch/ drawing before modification (if available)	Picture/ sketch/ drawing after modification				
	 <p style="margin: 0;">ROLL COOLENT FEED PUMP 110KW VFD</p>	 <p style="margin: 0;">ROLL COOLENT FEED PUMP AC MOTOR 110 kw</p>			
Agency that executed the project (with complete address and email):Electrical Department, Hindalco Industries Limited, Village – Dahali, Ramtek Road, Mouda ,Nagpur Pin 441 104, email – hindalcomouda@adityabirla.com					
Total investment, Rs.:3,92562(till March 2007)	Year of implementation: Feb.2006				
First year energy cost savings, Rs.:1,26840(till March 2007)					
First year other savings, Rs.:NA					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	738	NA	NA	NA	NA
Energy consumption after	522	NA	NA	NA	NA
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.53 Rs/kwh	NA	NA	NA	NA
Company complete address: Hindalco Industries Limited, Village – Dahali, Ramtek Road, Mouda ,Nagpur. Pin 441 104, Contact person who could be contacted for more information: Mr.Rajiv Sharma (Works Head)				We authorise Bureau to use this information for dissemination Signature:Rajiv Sharma Date :22-10-2007	


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ID to be filled by BEE	Title of the measure Installation of New Separate Air Compressor 18.5 Kw for Cut To Length Line	SectorAluminium.....			
Year to be filled by BEE		Technology ...Annexure "A" (b) Installation of Separte Air Compressor			
Description of the energy conservation measure: A separate Air compressor was installed for cut to line. Earlier to this a Big Compressor 125 Kw was used to supply air to this Cut to Length line even when other Machine center like Cold rolling mill was under shut down for preventive maintenance or for any other purpose like no planning or breakdown. Due to this extra running hours of Big compressor are saved.					
Picture/ sketch/ drawing before modification (if available)	Picture/ sketch/ drawing after modification				
	 <div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); font-weight: bold;"> Air Compressor 18.5 Kw For Cut Length Line </div>				
Agency that executed the project (with complete address and email):Mechanical Department, Hindalco Industries Limited, Village – Dahali, Ramtek Road, Mouda ,Nagpur Pin 441 104, email – hindalcomouda@adityabirla.com					
Total investment, Rs.:2,70,000(till March 2007)	Year of implementation: Nov.2006				
First year energy cost savings, Rs.67, 950(till March 2007)					
First year other savings, Rs.:NA					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	46	NA	NA	NA	NA
Energy consumption after	18	NA	NA	NA	NA
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.53 Rs/kwh	NA	NA	NA	NA
Company complete address: Hindalco Industries Limited, Village – Dahali, Ramtek Road, Mouda ,Nagpur. Pin 441 104, Contact person who could be contacted for more information: Mr.Rajiv Sharma (Works Head)				We authorise Bureau to use this information for dissemination Signature: Rajiv Sharma Date: 22-10-2007	


Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure Replacement Tube Lights/Bulb with CFL 20 Watts	SectorAluminium.....
Year to be filled by BEE		Technology ...Annexure "A" (a) Replacement of Tube Lights/Bulbs with CFL 20 watts.
Description of the energy conservation measure: Total 68 Nos CFL 20 watts were replaced in place of Tube Lights/Bulbs 40/60 Watts. This modification was done considering that the lumen required in that particular area is not affected.		
Picture/ sketch/ drawing before modification (if available)	Picture/ sketch/ drawing after modification	
		
Agency that executed the project (with complete address and email):Electrical Department, Hindalco Industries Limited, Village – Dahali, Ramtek Road, Mouda ,Nagpur Pin 441 104, email – hindalcomouda@adityabirla.com		
Total investment, Rs.:7,140(till March 2007)	Year of implementation: August.2006	
First year energy cost savings, Rs.:26,613(till March 2007)		
First year other savings, Rs.:NA		
On annual basis	kWh 000'	Coal (Tons)
	Gas Nm ³	Oil (kL)
	Other	
Energy consumption before	18	NA
Energy consumption after	9	NA
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.53 Rs/kwh	NA
Company complete address: Hindalco Industries Limited, Village – Dahali, Ramtek Road, Mouda ,Nagpur. Pin 441 104, Contact person who could be contacted for more information: Mr.Rajiv Sharma (Works Head)		We authorise Bureau to use this information for dissemination Signature: Rajiv Sharma Date: 22-10-2007


Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure Replacement 160 Watts Mercury Lamps with CFL 27 Watts	SectorAluminium.....			
Year to be filled by BEE		Technology ...Annexure "A" (a) Replacement of Mercury Lamps with CFL 27 watts.			
Description of the energy conservation measure: Total 05 Nos CFL 27 watts were replaced in place of Mercury Lamps 160 Watts. This modification was done considering that the lumen required in that particular area is not affected.					
Picture/ sketch/ drawing before modification (if available)	Picture/ sketch/ drawing after modification				
	 <p style="text-align: right; margin-top: 10px;">CFL 27 Watts in place of 160 Watts Mercury Lamps.</p>				
Agency that executed the project (with complete address and email):Electrical Department, Hindalco Industries Limited, Village – Dahali, Ramtek Road, Mouda ,Nagpur Pin 441 104, email – hindalcomouda@adityabirla.com					
Total investment, Rs.:1,275(till March 2007)	Year of implementation: March.2007				
First year energy cost savings, Rs.:433(till March 2007)					
First year other savings, Rs.:NA					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	7	NA	NA	NA	NA
Energy consumption after	1.1	NA	NA	NA	NA
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.53 Rs/kwh	NA	NA	NA	NA
Company complete address: Hindalco Industries Limited, Village – Dahali, Ramtek Road, Mouda ,Nagpur. Pin 441 104, Contact person who could be contacted for more information: Mr.Rajiv Sharma (Works Head)				We authorise Bureau to use this information for dissemination Signature: Rajiv Sharma Date: 22-10-2007	

Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure Replacement 150 Watts High Pressure Sodium Vapor Lamps with CFL 90 Watts	SectorAluminium.....			
Year to be filled by BEE		Technology ...Annexure "A" (a) Replacement of HPSV 150Watts Lamp with CFL 90 W			
Description of the energy conservation measure: Total 20 Nos CFL 90 watts were replaced in place of HPSV Lamps 150 Watts. This modification was done considering that the lumen required in that particular area is not affected.					
Picture/ sketch/ drawing before modification (if available)	Picture/ sketch/ drawing after modification				
					
<p style="text-align: right;">CFL 90 Watts in place of 150 Watts HPSV Lamps.</p> <p style="text-align: right;">CFL 90 Watts in place of 150 Watts HPSV High BayLamps</p>					
Agency that executed the project (with complete address and email):Electrical Department, Hindalco Industries Limited, Village – Dahali, Ramtek Road, Mouda ,Nagpur Pin 441 104, email – hindalcomouda@adityabirla.com					
Total investment, Rs.:14,500(till March 2007)	Year of implementation: March.2007				
First year energy cost savings, Rs.:1,957(till March 2007)					
First year other savings, Rs.:NA					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	9	NA	NA	NA	NA
Energy consumption after	5	NA	NA	NA	NA
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.53 Rs/kwh	NA	NA	NA	NA
Company complete address: Hindalco Industries Limited, Village – Dahali, Ramtek Road, Mouda ,Nagpur. Pin 441 104, Contact person who could be contacted for more information: Mr.Rajiv Sharma (Works Head)				We authorise Bureau to use this information for dissemination Signature:Rajiv Sharma Date:22-10-2007	

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ID to be filled by BEE	Title of the measure Replacement 400 Watts High Pressure Sodium Vapor Lamps with 250 Watts Metal Halide Lamps	SectorAluminium.....			
Year to be filled by BEE		Technology ...Annexure "A" (a) Replacement of HPSV 400Watts Lamp with Metal Halide 250 Watts Lamps			
Description of the energy conservation measure: Total 08 Nos Metal Halide Lamps watts were replaced in place of HPSV Lamps 400 Watts. This modification was done considering that the lumen required in that particular area is not affected.					
Picture/ sketch/ drawing before modification (if available)	Picture/ sketch/ drawing after modification				
	 <p style="text-align: right;">Metal Halide 250 Watts in place of 400 Watts HPSV High Bay Lamps</p>				
Agency that executed the project (with complete address and email):Electrical Department, Hindalco Industries Limited, Village – Dahali, Ramtek Road, Mouda ,Nagpur Pin 441 104, email – hindalcomouda@adityabirla.com					
Total investment, Rs.:23,130(till March 2007)	Year of implementation: March.2007				
First year energy cost savings, Rs.:1,957(till March 2007)					
First year other savings, Rs.:NA					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	8	NA	NA	NA	NA
Energy consumption after	5	NA	NA	NA	NA
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.53 Rs/kwh	NA	NA	NA	NA
Company complete address: Hindalco Industries Limited, Village – Dahali, Ramtek Road, Mouda ,Nagpur. Pin 441 104, Contact person who could be contacted for more information: Mr.Rajiv Sharma (Works Head)				We authorise Bureau to use this information for dissemination Signature:Rajiv Sharma Date:22-10-2007	