

STATE LEVEL ENERGY CONSERVATION AWARD
(CATEGORY- ENERGY INTENSIVE INDUSTRY - Textile, Pulp & Paper)
"Award Questionnaire"



1	Name of the Unit				
2 (a)	The Sub-sector to which unit's nomination should be considered				
(b)	Whether ISO 50001 Energy Management System Certified? If yes, please attach copy of certificate				
3	Year of Establishment				
4 (a)	Complete address of Unit's location (including Chief Executive's name & designation) with telephone/ mobile, fax nos. & e-mail.				
(b)	Name, designation, address, telephone/ mobile, fax nos. & e-mail of responsible person who could be contacted in connection with the application for Award				
(c)	Name, designation, address, telephone/ mobile, fax nos. & e-mail of Certified Energy Manager who has been designated as Energy Manager of the plant				
(d)	Frequency of Energy Audit (Once in a Year, Once in Two Years, Once in Three Years, Other, Specify)				
5	Production and capacity utilization details ***				
Year	Name of the Product	Units (Please specify)	Installed Capacity (a)	Actual Production (b)	% Capacity Utilization (b/a) x 100
2018 -19					
2019 -20					
6	Energy Consumption Details				
6.1	Electricity Consumption details (lakh kwh/year)	2017-18	2018-19	2019-20	
(A)	Purchased electricity (lakh kwh/year)				
(B)	Own Generation (lakhs kwh/year)				
a)	Through DG sets (Lakhs kWh/ year)				
b)	Through Steam and/or gas turbine route (please specify)(Lakhs kWh/ year)				
c)	Electricity supplied to the grid/ others (specify) (Lakhs kWh/ year)				
(C)	Own generated electricity consumption within the plant (Lakhs kWh/ year) [a + b - c]				
(D)	Total consumption of electricity (purchased + own generated electricity consumption within the plant) (Lakhs kWh/ year) (A + C)				
(E)	Total Electricity Consumption in MTOE (Metric tonne of oil equivalent)				
6.2	Fuel Consumption for process heating				
Note:1. It should not include fuel used for self generation of electricity and as a Raw Material and/or industrial Units using fuel for Cogeneration Plant					
2. For computing fuel consumption for process heating in case of steam being used from a cogeneration plant, the following relation may be used: Fuel consumption for process heating, kg/year= (steam quantity used for process heating, kg/year(enthalpy of steam, kcal/kg - boiler feed water enthalpy, kcal/kg)) / (Boiler efficiency xGCV of fuel, kcal/kg). For different steam pressure extractions, the above relation to be repeated					
A	Type of Fuel -Coal /Bio Mass				
(i)	Quantity used for process heating (tonnes/ year)				
(ii)	Weighted Av. Gross Calorific value (GCV) (kCal/ kg)				
(iii)	Total heat value of coal used (Million kCal/year) [A (i) x A (ii)]/1000				
(B)	Other purchased solid fuels (pl. specify) provide data on similar lines as indicated under 'Coal' /Bio Mass				
(C)	Type of Fuel-Furnace Oil (FO)				
(i)	Quantity used for process heating (kL/ year)				
(ii)	Av. GCV (kCal/ kg)				
(iii)	Av. Heat value (kCal/ litre) Density of Fuel x C(ii)				
(iv)	Total heat value of furnace oil (Million kCal/year) [C(i) x C(iii)]/1000				

(D)	Diesel/ Other oils (Purchased) (if any) Provide data on similar lines as indicated under 'Furnace Oil'			
(E)	Natural Gas	2017-18	2018-19	2019-20
(i)	Quantity used for process heating (Lakh m ³ / year)			
(ii)	Av. GCV (k Cal/ m ³)			
(iii)	Total heat value (Million kCal/year) [E(i) x E(ii)]/10			
(F)	Any other purchased gas (Say LPG etc.)			
(G)	Gas generated as by product/ waste in the plant and used as fuel			
(i)	Name_____			
(ii)	Quantity (Lakh m ³ / year)			
(iii)	Av. GCV (kCal/ m ³)			
(iv)	Total heat value (Million kCal/year) [G(ii) x G(iii)]/10			
(H)	Solid waste generated in the plant and used as fuel			
(i)	Name_____			
(ii)	Quantity (tonnes/ year)			
(iii)	Weighted Av. Gross Calorific value (GCV) (kCal/ kg)			
(iv)	Total heat value used (Million kCal/year) [H(ii) x H(iii)]/1000			
(I)	Liquid effluent / waste generated in the plant and used as fuel			
(i)	Name_____			
(ii)	Quantity (kL/ year)			
(iii)	Av. GCV (kCal/ kg)			
(iv)	Av. Heat value (kCal/ litre) {Sp. gravity x I(iii)}			
(v)	Total heat value ,MkCal/year (Million kCal/year) [I(ii) x I(iv)]/1000			
7	Total thermal energy consumption in Million kCal/ year			
(a)	6.2[A (iii) + C (iv) +E (iii)+ G (iv)+ H(iv)+ I (v) ... etc.]			
(b)	Total Thermal energy consumption in MTOE per year [7(a)/10]			
8	Achievement of energy savings from implementation of new Energy Efficiency Projects during the year 2017-20 (The energy savings achieved shall only be from the projects which have been implemented during 2017-20)			
	Year	Annual Electricity Saving (Lakh kWh)	Annual Fuel Savings	
			Coal (Metric Tonnes)	FO/LSHS/HSD/R FO
			Gas (Lakh m³)	Total (MkCal)
(a)	2018-19			
(b)	2019-20			
	Year	Annual Energy Savings (Rs. Lakhs)	One time investment (Rs. Lakhs)	
(a)	2018-19			
(b)	2019-20			
9	Energy consumption per unit production of 'major energy consuming product(s)' and accounting of energy consumption			
Year	Specific Electrical Energy Consumption In TOE/tonne**as per Form-1 [Total Electrical Energy Consumption in TOE/Actual Production in tonne] (i)	Specific Thermal Energy Consumption In Million kCal/tonne**as per Form-1 [Total Thermal Energy Consumption in Million kcal/Actual Production in tonne] (ii)	Specific Electrical Energy Consumption Reduction over 2017-18 [9(a) (i) - 9(b) (i)]/ 9(a) (i)	Specific Thermal Energy Consumption Reduction over 2017-18 [9(a) (ii) - 9(b) (ii)]/ 9(a) (ii)
(a) 2017-18				
(b) 2018-19				

Year	Specific Electrical Energy Consumption In TOE/tonne**as per Form-1 [Total Electrical Energy Consumption in kWh/Actual Production in tonne] (iii)	Specific Thermal Energy Consumption In Million kCal/tonne** [Total Thermal Energy Consumption in Million kcal/Actual Production in tonne] (iv)	Specific Electrical Energy Consumption Reduction over 2019-20 [9(c) (iii) - 9(d) (iii)]/ 9(c) (iii)	Specific Thermal Energy Consumption Reduction over 2019-20 [9(c) (iv) - 9(d) (iv)]/ 9(c) (iv)
(c) 2018-19				
(d) 2019-20				

MTOE=Metric Tonne of Oil Equivalent

1 kWh = 860 kCal

1 Mkal = 10⁶ kCal

Note: Annual energy savings to be worked out based on the difference in the energy consumption before implementation of the project and energy savings achieved after implementation of the project in the identified area/ equipment in the reference year. The overall energy savings of all the implemented projects to be mentioned in the appropriate column. The energy savings achieved to be only the first year annual savings and should not include the savings achieved due to implementation of the projects in the previous years.

I solemnly declare that to the best of my knowledge the information given in the Award Questionnaire (State Level Energy Conservation Award) thereto is correct and complete

Date

Place

.....
(Signature of the Chief Executive)

Name and Designation of Chief Executive _____

Organization Seal.....

DOCUMENTS ATTACHED:

1. Copies of Certificate pertaining to statutory requirements such as safety and pollution control(as applicable) for the period 2019-20 are enclosed.
2. A brief write up of the Energy Conservation and Efficiency Measures (not more than 3-4 pages) along with photographs depicting equipment / locations where energy efficiency activities have been undertaken and a CD containing the same is attached.
3. Copy of one Electricity bill for each of the two years i.e. 2018-19 and 2019-20 are attached.