


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																																																																																	
Year to be filled by BEE	Replacement of Cooling Towers (This project installed in March '08)	Technology																																																																																	
Description of the energy conservation measure:																																																																																			
<p>To increase the efficiency & conserve energy by up gradation of cooling tower has been done in year 2008, March with energy efficient motors and cross flow design that saves pump power. Savings achieved after replacement of cooling towers is 0.0596 units in lakhs approximately resulting in savings of Rs. 0.38 lakhs. Pump power is saved because we pay only to move the water to the top of the tower and the gravity does the rest of the activity. The comparison data on energy & water consumption is also given for reference</p>																																																																																			
Water Consumption		Electricity Consumption																																																																																	
<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="padding: 2px;">Months</th> <th style="padding: 2px;">2007 (kl)</th> <th style="padding: 2px;">2008 (kl)</th> <th style="padding: 2px;">Savings (kl)</th> </tr> </thead> <tbody> <tr><td style="padding: 2px;">March</td><td style="padding: 2px;">242</td><td style="padding: 2px;">229.8</td><td style="padding: 2px;">12.2</td></tr> <tr><td style="padding: 2px;">April</td><td style="padding: 2px;">310</td><td style="padding: 2px;">290</td><td style="padding: 2px;">20</td></tr> <tr><td style="padding: 2px;">May</td><td style="padding: 2px;">348</td><td style="padding: 2px;">274.4</td><td style="padding: 2px;">73.6</td></tr> <tr><td style="padding: 2px;">June</td><td style="padding: 2px;">360</td><td style="padding: 2px;">308.1</td><td style="padding: 2px;">51.9</td></tr> <tr><td style="padding: 2px;">July</td><td style="padding: 2px;">235</td><td style="padding: 2px;">230</td><td style="padding: 2px;">5</td></tr> <tr><td style="padding: 2px;">August</td><td style="padding: 2px;">288</td><td style="padding: 2px;">230</td><td style="padding: 2px;">58</td></tr> <tr><td style="padding: 2px;">Sept</td><td style="padding: 2px;">360</td><td style="padding: 2px;">234.09</td><td style="padding: 2px;">125.9</td></tr> <tr><td style="padding: 2px;">Total</td><td style="padding: 2px;">2143</td><td style="padding: 2px;">1796.39</td><td style="padding: 2px;">346.61</td></tr> <tr> <td colspan="4" style="padding: 2px;">Savings of Rs. 1.03 lakhs (on Rs. 0.30 per kl)</td> </tr> </tbody> </table>		Months	2007 (kl)	2008 (kl)	Savings (kl)	March	242	229.8	12.2	April	310	290	20	May	348	274.4	73.6	June	360	308.1	51.9	July	235	230	5	August	288	230	58	Sept	360	234.09	125.9	Total	2143	1796.39	346.61	Savings of Rs. 1.03 lakhs (on Rs. 0.30 per kl)				<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="padding: 2px;">Months</th> <th style="padding: 2px;">2007 (kWh in lakhs)</th> <th style="padding: 2px;">2008 (kWh in lakhs)</th> <th style="padding: 2px;">Savings (kWh in lakhs)</th> </tr> </thead> <tbody> <tr><td style="padding: 2px;">March</td><td style="padding: 2px;">0.03</td><td style="padding: 2px;">0.022</td><td style="padding: 2px;">0.008</td></tr> <tr><td style="padding: 2px;">April</td><td style="padding: 2px;">0.0315</td><td style="padding: 2px;">0.0231</td><td style="padding: 2px;">0.0084</td></tr> <tr><td style="padding: 2px;">May</td><td style="padding: 2px;">0.033</td><td style="padding: 2px;">0.0242</td><td style="padding: 2px;">0.0088</td></tr> <tr><td style="padding: 2px;">June</td><td style="padding: 2px;">0.0315</td><td style="padding: 2px;">0.0231</td><td style="padding: 2px;">0.0084</td></tr> <tr><td style="padding: 2px;">July</td><td style="padding: 2px;">0.0345</td><td style="padding: 2px;">0.0253</td><td style="padding: 2px;">0.0092</td></tr> <tr><td style="padding: 2px;">August</td><td style="padding: 2px;">0.03</td><td style="padding: 2px;">0.022</td><td style="padding: 2px;">0.008</td></tr> <tr><td style="padding: 2px;">Sept</td><td style="padding: 2px;">0.033</td><td style="padding: 2px;">0.0242</td><td style="padding: 2px;">0.0088</td></tr> <tr><td style="padding: 2px;">Total</td><td style="padding: 2px;">0.2235</td><td style="padding: 2px;">0.1639</td><td style="padding: 2px;">0.0596</td></tr> <tr> <td colspan="4" style="padding: 2px;">Savings of Rs. 0.38 Lakhs (on Rs. 6.35 per unit)</td> </tr> </tbody> </table>		Months	2007 (kWh in lakhs)	2008 (kWh in lakhs)	Savings (kWh in lakhs)	March	0.03	0.022	0.008	April	0.0315	0.0231	0.0084	May	0.033	0.0242	0.0088	June	0.0315	0.0231	0.0084	July	0.0345	0.0253	0.0092	August	0.03	0.022	0.008	Sept	0.033	0.0242	0.0088	Total	0.2235	0.1639	0.0596	Savings of Rs. 0.38 Lakhs (on Rs. 6.35 per unit)			
Months	2007 (kl)	2008 (kl)	Savings (kl)																																																																																
March	242	229.8	12.2																																																																																
April	310	290	20																																																																																
May	348	274.4	73.6																																																																																
June	360	308.1	51.9																																																																																
July	235	230	5																																																																																
August	288	230	58																																																																																
Sept	360	234.09	125.9																																																																																
Total	2143	1796.39	346.61																																																																																
Savings of Rs. 1.03 lakhs (on Rs. 0.30 per kl)																																																																																			
Months	2007 (kWh in lakhs)	2008 (kWh in lakhs)	Savings (kWh in lakhs)																																																																																
March	0.03	0.022	0.008																																																																																
April	0.0315	0.0231	0.0084																																																																																
May	0.033	0.0242	0.0088																																																																																
June	0.0315	0.0231	0.0084																																																																																
July	0.0345	0.0253	0.0092																																																																																
August	0.03	0.022	0.008																																																																																
Sept	0.033	0.0242	0.0088																																																																																
Total	0.2235	0.1639	0.0596																																																																																
Savings of Rs. 0.38 Lakhs (on Rs. 6.35 per unit)																																																																																			
Picture/ sketch/ drawing before modification (if available)		Picture/ sketch/ drawing after modification																																																																																	
																																																																																			

Agency that executed the project (with complete address and email): Paharpur Cooling Towers Limited Address: 8/1/B Diamond Harbour Road, Kolkatta – 700027 Phone: 2479-2050 Email: pctccu@paharpur.com					
Total investment, Rs.: 3,11,924/-			Year of implementation: 2008 (March)		
First year energy cost savings, Rs.: N/A					
First year other savings, Rs.: N/A					
On annual basis (From March 08 to Sept 08)	kWh 000'	Coal (Tons)	Gas Nm³	Oil (kL)	Other (Water in kilo liter)
Energy consumption before	22,350	-	-	-	21,43,000
Energy consumption after	16,390	-	-	-	17,96,390
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	Rs. 6.35 per units	-	-	-	Rs. 0.30 per KI
Company complete address: Name: Mr. C.P. Yadav Designation: Engineering Tel: +91-(0)-11- 26207171 Extn: 119 Mobile: Fax: +91-(0)-11- -4132 4189, 26207606/575 Email: implement@pbcnet.com Contact person who could be contacted for more information:				We authorise Bureau to use this information for dissemination 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.