

Energy Conservation Measure implemented in 2007-2008

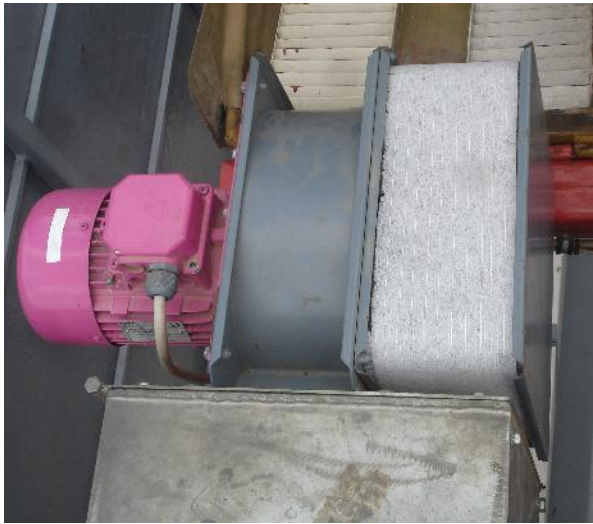
(To be filled up separately for each Energy Conservation Measure)

ID to be filled by BEE	Title of the measure		Sector Amusement park		
Year to be filled by BEE	Use optimum size pumps in water rides and water treatment plants based on flow rate and head		Technology Pump.....		
Description of the energy conservation measure: Water rides and treatment plants are using lot of pumps. Initially the pumps are over rated and is throttling for reducing the flow rate. We conducted a pump audit and optimize the pump rating by trials. We replaced most of the 10 HP, 7.5 HP with 5HP, 3HP etc with a net saving of 117.5 HP. For this we used the spare pumps available with us.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
Agency that executed the project (with complete address and email): Inhouse					
Total investment, Rs.:0			Year of implementation: 2007-08		
First year energy cost savings, Rs.: 783854.83					
First year other savings, Rs.: 262965.00					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	559.89				
Energy consumption after	447.92				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	6.91				
Company complete address: Wonderla Holidays Private Limited, 28th KM, Mysore Road, Jadenahalli Road, Hejjala PO, Ramanagaram Taluk, Bangalore – 562 109 Contact person who could be contacted for more information: Mr Ahammed Kabeer T A, Senior Engineer - Electrical				We authorise Bureau to use this information for dissemination Signature Date: 10/10/2008	

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ID to be filled by BEE	Title of the measure		Sector Amusement park		
Year to be filled by BEE	Timer operation of blower for DC Motor, Earlier Blowers are working full time		Technology Blower		
<p>Description of the energy conservation measure: We have 19 Numbers of DC motor in our amusement rides. All the DC motors are with a blower of 2HP for air-cooling of motor. Earlier the blowers are working from morning to evening. Now the blowers are connected with an energy saver circuit. It will work when motor is ON and will work upto 10 minute after OFF. Then the sufficient cooling also getting for the DC motors.</p>					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email): Inhouse					
Total investment, Rs.:0.00			Year of implementation: 2007-08		
First year energy cost savings, Rs.: 213598					
First year other savings, Rs.:0.00					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	61.03				
Energy consumption after	30.51				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	6.91				
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ID to be filled by BEE	Title of the measure		Sector Amusement park		
Year to be filled by BEE	Reduction of operating hours of filter pumps by monitoring turbidity of water in pools		Technology Pump		
Description of the energy conservation measure:					
<p>We have 20 numbers of 7.5 HP pumps in one of our water rides. (4 nos for water treat plant filtration, rest for pool water filtration operation)</p> <p>i) In Filtration systems, earlier the filter pumps are working throughout the park time. Now we are switching on the filter pumps according to the turbidity of water which is the parameter deciding the water clarity in pools. If turbidity is higher than 10 the pumps will be switched ON.</p> <p>ii) In operation, it is found that, we can be able to do the operation with only 5 no of 7.5 Hp pumps, with little increase in time. This saved almost 50% of actual power</p> <p>In overall, this reduces almost 60% of the ride operating cost.</p>					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
Agency that executed the project (with complete address and email): Inhouse					
Total investment, Rs.:0			Year of implementation: 2007-08		
First year energy cost savings, Rs.: 637945.67					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	188.68				
Energy consumption after	56.60				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	6.91				
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ID to be filled by BEE	Title of the measure		Sector Amusement park			
Year to be filled by BEE	Juno(250W) is changing to CFL(3x18W) and reducing the pole height from 8.3 mtr to 6.3 mtr		Technology Lighting			
Description of the energy conservation measure: We have 120 numbers of juno lights in our pathways and parking areas. The juno is about 8.3 metre height from the ground and using 250W halide lights. Now we found out 10 numbers of junos which are working throughout night time. We tried with 3 Nos of 30W CFL lights on same fitting and reduced the height from 8.3 meter to 6.3 meter. The lux level is little bit low. But sufficient light is there of 20 lux.						
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification			
						
Agency that executed the project (with complete address and email): Inhouse						
Total investment, Rs.: 21000			Year of implementation: 2007-08			
First year energy cost savings, Rs.: 53097.99						
First year other savings, Rs.: 0.00						
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other	
Energy consumption before	9.6725					
Energy consumption after	3.066					
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	6.91					
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ID to be filled by BEE	Title of the measure		Sector Amusement park		
Year to be filled by BEE	Replacing 60W incandescent lamp with 5W CFL in lift well bulk head fitting		Technology Lighting		
Description of the energy conservation measure: We have 15 umbers of bulk head fitting using 60W incandescent lamps in lift well. We replaced this with 5W CFL which is giving sufficient light					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email): Inhouse					
Total investment, Rs.: 3400			Year of implementation: 2007-08		
First year energy cost savings, Rs.: 21049.62					
First year other savings, Rs.: 0.00					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	3.066				
Energy consumption after	0.015				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	6.91				
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ID to be filled by BEE	Title of the measure Occupancy sensor in all toilets		Sector Amusement park		
Year to be filled by BEE			Technology Lighting		
Description of the energy conservation measure: Our 20 numbers of toilets has two 40W tubelights and one 60W exhaust fans which are working throught out day time. Now an occupancy sensor with Rs 1000 is connected in toilet and the lights and fan will switch on for two minute after every person entering in toilet.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email): Inhouse					
Total investment, Rs.: 19800			Year of implementation: 2007-08		
First year energy cost savings, Rs.: 59051.63					
First year other savings, Rs.: 0.00					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	10.69				
Energy consumption after	2.13				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...					
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ID to be filled by BEE	Title of the measure Using 15" LCD monitor instead of CRT monitor	Sector Amusement park
Year to be filled by BEE		Technology Computer
Description of the energy conservation measure: Replaced 10 numbers of CRT monitor to LCD monitor		
Picture/ sketch/ drawing before modification (if available)	Picture/ sketch/ drawing after modification	
		
Agency that executed the project (with complete address and email): Inhouse		
Total investment, Rs.: 40000	Year of implementation: 2007-08	

First year energy cost savings, Rs.: 6690.79					
First year other savings, Rs.:0.00					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	1.97064				
Energy consumption after	1.00096				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	6.91				
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ID to be filled by BEE	Title of the measure		Sector Amusement park		
Year to be filled by BEE	Recovery of reject water by new RO plant in IWTP		Technology Pumps		
<p><u>Description of the energy conservation measure:</u> We have three Reverse Osmosis water treatment plant in our park. Earlier we are sending out the excess reject water after irrigation(approx 220 m3). Now we purchased a new RO plant for treating the Reject water and keeping zero discharge. This will reduce the water extraction by borewell pumps by 45% . For this reject water, pretreatment is less & operating cost/kl is low. By this production , it satisfies the 25% of our daily RO water requirement, thereby reduce the other plant running hours.</p>					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email): In house					
Total investment, Rs.: 2500000			Year of implementation: 2007-08		
First year energy cost savings, Rs.: 510596.31					
First year other savings, Rs.: 154760.00					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	319.74				
Energy consumption after	246.79				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	6.91				
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ID to be filled by BEE	Title of the measure		Sector Amusement park			
Year to be filled by BEE	Operation of required pumps and emergency lights in rain disco		Technology Lighting & Pumps			
Description of the energy conservation measure: We have a new ride –rain disco which is operated with 4 numbers of 10HP pumps and 2000 watts of emergency lighting. Earlier all the pumps are working when the show is started. Now the pumps are operating based on the guest entry. On an avg., currently we are operating with 15HP only.						
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification			
Agency that executed the project (with complete address and email): Inhouse						
Total investment, Rs.: 0			Year of implementation: 2007-08			
First year energy cost savings, Rs.: 88,375.62						
First year other savings, Rs.:						
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other	
Energy consumption before	11.34					
Energy consumption after	7.129					
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	6.91					
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ID to be filled by BEE	Title of the measure		Sector Amusement park			
Year to be filled by BEE	Limited time operation of park and water park in off season		Technology Lighting & Pumps, Motors			
Description of the energy conservation measure: We divided our entire year to two seson and offseason period depends on guest entry. The off season period will be about 120 days per year from June 15. Earlier we are operating fully without any timing. Now our management limited the time duration by reducing one hour for all park and 2 hour for water parks. With this we are saving a huge amount of energy						
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification			
Agency that executed the project (with complete address and email): Inhouse						
Total investment, Rs.: 0.00			Year of implementation: 2007-08			
First year energy cost savings, Rs.: 6,32,541.42						
First year other savings, Rs.:0.00						
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other	
Energy consumption before	1624.54					
Energy consumption after	1533.00					
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	6.91					
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ID to be filled by BEE	Title of the measure		Sector Amusement park		
Year to be filled by BEE	Reducing water consumption by arresting a major Water Leakage of 50m³ per day in Pools		Technology Pumps		
Description of the energy conservation measure: We found out a major leak in our play pool of about 50kL per day through the concrete tank bottom. We done some rework on the tank to arrest the leakage. This will save water thus by reducing the usage of other pumps from rainwater harvesting and RO treatment cost					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email): Inhouse					
Total investment, Rs.: 10000.00			Year of implementation: 2007-08		
First year energy cost savings, Rs.: 24000.00					
First year other savings, Rs.: 797250.00					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	3.4				
Energy consumption after	0.0				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	6.91				
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ID to be filled by BEE	Title of the measure		Sector Amusement park		
Year to be filled by BEE	Using bore well water in Fishpond instead of RO water		Technology Pumps		
<p>Description of the energy conservation measure: In our fish pond we used RO treated water of about 1lakh litre. This will dewater every three days(approx . 30 m3/day for refilling) and for that RO treatment plant to be run more than 3 hours & pretreatment for more than a hour . Now we directly use borewell water. Thus by reducing energy for running RO plant , treatment plant etc...</p>					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email): Inhouse					
Total investment, Rs.: 2000.00			Year of implementation: 2007-08		
First year energy cost savings, Rs.: 1,98,925.00					
First year other savings, Rs.:0.0					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	14.6				
Energy consumption after	1.09				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	6.91				
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