

Types of Transmission Towers and its Design

Rutuja Bandu Tongse¹ and Yash Raju Shendre²

Second Year Engineering, Department of Electrical Engineering¹

Third Year Engineering, Department of Electrical Engineering²

Jawaharlal Darda Institute of Engineering and Technology Yavatmal, India

rutujatongase828@gmail.com¹ and shendreyash9@gmail.com²

Abstract: *The efficient and reliable transmission of electrical power is crucial for modern society, necessitating the meticulous design and deployment of transmission towers. This research paper presents a comprehensive investigation into the various types of transmission towers and their corresponding design methodologies. The study focuses on lattice, monopole, and guyed towers, considering their structural characteristics, advantages, and limitations. The paper reviews existing literature on the mechanical and electrical properties of these tower types, analyzing their suitability for different geographical, climatic, and load-bearing conditions. Factors such as tower height, base width, material selection, and foundation design are explored in detail.*

Keywords: Efficient and Reliable Transmission, Design Methodologies, Load-Bearing Conditions, Tower Height, Base Width, Material Selection, Foundation Design.

REFERENCES

- [1]. Transmission tower (wikipedia.org)
- [2]. Electrical Desk - All About Electrical Engineering (electricaldesks.com)
- [3]. Transmission Towers: Types, Design & Parts | Electrical4U
- [4]. Electrical Transmission Tower: Types, Design & Parts (electricalvolt.com)