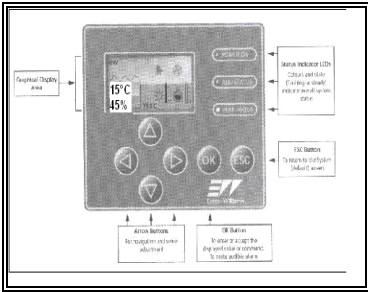
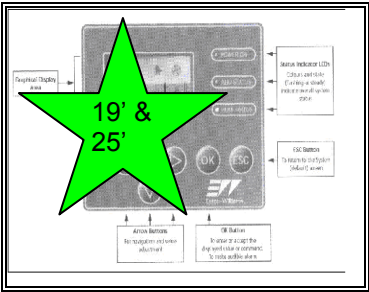


Energy Conservation Measure implemented in 2007-2008





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

ID to be filled by BEE	<u>Title of the measure</u>	Sector: Automobile			
Year to be filled by BEE	Energy Saving in Data Centre thro' optimizing the server room temperature	Technology: Optimization & Process improvements.			
<u>Description of the energy conservation measure:</u>					
<p>1. Server room temperature level increased from 15°C from 18°C, after obtaining the opinion from M/s HP.</p> <p>After obtaining the concurrence from the UPS Manufacturer, the UPS room's temperature level has been increased from 19°C to 25°C. In turn, Package air conditioners compressor running time has been brought down.</p>					
Picture/ sketch/ drawing before modification (If available):			Picture/ sketch/ drawing after modification:		
					
Server Room Temperature: 15' c UPS Room Temperature: 18' c			Server Room Temperature: 19' c UPS Room Temperature: 25' c		
Agency that executed the project (with complete address and email):					
Total investment, Rs.: Nil			Year of implementation: 2007		
First year energy cost savings, Rs.6556					
First year other savings, Rs. Nil					
On annual basis	KWh 000'	Coal (Tons)	Gas Nm³	Oil (KL)	Other
Energy consumption before	31704				
Energy consumption after	30512				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	5.5				
Company Complete Address:				We authorize Bureau to use this information for dissemination	
ASHOK LEYLAND LIMITED 175, SIPCOT INDUSTRIAL COMPLEX, HOSUR – 635 126				Signature	
Contact person who could be contacted for more information: Mr. P.SUBRAHMANYAM, Divisional Manager – Plant Engineering				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

Energy Conservation Measure implemented in 2007-2008

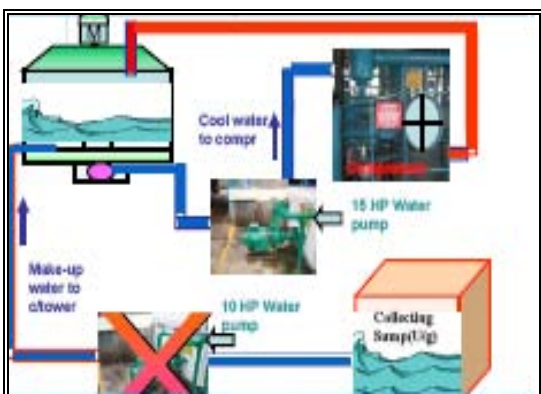
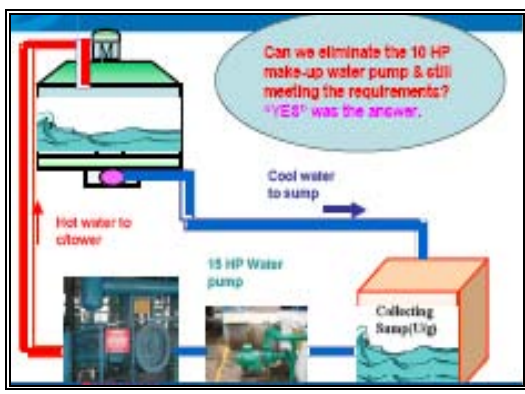
(To be filled up separately for each Energy Conservation Measure)

ID to be filled by BEE	<u>Title of the measure</u>	Sector: Automobile				
Year to be filled by BEE	Energy Saving in Data Centre thro' Precision air conditioner setup	Technology: Optimization & Process improvements.				
<u>Description of the energy conservation measure:</u> <p>1. Previously all the Four Precision Air Conditioners (34 KW x 4), where 8 hours Master rotation setup is available. Also standby unit run time is set to 2 hours, if sufficient temperature is not maintained.</p> <p>2. Setup has been changed to ONE hours Master rotation time. Also standby unit run time changed to 30 minutes instead of 2 hours. In turn, Precision air conditioners compressor running time has been brought down.</p>						
Picture/ sketch/ drawing before modification (If available):			Picture/ sketch/ drawing after modification:			
Standby unit run time is set to 2 hours						
				<div style="border: 1px solid black; background-color: yellow; padding: 5px; width: fit-content; margin: auto;">One hour's Master rotation Standby unit run time is set to 30 min</div>		
				<div style="border: 1px solid black; background-color: yellow; padding: 5px; width: fit-content; margin: auto;">8 hours Master rotation</div>		
Agency that executed the project (with complete address and email):						
Total investment, Rs.: Nil			Year of implementation: 2007			
First year energy cost savings, Rs.40953						
First year other savings, Rs. Nil						
On annual basis		KWh 000'	Coal (Tons)	Gas Nm ³	Oil (KL)	Other
Energy consumption before		29784				
Energy consumption after		22338				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...		5.5				
Company Complete Address:					We authorize Bureau to use this information for dissemination	
ASHOK LEYLAND LIMITED 175, SIPCOT INDUSTRIAL COMPLEX, HOSUR – 635 126 Contact person who could be contacted for more information: Mr. P.SUBRAHMANYAM, Divisional Manager – Plant Engineering					Signature	
					Date	

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Energy Conservation Measure implemented in 2007-2008

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

ID to be filled by BEE	<u>Title of the measure</u>	Sector: Automobile			
Year to be filled by BEE	Energy Saving by Changing water circuit in AC6 Compressor	Technology: Optimization & Process improvements.			
<u>Description of the energy conservation measure:</u>					
Makeup water pump avoided by water circuit modification in AC 6 Compressor and 10 hp pump eliminated from the Circuit.					
Picture/ sketch/ drawing before modification (If available):			Picture/ sketch/ drawing after modification:		
					
Agency that executed the project (with complete address and email):					
Total investment, Rs.: Nil			Year of implementation: 2007		
First year energy cost savings, Rs.74250					
First year other savings, Sr.: Nil					
On annual basis	KWh 000'	Coal (Tons)	Gas Nm ³	Oil (KL)	Other
Energy consumption before	27000				
Energy consumption after	13500				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	5.5				
Company Complete Address:				We authorize Bureau to use this information for dissemination	
ASHOK LEYLAND LIMITED 175, SIPCOT INDUSTRIAL COMPLEX, HOSUR – 635 126 Contact person who could be contacted for more information: Mr. P.SUBRAHMANYAM, Divisional Manager – Plant Engineering				Signature	
				Date	

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Energy Conservation Measure implemented in 2007-2008

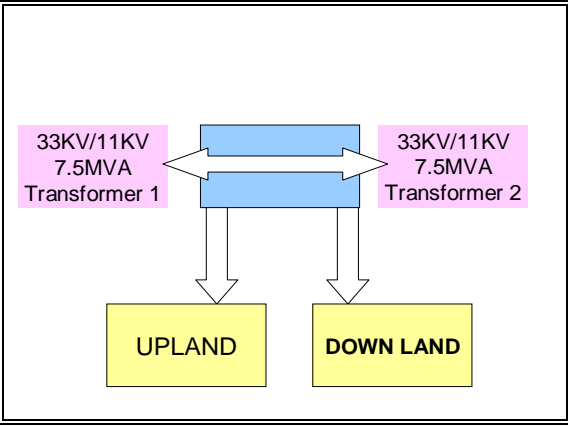
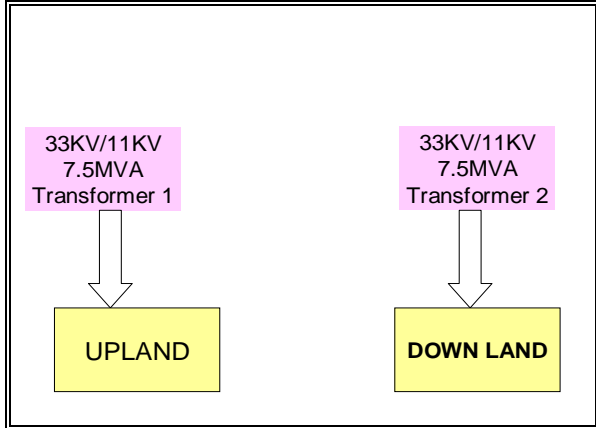
(To be filled up separately for each Energy Conservation Measure)

ID to be filled by BEE	<u>Title of the measure</u>	Sector: Automobile			
Year to be filled by BEE	Energy Saving by avoiding hot well pump in KC1 Compressor	Technology: Optimization & Process improvements.			
<u>Description of the energy conservation measure:</u>					
Energy Saving by avoiding hot well pump in KC1 Compressor					
Picture/ sketch/ drawing before modification (If available):			Picture/ sketch/ drawing after modification:		
Agency that executed the project (with complete address and email):					
Total investment, Rs.: Nil			Year of implementation: 2007		
First year energy cost savings, Rs.74250					
First year other savings, Rs. Nil					
On annual basis	KWh 000'	Coal (Tons)	Gas Nm ³	Oil (KL)	Other
Energy consumption before	24000				
Energy consumption after	10500				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	5.5				
Company Complete Address:				We authorize Bureau to use this information for dissemination	
ASHOK LEYLAND LIMITED 175, SIPCOT INDUSTRIAL COMPLEX, HOSUR – 635 126				Signature	
Contact person who could be contacted for more information: Mr. P.SUBRAHMANYAM, Divisional Manager – Plant Engineering				Date	

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Energy Conservation Measure implemented in 2007-2008



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

ID to be filled by BEE	<u>Title of the measure</u> Optimization of feed voltage by Dedicating the transformers	Sector: Automobile			
Year to be filled by BEE		Technology: Optimization & Process improvements.			
<u>Description of the energy conservation measure:</u> Optimization of feed voltage by Dedicating the transformers for upland and down land shops					
Picture/ sketch/ drawing before modification (If available):	Picture/ sketch/ drawing after modification:				
					
Agency that executed the project (with complete address and email):					
Total investment, Rs.: Nil	Year of implementation: 2007				
First year energy cost savings, Rs.100375					
First year other savings, Rs. Nil					
On annual basis	KWh 000'	Coal (Tons)	Gas Nm ³	Oil (KL)	Other
Energy consumption before	38250				
Energy consumption after	20000				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	5.5				
Company Complete Address: ASHOK LEYLAND LIMITED 175, SIPCOT INDUSTRIAL COMPLEX, HOSUR – 635 126 Contact person who could be contacted for more information: Mr. P.SUBRAHMANYAM, Divisional Manager – Plant Engineering				We authorize Bureau to use this information for dissemination Signature Date	

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Energy Conservation Measure implemented in 2007-2008



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

ID to be filled by BEE	<u>Title of the measure</u>	Sector: Automobile			
Year to be filled by BEE	Elimination of infiltration Losses using high speed fan motor	Technology Elimination of losses			
<u>Description of the energy conservation measure:</u> Elimination of infiltration energy Loss by maintaining Positive pressure in GCF Furnaces using high-speed fan motor.					
<u>Picture/ sketch/ drawing before modification</u> (If available):			<u>Picture/ sketch/ drawing after modification:</u>		
					
Agency that executed the project (with complete address and email):					
Total investment, Rs.: 8000			Year of implementation: 2007		
First year energy cost savings, Rs.66000					
First year other savings, Rs. Nil					
On annual basis	KWh 000'	Coal (Tons)	Gas Nm³	Oil (KL)	Other
Energy consumption before	342000				
Energy consumption after	330000				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	5.5				
Company Complete Address:				We authorize Bureau to use this information for dissemination	
ASHOK LEYLAND LIMITED 175, SIPCOT INDUSTRIAL COMPLEX, HOSUR – 635 126 Contact person who could be contacted for more information: Mr. P. SUBRAHMANYAM, Divisional Manager – Plant Engineering				Signature	
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Energy Conservation Measure implemented in 2007-2008

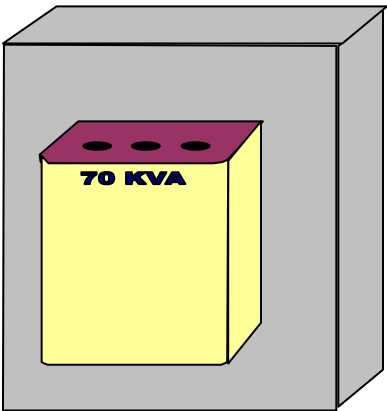
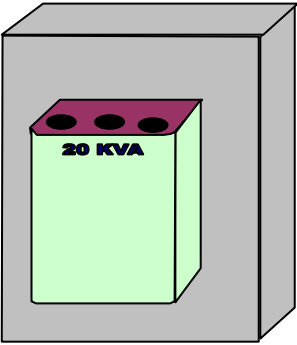
(To be filled up separately for each Energy Conservation Measure)

ID to be filled by BEE	<u>Title of the measure</u>	Sector: Automobile			
Year to be filled by BEE	Enhancement of blower efficiency by modifying air intake arrangement	Technology: Elimination of losses			
<u>Description of the energy conservation measure:</u> Shop 2 engine assembly blower efficiency was enhanced by modifying air intake arrangement from					
Picture/ sketch/ drawing before modification (If available):			Picture/ sketch/ drawing after modification:		
 <div style="background-color: yellow; padding: 5px; width: fit-content; margin: 5px auto;"> 3250cfm X 18nos Intake Filters for 90000cfm Blower </div>			 <div style="background-color: yellow; padding: 5px; width: fit-content; margin: 5px auto;"> 5000cfm X 18nos Intake Filters for 90000cfm Blower </div>		
Agency that executed the project (with complete address and email):					
Total investment, Rs.: 18000			Year of implementation: 2007		
First year energy cost savings, Rs.52800					
First year other savings, Rs. Nil					
On annual basis	KWh 000'	Coal (Tons)	Gas Nm³	Oil (KL)	Other
Energy consumption before	86400				
Energy consumption after	76800				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	5.5				
Company Complete Address:				We authorize Bureau to use this information for dissemination	
ASHOK LEYLAND LIMITED 175, SIPCOT INDUSTRIAL COMPLEX, HOSUR – 635 126 Contact person who could be contacted for more information: Mr. P.SUBRAHMANYAM, Divisional Manager – Plant Engineering				Signature	
				Date	

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Energy Conservation Measure implemented in 2007-2008

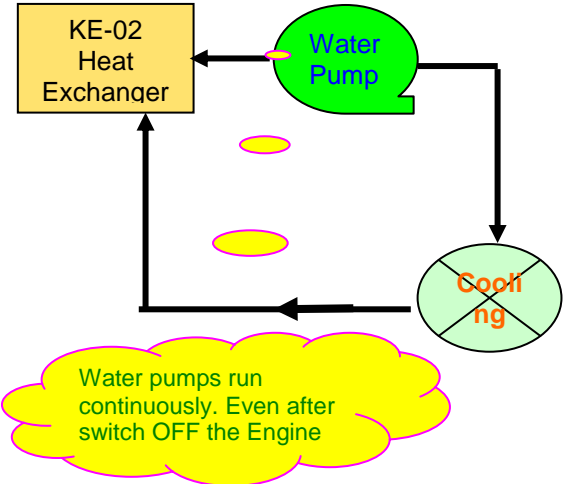
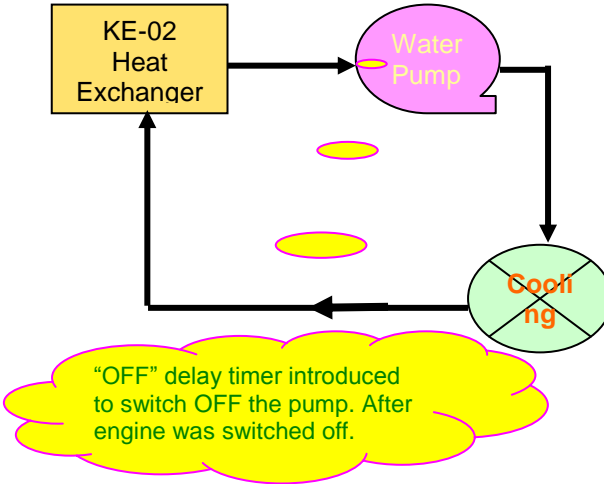
(To be filled up separately for each Energy Conservation Measure)

ID to be filled by BEE	<u>Title of the measure</u> Right sizing of transformer	Sector: Automobile			
Year to be filled by BEE		Technology: Right Sizing of transformer			
<u>Description of the energy conservation measure:</u> Shop3 LA2413 Induction hardening machine power transformer changed from 70KVA to 20KVA towards right sizing.					
Picture/ sketch/ drawing before modification (If available):			Picture/ sketch/ drawing after modification:		
					
Agency that executed the project (with complete address and email):					
Total investment, Rs.: 25000			Year of implementation: 2007		
First year energy cost savings, Rs.11000					
First year other savings, Rs. Nil					
On annual basis	KWh 000'	Coal (Tons)	Gas Nm³	Oil (KL)	Other
Energy consumption before	90000				
Energy consumption after	88000				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	5.5				
Company Complete Address: ASHOK LEYLAND LIMITED 175, SIPCOT INDUSTRIAL COMPLEX, HOSUR – 635 126 Contact person who could be contacted for more information: Mr. P.SUBRAHMANYAM, Divisional Manager – Plant Engineering				We authorize Bureau to use this information for dissemination Signature Date	

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Energy Conservation Measure implemented in 2007-2008

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

ID to be filled by BEE	<u>Title of the measure</u>	Sector: Automobile			
Year to be filled by BEE	Water-cooling circuit modification in D.G sets.	Technology:			
<u>Description of the energy conservation measure:</u>					
Water-cooling circuit modification in D.G sets.					
Picture/ sketch/ drawing before modification (If available):			Picture/ sketch/ drawing after modification:		
					
Agency that executed the project (with complete address and email):					
Total investment, Rs.: 11000			Year of implementation: 2007		
First year energy cost savings, Rs.14300					
First year other savings, Rs.					
On annual basis	KWh 000'	Coal (Tons)	Gas Nm ³	Oil (KL)	Other
Energy consumption before	25550				
Energy consumption after	22950				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	5.5				
Company Complete Address:				We authorize Bureau to use this information for dissemination	
ASHOK LEYLAND LIMITED 175, SIPCOT INDUSTRIAL COMPLEX, HOSUR – 635 126 Contact person who could be contacted for more information: Mr. P.SUBRAHMANYAM, Divisional Manager – Plant Engineering				Signature	
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Energy Conservation Measure implemented in 2007-2008



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

ID to be filled by BEE	<u>Title of the measure</u>	Sector: Automobile			
Year to be filled by BEE	Avoiding of transformer idle loss in holidays.	Technology: Elimination of Losses			
<u>Description of the energy conservation measure:</u>					
Avoiding of transformer idle loss in holidays. (1) Before 16 nos transformers in service. (2) After 8 nos transformers in service during holidays					
Picture/ sketch/ drawing before modification (If available):			Picture/ sketch/ drawing after modification:		
Agency that executed the project (with complete address and email):					
Total investment, Rs.: NIL			Year of implementation: 2007		
First year energy cost savings, Rs.184800					
First year other savings, Rs.					
On annual basis	KWh 000'	Coal (Tons)	Gas Nm ³	Oil (KL)	Other
Energy consumption before	840000				
Energy consumption after	806400				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	5.5				
Company Complete Address:				We authorize Bureau to use this information for dissemination	
ASHOK LEYLAND LIMITED 175, SIPCOT INDUSTRIAL COMPLEX, HOSUR – 635 126 Contact person who could be contacted for more information: Mr. P.SUBRAHMANYAM, Divisional Manager – Plant Engineering				Signature	
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Energy Conservation Measure implemented in 2007-2008

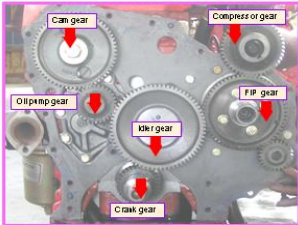
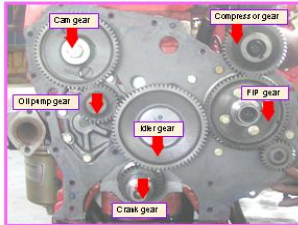
(To be filled up separately for each Energy Conservation Measure)

ID to be filled by BEE	<u>Title of the measure</u>	Sector : Automobile.			
Year to be filled by BEE	Incorporation of Low cost automation in Test bed pump motor module	Technology : Elimination of Losses			
Description of the energy conservation measure:					
Test bed Pump motor module incorporated with low cost automation to switch off 6nos 10HP motor during lunch time.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
 <div style="border: 1px solid blue; border-radius: 15px; padding: 5px; width: fit-content; margin: 10px auto;"> Test bed Pump motor modules Running Continuously </div>			 <div style="border: 1px solid blue; border-radius: 15px; padding: 5px; width: fit-content; margin: 10px auto;"> Low cost Automation incorporated to switch off during lunch hours </div>		
Agency that executed the project (with complete address and email):					
Total investment, Rs.:10000			Year of implementation:2007		
First year energy cost savings, Rs.:133650					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	388800				
Energy consumption after	364500				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	5.5				
Company Complete Address:				We authorise Bureau to use this information for dissemination	
ASHOK LEYLAND LIMITED				Signature	
175, SIPCOT INDUSTRIAL COMPLEX, HOSUR – 635 126				Date	
Contact person who could be contacted for more information: Mr. P.SUBRAHMANYAM, Divisional Manager – Plant Engineering					

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Energy Conservation Measure implemented in 2007-2008

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

ID to be filled by BEE	<u>Title of the measure</u>	Sector: Automobile.			
Year to be filled by BEE	Energy saving substituting the Raw material for H series Timing Gear	Technology : Energy saving thro' alternate Raw material			
Description of the energy conservation measure: Raw material for manufacturing of timing gears(EURO 1 & 2 Models) changed from EN 353 – BS 970 to 16MNCR 5 – DIN 17200 . Iso annealing process eliminated.					
Picture/ sketch/ drawing before modification (if available)		Picture/ sketch/ drawing after modification			
<div style="background-color: #0056b3; color: white; padding: 5px; text-align: center; font-weight: bold;">INFORMATION PHASE</div> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> Application & Function of Timing Gears  <p style="font-size: small; text-align: center;">Timing gears – 6 Nos per set of Engine</p> <div style="border: 1px solid black; border-radius: 15px; padding: 10px; margin-top: 10px; background-color: #fce4ec;"> Raw material: EN 353 – BS 970 Iso annealing required </div> </div>		<div style="background-color: #0056b3; color: white; padding: 5px; text-align: center; font-weight: bold;">INFORMATION PHASE</div> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> Application & Function of Timing Gears  <p style="font-size: small; text-align: center;">Timing gears – 6 Nos per set of Engine</p> <div style="border: 1px solid black; border-radius: 15px; padding: 10px; margin-top: 10px; background-color: #e8f5e9;"> Raw material : 16MNCR 5 – DIN 17200 Iso annealing process not required </div> </div>			
Agency that executed the project (with complete address and email):					
Total investment, Rs.:Nil		Year of implementation:2007			
First year energy cost savings, Rs.1,16,000					
First year other savings, Rs.:104 lacs					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	42000				
Energy consumption after	21000				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	5.5				
Company Complete Address: ASHOK LEYLAND LIMITED 175, SIPCOT INDUSTRIAL COMPLEX, HOSUR – 635 126 Contact person who could be contacted for more information: Mr. P.SUBRAHMANYAM, Divisional Manager – Plant Engineering				We authorise Bureau to use this information for dissemination Signature Date	

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Energy Conservation Measure implemented in 2007-2008

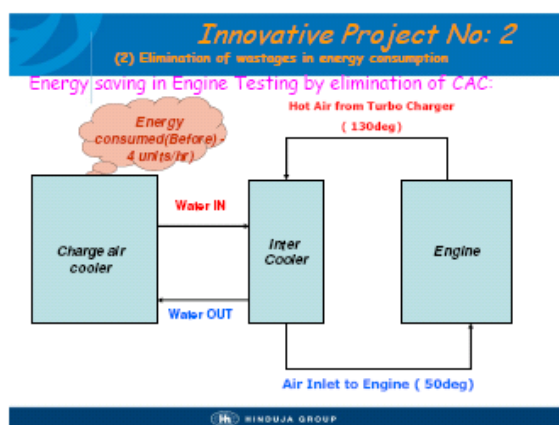
(To be filled up separately for each Energy Conservation Measure)

ID to be filled by BEE	<u>Title of the measure</u>	Sector: Automobile.
Year to be filled by BEE	Elimination of Charge Air-cooling unit	Technology : Heat recovery

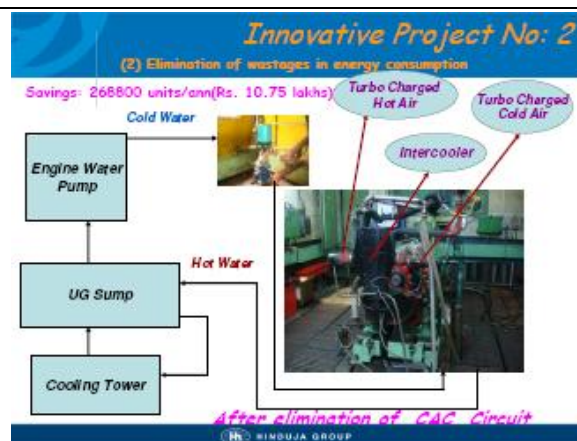
Description of the energy conservation measure:

Charge air cooling unit in Engine test bed was eliminated and the waste heat from engine water recovered and utilized for the same.

Picture/ sketch/ drawing before modification
(if available)



Picture/ sketch/ drawing after modification



Agency that executed the project (with complete address and email):

Total investment, Rs.: 40000

Year of implementation: 2007

First year energy cost savings, Rs. 66000

First year other savings, Rs.:

On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	36000				
Energy consumption after	24000				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	5.5				

Company Complete Address:

ASHOK LEYLAND LIMITED

175, SIPCOT INDUSTRIAL COMPLEX,
HOSUR – 635 126

Contact person who could be contacted for more information:

Mr. P.SUBRAHMANYAM, Divisional Manager – Plant Engineering

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Signature

Date

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