




Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure	Sector : Automotive			
Year to be filled by BEE	Capacity Utilization of one of the parts washers instead of Two	Technology: Capacity utilization			
Description of the energy conservation measure:					
Earlier we have two under utilized parts washer machines in the axle & engine shop Now with the enhancement of the one of the m/c's conveyor speed, usage of second machine is eliminated there by significant energy savings achieved.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
Earlier conveyor Motor RPM: 960			<p style="text-align: center;">RPM :1440</p> 		
Agency that executed the project (with complete address and email) : In house					
Total investment, Rs.: 3,000/-			Year of implementation : 2006-07		
First year energy cost savings, Rs. 1404654/-					
First year other savings, Rs. 23000/-					
On annual basis	Lac kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	6.49	NA	NA	NA	NA
Energy consumption after	3.24	NA	NA	NA	NA
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4.00	NA	NA	NA	NA
Company complete address: Mahindra & Mahindra Ltd, Auto motive sector Mahindra Nagar, Zaheerabad Medak (Distt), Andhra Pradesh, India Contact person who could be contacted for more information: Ravi Kumar B Asst. Manager ENCON Cell & Maintenance Mobile # 0 98493 99521				We authorize Bureau to use this information for dissemination Signature Date	


Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure	Sector : Automobile			
Year to be filled by BEE	Energy saving through reduction in consumption of air	Technology : Reduction in air consumption			
Description of the energy conservation measure:					
Earlier compressed air being used for supply of the Veh Assly line through dedicated compressor(30 hp motor, 3500 Lpm).					
Now utilization of compressed air from central compressor by providing airline & removed the dedicated compressor (This EC measure was found during the air audit).					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
<p style="text-align: center;">Earlier compressed air being used for supply to the Veh Assly line through dedicated compressor</p> <p style="text-align: center;">More power consumption</p>			<div style="text-align: center;">  </div> <p style="text-align: center;">With central compressor less power consumption</p>		
Agency that executed the project (with complete address and email) : In house					
Total investment, Rs.: 0.20 Lacs			Year of implementation : 2006-2007		
First year energy cost savings : Rs 2.10Lacs					
First year other savings, Rs.: NA					
On annual basis	Lac kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	15.04	NA	NA	NA	NA
Energy consumption after	14.52	NA	NA	NA	NA
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4	NA	NA	NA	NA
Company complete address: MAHINDRA & MAHINDRA LTD, AS, MAHINDRA NAGAR, ZAHEERABAD – 502 220 MEDAK (DIST) – ANDHRA PRADESH Contact person who could be contacted for more information: B. Ravi Kumar Asst. Manager ENCON Cell & Maintenance				We authorise Bureau to use this information for dissemination Signature Date	


A. Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure Power Factor controller for Capacitor banks	Sector Automotive Sector			
Year to be filled by BEE		Technology: Automation			
Manual switching of the capacitors for correction of the power factor, operator intervention is required every time for avoiding the following problem we introduced automatic power controller for correction of the power factor.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
Manual control switching of the capacitors panels.					
Agency that executed the project (with complete address and email): Govindayya.k.@mahindra.com					
Total investment, Rs.: 0.15			Year of implementation:		
First year energy cost savings, Rs.: 0.59					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	-	NA	NA	NA	NA
Energy consumption after	-	NA	NA	NA	NA
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	-	NA	NA	NA	NA
Company complete address: MAHINDRA & MAHINDRA LTD, AS, MAHINDRA NAGAR, NEAR BIDAR JUNCTION ZAHEERABAD – 502 220 MEDAK (DIST) – ANDHRA PRADESH Contact person who could be contacted for more information: K.Govindayya, Govindayya.k@mahindra.com Asst. Manager ENCON Cell & Maintenance M & M Ltd, Zaheerabad 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 2006-2007

ID to be filled by BEE	Title of the measure	Sector : Automobile			
Year to be filled by BEE	Elimination of the phosphate circulation pump (5HP)	Technology : Pumping by gravity			
Description of the energy conservation measure :					
<p>Earlier filter press is at lower height form the ground, the outlet of Filter press is connected to intermediate tank from where solution is again pumped to main tank Now Increased the height of the filter press so as to enable the outlet phosphate solution from filter press directly goes to the main tank by gravity. Both Intermediate tank & pump (5 hp) eliminated</p>					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
			<p>Now Increased the height of the filter press so as to enable the outlet phosphate solution from filter press directly goes to the main tank by gravity. Both Intermediate tank & pump (5 hp) eliminated</p>		
Agency that executed the project (with complete address and email) : In house					
Total investment, Rs : 0.10 Lacs			Year of implementation : 2006-2007		
First year energy cost savings, Rs : 0.54 Lacs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	13680	NA	NA	NA	NA
Energy consumption after	0	NA	NA	NA	NA
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4	NA	NA	NA	NA
Company complete address: MAHINDRA & MAHINDRA LTD, MAHINDRA NAGAR, ZAHEERABAD – 502 220 MEDAK (DIST) – ANDHRA PRADESH Contact person who could be contacted for more information: B.Ravi Kumar				We authorise Bureau to use this information for dissemination. Signature Date	


A. Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure	Sector Automotive Sector			
Year to be filled by BEE	Reactive power optimization by 700 KVAR 415 V AC capacitor bank implementation	Technology:			
Existing transformers having capacitor bank of 250 KVAR is not sufficient to meet the reactive load compensation. 700 KVAR additional load is added to improve the power factor from 0.93 to 0.98					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
<p>Before installation : Maximum demand recorded was 2739 KVA at power factor of 0.93 lag.</p> <p>After installation : Maximum demand recorded was 2477 KVA at power factor of 0.98 lag.</p> <p>Investment : Rs. 3.5 Lac.'s. Savings per annum : Rs. 0.25 Lac.'s</p>					
Agency that executed the project (with complete address and email): Govindayya.k.@mahindra.com					
Total investment, Rs.:			Year of implementation:		
First year energy cost savings, Rs.:					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	636	NA	NA	NA	NA
Energy consumption after	606	NA	NA	NA	NA
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4	NA	NA	NA	NA
Company complete address: MAHINDRA & MAHINDRA LTD, AS, MAHINDRA NAGAR, NEAR BIDAR JUNCTION ZAHEERABAD – 502 220 MEDAK (DIST) – ANDHRA PRADESH Contact person who could be contacted for more information: K.Govindayya, Govindayya.k@mahindra.com Asst. Manager ENCON Cell & Maintenance M & M Ltd, Zaheerabad Contact person who could be contacted for more information:				We authorise Bureau to use this information for dissemination Signature Date	


A. Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure	Sector Automotive Sector			
Year to be filled by BEE	Load synchronizing of 3 generators for equal load distribution.	Technology: Optimization			
<p>During power failure and ED interruptions productivity loss due non-availability of power source and unequal load distribution among 3 generators. Achieved results as follows:</p> <ol style="list-style-type: none"> a) Load distribution among generators are improved and increase in Efficiency of loading. b) Productivity improvement due power availability 					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
Switching generators individually and unequal load distribution.					
Agency that executed the project (with complete address and email): Govindayya.k.@mahindra.com					
Total investment, Rs.:12 Lacs			Year of implementation:		
First year energy cost savings, Rs.:					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before		NA	NA	NA	NA
Energy consumption after		NA	NA	NA	NA
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...		NA	NA	NA	NA
Company complete address: MAHINDRA & MAHINDRA LTD, AS, MAHINDRA NAGAR, NEAR BIDAR JUNCTION ZAHEERABAD – 502 220 MEDAK (DIST) – ANDHRA PRADESH Contact person who could be contacted for more information: K.Govindayya, Govindayya.k@mahindra.com Asst. Manager ENCON Cell & Maintenance M & M Ltd, Zaheerabad 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 2006-2007

ID to be filled by BEE	Title of the measure	Sector : Automobile.			
Year to be filled by BEE	Replacement of ETP compressor with Roots blower	Technology: Roots blower (Higher volume with low pressure)			
Description of the energy conservation measure:					
An 15 KW compressor was supplying air for process requirement of ETP(After Pressure Reduction at 0.4 bar). The same was eliminated by installing a roots blower of 5 kw capacity and thus energy saving of 10 KW achieved					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
Earlier an 15 KW compressor was supplying air for process requirement of ETP			 <p style="text-align: center;">Compressor replaced with roots blower</p>		
Agency that executed the project (with complete address and email) : In house					
Total investment : Rs.1.10 Lacs/Annum			Year of implementation : 2006-2007		
First year energy cost savings: Rs.1.20 Lacs/ Annum					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	45000	NA	NA	NA	NA
Energy consumption after	15000	NA	NA	NA	NA
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4	NA	NA	NA	NA
Company complete address: MAHINDRA & MAHINDRA LTD, AS, MAHINDRA NAGAR, ZAHEERABAD – 502 220 MEDAK (DIST) – ANDHRA PRADESH Contact person who could be contacted for more information: B. Ravi Kumar Asst. Manager ENCON Cell & Maintenance M & M Ltd, Zaheerabad				We authorise Bureau to use this information for dissemination Signature Date	



Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure	Sector : Automobile.			
Year to be filled by BEE	Elimination of one water circulation pump (15kw).	Technology : Pipe line modification there by reduction in head achieved			
Description of the energy conservation measure: Eliminated one pump (15kw) out of two which caters water circulation for paint spraying booth after pipeline modification.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
Earlier both 40hp & 20 hp pumps were being used for water circulation for paint spraying booth			 Now only 40 hp pump is running		
Agency that executed the project (with complete address and email): In house					
Total investment, Rs : 0.05 Lacs			Year of implementation : 2006-2007		
First year energy cost savings, Rs.: 2.88 Lacs					
First year other savings, Rs.: NA					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	216000	NA	NA	NA	NA
Energy consumption after	144000	NA	NA	NA	NA
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4	NA	NA	NA	NA
Company complete address: MAHINDRA & MAHINDRA LTD, MAHINDRA NAGAR, ZAHEERABAD – 502 220 MEDAK (DIST) – ANDHRA PRADESH Contact person who could be contacted for more information: CH.SreenivasaReddy				We authorise Bureau to use this information for dissemination Signature Date	


Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure	Sector : Automobile			
Year to be filled by BEE	Usage of integral Transformer Guns in place of conventional spot welding	Technology : Reduction of transformer losses			
Description of the energy conservation measure: Earlier Usage of conventional spot welding m/c of Transformer rating 150 KVA Now conventional PSW Guns replaced with Integral Transformer Guns of power rating 50 KVA (3 numbers of Guns Replaced)					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
Earlier Usage of conventional spot welding m/c of Transformer rating 150 KVA			Now conventional PSW Guns replaced with Integral Transformer Guns of power rating 50 KVA (3 No's of Guns Replaced) 		
Agency that executed the project (with complete address and email) : Seam Engineers(Nash), Pune, Ph.no: 09850846973					
Total investment : 6.10Lacs			Year of implementation : 2006-2007		
First year energy cost savings: 8.81 Lacs					
First year other savings, Rs.:					
On annual basis	kWh Lakhs 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	30.6	NA	NA	NA	NA
Energy consumption after	10.2	NA	NA	NA	NA
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4	NA	NA	NA	NA
Company complete address: MAHINDRA & MAHINDRA LTD, AS, MAHINDRA NAGAR, ZAHEERABAD – 502 220 MEDAK (DIST) – ANDHRA PRADESH Contact person who could be contacted for more information: B. Ravi Kumar				We authorise Bureau to use this information for dissemination Signature Date	

Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure	Sector: Automotive Sector			
Year to be filled by BEE	Replacement of Conventional Hoist O Mech hoists with Energy efficient IR hoists	Technology : compact design & energy efficient IR rails			
Description of the energy conservation measure:					
<p>Earlier we have motorized longitudinal & transverse cross traverse operations for handling the veh. Parts for assembling which operates on the conventional I beam. Now innovatively conventional I beams are replaced with IR make (Ingersoll Rand) Assly which does not require any motorized for traverse operations & Energy efficient hoist for Up & Down operations. This leads to reduction in power consumption & other overheads.</p>					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email) : Ingersollrand, wadco, Chennai.					
Total investment, Rs.: 20 Lakhs			Year of implementation : 2006-07		
First year energy cost savings : Rs. 4.54Lacs					
First year other savings, Rs. Spare Maintenance cost. O & M costs 1, 50,000.00					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	129295	NA	NA	NA	NA
Energy consumption after	15795	NA	NA	NA	NA
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4	NA	NA	NA	NA
Company complete address: MAHINDRA & MAHINDRA LTD, AS, MAHINDRA NAGAR, ZAHEERABAD – 502 220 MEDAK (DIST) – ANDHRA PRADESH Contact person who could be contacted for more information: B. Ravi Kumar				We authorise Bureau to use this information for dissemination Signature Date	


Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure Replacement of exhaust fans with eco ventilators(Turbine Ventilators)	Sector : Automobile			
Year to be filled by BEE		Technology : wind driven			
Description of the energy conservation measure:					
<p>Earlier exhaust fans usage of 3 no's of 5.5 KW each for extracting the hot air fumes from the paint shop ovens. No effective reduction in temperature in the whole paint shop</p> <p>Now power less eco ventilators used to extract the air fumes by which number of air changes are 12 / hour resulting reduction in whole the shop floor temperature by 40 C.</p>					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
Earlier exhaust fans usage of 3 no's of 5.5 KW each for extracting the hot air fumes from the paint shop ovens.			 <p style="text-align: center;">Now exhaust fans replaced with eco ventilators</p>		
Agency that executed the project (with complete address and email) : Precise Engineering &Plastics , HyderaBad, Ph.No: 9866938839					
Total investment, Rs.: 4.6Lacs			Year of implementation : 2006-2007		
First year energy cost savings, Rs.: 3.12Lacs					
First year other savings, Rs.: NA					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	79200	NA	NA	NA	NA
Energy consumption after	0	NA	NA	NA	NA
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4	NA	NA	NA	NA
Company complete address: MAHINDRA & MAHINDRA LTD, AS, MAHINDRA NAGAR, ZAHEERABAD – 502 220 MEDAK (DIST) – ANDHRA PRADESH Contact person who could be contacted for more information: B. Ravi Kumar				We authorise Bureau to use this information for dissemination Signature Date	


Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure		Sector : Automobile			
Year to be filled by BEE	Using of cold washing solution instead of heating application		Technology : Advanced chemical composition			
Description of the energy conservation measure:						
<p>For cleaning the parts of degreasing earlier chemical being heated to 60-70 Degree Centigrade. 96 KW heater load being consumed for heating 840 liters of water.</p> <p>Now started the using of cold washing degreasing solution for which heating is not required, thus heaters eliminated there by energy saving achieved</p>						
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification			
96 KW heater load being consumed for heating 840 liters of water.			Now started the using of cold washing degreasing solution for which heating is not required			
Agency that executed the project (with complete address and email): Gulf Oil corporation ltd, Bangalore, Ph.No: 9945079204, 080-41276181						
Total investment, Rs : 1.90Lacs			Year of implementation : 2006-2007			
First year energy cost savings, Rs.: 6.91Lacs						
First year other savings, Rs.: NA						
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other	
Energy consumption before	172750	NA	NA	NA	NA	
Energy consumption after	0	NA	NA	NA	NA	
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4	NA	NA	NA	NA	
Company complete address: MAHINDRA & MAHINDRA LTD, AS, MAHINDRA NAGAR, ZAHEERABAD – 502 220 MEDAK (DIST) – ANDHRA PRADESH Contact person who could be contacted for more information: B. Ravi Kumar Asst. Manager ENCON Cell & Maintenance M & M Ltd, Zaheerabad				We authorise Bureau to use this information for dissemination Signature Date		


A. Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure	Sector Automotive Sector			
Year to be filled by BEE	Auto switching on / off of Assly line lighting & air circulators	Technology: Retrofitting/Minor Modifications of existing system– Low investment options			
Description of the energy conservation measure: Earlier there is no centralized control for the switching on/off lighting and air circulators due to which unnecessary power consumption is very high even in non production hours. Now centralized control is provided in such a way that which switches off lighting & air circulators during non production hours reduces the power consumption.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email): Govindayya.k.@mahindra.com					
Total investment, Rs.: 0.3 Lacs			Year of implementation: 2006 - 2007		
First year energy cost savings, Rs 0.69 Lacs					
First year other savings, Rs.:					
On annual basis	kWh	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	169603	Na	Na	Na	Na
Energy consumption after	152353	Na	Na	Na	Na
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4	Na		Na	Na
Company complete address: Company complete address: Company complete address: MAHINDRA & MAHINDRA LTD, AS, MAHINDRA NAGAR, NEAR BIDAR JUNCTION ZAHEERABAD – 502 220 MEDAK (DIST) – ANDHRA PRADESH Contact person who could be contacted for more information: K.Govindayya, Govindayya.k@mahindra.com Asst. Manager ENCON Cell & Maintenance M & M Ltd, Zaheerabad Contact person who could be contacted for more information:				We authorise Bureau to use this information for dissemination Signature Date	


A. Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure	Sector Automotive Sector			
Year to be filled by BEE	Street Lighting control with LDR dependent	Technology: Automation			
Street lights switching on/ off by the electrician manually these timing are varying with seasonal					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
1) Street lights are switching ON/OFF based on time and availability of electrician 2) Electrician movement loss 3) Energy loss due to unwanted lighting 4) Seasonal change effects on Lighting					
Agency that executed the project (with complete address and email): Govindayya.k.@mahindra.com					
Total investment, Rs.:			Year of implementation:		
First year energy cost savings, Rs.:					
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 ...					
Company complete address: MAHINDRA & MAHINDRA LTD, AS, MAHINDRA NAGAR, NEAR BIDAR JUNCTION ZAHEERABAD – 502 220 MEDAK (DIST) – ANDHRA PRADESH Contact person who could be contacted for more information: K.Govindayya, Govindayya.k@mahindra.com Asst. Manager ENCON Cell & Maintenance M & M Ltd, Zaheerabad 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 2006-2007

ID to be filled by BEE	Title of the measure	Sector : Automobile			
Year to be filled by BEE	Interlocking of cooling tower fan with sump temperature	Technology : Interlocking of fan with sump temperature			
Description of the energy conservation measure: Earlier cooling tower fan was continuously running irrespective of sump water temperature Now differential temperature control provided for cooling tower fan with sump water temperature to switching on /off control there by achieved energy saving.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
Before continuous running of fan along with process.					
Agency that executed the project (with complete address and email) : In house					
Total investment, Rs.: 0.15 Lacs			Year of implementation : 2006-2007		
First year energy cost savings, Rs.: 0.13 Lacs					
First year other savings, Rs.: NA					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	26400	NA	NA	NA	NA
Energy consumption after	23100	NA	NA	NA	NA
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4	NA	NA	NA	NA
Company complete address: MAHINDRA & MAHINDRA LTD, MAHINDRA NAGAR, ZAHEERABAD – 502 220 MEDAK (DIST) – ANDHRA PRADESH Contact person who could be contacted for more information: K.Govindayya, govindayya.k@mahindra.com Asst. Manager ENCON Cell & Maintenance M & M Ltd, Zaheerabad				We authorise Bureau to use this information for dissemination Signature Date	


Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure Elimination of idle running of equipment	Sector: Automotive Sector			
Year to be filled by BEE		Technology: Interlocking with limit switch			
Description of the energy conservation measure:					
We have a clinching m/c which operates with 3.1 KW imported motor continuously for 480 Min. The actual operation requires only 70 Min & idle running of equipment is 410 Min. This idle running of motor is eliminated by providing an interlock provision which operates only whenever required.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
Earlier we have a clinching m/c which operates with 3.1 KW imported motor continuously for 480 Min.					
Agency that executed the project (with complete address and email) : In house					
Total investment : 0.01 Lakhs			Year of implementation : 2006-07		
First year energy cost savings : 1.15Lacs					
First year other savings, Rs.. Nil					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	30922	NA	NA	NA	NA
Energy consumption after	2172	NA	NA	NA	NA
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	3.98	NA	NA	NA	NA
Company complete address: MAHINDRA & MAHINDRA LTD, MAHINDRA NAGAR, ZAHEERABAD – 502 220 MEDAK (DIST) – ANDHRA PRADESH Contact person who could be contacted for more information: B. Ravi Kumar				We authorise Bureau to use this information for dissemination Signature Date	


A. Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure	Sector Automotive Sector			
Year to be filled by BEE	Circuit modification of the Rolls On tester machine.	Technology: Retrofitting/Minor Modifications of existing equipment – Low investment options			
<p>Roll-on tester is used to measure Engine performance parameters like acceleration and de-acceleration and time measurement of engine pickup etc, this machine is not working condition due to no support to repair for existing system he send quotation for up gradation of the same with new electronic parts, but we formed the team and found in house solution and prepared the drawing and developed the vendor at Hyderabad, and installation and commissioning was done successfully.</p>					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email): Govindayya.k.@mahindra.com					
Total investment, Rs.: 0.75 Lacs			Year of implementation: 2006-07		
first year energy cost savings, Rs.: 8.5 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 ...	-	-	-	-	
Company complete address: MAHINDRA & MAHINDRA LTD, AS, MAHINDRA NAGAR, NEAR BIDAR JUNCTION ZAHEERABAD – 502 220 MEDAK (DIST) – ANDHRA PRADESH Contact person who could be contacted for more information: K.Govindayya, Govindayya.k@mahindra.com Asst. Manager ENCON Cell & Maintenance M & M Ltd, Zaheerabad Contact person who could be contacted for more information:				We authorize Bureau to use this information for dissemination Signature Date	


A. Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure Creation of Website for easy retrieval & effective data storing	Sector Automotive Sector			
Year to be filled by BEE		Technology: Software			
<p>For effective and easy retrieval of department by using website and common access for all the team members. Benefits as follows:</p> <ol style="list-style-type: none"> 1. Elimination of duplicate data 2. Update and common understanding of the department data. 					
Picture/ sketch/ drawing before modification (if available)		Picture/ sketch/ drawing after modification			
<p>Entry in Individual system and we have lot of duplication of the data and no common format. No systematic organization of data.</p>					
Agency that executed the project (with complete address and email): Govindayya.k.@mahindra.com					
Total investment, Rs.:0			Year of implementation: 2006-2007		
First year energy cost savings, Rs.: 1.0					
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 ...	--	-	-	-	-
Company complete address: MAHINDRA & MAHINDRA LTD, AS, MAHINDRA NAGAR, NEAR BIDAR JUNCTION ZAHEERABAD – 502 220 MEDAK (DIST) – ANDHRA PRADESH Contact person who could be contacted for more information: K.Govindayya, Govindayya.k@mahindra.com Asst. Manager ENCON Cell & Maintenance M & M Ltd, Zaheerabad Contact person who could be contacted for more information:				We authorize Bureau to use this information for dissemination Signature Date	

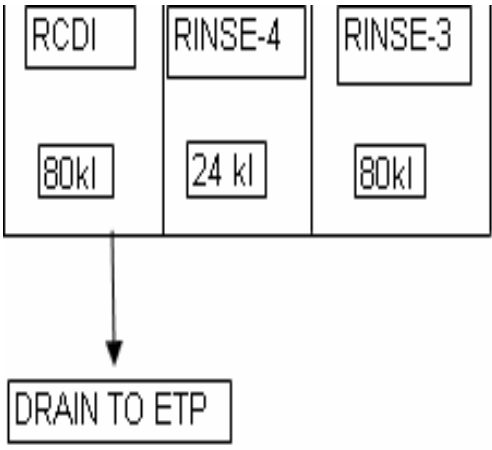
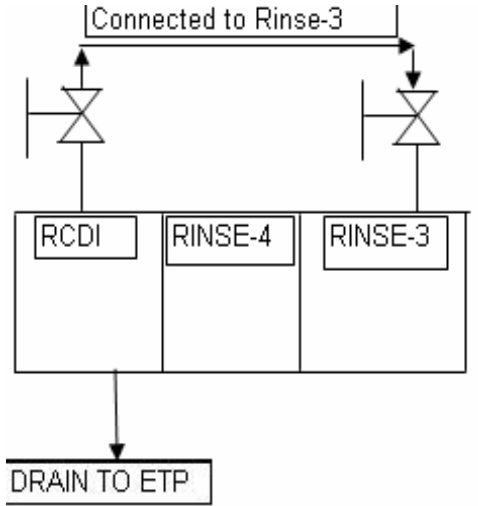
Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure	Sector : Automobile			
Year to be filled by BEE	Reduction of air pressure from 6bar to 4 bar in paint spraying booth	Technology : Energy saving by pressure reduction through regulator			
Description of the energy conservation measure:					
<p>Earlier we used to run the paint spraying pumps & guns with 6 bar air pressure. Now air pressure reduced from 6 bar to 4bar resulting in improvement in paint transfer efficiency & reduction in air consumption there by saving in energy achieved</p>					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
<p>Earlier we used to run the paint spraying pumps & guns with 6 bar air pressure</p>			 <p>Pressure reduction from 6bar to 4bar with regulator both power saving and paint saving achieved</p>		
Agency that executed the project (with complete address and email) : In house					
Total investment, : Rs 0.10Lacs			Year of implementation: 2006-2007		
First year energy cost savings : Rs 131 Lacs					
First year other savings, Rs.: NA					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	NA	NA	NA	NA	NA
Energy consumption after	NA	NA	NA	NA	NA
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4	NA	NA	NA	NA
Company complete address: MAHINDRA & MAHINDRA LTD, MAHINDRA NAGAR, ZAHEERABAD – 502 220 MEDAK (DIST) – ANDHRA PRADESH Contact person who could be contacted for more information: B. Ravi Kumar Asst. Manager ENCON Cell & Maintenance M & M Ltd, Zaheerabad				We authorise Bureau to use this information for dissemination Signature Date	


Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure Reduction in DM water consumption	Sector : Automobile			
Year to be filled by BEE		Technology : Spray gun of forced & fine jet			
Description of the energy conservation measure:					
<p>Earlier DM water spray on vehicle body by direct Hose connected to Inlet . : Now introduction of Water spray guns for effective spray, better rinsing & minimize Wastage of DM Water. 40 % reduction in DM water consumption. Process time reduction by 2600 sec/day</p>					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
Earlier DM water spray on body by direct Hose connected to Inlet			 <p style="text-align: center;">Water saved using spray gun</p>		
Agency that executed the project (with complete address and email) : In house					
Total investment : 0.20Lacs			Year of implementation : 2006-2007		
First year energy cost savings :					
First year other savings, . Rs 78,500/- (Water cost):					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other (Water)KL
Energy consumption before	NA	NA	NA	NA	82000
Energy consumption after	NA	NA	NA	NA	42750
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	NA	NA	NA	NA	2
Company complete address: MAHINDRA & MAHINDRA LTD, MAHINDRA NAGAR, ZAHEERABAD – 502 220 MEDAK (DIST) – ANDHRA PRADESH Contact person who could be contacted for more information: B. Ravi Kumar Asst. Manager ENCON Cell & Maintenance M & M Ltd, Zaheerabad				We authorise Bureau to use this information for dissemination Signature Date	


Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure Reduction in wastage of RCDI water	Sector : Automobile			
Year to be filled by BEE		Technology : Tanks inter connection			
<p>Description of the energy conservation measure : Earlier RCDI water (7kl) is being Drained on daily basis so to maintain the conductivity of RCDI bath and simultaneously Rinse-3 is also drained to reduce the contamination & for every 15 days the entire RCDI bath is drained</p> <p>Now provided pipe line from RCDI to Rinse-3 so, the water which is drained (7kl) on daily basis is transferred by reducing the wastage of water without affecting the circulation of the bath.</p>					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email) : Inhouse					
Total investment : 0.50 Lacs			Year of implementation : 2006-2007		
First year energy cost savings : 7.87 Lacs					
First year other savings, Rs.: NA					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other KL(water)
Energy consumption before	NA	NA	NA	NA	612
Energy consumption after	NA	NA	NA	NA	572.65
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	NA	NA	NA	NA	0.20
Company complete address: MAHINDRA & MAHINDRA LTD, MAHINDRA NAGAR, ZAHEERABAD – 502 220 MEDAK (DIST) – ANDHRA PRADESH Contact person who could be contacted for more information: B. Ravi Kumar				We authorise Bureau to use this information for dissemination Signature Date	

Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure Recycling of used thinner		Sector : Automobile			
Year to be filled by BEE			Technology : Collection of flushing thinner			
Description of the energy conservation measure:						
<p>Earlier during paint flushing for every color change all the thinner along with the paint was being flushed into the water circulation inside the booth</p> <p>Now provided an arrangement so as to collect all the flushing thinner and paint so as to reuse it back during paint mixing</p>						
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification			
Before no collection provision of thinner						
Agency that executed the project (with complete address and email) : Inhouse						
Total investment : 0.00 Lacs			Year of implementation : 2006-2007			
First year energy cost savings : NA						
First year other savings, Rs.: 40.00Lacs						
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other	
Energy consumption before	NA	NA	NA	NA	NA	
Energy consumption after	NA	NA	NA	NA	NA	
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	NA	NA	NA	NA	NA	
Company complete address: MAHINDRA & MAHINDRA LTD, MAHINDRA NAGAR, ZAHEERABAD – 502 220 MEDAK (DIST) – ANDHRA PRADESH Contact person who could be contacted for more information: B. Ravi Kumar Asst. Manager ENCON Cell & Maintenance M & M Ltd, Zaheerabad				We authorise Bureau to use this information for dissemination Signature Date		


Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure Auditorium /Function hall construction at Technician Colony with waste / out dated material	Sector : Auto mobile			
Year to be filled by BEE		Technology : Usage of scrap material			
Description of the energy conservation measure:					
<p>Earlier estimated cost for the construction of the kalaniketan : 18 Lac.'s Now constructed the auditorium with reused material like fly ash brick, Laterite stones, out dated vehicles roofs, without compromising quality & aesthetic view.</p>					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
<p>Earlier estimated cost for the construction of the kalaniketan : 18 Lac.'s</p>					
Agency that executed the project (with complete address and email) : In house					
Total investment : 8.24 Lacs			Year of implementation : 2006-2007		
First year energy cost savings, Rs.: NA					
First year other savings : 9.8 Lacs (Material cost)					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	NA	NA	NA	NA	NA
Energy consumption after	NA	NA	NA	NA	NA
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	NA	NA	NA	NA	NA
Company complete address: MAHINDRA & MAHINDRA LTD, MAHINDRA NAGAR, ZAHEERABAD – 502 220 MEDAK (DIST) – ANDHRA PRADESH Contact person who could be contacted for more information: B. Ravi Kumar				We authorise Bureau to use this information for dissemination Signature Date	

Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure	Sector : Automobile			
Year to be filled by BEE	Reduction of wastage of paint by reducing length of hose	Technology : hose length reduced			
<p>Description of the energy conservation measure:</p> <p>Earlier we used the length of the paint hose of 10 Meters due to which the waste of paint while flushing & changeover of paint is very more</p> <p>Now reduced the length of the paint hose from 10 metres to 7 metres by which the wastage of paint & thinner got reduced</p>					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
Length of the paint hose of 10 Meters			Now reduced the length of the paint hose from 10 metres to 7 metres		
Agency that executed the project (with complete address and email) : In house					
Total investment : 0.00 Lacs			Year of implementation: 2006-2007		
First year energy cost savings : NA					
First year other savings, Rs.: 2.61 Lacs(Paint cost)					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	NA	NA	NA	NA	NA
Energy consumption after	NA	NA	NA	NA	NA
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	NA	NA	NA	NA	NA
<p>Company complete address: MAHINDRA & MAHINDRA LTD, MAHINDRA NAGAR, ZAHEERABAD – 502 220 MEDAK (DIST) – ANDHRA PRADESH</p> <p>Contact person who could be contacted for more information: B. Ravi Kumar Asst. Manager ENCON Cell & Maintenance M & M Ltd, Zaheerabad</p>				We authorise Bureau to use this information for dissemination Signature Date	


Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure Recycling of material Utilisation of scrap MS material for Aviaries, Nursery & Cycle stand	Sector : Automobile			
Year to be filled by BEE		Technology : Usage of scrap material			
Description of the energy conservation measure: Earlier estimated cost of Aviaries is Rs. 0.63 Lac.'s Now constructed the aviaries with rejected chassis & scrap material like MS angles, Flats, out dated vehicle model rejects					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
Earlier estimated cost of Aviaries is Rs. 0.63 Lac.'s					
Constructed with scrap					
Agency that executed the project (with complete address and email) : In house					
Total investment : 0.06 Lacs			Year of implementation: 2006-2007		
First year energy cost savings, Rs.: NA					
First year other savings : 0.57 Lacs (Material cost)					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	NA	NA	NA	NA	NA
Energy consumption after	NA	NA	NA	NA	NA
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	NA	NA	NA	NA	NA
Company complete address: MAHINDRA & MAHINDRA LTD, MAHINDRA NAGAR, ZAHEERABAD – 502 220 MEDAK (DIST) – ANDHRA PRADESH Contact person who could be contacted for more information: B. Ravi Kumar Asst. Manager ENCON Cell & Maintenance M & M Ltd, Zaheerabad				We authorise Bureau to use this information for dissemination Signature Date	



Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure Reduction of Transport Fuel	Sector : Automobile			
Year to be filled by BEE	FUEL ENERGY SAVINGS BY REDUCING THE TRUCK TRIPS	Technology :Reduction in movement			
Description of the energy conservation measure: FUEL ENERGY SAVINGS BY REDUCING THE TRUCK TRIPS					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email): In house					
Total investment : 0.5 Lacs			Year of implementation : 2006-2007		
First year energy cost savings : 114.76 Lacs (Fuel)					
First year other savings, Rs.: NA					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	(HSD)Oil (kL)	Other
Energy consumption before	NA	NA	NA	570.26	NA
Energy consumption after	NA	NA	NA	242.38	NA
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	NA	NA	NA	35	NA
Company complete address: MAHINDRA & MAHINDRA LTD, MAHINDRA NAGAR, ZAHEERABAD – 502 220 MEDAK (DIST) – ANDHRA PRADESH Contact person who could be contacted for more information: B. Ravi Kumar Asst. Manager ENCON Cell & Maintenance M & M Ltd, Zaheerabad				We authorise Bureau to use this information for dissemination Signature Date	

Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure Reduction of Transport Fuel usage of battery operated forklifts		Sector : Automobile			
Year to be filled by BEE			Technology : usage of battery operated forklifts			
Description of the energy conservation measure: Earlier we used diesel operated material handling equipments for transporting the assembly parts. Now 4 No's of the diesel operated Material handling equipments are replaced with Battery operated vehicles						
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification			
Earlier we used diesel operated material handling equipments						
Agency that executed the project (with complete address and email) : Maini materials movement pvt ltd, chandrapura, bangalore.						
Total investment : 18.0 Lacs			Year of implementation : 2006-2007			
First year energy cost savings : 6.325 Lacs/ Annum						
First year other savings, Rs.: NA						
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other	
Energy consumption before	NA	NA	NA	18.07	NA	
Energy consumption after	NA	NA	NA	0.00	NA	
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	NA	NA	NA	35	NA	
Company complete address: MAHINDRA & MAHINDRA LTD, AS, MAHINDRA NAGAR, ZAHEERABAD – 502 220 MEDAK (DIST) – ANDHRA PRADESH Contact person who could be contacted for more information: B. Ravi Kumar Asst. Manager ENCON Cell & Maintenance M & M Ltd, Zaheerabad				We authorise Bureau to use this information for dissemination Signature Date		



Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure Reduction of Transport Fuel	Sector : Automobile			
Year to be filled by BEE	Replacement of inefficient vehicle by efficient vehicle	Technology : Replacement of inefficient by efficient			
Description of the energy conservation measure: Earlier we used old & inefficient fork lifts for transportation of Vehicle Assembly parts leads to over consumption of diesel (1984 Model) Now 3 No's of the old & inefficient fork lifts & stillers replaced with efficient one (2006 model). Thus optimized the diesel consumption					
Picture/ sketch/ drawing before modification (if available)	Picture/ sketch/ drawing after modification				
					
Agency that executed the project (with complete address and email) : Voltas Ltd, Secundrabad. Ph.No 9866300512					
Total investment : 25.56 Lacs	Year of implementation : 2006-2007				
First year energy cost savings : 4.68 Lacs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	(HSD)Oil (kL)	Other
Energy consumption before	NA	NA	NA	45.12	NA
Energy consumption after	NA	NA	NA	31.74	NA
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	NA	NA	NA	35	NA
Company complete address: MAHINDRA & MAHINDRA LTD, MAHINDRA NAGAR, ZAHEERABAD – 502 220 MEDAK (DIST) – ANDHRA PRADESH Contact person who could be contacted for more information: Srinivasan.V Asst. Manager ENCON Cell & Maintenance M & M Ltd, Zaheerabad				We authorise Bureau to use this information for dissemination Signature Date	


Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure Reduction of Transport Fuel		Sector : Automobile		
Year to be filled by BEE			Technology : Transport distance reduction		
Description of the energy conservation measure:					
<p>Earlier engines were being procured from Ranipet facility. Very long distance Now engines were being procured from Aurangabad facility. Short distance</p>					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
Engines were being procured from Ranipet facility. Very long distance			Now engines were being procured from Aurangabad facility. Short distance		
Agency that executed the project (with complete address and email) : In-house					
Total investment : Rs 0.00 Lacs			Year of implementation: 2006-2007		
First year energy cost savings: 5.26 Lacs					
First year other savings, Rs:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	NA	NA	NA	45.6	NA
Energy consumption after	NA	NA	NA	30.572	NA
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	NA	NA	NA	35.00	NA
Company complete address: MAHINDRA & MAHINDRA LTD, MAHINDRA NAGAR, ZAHEERABAD – 502 220 MEDAK (DIST) – ANDHRA PRADESH Contact person who could be contacted for more information: B. Ravi Kumar Asst. Manager ENCON Cell & Maintenance M & M Ltd, Zaheerabad				We authorize Bureau to use this information for dissemination Signature Date	


A. Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure	Sector Automotive Sector			
Year to be filled by BEE	Replacement of conventional tube lights with Low wattage CFLamps.	Technology:			
<p>Conventional lighting system with tube lights in office areas and inspection zones with approx. consumption of 56 Watts for each lamp which was replaced by low power high illumination CFLamps.</p>					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email): Govindayya.k.@mahindra.com					
Total investment, Rs. 0.66 Lac.'s.			Year of implementation: 2006 - 2007		
First year energy cost savings, Rs. 1.38 Lac.'s					
First year other savings, Rs.					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	16800	NA	NA	NA	NA
Energy consumption after	4800	NA	NA	NA	NA
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4	NA	NA	NA	NA
Company complete address: MAHINDRA & MAHINDRA LTD, AS, MAHINDRA NAGAR, NEAR BIDAR JUNCTION ZAHEERABAD – 502 220 MEDAK (DIST) – ANDHRA PRADESH Contact person who could be contacted for more information: K.Govindayya, Govindayya.k@mahindra.com Asst. Manager ENCON Cell & Maintenance M & M Ltd, Zaheerabad Contact person who could be contacted for more information:				We authorize Bureau to use this information for dissemination Signature Date	



Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure Isolation of air lines shop wise		Sector: Automobile sector		
Year to be filled by BEE			Technology : Reduction in air consumption and leakage		
Description of the energy conservation measure:					
Earlier there is no provision for shut off of the pneumatic lines shop wise due to which even rigorous maintenance on air leakages, leakages are more. Now shop wise isolation valves are provided which are shut off during non production hrs, thus air wastage is minimal.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
Earlier there is no provision for shut off of the pneumatic lines shop wise due to which even rigorous maintenance on air leakages, leakages are more.					
Now shop wise isolation valves are provided which are shut off during non production hrs.					
Agency that executed the project (with complete address and email) : In house					
Total investment, Rs. : 0.35 Lakhs			Year of implementation: 2006-2007		
First year energy cost savings, : Rs. 2.20 Lakhs					
First year other savings, Rs.: NA					
On annual basis	Lac kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	15.04	NA	NA	NA	NA
Energy consumption after	14.49	NA	NA	NA	NA
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4	NA	NA	NA	NA
Company complete address: MAHINDRA & MAHINDRA LTD, MAHINDRA NAGAR, ZAHEERABAD – 502 220 MEDAK (DIST) – ANDHRA PRADESH				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: Ravi Kumar B				Signature	
				Date	

Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure Usage of Air saving Nozzle		Sector: Automobile		
Year to be filled by BEE			Technology: Air Saving Nozzle by Venturi principle		
Description of the energy conservation measure:					
<p>Earlier we used compressed air at 7 bar directly to clean the parts coming out of the parts washer. Now air saving nozzle introduced which utilizes a small amount of compressed air as a power source and sucks larger volumes of surrounding atmospheric air by venturi principle thus compressed air consumption reduced drastically</p>					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
<p>Earlier we used compressed air at 7 bar directly</p>					
Agency that executed the project (with complete address and email) : In house					
Total investment : Rs 8,000/-			Year of implementation : 2006-07		
First year energy cost savings : Rs 0.69 Lakhs					
First year other savings: NA					
On annual basis	Lac kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	15.04	NA	NA	NA	NA
Energy consumption after	14.86	NA	NA	NA	NA
Energy tariff, Rs/ kWh	4	NA	NA	NA	NA
Company complete address: MAHINDRA & MAHINDRA LTD, MAHINDRA NAGAR, ZAHEERABAD – 502 220 MEDAK (DIST) – ANDHRA PRADESH Contact person who could be contacted for more information: B. Ravi Kumar Asst. Manager ENCON Cell & Maintenance M & M Ltd, Zaheerabad				We authorise Bureau to use this information for dissemination Signature Date	

A. Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure	Sector Automotive Sector			
Year to be filled by BEE	Replacement of Magnetic ballasts with High frequency electronic ballasts	Technology:			
Street lights and pathway lights are running with Magnetic Ballast usually 150 Watts and 250 Watts. This Ballast consumption is very high compare with electronic type so replaced with Magnetic ballast with electronic ballast.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email): Govindayya.k.@mahindra.com					
Total investment, Rs.: 6.2 lacs			Year of implementation: 2006-2007		
First year energy cost savings, Rs.: 1.81 Lacs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	56575	NA	NA	NA	NA
Energy consumption after	11315	NA	NA	NA	NA
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	4	NA	NA	NA	NA
Company complete address: MAHINDRA & MAHINDRA LTD, AS, MAHINDRA NAGAR, NEAR BIDAR JUNCTION ZAHEERABAD – 502 220 MEDAK (DIST) – ANDHRA PRADESH Contact person who could be contacted for more information: K.Govindayya, Govindayya.k@mahindra.com Asst. Manager ENCON Cell & Maintenance M & M Ltd, Zaheerabad Contact person who could be contacted for more information:				We authorize Bureau to use this information for dissemination Signature Date	