REQUIREMENTS FOR LICENCES TO BE GRANTED PURSUANT TO THE APPLICATION FOR LICENCES (GENERATION, TRANSMISSION, SYSTEM OPERATION, DISTRIBUTION AND TRADING) REGULATIONS, 2006

An Application for a licence should be made using the prescribed form. In addition, an Applicant is also required to file an electronic version of the application using Microsoft office software format in a compact disk which must accompany the paper copies to be filed with the Commission.

The details of the general and specific requirements should be provided in the application form and/or attachment to the form. Care should be taken to endorse the name of the Applicant on all attachments.

PARTI GENERAL REQUIREMENTS

A. LEGAL

- 1. Certificate of Registration, Certificate of Incorporation, Memorandum and Articles of Association, Deed of Partnership, Deed of Trust (as Applicable)
- 2. Certified Audited Financial Statements and Accounts for the last or latest three years (if applicable)
- 3. Tax Clearance Certificate for the last or latest three years (if applicable)
- 4. Environmental Impact Assessment Report and approval
- 5. Agreements (e.g. PPA, FSA etc.), if applicable
- 6. Certificate of Occupancy for project site (if any)
- 7. Evidence of consents or permits from other relevant Authorities and Agencies relating to the Project.

B. FINANCIAL

- 1. Tariff methodology and calculation
- 2. Short term cash flow projection
- 3. Medium term cash flow projection
- 4. Funding arrangements
- Investment plans
- 6. Asset base
- 7. Risk Management Strategy
- 8. Management experience and depth

C. TECHNICAL

- 1. Details of experience in and knowledge of the electricity industry
- 2. Summary of skills and experience of the Directors and top management

PART II SPECIFIC REQUIREMENTS

TECHNICAL DATA REQUIREMENTS FOR A NEW POWER STATION

A. Site Information of Power Station

- Furnish location map to scale showing roads, railway lines, transmission lines, rivers, and reservoirs if any.
- li. For Hydro, map should show proposed dam, reservoir area, water conductor system, fore bay, powerhouse etc.
- iii. For Hydro station, provide information on area of villages, forestland, agricultural land etc. Submerged.

- iv. Fuel supply arrangement (contractual, gas and oil pipelines-where available)
- v. Furnish information on means of Coal transport from mines or means of coal carriage if coal is to be brought from distance.
- vi. In case of other fuels, furnish details of sources of fuel and their transport.
- vii. Water Sources (furnish information on availability of water for operation of the Power Station).
- viii. Environmental (State whether forests, wetlands, mining areas are affected).
- ix On the site map show area required for the following:
 - · Fuel delivery point,
 - · fuel storage space,
 - water pipe line,
 - liquid waste disposal area, -
 - ash disposal area (in case of coal plant)

B. Power Station Information

- i. Total Capacity (MW)
- ii. Number of Generating Units
- iii. Size of Generating Units (MW)
- iv. Fuel Type
- v. Annual Generation
- vi. Running Regime
- vii. Station load
- viii. Station Load Factor
- ix. Ancillary Services to be provided by station
- x. Single Line diagram of station including connection at Transmission Substation
- xi. Commissioning Date
- xii. State whether development will be carried out in phases and if so, furnish details.
- xiii. Information on waste handling and management

C. GENERATING UNIT INFORMATION

- i. Generator Type
- ii. Rating (MVA)
- iii. Terminal Voltage (KV)
- iv. Rated Power Factor
- V. Unit efficiency
- vi. Reactive Power capability (MVAr) in the range 0.95 leading and 0.85 lagging.

- vii. Short Circuit Ratio
- viii. Direct .axis transient reactance (% on MVA rating).
- ix. Direct axis sub-transient reactance (% on MVA rating).
- x. Auxiliary Power requirement.
- xi. Generator Transformer / Station Transformer:
 - Rated Capacity (MVA)
 - Voltage Ratio (HV/LV)
 - Tap change range (+%to-%)
 - Percentage Impedance (Positive Sequence at Full load).

Xii. Turbine (Thermal Power Plant)

- Boiler and Major accessories (for steam turbines)
- State Type
- capacity (minimum and rated)
- Steam pressure
- Steam temperatures (superheat and reheat)
- Heat Rates (minimum, maximum, incremental)
- Efficiency at rated capacity
- · Gas turbine pressure ratio
- Gas temperatures (gas turbine)

B. TECHNICAL DATA REQUIREMENTS FOR CAPTIVE/OFF GRID GENERATION

- i. Total Capacity (MW) per site
- ii. Number of Generating Units per site
- iii. Size of Generating Units (MW and MVA)
- iv. Fuel Type
- v. Terminal Voltage
- vi. Rated Power Factor
- vii. Reactive Power Capability
- viii. Noise Level (State distance from power plant)
- ix. Environmental Impact Assessment (for plants greater than 10MW) If EIA is not applicable, give detailed information on effluents and discharges and how they will be managed
- x. State if generator will be connected directly or indirectly to Distribution or Transmission Network.
- xi. Provide information on protective measures against infeed current (if applicable)