

**DATA FOR ANNUAL SHUNT CAPACITOR REQUIREMENT STUDY**

1. Latest power Map (Enclosed)
2. Latest Political Map (Enclosed)
3. Maximum Load (MW)
  - 3.1. Maximum Load demand met and requirement of the constituent, Months and substation wise break –up (Sl.No.5 below) thereof during current year.
  - 3.2. Maximum Load expected to be met by the constituent during current year.
4. Expected new elements in the system during next year
  - 4.1 Sub-Station

Name	Voltage (kV)	Expected Load (MW)	Expected Shunt Capacitor (MVAR) to be installed
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- 4.2 Generating Station

Name	Unit No.	Generation Voltage	Rated Capacity (MW)	Maximum MVAR	Minimum MVAR	Name of nearest 132/220/400 kV Sub-Station to feed power to grid	Distance of the nearest sub-station (Km)
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- 4.3 Transformer

To be installed at Station	From Bus	To Bus	MVA Rating	Voltages (kV)		Reactance at own base	Transformer No.
				Primary	Secondary	% X	

- 4.4 Transmission Line

Voltage (kV)	From Bus	To Bus	Type of Conductor	Length (km)	Per Unit/km at 100 MVA base			Ckt No.
					R	X	B	

- 4.5 LILO of Line (if any)

Voltage (kV)	Name of the line		LILO at	Distance (km) of LILO point from		Total Length (km)
	From	To		First end	Second end	

- 4.6 T-off of line (if any)

Voltage (kV)	Name of the line		T-off at	Distance (km) of T-off point from		Total Length (km)
	From	To		First end	Second end	

5. Load and Shunt Capacitor (to be lumped at nearest 132/220/kV sub station) during current year.

Load sub-station wise

Sub-station	Voltage (kV)	Maximum Load (MW) during the year	Shunt Capacitor installed (MVAR)	Location
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