

**(Kind attention: Comments/ suggestions are invited from all concerned on this draft notification latest by 6<sup>th</sup> July, 2005. Please send your comments**

**to**

**Director General, Bureau of Energy Efficiency,  
2<sup>nd</sup> Floor, NBCC Tower, 15 Bhikaji Cama Place, New Delhi – 110 066,  
Fax: 011-26178352 / 28)**

**Draft Notification**

S.O. (E) dated ..... 2005:- Whereas in pursuance of clause (e) of section 14 of the Energy Conservation Act, 2001 [52 of 2001], the Central Government, in consultation with the Bureau of Energy Efficiency, having regard to the intensity or quantity of energy consumed and the amount of investment required for switching over to energy efficient equipment and capacity of industry to invest in it and availability of the energy efficient machinery and equipment required by the industry is satisfied, that some user or class of users of energy may be specified as designated consumer.

Now, therefore, in exercise of the powers conferred by the clause 14(e), the Central Government hereby specifies that the following Energy Intensive Industries and other establishments as specified in the Schedule to the Energy Conservation Act, 2001 (52 of 2001), having electrical connected load of 5000 kW and above or annual energy consumption of 30,000 metric tonne of oil equivalent (MTOE) and above, are notified as Designated consumers for the purposes of the said Act:-

- 1) Thermal Power Stations
- 2) Fertilizer
- 3) Cement
- 4) Iron & Steel
- 5) Chlor-Alkali
- 6) Aluminium
- 7) Railways
- 8) Pulp & Paper

Connected Load for the purpose of this notification shall mean the sum of the rated capacities of all electrical energy consuming apparatus duly wired, including portable apparatus, and connected to the power supply system in the consumer's premises. The connected load shall not include the load of spare plug sockets, stand by or spare energy consuming apparatus installed authorisedly, through change over switch, which cannot be operated simultaneously. The equipment which is under installation and not connected

electrically, equipment stored in warehouse/showrooms either as spare or for sale is not to be considered as “connected load”. Either heating or cooling use of these apparatus/loads shall be taken into account as per prevailing season of that particular state. In case the designated consumer has declared in writing its establishment connected load to the concerned Electrical Inspectorate Office, Electrical Safety Department or to any other concerned government department of that particular state, the same will only be considered for the purpose of this notification

The energy consumption factors values defined in Annexure to this Notification shall be used for the purpose of working out annual energy consumption in terms of metric tonne of oil equivalent

For the purpose of declaring energy intensive industries or any other establishment specified in the schedule to the Act, the limit of connected load and annual energy consumption in terms of metric tonne of oil equivalent shall be reviewed every three years with effect from the date of this notification.

Joint Secretary to the Government of India

Conversion Factors to be used for assessing the annual energy consumption in terms of Metric Tonne of Oil equivalent (MTOE)

1 kWh	-	860 kilocalories (kCal)
1 kg. Coal/Coke	-	Gross Calorific Value as per supplier's (coal company's) latest certificate
1 kg. Charcoal	-	6,900 kCal or as per supplier's latest certificate
1 kg. Furnace Oil/ RFO/LSHS/NAPTHA	-	10,050 kCal (density = 0.9337 kg/litre) or as per supplier's latest certificate
1 kg. HSD	-	11,840 kCal (density = 0.8263 kg/litre) or as per supplier's latest certificate
1 kg. Petrol	-	11,200 kCal (density = 0.7087 kg/litre) or as per supplier's latest certificate
1 kg. Kerosene	-	11,110 kCal (density of SKO = 0.7782 kg/litre) or as per supplier's latest certificate.
1 kg. LPG	-	12,500 kCal or as per supplier's latest certificate
1 M <sup>3</sup> Natural Gas	-	8,000-10,500 kCal (Actual calorific value as per supplier's latest certificate will be considered.) In case of non-issue of certificate by the supplier, average of the range 8000 -10,500 kCal/M <sup>3</sup> will be considered).

Other Fuels/ waste material by product used as a fuel - Gross Calorific value as per the certificate from a NABL accredited laboratory / Central Government laboratory/ State Government laboratory / Government approved laboratory provided the fuel sampling for assessing the calorific value has also been carried out by the concerned laboratory.

- Note: 1. 1 kg Oil Equivalent : 10,000 kCal  
2. 1 Metric Tonne of Oil Equivalent (MTOE) : 10X10<sup>6</sup> kCal  
3. In case of coal, petroleum products and other fuels, in absence of the supplier's certificate (due to its non-issue by the supplier), the gross calorific value of the above fuels will be considered as per the Test Certificate from a NABL Accredited Laboratory/ Central Government Laboratory / State Government Laboratory or Government recognized Laboratory provided the fuel sampling for assessing the calorific value has also been carried out by the concerned Laboratory