

A1. Thermal Power Plant

1	Applicant Name	
2	Contact Name	
3	Address and Applicant Details	

a) Connection

1	Connection Point	Indicates a single line diagram of the proposed Connection to the Transmission System in a hard and a soft copy.
2	Location	Represents the geographical area of the location of the object / objects in map. This map should be legible and not less than A3 format
3	Voltage	(kV) Voltage level in Connection points to the Transmission System
4	Planned Time	Average planned time for connection to the Transmission System

b) Plant Capacity

1	Total Capacity of the Plant (MW)	Condition of existing plants. Capacity of new plants, divided in phases
2	Number of units and their capacity	N x MW

c) Data of Generating Units

1	Steam Generating Unit	Condition,type, capacity,steam pressure,steam temperature,etc.
2	Steam Turbine	Condition,type, capacity.

3	Generator (Alternator)	<p>Type</p> <p>Nominal characteristics (S_n, P_n in MVA and MW) Nominal Voltage (U_{in} in kV)</p> <p>Power Nominal Factor ($\cos\Phi$) Capacity for Reactive Power (MVA_r) Short Circuit Power</p> <p>Directaxis transient reactance (in p.u. of MVA)</p> <p>Directaxis Sub-transient Reactance (in p.u. of MVA)</p> <p>Auxiliary Power Requirement (Own Needs) in MW</p> <p>Capability Curve of generator</p> <p>Short Circuit Saturation Curve</p>
4	Transformer of Generator-Transformer Block	<p>Type</p> <p>Nominal Power MVA</p> <p>Nominal Voltage kV</p> <p>Nominal Currents (HV/LV) in A</p> <p>Vector group</p> <p>Type of voltage regulator</p> <p>Positive sequence reactance (at maximum, minimum, normal Tap) (% on MVA)</p> <p>Positive sequence resistance (at maximum, minimum, normal tap) (% on MVA)</p> <p>Positive sequence resistance (at maximum, minimum, normal tap) (% of MVA)</p> <p>Zero sequence reactance (% of MVA)</p> <p>Tap changer range ($\pm\%$) and steps</p> <p>Type of Tap changer (off-load/on-load)</p> <p>Cooling type (ONAN/ONAF)</p>

d) Power for own needs

1	Total Power in MW and required MVA for auxiliary equipment	In MW and MVA
2	Total external power for Black-Start	In MW