

**Details of information regarding total energy consumed and  
Specific energy consumption per unit of production**

1. Name of the Unit.
  
2. The Sector to which unit falls (Refer Annex-1)
  
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 No-  
Fax No-  
E-mail -
  
5. Energy Manager Name-  
Designation-  
Address-  
Mobile-  
Telephone-  
Fax nos-  
E-mail-
  
6. Production and capacity utilization details.

**7.0 Energy Consumption and cost.****7.1 Electricity Consumption and cost****(A) Purchased Electricity**

- (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)

**(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 (tonne)
- (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, E=electricity). If coal was used, state which grade i.e. C/I=imported or C/F=coal of grade F.

**© 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)
- (iv) Annual fuel consumption(SCM)
- (v) Total annual fuel cost (Rs.Million)

**© 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 Electricity consumed (Million kWh/year)  
7.1[A(i)+C-D]**

**7.2 Fuel consumption and % cost for process heating****(A) Coal**

- (i) Gross calorific value (kCal/kg)
- (ii) Quantity purchased (tonne/year)
- (iii) Quantity used as raw material, if any  
(tonne/year)
- (iv) Quantity used for power generation  
(tonne/year)
- (v) Quantity used for process heating  
(tonne/year)
- (vi) Total coal cost for process  
(Rs. Million/year)

**(B) Linite**

- (i) Gross calorific value (kCal/kg)
- (ii) Quantity purchased (tonne/year)
- (iii) Quantity used as raw material, if any  
(tonne/year)
- (iv) Quantity used for process heating  
(tonne/year)
- (v) Total lignite cost for process  
(Rs.Million/year)

**© Bio-mass Other purchased solid fuel (pl. specify)****baggage, rice husk, etc.**

- (i) Average moisture content as fired (%)
- (ii) Average Gross calorific value as fired  
(kCal/kg)
- (iii) Quantity purchased (tonne/year)
- (iv) Quantity used as raw material, if any  
(tonne/year)
- (v) Quantity used for process heating  
(tonne/year)
- (vi) Total baggage cost for process  
(Rs.Million/year)

**7.3 Liquid****(A) Furnce 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.O. Cost for process heating (Rs.Million/year)

**(B) Low Sulphur Heavy Stock (LSHS)**

- (i) Gross calorific value (kCal/kg)
- (ii) Quantity purchased (tonne/year)
- (iii) Quantity used for power generation (tones/year)
- (iv) Quantity used as raw material, if any (tonne/year)
- (v) Quantity used for process heating (tonne/year)
- (vi) Total LSHS Cost for process heating (Rs.Million/year)

**© High Sulphur Heavy Sock (HSHS)**

- (i) Gross calorific value (kCal/kg)
- (ii) Quantity purchased (tonne/year)
- (iii) Quantity used for power generation (tones/year)
- (iv) Quantity used as raw material, if any (tonne/year)
- (v) Quantity used for process heating (tonne/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  
(kL /year)
- (iv) Quantity used as raw material, if any  
(kL /year)
- (v) Quantity used for process heating  
(kL /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)

**(B) Liquid Petroleum Gas (LPG)**

- (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)

**© Gas generated as byproduct/waste in the plant and used as fuel**

- (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 Solid Waste****Solid waste generated in the plant and used as fuel**

- (i) Name
- (ii) Gross calorific value (kCal/kg)
- (iii) Quantity used for process heating  
(tonne/year)
- (iv) Total cost of byproduct gas for process  
heating (Rs.Million/year)

**7.6 Liquid Waste****Liquid effluent/waste generated in the plant and used as fuel**

- (i) Name
- (ii) Gross calorific value (kCal/kg)
- (iii) Quantity used for process heating  
(tonne/year)
- (iv) Total cost of liquid effluent for process  
heating (Rs.Million/year)

**Current Financial Year**

**Previous financial Year**

**7.7 Others**

- (i) Name
- (ii) Average gross calorific value  
(kCal/kg)
- (iii) Quantity use for power generation  
(tones/year)
- (iv) Quantity used for process heating.  
(tones/year)
- (v) Annual cost of the other source.

**Annexure 1-Name of Sectors**

Aluminium, cement, chemicals, chlor-alkali, fertilizers, gas crackers, iron and steel, naphtha crackers, pulp and paper, petrochemicals, petroleum fefineries, sugar, textile.

**Annexure 2- Nomenclature**

HSD	High Speed Diesel
LDO	Light Diesel Oil
LSHS	Low Sulphur Heavy Stock
LSFO	Low Sulphur Furnace Oil
C	Coal
B	Biomass
E	Electricity
C/I	Coal Imported
C/F	Indian Coal grade F
NG	Natural Gas
PNG	Piped Natural Gas
CNG	Compressed Natural Gas
FO	Furnace Oil
LPG	Liquefied Petroleum Gas
SCM	Standard Cubic Meter (15 C and 1.01325 bar)
KL	Kilo Litre
Million	Ten(10)lack