

**Full Title of the Project:** Diversion of 18.86 Ha of Forest area in Guntur Forest Division for laying of 765kV D/C Warangal (New) - Chilakaluripeta Transmission line by Warora – Kurnool Transmission Limited.

**Justification for locating the project**

The Warangal (New) - Chilakaluripeta 765kV D/C Transmission Line starting from 765/400KV Warangal (New)(Telangana) Switchyard to Chilakaluripeta substation(Andhra Pradesh) of PGCIL, passing through district of Telangana and Guntur district of Andhra Pradesh. The route of the above line is passing through the Reserve forest patch along the State boundary of Andhra Pradesh, having forest area of 18.86Ha. The chosen route is optimal route with minimum forest area involved in the project along with best construction and maintenance facility and cost efficient.

A detail comparison of all the three alternative marked on the Survey of India Toposheet with different colour is as below:

<b><u>Comparative Statement for 3 Alternative Routes</u></b>				
<b>Sr. No.</b>	<b>Description</b>	<b>Alt-I(Proposed)</b>	<b>Alt-II</b>	<b>Alt-III</b>
1	Bee line length	185.90Km	185.90Km	185.90Km
2	Line Length	196.10Km	196.27Km	196.27Km
	Length in Andhra Pradesh	65.51Km	65.38Km	65.420Km
3	Angle Towers	91Nos	102Nos	105Nos
4	Total Forest in route	18.86 Ha	19.70 Ha	19.22Ha
	Forest area in Andhra Pradesh	18.86 Ha	19.70 Ha	19.22Ha
5	Wild Life Sanctuary or its Buffer Zone	No	No	No
6	Establishment and villages	No	Near to villages	Near to villages

Referring to the above comparative statement for alternative routes, all the three routes are positioned on either side of BEE line. After initial inspection over survey of India maps and satellite image, all three routes were explored for best and optimal route. Special attention has been given to forest, power line crossings, Road crossings and Railway crossings and habitation. After detail analysis Route 1 has been observed as most viable.

Line survey has been done with goal to reduce the forest area but as there is forest patch all along the boundary of Andhra and Telangana state boundary, hence had to pass through the reserve forest which is the minimum area and which could not have been avoided.

