


## Energy Conservation Measure implemented in 2007-2008


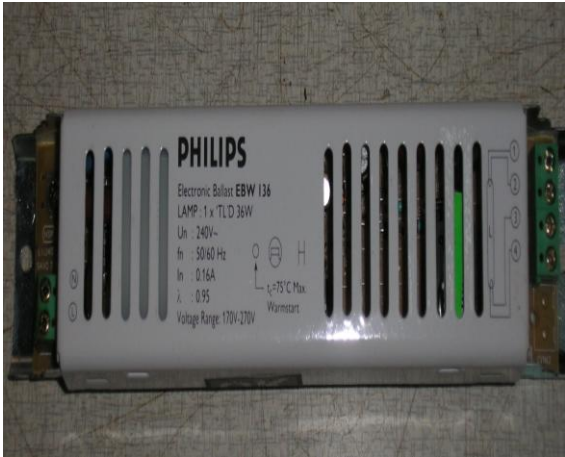
(To be filled up separately for each Energy Conservation Measure)

ID to be filled by BEE	Title of the measure	Sector .....GENERAL.....			
Year to be filled by BEE	<b><u>Replacement of 15 watts IC lamps in control panel of machinery and plants with modular LED indication lamps of 0.5 watts – Phase III</u></b>	Technology .....			
Description of the energy conservation measure:					
<b>Replacement of 800 nos. of 15 watts IC lamps in control panel of machinery and plants with modular LED indication lamps of 0.5 watts – Phase III</b>					
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.: 1.60 Lakhs			Year of implementation: 2007-08		
First year energy cost savings, Rs.: 4.42 Lakhs					
First year other savings, Rs.: 2.82 Lakhs (2006-07)					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	91.51	-	-	-	-
Energy consumption after	3.05	-	-	-	-
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	5	-	-	-	-
Company complete address: <b>INTEGRAL COACH FACTORY, PERAMBUR, ICF P.O CHENNAI – 600038.</b>				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: <b>SHRI.S.RAJAMURUGAN, DY.CEE/C.</b>				Signature	
				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	Title of the measure <b><u>Replacement of Conventional chokes with electronic ballast in fluorescent light fittings in administrative buildings, service buildings, colonies and hospital. – Phase II</u></b>	Sector ...GENERAL.....			
Year to be filled by BEE		Technology .....			
Description of the energy conservation measure:  <b>Replacement of 300 nos. of Conventional chokes with electronic ballast in fluorescent light fittings in administrative buildings, service buildings, colonies and hospital. – Phase II</b>					
<b>Picture/ sketch/ drawing before modification</b> (if available)	<b>Picture/ sketch/ drawing after modification</b>				
					
Agency that executed the project (with complete address and email):					
Total investment, Rs.: 0.90 Lakhs	Year of implementation: 2007-08				
First year energy cost savings, Rs.: 0.87 Lakhs					
First year other savings, Rs.: 0.03					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	43.719	-	-	-	-
Energy consumption after	26.294	-	-	-	-
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	5	-	-	-	-
Company complete address: <b>INTEGRAL COACH FACTORY,                  PERAMBUR,                  ICF P.O                  CHENNAI – 600038</b>				We authorise Bureau to use this information for dissemination  Signature  Date	
Contact person who could be contacted for more information: <b>SHRI.S.RAJAMURUGAN, DY.CEE/C</b>					



## Energy Conservation Measure implemented in 2007-2008

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

ID to be filled by BEE	Title of the measure <b><u>Replacement of 36 watts / 40 watts fluorescent lamps by energy efficient 28 watts T5 lamps in administrative buildings, service buildings, substations and hospital – Phase III</u></b>	Sector ...GENERAL.....			
Year to be filled by BEE		Technology .....			
Description of the energy conservation measure:  <b>Replacement of 420 nos. of 36 watts / 40 watts fluorescent lamps by energy efficient 28 watts T5 lamps in administrative buildings, service buildings, substations and hospital. – Phase III.</b>					
<b>Picture/ sketch/ drawing before modification</b> (if available)	<b>Picture/ sketch/ drawing after modification</b>				
					
Agency that executed the project (with complete address and email):					
Total investment, Rs.: 2.73 Lakhs	Year of implementation: 2007-08				
First year energy cost savings, Rs.: 1.20 Lakhs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	0.61	-	-	-	-
Energy consumption after	0.37	-	-	-	-
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	5	-	-	-	-
Company complete address: <b>INTEGRAL COACH FACTORY, PERAMBUR, ICF P.O CHENNAI – 600038</b>				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: <b>SHRI.S.RAJAMURUGAN, DY.CEE/C</b>				Signature	
				Date	



## Energy Conservation Measure implemented in 2007-2008

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

ID to be filled by BEE	Title of the measure <b><u>Replacement of 60 watts IC lamps with 11 watts CFL in machines – Phase II.</u></b>	Sector .....GENERAL.....			
Year to be filled by BEE		Technology .....			
Description of the energy conservation measure:  <b>Replacement of 50 nos. of 60 watts IC lamps with 11 watts CFL in machines – Phase II.</b>					
<b>Picture/ sketch/ drawing before modification</b> (if available)			<b>Picture/ sketch/ drawing after modification</b>		
					
Agency that executed the project (with complete address and email):					
Total investment, Rs.: 0.06 Lakhs			Year of implementation: 2007-08		
First year energy cost savings, Rs.: 0.52 Lakhs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	0.13	-	-	-	-
Energy consumption after	0.02	-	-	-	-
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	5	-	-	-	-
Company complete address: <b>INTEGRAL COACH FACTORY, PERAMBUR, ICF P.O CHENNAI – 600038</b>				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: <b>SHRI.S.RAJAMURUGAN, DY.CEE/C</b>				Signature	
				Date	


## Energy Conservation Measure implemented in 2007-2008

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

ID to be filled by BEE	Title of the measure <b><u>Replacement of 60 watts IC lamps with 11 watts CFL in all stair cases of colonies – Phase III.</u></b>	Sector .....GENERAL.....			
Year to be filled by BEE		Technology .....			
Description of the energy conservation measure:  <b>Replacement of 100 nos. of 60 watts IC lamps with 11 watts CFL in all stair cases of colonies – Phase III.</b>					
<b>Picture/ sketch/ drawing before modification</b> (if available)	<b>Picture/ sketch/ drawing after modification</b>				
					
Agency that executed the project (with complete address and email):					
Total investment, Rs.: 0.50 Lakhs	Year of implementation: 2007-08				
First year energy cost savings, Rs.: 1.07 Lakhs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	26.28	-	-	-	-
Energy consumption after	4.8	-	-	-	-
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	5	-	-	-	-
Company complete address: <b>INTEGRAL COACH FACTORY, PERAMBUR, ICF P.O CHENNAI – 600038</b>				We authorise Bureau to use this information for dissemination	
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				Date	


## Energy Conservation Measure implemented in 2007-2008

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

ID to be filled by BEE	Title of the measure <b><u>Replacement of 300 watts IC lamps by 150 watts metal halide lamps inside factory – Phase III.</u></b>	Sector ...GENERAL.....			
Year to be filled by BEE		Technology .....			
Description of the energy conservation measure:  <b>Replacement of 400 nos. of 300 watts IC lamps by 150 watts metal halide lamps inside factory – Phase III.</b>					
<b>Picture/ sketch/ drawing before modification</b> (if available)			<b>Picture/ sketch/ drawing after modification</b>		
					
Agency that executed the project (with complete address and email):					
Total investment, Rs.: 10.00 Lakhs			Year of implementation: 2007-08		
First year energy cost savings, Rs.: 5.7 Lakhs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	253.440	-	-	--	-
Energy consumption after	139.392	-	-	-	-
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	5	-	-	-	-
Company complete address: <b>INTEGRAL COACH FACTORY, PERAMBUR, ICF P.O CHENNAI – 600038</b>				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: <b>SHRI.S.RAJAMURUGAN, DY.CEE/C</b>				Signature  Date	



## Energy Conservation Measure implemented in 2007-2008

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

ID to be filled by BEE	Title of the measure <b><u>Replacement of conventional fan regulators with electronic regulators in administrative buildings and colonies.</u></b>	Sector .....GENERAL.....			
Year to be filled by BEE		Technology .....			
Description of the energy conservation measure:  <b>Replacement of 2300 nos. of conventional fan regulators with electronic regulators in administrative buildings and colonies.</b>					
<b>Picture/ sketch/ drawing before modification</b> (if available)	<b>Picture/ sketch/ drawing after modification</b>				
					
Agency that executed the project (with complete address and email):					
Total investment, Rs.: 3.45 Lakhs	Year of implementation: 2007-08				
First year energy cost savings, Rs.: 3.44 Lakhs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	895.28	-	-	-	-
Energy consumption after	826.41	-	-	-	-
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	5	-	-	-	-
Company complete address: <b>INTEGRAL COACH FACTORY, PERAMBUR, ICF P.O CHENNAI – 600038</b>				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: <b>SHRI.S.RAJAMURUGAN, DY.CEE/C</b>				Signature	
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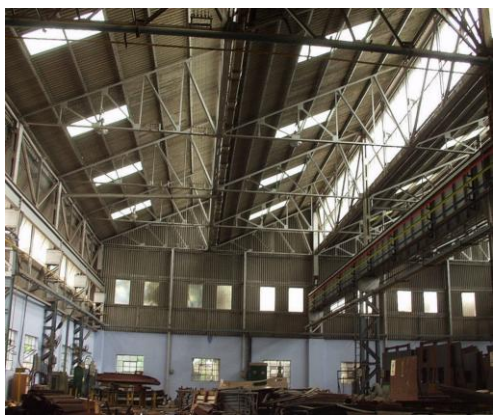
## Energy Conservation Measure implemented in 2007-2008

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

ID to be filled by BEE	Title of the measure  <b><u>APFC panel in LT distribution networks provided in place of manual switching capacitor bank in substations – Phase II.</u></b>	Sector ...GENERAL.....			
Year to be filled by BEE		Technology .....			
Description of the energy conservation measure:  <b>3 nos. of APFC panel in LT distribution networks provided in place of manual switching capacitor bank in substations – Phase II.</b>					
<b>Picture/ sketch/ drawing before modification</b> (if available)	<b>Picture/ sketch/ drawing after modification</b>				
					
Agency that executed the project (with complete address and email):					
Total investment, Rs.: 6.00 Lakhs	Year of implementation: 2007-08				
First year energy cost savings, Rs.: 6.00 Lakhs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before					
Energy consumption after					
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...					
Company complete address: <b>INTEGRAL COACH FACTORY, PERAMBUR, ICF P.O CHENNAI – 600038</b>				We authorise Bureau to use this information for dissemination	
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				Date	



## Energy Conservation Measure implemented in 2007-2008

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

ID to be filled by BEE	Title of the measure <b><u>Provision of natural lighting inside Shop floor.</u></b>	Sector ...GENERAL.....			
Year to be filled by BEE		Technology .....			
Description of the energy conservation measure:  <b>Provision of natural lighting inside Shop floor</b>					
<b>Picture/ sketch/ drawing before modification</b> (if available)			<b>Picture/ sketch/ drawing after modification</b>		
					
Agency that executed the project (with complete address and email):					
Total investment, Rs.: 10.00 Lakhs			Year of implementation: 2007-08		
First year energy cost savings, Rs.: 1.43 Lakhs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	114.05				
Energy consumption after	85.54				
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...					
Company complete address: <b>INTEGRAL COACH FACTORY, PERAMBUR, ICF P.O CHENNAI – 600038</b>				We authorise Bureau to use this information for dissemination	
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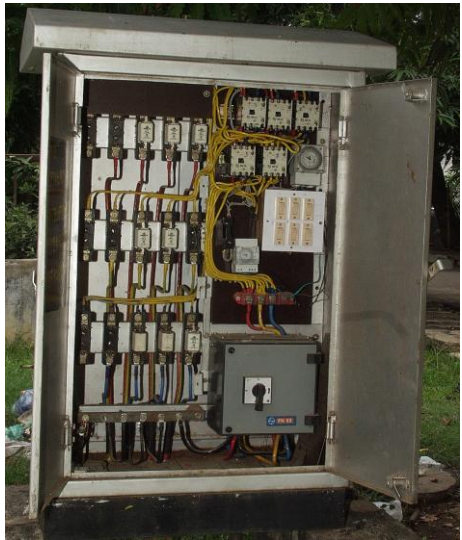
## Energy Conservation Measure implemented in 2007-2008

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

ID to be filled by BEE	Title of the measure <b><u>Provision of Solar water heater in place of water geysers.</u></b>	Sector ...GENERAL.....			
Year to be filled by BEE		Technology .....			
Description of the energy conservation measure:  <b>Provision of ONE no. of Solar water heater in place of water geysers.</b>					
<b>Picture/ sketch/ drawing before modification</b> (if available)	<b>Picture/ sketch/ drawing after modification</b>				
					
Agency that executed the project (with complete address and email):					
Total investment, Rs.: 0.50 Lakhs	Year of implementation: 2007-08				
First year energy cost savings, Rs.: 0.45 Lakhs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	9.504	-	-	-	-
Energy consumption after	0.528	-	-	-	-
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	5	-	-	-	-
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Contact person who could be contacted for more information: <b>SHRI.S.RAJAMURUGAN, DY.CEE/C</b>				Signature	
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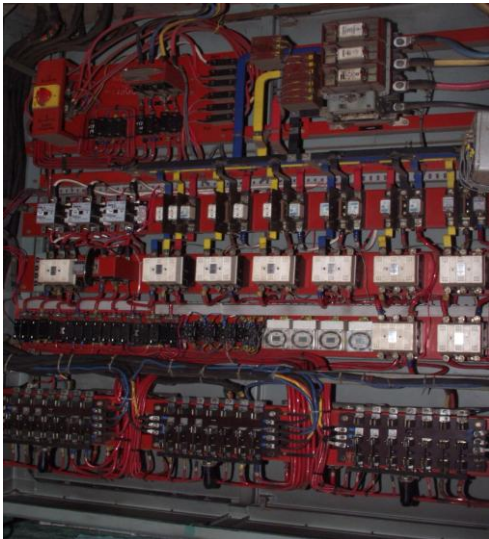
## Energy Conservation Measure implemented in 2007-2008

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

ID to be filled by BEE	Title of the measure <b><u>Provision of lighting control panel with timers in colonies.</u></b>	Sector ...GENERAL.....			
Year to be filled by BEE		Technology .....			
Description of the energy conservation measure: <b>Provision of 20 nos.of timers for lighting control panel in colonies</b>					
<b>Picture/ sketch/ drawing before modification</b> (if available)	<b>Picture/ sketch/ drawing after modification</b>				
					
Agency that executed the project (with complete address and email):					
Total investment, Rs.: 6.00 Lakhs	Year of implementation: 2007-08				
First year energy cost savings, Rs.: 1.00 Lakhs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before					
Energy consumption after					
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...					
Company complete address: <b>INTEGRAL COACH FACTORY, PERAMBUR, ICF P.O CHENNAI – 600038</b>				We authorise Bureau to use this information for dissemination  Signature  Date	
Contact person who could be contacted for more information: <b>SHRI.S.RAJAMURUGAN, DY.CEE/C</b>					


## Energy Conservation Measure implemented in 2007-2008

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

ID to be filled by BEE	Title of the measure  <b><u>Switching OFF of air circulators during non-working hours inside the factory – Phase III.</u></b>	Sector ...GENERAL.....			
Year to be filled by BEE		Technology .....			
Description of the energy conservation measure:  <b>Switching OFF of 500 nos. of air circulators during non-working hours inside the factory – Phase III.</b>					
<b>Picture/ sketch/ drawing before modification</b> (if available)	<b>Picture/ sketch/ drawing after modification</b>				
					
Agency that executed the project (with complete address and email):					
Total investment, Rs.: 4.00 Lakhs		Year of implementation: 2007-08			
First year energy cost savings, Rs.: 6.40 Lakhs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	3278.880	-	-	-	-
Energy consumption after	1995.840	-	-	-	-
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	5	-	-	-	-
Company complete address: <b>INTEGRAL COACH FACTORY, PERAMBUR, ICF P.O CHENNAI – 600038</b>				We authorise Bureau to use this information for dissemination	
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				Date	


## Energy Conservation Measure implemented in 2007-2008

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

ID to be filled by BEE	Title of the measure  <b><u>Replacement of overaged LT distribution transformer with LASER core transformer – Phase III.</u></b>	Sector ...GENERAL.....			
Year to be filled by BEE		Technology .....			
Description of the energy conservation measure:  <b>Replacement of 3 nos.of overaged LT distribution transformer with LASER core transformer – Phase III.</b>					
<b>Picture/ sketch/ drawing before modification</b> (if available)	<b>Picture/ sketch/ drawing after modification</b>				
					
Agency that executed the project (with complete address and email):					
Total investment, Rs.: 18.00 Lakhs	Year of implementation: 2007-08				
First year energy cost savings, Rs.: 2.36 Lakhs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	265.5	-	-	-	-
Energy consumption after	207.0	-	-	-	-
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	5	-	-	-	-
Company complete address: <b>INTEGRAL COACH FACTORY, PERAMBUR, ICF P.O CHENNAI – 600038</b>				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: <b>SHRI.S.RAJAMURUGAN, DY.CEE/C</b>				Signature	
				Date	

## Energy Conservation Measure implemented in 2007-2008

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

ID to be filled by BEE	Title of the measure <b><u>Provision of Turbine air ventilators in workshop rooftops in place of roof exhaust fans.</u></b>	Sector ...GENERAL.....			
Year to be filled by BEE		Technology .....			
Description of the energy conservation measure:  <b>Provision of Turbine air ventilators in workshop rooftops in place of roof exhaust fans</b>					
<b>Picture/ sketch/ drawing before modification</b> (if available)			<b>Picture/ sketch/ drawing after modification</b>		
					
Agency that executed the project (with complete address and email):					
Total investment, Rs.: 1.50 Lakhs			Year of implementation: 2007-08		
First year energy cost savings, Rs.: 1.26 Lakhs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before					
Energy consumption after					
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...					
Company complete address: <b>INTEGRAL COACH FACTORY, PERAMBUR, ICF P.O CHENNAI – 600038</b>				We authorise Bureau to use this information for dissemination	
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				Date	

## Energy Conservation Measure implemented in 2007-2008

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

ID to be filled by BEE	Title of the measure  <b><u>Replacement of plugging type brakes by DC injection type brakes in 6 nos. of 9C lathes.</u></b>	Sector ...GENERAL.....			
Year to be filled by BEE		Technology .....			
Description of the energy conservation measure:  <b>Replacement of plugging type brakes by DC injection type brakes in 6 nos. of 9C lathes.</b>					
<b>Picture/ sketch/ drawing before modification</b> (if available)	<b>Picture/ sketch/ drawing after modification</b>				
Agency that executed the project (with complete address and email):					
Total investment, Rs.: 3.53 Lakhs	Year of implementation: 2007-08				
First year energy cost savings, Rs.: 1.67 Lakhs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	39.283	-	-	-	-
Energy consumption after	5.804	-	-	-	-
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	5	-	-	-	-
Company complete address: <b>INTEGRAL COACH FACTORY, PERAMBUR, ICF P.O CHENNAI – 600038</b>				We authorise Bureau to use this information for dissemination	
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