

TABLE 1				
Comparative Statement of three alternate routes for 400 kV D/C (Quad) Jigmelling - Alipurduar Transmission Line (Assam Portion) from Bhutan Border to Bengal Border (ER-II)				
Item description	Route Alignment - 2	Route Alignment - 1	Route Alignment - 3	
1 Route Length	105.32 km	109.307 km	112.52	
2 Terrain Description	Plain (90 %) Hilly (10%)	Plain	Plain	
3 Quantity of Angle Tower	134	137	150	
4 Environmental Details				
i. Towns in Alignment	5	7	7	
ii) No. of house in ROW	50	None	20	
iii. Trees / Crops & its extent of damage	84 % line will pass through RF/PF area. & heavy Tree cutting/felling will be required	41.2 % line will pass through RF/PF area which is unavoidably & rest will pass through cultivated, paddy land and some villages with other seasonal vegetation etc.	70 % line will pass through RF/PF area rest will pass through cultivated, paddy land and some villages with other seasonal vegetation etc.	
iv. Forest Involvement				
v. Forest Area in Km	88.2 km	45 km	78.4 km	
vi. Type of Fauna	Sai, Gamari, Simulu, Jia, Sisu, lali Tita, Cham, kadam, Ajar, Jamun Shisham	Sai, Gamari, Simulu, Jia, Sisu, lali Tita, Cham, kadam, Ajar, Jamun	Sai, Gamari, Simulu, Jia, Sisu, lali Tita, Cham, kadam, Ajar, Jamun	
vii. Forest type	Heavy Dense forest & Large Tree	Forest	Forest	
viii. Endangered species	Golden, Lengur, Mongoose	Golden, Lengur, Mongoose	Golden, Lengur, Mongoose	
5 Compensation Cost	High due to involvement of more forest area	Low due to involvement of less forest area and less route length	High due to involvement of more forest areas and more route length	

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6	Construction problem	Forest clearance will cause serious problem during construction because sanctuary reserved forest is situated nearby the line. Accessibility is not available for construction & maintenance in future	Forest Clearance will create construction problem but it is unavoidable. Other than that all the area is easily accessible for construction and maintenance purpose.	Forest clearance will cause construction problem but forest area is unavoidable. Additionally tea Garden & rubber plantation involved in the line
7	O&M problems	Due to presence of Dense Forest the accessibility is difficult in O&M stages	Forest /Trees will sometimes cause problems in O&M stages. However, can be attended fast as there will be possible accessible along the line	Forest /Trees will sometimes cause problems in O&M stages. However, can be attended fast as there will be possible accessible along the line
8	Overall remarks	Technically & economically less feasible due to large & dense forest area.	Technically & economically most feasible route in view of involvement of less forest area & less route length	Technically feasible but involvement of forest area & route length is more as compared to alternative route

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4.0 RECOMMENDATION

The Route Alignment no. **1** is proposed for construction of 400 Kv D/C (Quad) Jigmelling – Alipurduar Transmission line on the basis of following consideration:

- i. Minimum development required for construction of line
- ii. All the Towers/Angle points are on safe places considering the required clearances
- iii. Less forest area is involved as compare to other routes
- iv. Easy access to all tower locations for construction and maintenance purpose as compare to other routes.

5.0 DESCRIPTION OF PROPOSED ROUTE

The detail description of proposed preliminary survey route (Route Alignment no. **1**) along with bend points, crossings and landmark details are presented in ~~table 2~~ Annexure -

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