



Table - 1

Comparative Statement of three alternate routes for 400 KV D/C (Twin) New Mariani – New Kohima Transmission Line

Sl No	Item Description	Route Alignment - 1	Route Alignment - 2	Route Alignment - 3
1	Route Length	119.99	131.23	110.98
2	Terrain Description	Plain (66%) Hilly (34%)	Plain (11%) Hilly (89%)	Plain (87%) Hilly (13%)
3	Quantity of Angle Tower	146	205	135
4	Environmental Details			
4.i	Towns in Alignment	2	3	2
4.ii	Trees / crops & its extent of damage	3.75% of line will pass through RF area which is unavoidable and rest will pass through cultivated, paddy lands and some villages with other seasonal vegetations etc.	8.96% of line will pass through RF area and heavy tree cutting and felling will be required.	30.81 % of line will pass through RF area which is unavoidable and rest will pass through cultivated, paddy lands and some villages with other seasonal vegetations etc.
4.iii	Forest Involvement			
4.iv	Forest Area in Km	4.487	11.770	34.203
4.v	Type of Fauna	Hangalu, Bhatila, Hilka, Poma, Karmar, Gamari, Mango, Jamun, Jackfruit.	Eucalyptus, Bhatila, Hilka, Poma, Karmar, Gamari, Shisham, Kadam, Sishu.	Hangalu, Bhatila, Hilka, Poma, Karmar, Gamari, Mango, Jamun, Jackfruit, Simul.
4.vi	Forest Type	Forest	Heavy dense forest & large trees	Forest
4.vii	Endangered species	Monkey, Fox and Wild Boar	Monkey, Fox and Wild Boar	Monkey, Fox and Wild Boar



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**KOHIMA-MARIANI
TRANSMISSION LIMITED**

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SI No	Item Description	Route Alignment - 1	Route Alignment - 2	Route Alignment - 3
5	Compensation Cost	Low due to involvement of less forest area and less route length	High due to involvement of more forest area	High due to involvement of more forest area and more route length
6	Construction problem	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 create construction problem but it is unavoidable. Accessibility is not available for construction & maintenance in future.	Forest clearance will create construction problem but it is unavoidable. Additionally tea garden and rubber plantation also involved in the line.
7	O&M problems	Forest and trees will sometimes cause problems in O&M stage. However can be attended fast as there will be possible accessibility along the line.	Due to presence of dense forest, the accessibility is difficult in O&M stage.	Forest and trees will sometimes cause problems in O&M stage. However can be attended fast as there will be possible accessibility along the line.
8	Overall remarks	Technically & economically most feasible route in view of involvement of less forest area and less route length.	Technically & economically less feasible due to dense forest area.	Technically feasible but involvement of forest area and route length is more as compared to alternative route.

