
MINISTRY OF ENERGY (Power Division)**NOTIFICATION**

In exercise of the powers conferred by clause (k) and (s) of Section 10 of the National Energy Efficiency and Conservation Act, 2016 (XXX of 2016), the Federal Government, in consultation with the National Energy Efficiency and Conservation Authority, hereby make the following rules, namely:

1. Short title and commencement. - **(1)** These rules may be called the National Energy Efficiency and Conservation Authority (Form and Manner and Time for Furnishing Information with Regard to Energy Consumed and Action Taken on Recommendations of Accredited Energy Auditor) Rules, 2018.

(2) They shall come into force on the date of their publication in the Official Gazette.

2. Definitions. - **(1)** In these rules unless the context otherwise requires,

(a) a) “Act” means the National Energy Efficiency and Conservation Act, 2016 (XXX of 2016)

(b) “Form” means the forms specified under rule 3;

(c) “year” means the financial year beginning on the 1st day of April and ending on the 31st March following

(d) words and expression used herein and not defined, but defined in the Act shall have the meanings assigned to them in the Act.

3. Form and time limit for furnishing of information by the designated consumers with regard to energy consumed and action taken on the recommendations of the accredited energy auditor. - **(1)** Every designated consumer within three months of the submission of energy audit report by the accredited energy auditor shall, furnish in the electronic form as well as in a hard copy, to the designated agency, -

(a) details of information on energy consumed during the year preceding to the year for which energy audit was undertaken as verified by the accredited energy auditor, in **Form 1**

(b) details of specific energy consumption product-wise for the period referred to in clause (a), in **Form 1**

(c) details of the action taken on the recommendations made by the accredited energy auditor in the energy audit report submitted under the Act, in **Form 2**;

(2) Every designated consumer shall furnish to the designated agency every year; the details of progress made in consequence of the action taken by it as per clause (c). of sub-rule (1) of rule 3 together with the details of energy efficiency and conservation improvement measures implemented and consequent savings achieved in **Form 3**, within three months of the close of that year.

4. Manner of furnishing information. - **(1)** Every designated consumer shall furnish the information under Rule 3 after getting the same authenticated by its energy manager appointed or designated in terms of notification number xyz, dated the xx yy zzzz.

(2) The information under sub-rule (1) shall be strictly in accordance with the energy audit report of the-accredited energy auditor.

FORM 1

Details of Energy consumed and specific energy consumption, product-wise, based on verified data [Rule 3(1) (a) and (b)]

1	Name of the Unit				
2	The Industrial Sector to which unit falls				
3 (a)	Complete address of Unit's location (including Chief Executive's name & designation) with mobile, telephone, fax nos. & e-mail.				
(b)	Year of Establishment				
4	Registered Office address with telephone, fax nos. & e-mail				
5	Name, designation, address, mobile, telephone, fax nos. & e-mail of contact person.				
6	Production and capacity utilization details				
Year	Main Product	Units (Please specify)	Installed Capacity (a)	Actual Production (b)	% Capacity Utilization (b/a) x 100
	Product 1 Product 2 etc				
Financial year					
7.0	Energy Consumption and cost	Year 20xx – 20xx			
7.1	<i>Electricity Consumption and cost</i>				
(A)	<i>Purchased Electricity</i>				
(i)	Units (Million kWh/ year)				
(ii)	Total Cost (Rs. Million/ year)				
(iii)	Plant Connected Load (kW)				
(iv)	Contract demand (kVA) with utility				
(v)	Connected load (kW)				

		Year 20xx – 20xx	
(B)	Own Generation		
(a)	Through DG sets		
(i)	Annual generation (Million kWh/ year)		
(ii)	Total Cost (Rs. Million/ year)		
(iii)	Fuel used (HSD/ LDO/ LSHS/LSFO)		
(iv)	Gross calorific value (kCal/kg)		
(v)	Annual fuel consumption (tons)		
(vi)	Total annual fuel cost (Rs.Million)		
(b)	Through Steam turbine/generator		
(i)	Annual generation (Million kWh/ year)		
(ii)	Fuel used (state which type of fuel was used (C = coal, B = biomass, etc).		
(c)	Through Gas turbine		
(i)	Annual generation (Million kWh/ year)		
(ii)	Fuel used (state which type of fuel was used NG, PNG, CNG, Naphtha)		
(iii)	Gross calorific value (kCal/SCM)		
(v)	Annual fuel consumption (SCM)		
(vi)	Total annual fuel cost (Rs. Million)		
(C)	Total generation of electricity (Million kWh/year) 7.1(B) {a(i)+b(i)+c(i)}		
(D)	Electricity supplied to the grid/others (specify) (Million kWh/year)		
(E)	Total cost of electricity consumed (Million kWh/year) 7.1 {A(i) + C-D}		
7.2	Fuel Consumption % Cost for process heating		
(A)	Coal		
(i)	Gross calorific value (kCal/kg)		
(ii)	Quantity purchased (tons/ year)		
(iii)	Quantity used for power generation (tons/ year)		
(iv)	Quantity used as raw material, if any (tons/ year)		
(v)	Quantity used for process heating (tons/ year)		
(vi)	Total coal cost for process (Rs. Million/ year)		

		Year 20xx – 20xx	
(B)	Lignite		
(i)	Gross calorific value (kCal/kg)		
(ii)	Quantity purchased (tons/ year)		
(iii)	Quantity used for power generation (tons/ year)		
(iv)	Quantity used as raw material, if any (tons/ year)		
(v)	Quantity used for process heating (tons/ year)		
(vi)	Total lignite cost for process (Rs. Million/ year)		
(C)	Bio mass Other purchased solid fuels (pl. specify) baggase, rice husk, etc.		
(i)	Average moisture content as fired (%)		
(iii)	Average Gross calorific value as fired (kCal/kg)		
(iv)	Quantity purchased (tons/ year)		
(vi)	Quantity used as raw material, if any (tons/ year)		
(v)	Quantity used for process heating (tons/ year)		
(vi)	Total coal cost for process (Rs. Million/ year)		
7.3	Liquid		
(A)	Furnace Oil		
(i)	Gross calorific value (kCal/kg)		
(ii)	Quantity purchased (KL/ year)		
(iii)	Quantity used for power generation (KL/ year)		
(iv)	Quantity used as raw material, if any (KL/ year)		
(v)	Quantity used for process heating (KL/ year)		
(vi)	Total F. Oil Cost for process heating (Rs. Million/ year)		
(B)	Low Sulphur Heavy Stock (LSHS)		
(i)	Gross calorific value (kCal/kg)		
(ii)	Quantity purchased (tons/ year)		
(iii)	Quantity used for power generation (tons/ year)		
(iv)	Quantity used as raw material, if any (tons/ year)		
(v)	Quantity used for process heating (tons/ year)		
(vi)	Total LSHS Cost for process heating (Rs.Million/ year)		

		Year 20xx – 20xx
(C)	High Sulphur Heavy Stock (HSHS)	
(i)	Gross calorific value (kCal/kg)	
(ii)	Quantity purchased (tons/ year)	
(iii)	Quantity used for power generation (tons/ year)	
(iv)	Quantity used as raw material, if any (tons/ year)	
(v)	Quantity used for process heating (tons/ year)	
(vi)	Total HSHS Cost for process heating (Rs.Million/ year)	
(D)	Diesel oil	
(a)	High Speed Diesel (HSD)	
(i)	Gross calorific value (kCal/kg)	
(ii)	Quantity purchased (kL/ year)	
(iii)	Quantity used for power generation (tons/ year)	
(iv)	Quantity used as raw material, if any (tons/ year)	
(v)	Quantity used for process heating (tons/ year)	
(vi)	Total HSD Cost for process heating (Rs.Million/ year)	
(b)	Light Diesel Oil (LDO)	
(i)	Gross calorific value (kCal/kg)	
(ii)	Quantity purchased (kL/ year)	
(iii)	Quantity used for power generation (kL/ year)	
(iv)	Quantity used as raw material, if any (kL/ year)	
(v)	Quantity used for process heating (kL/ year)	
(vi)	Total LDO Cost for process heating (Rs.Million/ year)	
7.4	Gas	
(a)	Compressed Natural Gas (CNG)	
(i)	Gross calorific value (kCal/SCM)	
(ii)	Quantity purchased (million SCM/ year)	
(iii)	Quantity used for power generation (million SCM/ year)	
(iv)	Quantity used as raw material, if any (million SCM / year)	

(v)	Quantity used for process heating (million SCM / year)	
(vi)	Total cost of natural gas for process heating (Rs. Million/ year)	

		Year 20xx – 20xx
(b)	<i>Liquefied Petroleum Gas (LPG)</i>	
(i)	Gross calorific value (kCal/SCM)	
(ii)	Quantity purchased (million SCM / year)	
(iii)	Quantity used for power generation (million SCM / year)	
(iv)	Quantity used as raw material, if any (million SCM / year)	
(v)	Quantity used for process heating (million SCM / year)	
(vi)	Total cost of LPG for process heating (Rs.Million/ year)	
(c)	<i>Gas generated as by product/ waste in the plant and used as fuel</i>	
(i)	Name	
(ii)	Gross calorific value (kCal/SCM)	
(iii)	Quantity used for process heating (million SCM / year)	
(iv)	Total cost of byproduct gas for process heating (Rs.Million/ year)	
7.5	<i>Solid Waste</i>	
	<i>Solid waste generated in the plant and used as fuel</i>	
(i)	Name	
(ii)	Gross calorific value (kCal/Kg)	
(iii)	Quantity used for process heating (tons/ year)	
(iv)	Total cost of solid waste for process heating (Rs.Million/ year)	
7.6	<i>Liquid Waste</i>	
	<i>Liquid effluent/ waste generated in the plant and used as fuel</i>	
(i)	Name	
(ii)	Gross calorific value (kCal/kg)	

(iii)	Quantity used for process heating (tons/ year)	
(iv)	Total cost of liquid effluent for process heating (Rs.Million/ year)	
7.7	Others	
(i)	Name	
(ii)	Average gross calorific value (kCal/kg)	
(iii)	Quantity used for power generation (tons/ year)	
(iv)	Quantity used for process heat (tons/year)	
(v)	Annual cost of the others source	

Signature
 Name of Energy Manager
 Name of Company
 Full Address
 Contact Person
 Email Address
 Telephone/ Fax Numbers
 Seal

Signature
 Name of Accredited Energy Auditor
 Accreditation Details
 Seal

Form 2

Details of Action Taken on recommendations of accredited energy auditor for improving energy efficiency

[See Rule 3(1)(c)]

S. No	Energy Efficiency Improvement Measures	Investment in Million Rs	Reasons for not implementing measure	Date of completion/likely completion of measure	Annual Energy Savings				
					Oil	Gas	Coal	Electricity	Others

Signature

Name of Energy Manager

Name of Company

Full Address

Contact Person

Email Address

Telephone/ Fax Numbers

Unit's Address

Signature

Name of Accredited Energy Auditor

Accreditation Details

Seal

Climate Technology Centre and Network

UN City, Marmorvej 51, 2100 Copenhagen, Denmark

Email: ctcn@unep.org Web : <http://www.ctc-n.org>

Form 3

Details of energy efficiency improvement measure implemented, investment made and savings in energy achieved and progress made in the implementation of other recommendations
[See Rule 3(2)]

A. Implemented

S. No	Description of energy efficiency improvement measure	Category**	Investment (Rs)	Verified Monetary Savings (Rs)	Verified Energy Savings	Units	Fuel	Remarks

B. Under Implementation

S. No	Description of energy efficiency improvement measure	Category**	Investment (Rs) Estimated	Verified Monetary Savings (Rs)	Verified Energy Savings	Units	Fuel	Remarks

Signature

Name of Energy Manager

Name of Company

Full Address

Contact Person

Email Address

Telephone/ Fax Numbers

Unit's Address

Signature

Name of Accredited Energy Auditor

Accreditation Details

Seal

**** See Annexure 1**

Annexure 1

Suggested categories of areas of energy efficiency improvement for obtaining details of energy savings

1. Better housekeeping measures
2. Installation of improved process monitoring and control instrumentation, or software
3. Fuel Handling System
4. Steam Generation System
5. Steam Distribution System
6. Electricity Generation System
7. Hot Water System
8. Compressed Air System
9. Raw/ Process Water System
10. Cooling Water System
11. Process Cooling/ Refrigeration System
12. Heating, Ventilation and Air Conditioning System
13. Electrical System
14. Lighting System
15. Melting/ Heating/ Drying Equipment (e.g. Furnaces, Heaters, Kilns, Ovens, Dryers, Evaporators, etc.)
16. Heat Exchangers
17. Pumps, Compressors, Fans, Blowers, Piping, Ducting
18. Process Equipment (e.g.) Reactors, Separation Equipment, Material, Handling Equipment, etc.)
19. Transformers
20. Electric Motors and Drives
21. Process Technology
22. Process Integration
23. Process Control and Automation
24. Other Non-Equipment Measures (e.g. Plant Operation/ Scheduling, Tariff Schedule, etc.)
25. Recovery of waste heat for process heat or power generation
26. Retrofitting, modification or sizing of fans, blowers, pumps, including duct systems
27. Other