

PROJECT-2

TRANSMISSION MONOPOLE

1. Structural Raw Material

A. Steel plates

- Type: Hot rolled steel plates
- Thickness: 6 mm to 40 mm depending on pole design
- Material Grades:
 - *IS 2062 Grade E350/E410 (INDIA)*
 - *ASTM A572 grade 50 / grade 65*
 - *EN 10025 S355JR / S460NL*

B. Anchor Bolts / Base Bolts

- Material: High-tensile steel
- Common Grades: *ASTM A193 B7, IS 1367, ISO 898-1 Grade 8.8 or 10.9*

2. Galvanization (Corrosion Protection)

- Process: Hot-Dip Galvanizing
- Standard: *IS 2629 / IS 4759 (INDIA)*
ASTM A123 / A153 (USA)
ISO 1461 (INTERNATIONAL)
- Zinc Coating thickness:
 - 610 g/m² for steel 6mm
 - Verified by coating weight test and thickness gauge

3. Standards to follow:

ISO 2026, IS 4759, IS 2629, ASTM A572, IEC 60650, IS 802(Part 3), AWS D1.1