Annexure - D

Proposed Energy Conversion Factors

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/liter) or as per supplier's latest certificate
1 kg HSD	-	11,840 kCal (density = 0.8263 kg/liter) or as per supplier's latest certificate
1 kg Petrol	-	11,200 kCal (density = 0.7087 kg/liter) or as per supplier's latest certificate
1 kg Kerosene	-	11,110 kCal (density of SKO = 0.7782 kg/liter) or as per supplier's latest certificate
1 kg LPG	-	12,500 kCal or as per supplier's latest certificate
1 m^3 Natural Gas	-	8,000-10,500 kCal (Actual calorific value as per supplier's latest certificate may be considered.) In case of non-issue of certificate by the supplier, average of the range 8000 -10,500 kCal/m^3 may be considered)

Sample Calculation: For example

Furnace oil consumption in a Hotel	= 50KL/yr = 50,000 Ltr/yr = 50,000 x sp. Gravity = 50,000 x 0.9337 = 46685 Kgs/yr
Thermal Energy Consumption in Mkcal	= 46685 x 10500/10^6 = 490 Mkcal/yr