

**TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED**

From  
Chief Engineer/Construction  
APTRANSCO  
Vidyut Soudha  
Vijayawada.

To  
The Chief Engineer  
Vijayawada Zone  
Visakhapatnam Zone  
Kadapa Zone

O/o. Chief Engineer Telecom & IT  
Vidyut Soudha, Gunadala, Vijayawada.

Inward No: 2466 Sub: 2) General guidelines for Ruling Spans of 132kV & 220kV transmission lines communicated for better construction of transmission lines in APTRANSCO - SE / C Communicated - Regarding.

SE / C  
ADE / T  
CE/ITC

Lr.No.CE/Const/DE/Designs/D.No. 01 /2018, Dt. 01 /02/2018.

It is observed that, repeatedly queries are being raised regarding ruling span of various towers in APTRANSCO. The following general guidelines for better construction of lines & Substations in APTRANSCO are herewith communicated to follow scrupulously.

Tower spotting data for 132 kV and 220 kV transmission lines is same in respect of Wind zone-3 & Wind zone-5 as there are no separate towers for different zones.

Hence the following spans may be considered while spotting tower schedule

| S.No | Ruling Span to be considered | Conductor | Type of towers                                    |
|------|------------------------------|-----------|---|
| 1    | 320                          | Panther   | 132kV P,R,S (Double Circuit)                      |
| 2    | 320                          | Panther   | 132kV K,L,M (Multi Circuit)                       |
| 3    | 300                          | Panther   | 132 kV;NB 60 Deg 3.74 m B/W (Double Circuit)      |
| 4    | 120                          | Panther   | 132 kV;NB 1.2 m B/W (Double Circuit)              |
| 5    | 300                          | Moose     | 220kV X,Y Z (Multi Circuit)                       |
| 6    | 350                          | Moose     | 220kV L& T A,B,C,D (Double Circuit)               |
| 7    | 380                          | Zebra     | 220kV TSP AS,BS,CS,AV (Double Circuit)            |
| 8    | 350                          | Moose     | 220kV TSP AS,BS,CS,AV (Double Circuit)            |
| 9    | 250                          | Moose     | 220 kV ;NB 60 Deg (C-Type) (Double Circuit)       |
| 10   | 350                          | Moose     | 220kV EMC AA,AB,AC,AD (Twin Moose Double Circuit) |
| 11   | 150                          | Moose     | 220 kV NB: NA,NB,NC,ND (Double Circuit) 2.2 m B/W |
| 12   | 250                          | Moose     | 220 kV NB: NMA,NMB,NMC,NMD (Multi Circuit)        |

It is also requested to ensure to adopt proper Sag template Curve, while spotting the towers on Profile. If there is change in conductor/ tower, clarification may be obtained from Designs Division.

The Moose Sag template Curve available for 220kV L&T Towers is being used for other towers also which will over load the towers. Hence separate templates shall be obtained duly loads compensated from Designs Division for other type of towers being used in 220 kV lines .

AMEZ  
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8/2/18

*[Signature]*  
**CHIEF ENGINEER  
CONSTRUCTION**

To  
The Chief Engineer/LIS  
The Superintending Engineer/PM/Construction  
The Superintending Engineer/Lift Irrigation Schemes  
All The Superintending Engineers/OMC/Construction  
The CE/Telecom& IT/VS/VJA

with a request to  
communicate the  
guidelines in their  
jurisdiction up to  
A.E. level.

**With a request to arrange to upload in the official web site by making a new folder as "Tower Spotting data" in "Towers & Structures head".**

*[Handwritten initials]*  
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