

**Justification for selection of Alternative-I for construction of
LILO of Both Circuits of Rourkela-Raigarh 400KV D/C transmission line (2nd
line) at Jharsuguda (Sundargarh) Sub-Station.**

Comparative statement of route alignment alternate-I, II & III

SL NO	DESCRIPTION	ROUTE-I		ROUTE-2		ROUTE-3	
1	Route particulars	Double Circuit	Multi Circuit	Double Circuit	Multi Circuit	Double Circuit	Multi Circuit
i	Line Length in KMs	22.542	20.300	40.958	17.785	24.260	23.640
	Total Length in KMs	42.842		58.743		47.900	
ii	No. of towers	58	61	120	53	70	68
	Total No. of towers	119		173		138	
2	Forest Details						
a	Area of forest involved,	24.424 Ha		33.778 Ha		35.845 Ha	
b	Density of forest	< 0.35		< 0.40		< 0.40	
c	Type of Fauna & Flora	Sal, Kendu, Sahaj, Char, Mahua, Mai, Karala, Kanarag, Bija, Asan, Kusum, Dhaura, Kahawa, Harida, Neem, Mango, Senha etc. Likewise Snakes, wild Pig, Barking Bear, Bear, Jackal, Fox and Hare are seen in the locality.		Mahua, Bija, Neem, Kusum, Karala, Kanarag, Sal, Kendu, Sahaj, Char, Mai, Kahawa, Harida etc. Likewise Snakes, wild Pig, Barking Bear, Bear, Jackal, Fox and Hare are seen in the locality.		Karala, Kanarag, Bija, Asan, Kusum, Dhaura Sal, Kendu, Sahaj, Char, Mahua, Mai, Kahawa, Harida etc. Likewise Snakes, wild Pig, Barking Bear, Bear, Jackal, Fox and Hare are seen in the locality.	
d	Any other environment sensitive area	No		No		No	
e	Wild life area/ Biosphere reserve	No		No		No	

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f	Endangered species if any	No	No	No
g	Historical/Cultural monument	No	No	No
3	Other Details			
A	House with ROW	Nil	Nil	Nil
4.	No. of Crossings			
A	Railway	Nil	Nil	Nil
B	Power line	Nil	Nil	Nil
C	River	02	02	02
D	Coal belt/pipe Line/ Gas Line	Nil	Nil	Nil

Note:

As per details given above, it is observed that the route Alignment Alt-I has least involvement of forest land, least forest density etc. In view of above, ALT-I has been chosen for construction of transmission line.


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