


### 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 :- Thermal Power station- I Expansion
Year to be filled by BEE	<b>LIGHT ENERGY SAVING BY PROVING COMMON CONTROL SWITCH</b>	Technology:- Monitoring
<p>Description of the energy conservation measure:</p> <p>In Unit I&amp;II, Static Excitation Rooms, 20 no, 2 X 40W tube lights were burning continuously. Suitable modification in lighting circuits was carried out to provide common control switch. It facilitates to switch ON/OFF the lights whenever required.</p>		
<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): In house suggestion					
Total investment, Rs.: 1000			Year of implementation: 2007-08		
First year energy cost savings, Rs0.17 Lakhs					
First year other savings, Rs0.17Lakhs					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	7849				
Energy consumption after	NIL				
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	2.18				
Company complete address: The General Manager Thermal Power Station-I expansion Neyveli Lignite Corporation Neyveli-607 807  Contact person who could be contacted for more information: S.Kasirengan Energy Manager, Thermal Power Station-I Expansion N.L.C				We authorise Bureau to use this information for dissemination  Signature  Date	

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ID to be filled by BEE	Title of the measure	Sector :- Thermal Power station- I Expansion
Year to be filled by BEE	<b>STOPPING OF ONE BORE WELL PUMP BY CARRYING OUT MODIFICATION IN WATER LANCE SYSTEM</b>	Technology:- Process
<p>Description of the energy conservation measure :</p> <p>Two bore well pumps have to run in order to get adequate pressure for carrying out Water Lance Operation in Boiler.</p> <p>A modification is carried out from recirculation line of service water booster pump to suction point of water lance pump. By doing so, sufficient pressure now develops at the discharge of Water lance pump. This modification avoids starting of additional of Bore Well Pump.</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 suggestion					
Total investment, Rs.: 75000			Year of implementation: 2007-08		
First year energy cost savings, Rs6.25 Lakhs					
First year other savings, Rs6.25Lakhs					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	286890				
Energy consumption after	NIL				
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	2.18				
Company complete address: The General Manager Thermal Power Station-I expansion Neyveli Lignite Corporation Neyveli-607 807  Contact person who could be contacted for more information: S.Kasirengan Energy Manager, Thermal Power Station-I Expansion N.L.C				We authorise Bureau to use this information for dissemination  Signature  Date	

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**Energy Conservation Measure implemented in 2007-2008 Annexure-B**  
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ID to be filled by BEE	Title of the measure <b>Switching of one out of two heaters in Heating, Ventilation and Air conditioning System</b>	Sector :- Thermal Power Station- I Expansion
Year to be filled by BEE		Technology:- Process

Description of the energy conservation measure:  
In Heating, ventilation and Air conditioning system, humidity analysis was taken over a period of time. It was observed that as the humidity was maintained constant, there was no necessity to keep heaters in service. Hence the heaters in HVAC were switched off, thereby effecting considerable saving of electrical energy in HVAC system.

**Picture/ sketch/ drawing before modification**  
(if available)

**Picture/ sketch/ drawing after modification**



**TPS I EXPANSION      HUMIDIFIERS IN HVAC SYSTEM**

Agency that executed the project (with complete address and email): In house suggestion					
Total investment, Rs.: NIL			Year of implementation: 2007-08		
First year energy cost savings, Rs.6.87 Lakhs					
First year other savings, Rs.6.87Lakhs					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	315360				
Energy consumption after	NIL				
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	2.18				
Company complete address: The General Manager Thermal Power Station-I expansion Neyveli Lignite Corporation Neyveli-607 807  Contact person who could be contacted for more information: S.Kasirengan Energy Manager, Thermal Power Station-I Expansion N.L.C				We authorise Bureau to use this information for dissemination  Signature  Date	

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