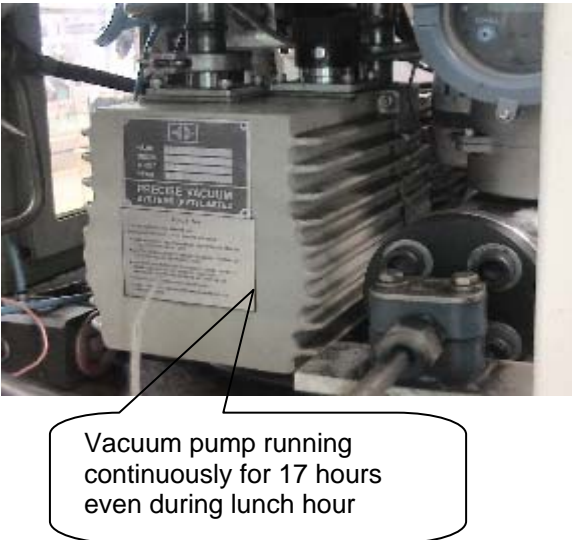





Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Bolero – 1		Sector: Automobile		
Year to be filled by BEE	Eliminating the idle operation of the vacuum pump of AC filling m/c		Technology		
Description of the energy conservation measure:					
Two Vacuum pumps of AC Filling machine was running idle during the non-production hours. This idle time is eliminated by PLC based program. This leads to savings in energy is 11,250 kWh per annum.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
			<div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> <p>Programmed the ON/OFF cycle so that pump runs only during the vacuum cycle and then stopped till the next cycle.</p> </div>		
Agency that executed the project (with complete address and email): Bolero PU Maintenance					
Total investment, Rs.: Nil			Year of implementation: 2006-2007		
First year energy cost savings, Rs. :- 0.44 Lakhs					
First year other savings, Rs. :					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	15.3				
Energy consumption after	4.0				
Energy tariff, Rs/ kWh/ Ton/ Nm³/ kL	4				
Company complete address: M/S Mahindra & Mahindra 89 MIDC Satpur Nashik -422007 Maharashtra				We authorise Bureau to use this information for dissemination Signature Date	
Contact person who could be contacted for more information: Mr. R. P. Kulkarni (Maintenance Manager –Bolero PU) Kulkarni.rajiv@mahindra.com					



Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Bolero - 2	Sector			
Year to be filled by BEE	Installation of Electronic Ballast with reflectors on 300 , 40W FTLs	Technology			
Description of the energy conservation measure:					
In Bolero PU, 300 nos of 40 W twin conventional ballast Florescent tube lights were replaced by electronic ballast single Florescent tube lights. The energy savings of 87,210 kWh per annum is achieved.					
Picture/ sketch/ drawing before modification (if available)	Picture/ sketch/ drawing after modification				
					
Double tube light rods consuming 80 watt (Total no 300)	Single tube light rods consuming 36 watt with reflector (To maintain same lux level)				
Agency that executed the project (with complete address and email): Bolero PU Maintenance					
Total investment, Rs.:1.80 Lakhs	Year of implementation: 2006-2007				
First year energy cost savings, Rs. :- 3.49 Lakhs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	153				
Energy consumption after	65.8				
Energy tariff, Rs/ kWh/ Ton/ Nm³/ kL	4				
Company complete address: M/S Mahindra & Mahindra 89 MIDC Satpur Nashik -422007 Maharashtra Contact person who could be contacted for more information: Mr. R. P. Kulkarni (Maintenance Manager –Bolero PU) Kulkarni.rajiv@mahindra.com				We authorise Bureau to use this information for dissemination Signature Date	

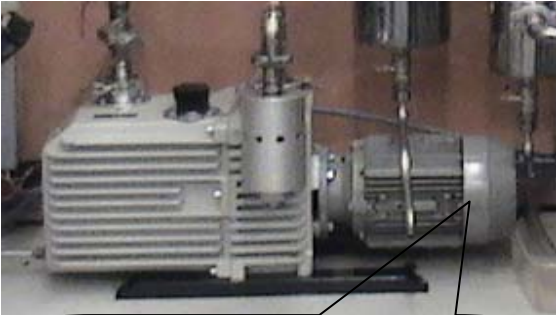
Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Bolero - 3	Sector
Year to be filled by BEE	Disconnection of Unwanted Over Head Lamps	Technology
Description of the energy conservation measure:		
11 overhead lamps of 400 W were disconnected based on lux level requirement. The energy savings to the tune of 6,300 kWh per annum is achieved.		
Picture/ sketch/ drawing before modification (if available)	Picture/ sketch/ drawing after modification	
	11 nos 400 W Over Head lamp fittings disconnected.	
Agency that executed the project (with complete address and email): Bolero PU Maintenance		
Total investment, Rs.: 0 Rs	Year of implementation: 2006 – 2007	
First year energy cost savings, Rs. :- 25,200 Rs / Year		
First year other savings, Rs.:		
On annual basis	kWh 000'	Coal (Tons)
Energy consumption before	6.3	
Energy consumption after	0	
Energy tariff, Rs/ kWh/ Ton/ Nm³/ kL ...	4	
Company complete address: M/S Mahindra & Mahindra 89 MIDC Satpur Nashik -422007 Maharashtra Contact person who could be contacted for more information: Mr. R.P. Kulkarni (Maintenance Manager –Bolero PU) Kulkarni.rajiv@mahindra.com	We authorise Bureau to use this information for dissemination Signature Date	

Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Bolero - 4	Sector			
Year to be filled by BEE	250 W O H Lamp replaced by 100 W FTL (twin)	Technology			
Description of the energy conservation measure:					
Five, 250 W metal halide lamps were replaced by 100 W Fluorescent tube lights based on the lux level at operating area. The energy savings achieved is 765 kWh per annum.					
Picture/ sketch/ drawing before modification (if available)	Picture/ sketch/ drawing after modification				
					
Agency that executed the project (with complete address and email): Bolero TCF Maintenance					
Total investment, Rs.: 0.10 Lakhs	Year of implementation: F-2007				
First year energy cost savings, Rs. :- 3,060/-					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	1.27				
Energy consumption after	0.51				
Energy tariff, Rs/ kWh/ Ton/ Nm³/ kL	4.0				
Company complete address: M/S Mahindra & Mahindra 89 MIDC Satpur Nashik -422007 Maharashtra Contact person who could be contacted for more information: Mr. R. P. Kulkarni (Maintenance Manager –Bolero PU) Kulkarni.rajiv@mahindra.com				We authorise Bureau to use this information for dissemination Signature Date	

Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Bolero - 5	Sector			
Year to be filled by BEE	Eliminating the idle operation of power & steering m/c vacuum pump	Technology			
Description of the energy conservation measure:					
The power & steering m/c vacuum pump was running continuously. The idle time was eliminated by PLC based programming during the lunch and other break periods. The energy savings achieved is 4,950 kWh per annum.					
Picture/ sketch/ drawing before modification (if available)	Picture/ sketch/ drawing after modification				
 <p style="margin-top: 10px;">Vacuum pump running continuously for 17 hours even during lunch hour</p>	<div style="border: 1px solid black; padding: 10px; background-color: #f0f0f0; width: 80%; margin: 0 auto;"> <p>Programmed the ON/OFF cycle so that the pump runs only during the vacuum cycle and then stop till next cycle.</p> </div>				
Agency that executed the project (with complete address and email): Bolero PU maintenance					
Total investment, Rs.: Nil	Year of implementation: FY 06-07				
First year energy cost savings, Rs. :19,800/-					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	7.2				
Energy consumption after	2.25				
Energy tariff, Rs/ kWh/ Ton/ Nm³/ kL	4				
Company complete address: M/S Mahindra & Mahindra 89 MIDC Satpur Nashik -422007 Maharashtra				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: Mr. R. P. Kulkarni (Maintenance Manager –Bolero PU) Kulkarni.rajiv@mahindra.com				Signature	
				Date	