

Full Title of the Project: Diversion of 8.763 Ha of Forest area in Jamshedpur Forest Division for laying of 132kV D/C Bahragoda - Dhalbhumgarh Transmission line by Jharkhand Urja Sancharan Nigam Limited (JUSNL).

Justification and comparison for locating the project

The 132kV D/C Bahragoda - Dhalbhumgarh Transmission line starting from existing Substation in Dhalbhumgarh Block of East Singhbhum and terminating at 132/33kV Behragoda Switchyard at Bahragoda Block. The route of the above line is passing through the Protected forest patch in 8 villages, having forest area of 8.732 Ha. 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:

Sr. No.	Description	Alt-1(Proposed) (Red)	Alt-2 (Blue)	Alt-3 (Green)
1	BEE Line	27.27 KM.	27.27 KM.	27.27 KM.
2	Line Length	32.145 KM.	30.86 KM.	31.68 KM.
3	Angle Points	40	40	39
4	Forest length	3.245 KM.	4.45 KM.	5.38 KM.
5	Forest Area	8.763Ha	12.015 Ha	14.526 Ha
6	Power Line (132KV & Above)	6 Nos.	6 Nos.	10 Nos.
7	Railway crossings	0 Nos.	0 Nos.	0 Nos.
8	NH	1 No.	1 No.	1 No.
8	River crossings	0 Nos.	0 Nos.	0 Nos.
9	Air Port	2.5 KM Away (Emergency Air strip Dalbhumgarh)	2.5 KM Away (Emergency Air strip Dalbhumgarh)	2.5 KM Away (Emergency Air strip Dalbhumgarh)

RESULTS & CONCLUSION

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.


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Line survey has been done with goal to reduce the forest area but as there is forest patch all along District(30% of geographical area), hence had to pass through the Protected forest which is the minimum area and which could not have been avoided.

The Alternate Route No.1 is supposed to be the best option & is recommended in comparison of other alternate routes because as per the Route alignment survey the approximate length of Transmission Line Corridor is 32.145 Km, and forest cover is 8.763Ha which is optimum. We have crossed minimum nos. of power line and forest area.



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