


### 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>Installation of Heat Exchanger in Hot Water Line and Steam Condensate line.</b>	Sector <b><u>SERVICE</u></b>
Year to be filled by BEE		Technology .....
Description of the energy conservation measure:  <b>We have connected heat exchanger in the condensate return line and hot water return line. Thus the temperature of condensate is being reduced from 90 deg. C to 65 deg. C and that of hot water in return line is being increased from 48 deg. C to 55 deg. C. this helped us to reduce the fuel consumption of Steam Boiler and Hot Water Generator as well. Boiler running hours has been reduced in spite of additional steam load on Laundry machines.</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):  <b>Installation of Heat Exchanger in Hot Water Line and Steam Condensate line. DONE BY.....</b>  <b>5. GOA METAL &amp; STRUCTURAL WORKS ENGINEERS &amp; STRUCTURAL FABRICATOR SERNABATIM, COLVA SALCETE – GOA – 403 708 PH : 0832 2788348</b>		
Total investment, <b>Rs.: 0.55 Lakh</b>	Year of implementation: 2007-2008	

First year energy cost savings, <b>Rs.: 1.35</b>					
First year other savings, <b>Rs.:</b>					
<b>On annual basis</b>	<b>kWh 000'</b>	<b>Coal (Tons)</b>	<b>Gas Nm<sup>3</sup></b>	<b>Oil (kL)</b>	<b>Other</b>
Energy consumption before	NIL	NIL	NIL	194.888	NIL
Energy consumption after	NIL	NIL	NIL	190.848	NIL
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	NIL	NIL	NIL	33.57	NIL
Company complete address:				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information:				Signature	
<b>Mr. Shankar Bote</b> <b>Chief Engineer</b>				Date	

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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>Installation of Hydropneumatic variable frequency drive system</b>	Sector <b><u>SERVICE</u></b>
Year to be filled by BEE		Technology .....
Description of the energy conservation measure:  <b>The hydropneumatic system before was very old and consuming lot of power. The same has been replaced with an imported VFD system from Grundfoss Denmark. With this measure we provide water in guest rooms with constant pressure and our energy consumption has come down. The original system of 45 hp load has been replaced with 21.32 hp.</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):  <b>1. CANTER ENGINEERING B-2/04, VIJAYANAGRI WAGHHILL NAKA, KASANWADWALI THANE – 400 067 Ph 9967573858</b>		
Total investment, <b>Rs.: 9.00/- LAKHS</b>	Year of implementation: 2007-2008	
First year energy cost savings, <b>Rs.: 2.55 LAKHS</b>		
First year other savings, <b>Rs.:</b>		
<b>On annual basis</b>	<b>kWh 000'</b>	<b>Coal (Tons)</b>
Energy consumption before	1.96	NIL
Energy consumption after	1.25	NIL
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	3.59	NIL
Energy consumption after	1.25	NIL
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	3.59	NIL
Company complete address:	We authorize Bureau to use this information for dissemination	
Contact person who could be contacted for more information:  <b>Mr. Shankar Bote Chief Engineer</b>	Signature	
	Date	

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## Energy Conservation Measure implemented in 2007-2008


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ID to be filled by BEE	Title of the measure <b>Auto Start Delay Time Switches.</b>	Sector <b><u>SERVICE</u></b>			
Year to be filled by BEE		Technology .....			
Description of the energy conservation measure:					
<p><b>We have connected Auto Start Delay Time Switches in the circuit of Primary Chilled Water Circulation Pumps (3 nos), Cooling Water Circulation Pumps (4 nos), Cooling Tower Fans (5 nos), Exhausts of North Wing (2 nos), South Wing (2 nos), Main Kitchen (2 nos), Laundry (2 nos), Fresh Air Blowers of Kitchen and Laundry, AHU of Health Club and Executive Office and Hot Water Circulation Pumps (3 nos), Ice Cube Machine, Water Coolers of Staff Cafeteria and Kitchen.</b></p> <p><b>Also we have connected Time Switches in the circuit of fountain pumps, selected lighting in public area, AHU of executive office and water fall lights.</b></p> <p><b>With these measures we have ensured the safety of motors and the equipments are being started &amp; stopped automatically.</b></p>					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
Agency that executed the project (with complete address and email):					
<b>RAMADA CARAVELA BEACH RESORT VARCA BEACH , SALCETE GOA PH : 0832 6695000</b>					
Total investment, <b>Rs.: 0.90 Lakh</b>			Year of implementation: 2007-2008		
First year energy cost savings, <b>Rs.: 3.73 Lakhs</b>					
First year other savings, <b>Rs.: NIL</b>					
<b>On annual basis</b>	<b>kWh 000'</b>	<b>Coal (Tons)</b>	<b>Gas Nm<sup>3</sup></b>	<b>Oil (kL)</b>	<b>Other</b>
Energy consumption before					
Energy consumption after					
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...					
Company complete address:				We authorise Bureau to use this information for dissemination  Signature  Date	
Contact person who could be contacted for more information:					
<b>Mr. Shankar Bote Chief Engineer</b>					

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### Energy Conservation Measure implemented in 2007-2008

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ID to be filled by BEE	Title of the measure  <b>New Distribution Board and energy saving lights in guest rooms.</b>	Sector <b><u>SERVICE</u></b>
Year to be filled by BEE		Technology .....
Description of the energy conservation measure:  <b>The total lighting load in guest rooms before renovation was 39.81 kW. We replaced incandescent lights with energy saving lights and achieved energy saving.</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):  <b>1. RP ELECTRICALS          SUYOG SADAN , ANANAD NAGAR – ROOM NO 4,          GR. FLOOR , BEHIND CHAL NO 1,          MESTURATION OFFICE ,          SANTA CRUZ EAST          MUMBAI - 55          PH : 022 -247 91806</b>		
Total investment, <b>Rs.: 6.00 LAKHS</b>	Year of implementation: 2006-2007	

First year energy cost savings, <b>Rs.: 1.76 LAKHS</b>					
First year other savings, <b>Rs: N/A</b>					
<b>On annual basis</b>	<b>kWh 000'</b>	<b>Coal (Tons)</b>	<b>Gas Nm<sup>3</sup></b>	<b>Oil (kL)</b>	<b>Other</b>
Energy consumption before	1.02	NIL	NIL	NIL	NIL
Energy consumption after	0.52	NIL	NIL	NIL	NIL
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	3.59	NIL	NIL	NIL	NIL
Company complete address:				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information:				Signature	
<b>Mr. Shankar Bote</b> <b>Chief Engineer</b>				Date	

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