

## CHAPTER 1 : TRANSMISSION LINE DESIGN

### ASSIGNMENT -1

- ✓ State the factors to be considered in the selection of a voltage suitable for transmitting a certain amount of power over a given distance.
- ✓ Explain surge impedance loading.
- ✓ Write all steps required to design a transmission line.
- ✓ Explain reduction of tower footing resistance?
- ✓ Explain the factor while considering choice and spacing of conductors for transmission line design?
- ✓ Design a transmission line to transmit three phase 90 MW at 0.95 power factor lagging over a distance of 180 km.
- ✓ Derive the sag tension relation for a given span with towers at each end located at unequal level?