


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 Replace Copper Choke by Electronic Ballast	Sector : Automobile			
Year to be filled by BEE		Technology			
Description of the energy conservation measure: In Administrative office, CFL Lamp fittings, working with Copper choke were replaced with Electronic Ballast					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
CFL with Copper Chokes – 35 nos.					
Agency that executed the project (with complete address and email): Internal					
Total investment, Rs.: 15750			Year of implementation: 2007-08		
First year energy cost savings, Rs.: 5250					
First year other savings, Rs.: Nil					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	6.0				
Energy consumption after	4.2				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	Rs.5.1/K wh				
Company complete address: IP Rings Ltd. D11/D12, Industrial Estate, Maraimalai Nagar – 603 209.				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: P.Gopalakrishnan				Signature Date	

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ID to be filled by BEE	Title of the measure	Sector : Automobile			
Year to be filled by BEE	Automatic Power factor correction unit installation	Technology			
Description of the energy conservation measure:					
Fixed capacitor were used for PF correction in the Load centre and replaced by APFC unit to maintain unity power-factor to avail incentive from EB.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Fixed Capacitor at six locations			Dedicated APFC at six locations		
Agency that executed the project (with complete address and email): Internal					
Total investment, Rs.: 28800			Year of implementation: 2007-08		
First year energy cost savings, Rs.: 150000					
First year other savings, Rs.: Nil					
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: IP Rings Ltd. D11/D12, Industrial Estate, Maraimalai Nagar – 603 209.				We authorise Bureau to use this information for dissemination	
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P.Gopalakrishnan					
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ID to be filled by BEE	Title of the measure		Sector : Automobile		
Year to be filled by BEE	To interlock air pump in Lapping machine		Technology		
Description of the energy conservation measure:					
In Lapping machine, diaphragm air pump was working during machine idle time and lunch time. By interlocking the pump with the machine, the air loss and hence the power loss is minimized in 5 locations					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
<div style="border: 1px solid black; padding: 5px; width: 80%; margin: auto;"> <p>Diaphragm pump working all the time even when the machine was not loaded with products</p> <p>Loss of Power</p> </div>			<div style="border: 1px solid black; padding: 5px; width: 80%; margin: auto;"> <p>Diaphragm pump interlocked with the lapping machines</p> <p>Loss of Power is minimized</p> </div>		
Agency that executed the project (with complete address and email): Internal					
Total investment, Rs.: 10000			Year of implementation: 2007-08		
First year energy cost savings, Rs.: 34500					
First year other savings, Rs.: Nil					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other Air
Energy consumption before					120 CFM
Energy consumption after					0 CFM
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...					Rs.5.1/Kwh
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P.Gopalakrishnan				Date	

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ID to be filled by BEE	Title of the measure Auto temperature control for Water cooler	Sector : Automobile			
Year to be filled by BEE		Technology			
Description of the energy conservation measure: In Drinking water cooler, Digital temperature controller provided instead of conventional Thermostat for better control in 5 locations					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;"> Thermostat to control the water cooler temperature Variation in temp. is 5` C </div>			<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;"> Digital Temperature Controller fixed Variation in temp. is 2` C </div>		
Agency that executed the project (with complete address and email): Internal					
Total investment, Rs.: 15000			Year of implementation: 2007-08		
First year energy cost savings, Rs.: 18333					
First year other savings, Rs.: Nil					
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 ...	Rs.5.1/K wh				
Company complete address: IP Rings Ltd. D11/D12, Industrial Estate, Maraimalai Nagar – 603 209.				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: P.Gopalakrishnan				Signature Date	

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ID to be filled by BEE	Title of the measure Optimise voltage distribution		Sector : Automobile		
Year to be filled by BEE			Technology		
Description of the energy conservation measure: In Chrome plating section, improper joints in bus bar results in power loss. To eliminate power loss In each bus bar joint, bolts and nuts are replaced periodically as per the maintenance plan					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Loose bolts & nuts resulted in power loss			Preventive maint. Plan to replace bolts & nuts		
Agency that executed the project (with complete address and email): Internal					
Total investment, Rs.: 50000			Year of implementation: 2007-08		
First year energy cost savings, Rs.:					
First year other savings, Rs.: Nil					
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 ...	Rs.5.1/K wh				
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ID to be filled by BEE	Title of the measure	Sector : Automobile			
Year to be filled by BEE	Optimise compressed air pressure setting	Technology			
Description of the energy conservation measure:					
<p>In Air Compressor, the pressure setting was 5.8kg/cm². By conducting air leakage audits at regular intervals and taking corrective action, the pressure setting optimized to 5.6kg/cm² to save power. Air Pressure requirement for the machines was 5 bar.</p>					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
			<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;"> Air leakage audit at regular Intervals. Leakages minimized </div>		
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;"> Air leakages leads to Higher setting of the air pressure (5.8 kg/cm²) </div>			<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;"> Setting of the air pressure optimized to 5.6 kg/cm² </div>		
Agency that executed the project (with complete address and email): Internal					
Total investment, Rs.: 0			Year of implementation: 2007-08		
First year energy cost savings, Rs.: 6000					
First year other savings, Rs.: Nil					
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 ...	Rs.5.1/K wh				
Company complete address: IP Rings Ltd. D11/D12, Industrial Estate, Maraimalai Nagar – 603 209.				We authorise Bureau to use this information for dissemination	
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ID to be filled by BEE	Title of the measure Interlocking of Machine accessories	Sector : Automobile			
Year to be filled by BEE		Technology			
Description of the energy conservation measure: In many machines, machine and its accessories are running independently which are interlocked with main machine					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;"> <p>Accessories were running even when the machines were not running</p> <p>Loss of Power</p> </div>			<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;"> <p>Accessories were interlocked with machines in 10 locations</p> <p>Power loss minimized</p> </div>		
Agency that executed the project (with complete address and email): Internal					
Total investment, Rs.: 5000			Year of implementation: 2007-08		
First year energy cost savings, Rs.: 25000					
First year other savings, Rs.: Nil					
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 ...	Rs.5.1/K wh				
Company complete address: IP Rings Ltd. D11/D12, Industrial Estate, Maraimalai Nagar – 603 209.				We authorise Bureau to use this information for dissemination	
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