

765 kV D/C LAKADIA – BANASKANTHA TRANSMISSION LINE

JUSTIFICATION FOR PROPOSED ROUTE & DETAIL OF ALTERNATIVES EXAMINED FOR THE TRANSMISSION LINE

During the selection of route for 765 KV D/C Lakadia-Banaskantha Transmission line, utmost emphasis was made to align the route through non-forest land. Wherever it was not possible to avoid the forest land in the route, it was ensured that the line passes through minimum forest land by keeping the line length as short as possible through the forest stretches.

As per the methodology adopted, a master mosaic of TOPO Maps of Survey of India is prepared and a BEE Line is drawn between the starting and ending point of transmission line.

S. No.	Description	ALTERNATIVE-I (PROPOSED ROUTE)	ALTERNATIVE-II	ALTERNATIVE-III
1	BEE LINE (Kms.)	165.408	165.408	165.408
2	Length of alternatives (Kms.)	176.148	185.404	181.627
3	Transmission line color	Red	Blue	Green
4	Total Forest area Involvement	25.1315 ha (i.e. RF & SF: 21.2445 ha Forest inside WLS: 3.8870 ha)	51.280 Ha. (i.e. RF & SF: 40.7811 ha Forest inside WLS: 10.4989 ha)	38.987 Ha. (i.e. RF & SF: 34.6655 ha Forest inside WLS: 4.3215 ha)
5	Wild Ass Sanctuary (WAS) Area			
	Length of line through "WAS"	1.599 Kms.	1.948 Kms.	3.294 Kms.
	Area of "WAS" (Ha.)	9.749 Ha. (i.e. Forest: 3.8870 ha Non forest: 5.8620 ha)	13.0516 Ha. (i.e. Forest: 10.4989 ha Non forest: 2.5527 ha)	22.0698 Ha. (i.e. Forest: 4.3215 ha Non forest: 17.7483 ha)



6	National Highway Crossing	3 Nos.	4 Nos.	3 Nos.
7	Railway Line Crossing	2 Nos.	4 Nos.	2 Nos.
8	Power Line Crossing	33 nos.	39 Nos.	41 nos.
9	Historical/Cultural Monuments	NIL	NIL	NIL

Three alternatives are explored along the Bee Line keeping the in view the design considerations, environmental forest and wildlife impacts, avoid habituated areas, keeping the crossings of Roads and Highways, Power Lines and Railway lines etc. to minimum. The route was marked on the TOPO Sheets and corresponding GPS co-ordinates were obtained for all the Alternatives. Thereafter, walkover survey of all the routes was carried out to ascertain the features along the routes and select the most suitable route for the transmission line. An exhaustive exercise was carried out during the survey to select the route keeping the involvement of forest land and wildlife sanctuary area to minimum.

A comparative statement along with salient features of all the three alternatives is as below:

As can be seen from the above comparative statement forest area and wildlife sanctuary area involvement in Alternative-I is least among all the three alternatives i.e. only 25.1315 ha and cannot be avoided. In addition, the length of line shall be shortest along the Alternative-I among the three. The crossings of existing power transmission lines, railways and Highways is also less in comparison to other alternatives. Keeping in view the advantages as stated above, Alternative-I is found to be most suitable from technical, environmental, forests & wildlife and implementation and O&M point of view and thus is considered to be adopted for laying of the transmission line.

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