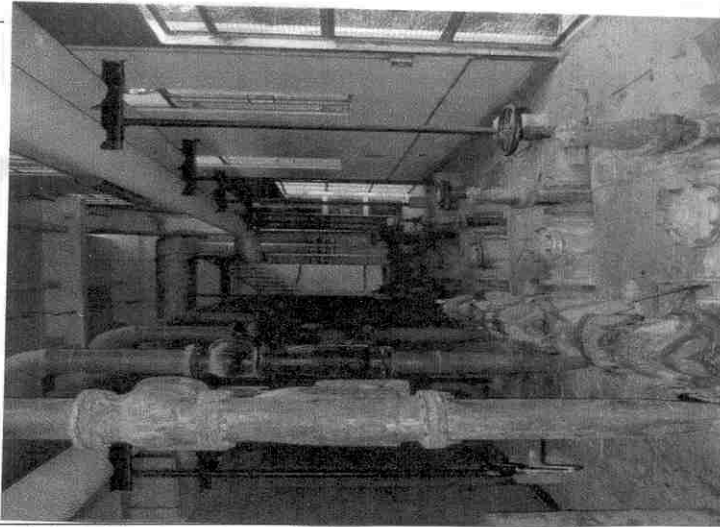



## Energy Conservation Measure implemented in 2007-2008

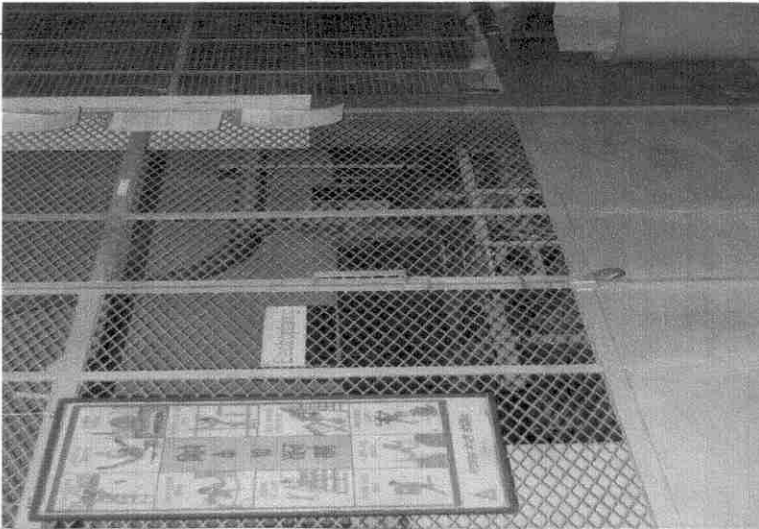

(To be filled up separately for each Energy Conservation Measure)

ID to be filled by BEE	Title of the measure	Sector : <b>GENERAL</b>			
Year to be filled by BEE	Recycling of Condenser pipe line in Central air-conditioning Plant	Technology <b>TELECOM</b>			
<p>Description of the energy conservation measure:  <i>The seven nos. of Condenser water pumps have 18-M delivery. The 02 nos. chillers out of 7x590 TR Central Air-conditioning plant needs to operate 04 nos. of Condenser pumps in parallel. Due to scale formation inside the pipes, condenser pumps water flow adversely effected.</i></p> <p><i>After recycling / removing the scale formed in the pipelines, the water flow rate improved to carry the efficient cooling water at cooling tower end. Thus, the energy saved to operate 02/03 nos. of condenser water pumps to meet out the 02 nos. Chillers requirement.</i></p>					
<b>Picture/ sketch/ drawing before modification</b> (if available)		<b>Picture/ sketch/ drawing after modification</b>			
NOT AVAILABLE					
Agency that executed the project (with complete address and email): In house team					
Total investment, Rs.: 01.25 Lac			Year of implementation: 2007-08		
First year energy cost savings, Rs.: 6.55 Lac					
First year other savings, Rs.: NIL					
On annual basis	lakhs kWh	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	6.93				
Energy consumption after	5.61				
Energy tariff, Rs/ kWh	5.00				
Company complete address: Work executed by in-house team with assistance of local working contractor.				We authorise Bureau to use this information for dissemination   Signature  Date 22/10/08	
Contact person who could be contacted for more information: P.N.JHA Energy Manager/Energy Auditor vksingh_mkp@itilttd.co.in					

**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.

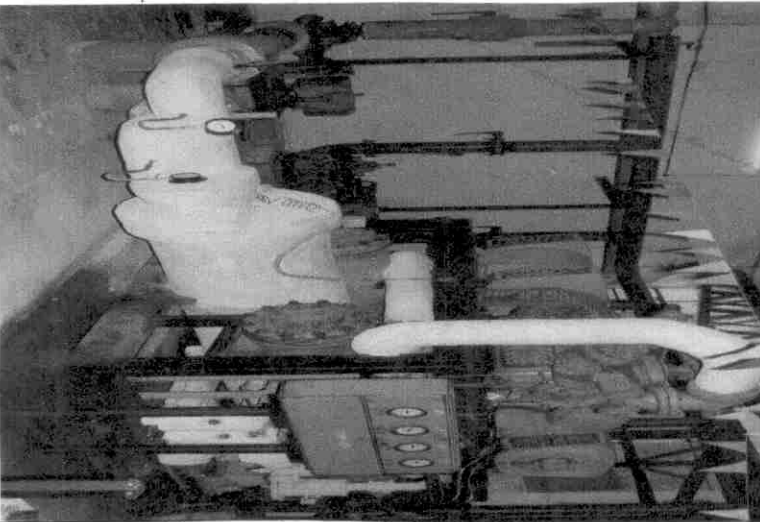

### Energy Conservation Measure implemented in 2007-2008

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

ID to be filled by BEE	Title of the measure <b>Sale of Etching effluent &amp; Gold of Gliding line after eliminating the treatment / operation process</b>	Sector : <b>GENERAL</b>
Year to be filled by BEE		Technology : <b>TELECOM</b>
<p>Description of the energy conservation measure:  <i>The Unit has pride giant circuit division for high-tech precision process. The division has ISO-14000 towards environment and working culture. In Component Division, the Treatment shop has imported Gliding/ Anodizing and Zinc plating lines dedicated for streamline production.</i></p> <p><i>The Etching process is an essential operation for manufacturing professional grade PCB's. The bath and main etching stream line effluent collected in the tank and sold. Similarly the Gliding line process eliminated in manufacturing. The electricity used in treatment and Scrubbing system was saved.</i></p>		
Picture/ sketch/ drawing before modification (if available)	Picture/ sketch/ drawing after modification	
NOT AVAILABLE		
Agency that executed the project (with complete address and email): In house team		
Total investment, Rs.: 0.32 Lac		Year of implementation: 2007-08
First year energy cost savings, Rs.: 02.03 Lac		
First year other savings, Rs.: 32.00 Lac		
On annual basis	lakhs kWh	Coal (Tons)
Energy consumption before	0.486	
Energy consumption after	0.080	
Energy tariff, Rs/ kWh	5.00	
Company complete address: Minor modification work executed by in-house team with assistance of local working contractor.		We authorize Bureau to use this information for dissemination   Signature  Date 22/10/08
Contact person who could be contacted for more information: P.N.JHA Energy Manager/Energy Auditor vksingh_mkp@itilttd.co.in		

**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.**

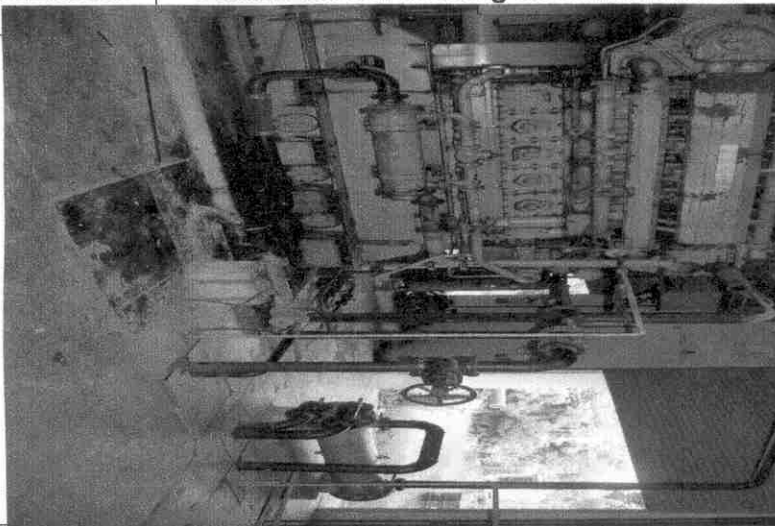
**Energy Conservation Measure implemented in 2007-2008**  
(To be filled up separately for each Energy Conservation Measure)

ID to be filled by BEE	Title of the measure		Sector : GENERAL		
Year to be filled by BEE	Replacement of damaged insulation of Chilled Water Plant		Technology TELECOM		
Description of the energy conservation measure: To meet out the Central air-conditioning demand, normally the 04 nos. of Chilled Water Pumps operate in parallel mode for two chillers. The Chilled /Filter water is also a part of different shop's operation process requirement like HCB, Molding and plating/ treatment line.  After repairing /replacement of damaged insulation in the distribution piping network resulted energy saving by maintaining temperature of Chilled /Filter water to end user and returning.					
Picture/ sketch/ drawing before modification (if available)		Picture/ sketch/ drawing after modification			
NOT AVAILABLE					
Agency that executed the project (with complete address and email): In house team					
Total investment, Rs.: 0.80 Lac			Year of implementation: 2007-08		
First year energy cost savings, Rs.: 3.45 Lac					
First year other savings, Rs.: NIL					
On annual basis	lakhs kWh	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	2.80				
Energy consumption after	2.11				
Energy tariff, Rs/ kWh	5.00				
Company complete address: Work executed by in-house team with assistance of engaged local working contractor.				We authorise Bureau to use this information for dissemination   Signature	
Contact person who could be contacted for more information: P.N.JHA Energy Manager/Energy Auditor vksingh_mkp@itilttd.co.in				Date 22/10/08	

**Note:** Please submit this sheet separately for each Energy Conservation Measure implemented in 2007-2008 and a CD containing the above information may 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		Sector : GENERAL		
Year to be filled by BEE	Recycling /cleaning of Heat Exchanger & Oil Coolers of Captive Power Plant.		Technology TELECOM		
<p>Description of the energy conservation measure:  <i>The 5x1450 KVA 'YANMAR-TOYODENKI' Japan make Captive Power Plant are operating as standby power support for production activities. The Raw water used for Lub.oil cooling and engine cooling. The heat exchangers deteriorate due to scale formation at inner diameter of the copper tubes. The effective efficiency reduced.</i></p> <p><i>After recycling / removing the scale formed in the heat-exchangers and oil coolers of each DG set made more effective efficient working of the cooling system of the engines.</i></p>					
<b>Picture/ sketch/ drawing before modification</b> (if available)			<b>Picture/ sketch/ drawing after modification</b>		
NOT AVAILABLE					
Agency that executed the project (with complete address and email): In house team					
Total investment, Rs.: 00.25 Lac			Year of implementation: 2007-08		
First year energy cost savings, Rs.: 0.85 Lac					
First year other savings, Rs.: NIL					
On annual basis	lakhs kWh	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	0.42				
Energy consumption after	0.25				
Energy tariff, Rs/ kWh	5.00				
Company complete address: Work executed by in-house team after purchasing the necessary recommended chemical for removing /recycling the scale formation due to raw water impurities.				We authorise Bureau to use this information for dissemination  Signature  Date	
Contact person who could be contacted for more information: P.N.JHA Energy Manager/Energy Auditor vksingh_mkp@itilttd.co.in					

**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		Sector : GENERAL		
Year to be filled by BEE	Specific Energy monitoring of every division.		Technology TELECOM		
Description of the energy conservation measure: <i>The Energy Management System had been installed, that comprises 120 'Secure' Make multifunction energy meters at various location at the different shops/ hangers for accountability of the consumed energy in lighting/power.</i>					
<i>After arranging training sessions for the employees the Specific Energy Consumption drastically reduced by the enhanced awareness towards energy conservation.</i>					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
NOT AVAILABLE					
Agency that executed the project (with complete address and email): In house team					
Total investment, Rs.: 05.08Lac			Year of implementation: 2007-08		
First year energy cost savings, Rs.: 12..05 Lac					
First year other savings, Rs.: NIL					
On annual basis	lakhs kWh	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	40.27				
Energy consumption after	37.86				
Energy tariff, Rs/ kWh	5.00				
Company complete address: M/S Secure Meters, Limited, Lucknow supplied the energy meters. The installation, commissioning work of energy management system executed by in-house team.				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: Mr.Devenrda Gupta Secure Meters Limited , Lucknow. Mobile No. 945028315				Signature 	
				Date 22/10/08	

**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.**