

8.3 Basic design requirements

To meet the varying needs in respect of soil conditions and loading quantum, several types of tower foundation have been used for the communication towers. Design philosophy of tower foundation should be closely related to the principles adopted for the design of towers, which the foundation has to support. It should take care of all the loads such as dead load, live loads, wind loads, seismic loads, erection loads etc. causing vertical thrust, uplift as well as horizontal reactions. For satisfactory performances, it should be stable and structurally adequate and be able to transmit these forces to the soil such that the limit soil bearing capacities are not exceeding.

