

DETAIL NOTE ON PROJECT

BRIEF DETAIL OF 132 kV D/C BAHRAGODA - DHALBHUMGARH TRANSMISSION LINE BEING CONSTRUCTED BY JHARKHAND URJA SANCHARAN NIGAM LIMITED (JUSNL).

The government of India has identified the power sector as a key sector of focus to promote sustained industrial growth. It has embarked on an ambitious mission - "Power for all" backed by extensive reforms to make the power available to each household. JUSNL is fully committed to provide uninterrupted Power supply to each village by strengthening the grid and connectivity between them.

With this view, JUSNL is developing a transmission line from existing Dhalbhumgarh substation to newly constructed 132/33kv 100MVA Bahragoda Sub station. The 132kV D/C Behragoda Dhalbhumgarh Transmission line, line length of 32.145Km is passing through 3 blocks Bahragoda, Chakulia and Dhalbhumgarh of East singhbhum District. Total of 27 villages are involved in the project. Since this is a linear project, hence gram sabha consent is not required in the project nor environment clearance is required.


Transmission line projects are environmentally friendly and do not involve any disposal of solid effluents and hazardous substances in land, air and water. The constructional features of 132KV D/C line is such that it is not affecting the environment as it's not dividing the existing forest because of long spans between the towers (320 Mtrs). Layout of transmission line follows along the forest road / forest block boundary thus involving minimum tree felling and also allowing free movement of birds and cattles due to high ground clearance of lower most conductors which is 6.1 meters. The spacing between the phase conductors is maintained as per guidelines which makes the free movement of birds as well. A very small space is required for the construction of tower foundations (10 X 10 Mtrs). The tower foundations are under the ground (3 Mtrs) and a small portion of 0.50X0.50 Mtrs are elevated as plinth. There is also no muck disposal in transmission line as the excavated soil will be filled back and compacted. For the construction of line, as per telegraph act 1885 and electricity act 2003, land is not acquired. The land ownership on which the tower is constructed will be unchanged and will remain in original owner name.

The Bahragoda – Dhalbhumgarh 132 kV D/C Transmission Line starting from Dhalbhumgarh Switchyard located at Banskatiya village in Dhalbhumgarh Block and terminating at 132/33KV Bahragoda GSS located at Sinhpur village of Behragoda block, East Singhbhum. It will create the employment opportunity for local villagers during the construction phase (18 Months) and later on for maintenance of Transmission line, hence affecting the life of village people directly. In indirect as the project is to strengthen the power system in East Singhbhum District, hence would encourage industries in the region resulting employment opportunity.


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TRANSMISSION LINE DETAILS:-**132 KV D/C BAHRAGODA DHALBHUMGARH TRANSMISSION LINE**

Sr. No.	Item	Details
1	Total Length 132KV D/C Bahragoda Dhalbhumgarh Transmission Line	Total Line Length: 32.145Km
2	Total No of Towers to be erected	Total towers: 130Nos.
3	District details and forest division details through which line is passing	District: East Singhbhum (Bahragoda, Chakulia and Dhalbhumgarh Blocks) Forest Division: Jamshedpur (Chakulia Range)
4	Area of the Protected forest through which line passes.	Jamshedpur Forest Division - 8.763Ha
5	Total No. of Tower to be erected in Forest area in Telangana.	Affected towers in Forest area -18 Nos.
6	Ground clearance of lowest conductor of line	6.1 mtrs Mtrs
7	Maximum width of Right of Way for 132 KV D/C Transmission Line	27 Meters (As per MoEF Guideline dated 5 th May 2014)
8	Width below each conductor for which tree felling is permitted	3 mtr below each conductor.
8	Minimum Clearance allowed between conductors of transmission lines and Trees	For 132KV, 4 Meters.


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