

Justification for locating the Project in Forest area: -

(a) Information in brief about three alternative lines:

Line No. – I: -

The Length of the transmission **Line - I** is **36.187 Km** and the corridor area is **126.654 ha**, which includes total **Forest land** of **79.438 ha** (R.F. = 31.080 ha, Revenue Forest = 48.358 ha) and non-forest land of **80.339 ha**. This line requires to construct **131 nos.** of Towers (AP Towers = 29 nos. and Normal Towers = 102 nos.), out of which **65 nos.** (AP Towers = 12 nos. & Normal Towers = 53 nos.) of Towers are falling in Forest land. This line passes through an undulated lands and involves more hilly area (24.450 ha). The cost analysis of this project is **Rs. 28,88,56,825.23** (Rupees Twenty Eight Crore Eighty Eight Lakh Fifty Six Thousand Eight Hundred Twenty Five & Twenty Three Paisa) only.

Line No. – II: -

As per route survey, the Length of **Line - II** is **37.770 Km** & the corridor area of **132.196 ha** with the RoW (Right of Way) of 35.00 Mtrs. (Width of transmission line). The line involves with the R.F./ P.F. area of **4.499 ha**; whereas, the involvement of Revenue Forest land is **44.283 ha**. So, involvement of the **total forest land** is **48.782 ha** and **non-forest land** is **83.414 ha**. It covers a very less hilly area & undulated topography. For construction of this line, **146 nos. of Towers** are to be erected, out of which Angle Point (AP) Towers will be 46 nos. and balance 100 nos. are Normal towers. In forest land, **52 nos.** of Towers (AP Towers = 16 nos. & Normal Towers = 36 nos.) are to be erected. The estimated cost is about Rs. **30,14,92,864.54** (Rupees Thirty Crore Fourteen Lakh Ninety Two Thousand Eight Hundred Sixty Four & Fifty Four paisa) only. For construction of this line an area of **48.782 ha** of **forest land** has been proposed to be diverted, which is the lowest area amongst three alternative lines.

Line No. – III: -

The transmission **Line - III** is having a length of **38.426 Km** covering a total corridor area of **134.491 ha**, which includes Forest land of **69.256 ha** (Reserved Forest of **26.565 ha** & Revenue Forest of **42.691 ha**) and non-forest land of **65.235 ha**. A total Tower of **137 nos.** are required for construction of this line, out of which AP Towers = 31 nos. & Normal Towers = 106 nos. Within the Forest land, **57 nos. of towers** (AP Towers = 13 nos. & Normal Towers = 44) are to be erected. The analysed cost is **Rs. 30,67,29,277.54** (Rupees Thirty Crore Sixty Seven Lakh Twenty Nine Thousand Two Hundred Seventy Seven & Fifty Four Paisa) only. The Line – III has also undulated topography and involves **19.565 ha** of hilly area.


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(b) Justification for selecting Line - II: -

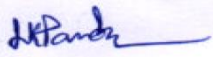
To provide assured and quality power supply in Chitrakonda, Malkangiri, Kudumuluguma & Khairput Tahasils of Malkangiri district & its adjoining area in Koraput district, Odisha Power Transmission Corporation Limited (OPTCL) has proposed for construction of 220 Kv LILO transmission line from Existing LoC 70 of 220 kV Malkangiri - Balimela transmission line to 220/ 33 Kv Grid Sub-Station, Khairput, Govindpalli in Malkangiri District, Odisha.

During field survey, three alternative Lines were identified. The comparative statement of the forest area and other information involved for alternative Lines are given in **TABLE – A** of the Forest Diversion Proposal. After avoiding Dense Vegetation, Hilly Area, Human Habitation, Forest Plantation and Dense Village Forest, **Line No: - II** is found to be most optimized route.

EHT Transmission line can't take frequent turn because of limitation of turn (maximum 60⁰) and other technical constraints. This line covers a distance of **37.770 Km** and corridor area of **132.196 ha** having a width (RoW) of 35.00 Mtrs. including total forest land of **48.782 ha** (4.499 ha is R.F. & 44.283 ha is Revenue Forest land). For construction of this line, a total number of **146 towers (52 nos. are in Forest land)** are to be erected. There will be **46 nos.** of Angle Point Towers (**16 nos. are in Forest land**) & **100 nos.** of Normal Towers (**36 nos. are in Forest land**) within the total corridor area.

This project will also improve the voltage profile of nearby villages like: Mathili, Mudulipada, Khairput, Govindpalli & Kudumulugumma of Malkangiri district, which will result in quality and stable power supply to the remote corner of the district. Also it may meet the required demands of the consumer and may cater the new upcoming loads as well as generating stations, which will be added in LT system through ongoing DDUGKY, BGJY, BSVY and other electrical development scheme undertaken by both State and Union Government.

Further due to assured as well as quality power supply many industries, mega lift Irrigation Projects will be attracted to set up in the district and indirectly this will also create huge employment opportunities and help in improving the standards of the local people. Uninterrupted power supply to Schools/ Colleges, Hostels and Hospitals will also help for development of education and medical facility, respectively.


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