

POWERGRID CORPORATION OF INDIA LIMITED
(PGCIL)

PRELIMINARY SURVEY REPORT

**Conducting Reconnaissance / Preliminary Survey towards the work
for erection of 132 KV SC DAPORIJO - NACHO Transmission Line under
Comprehensive scheme for strengthening of T&D system in Arunachal
Pradesh (Package TW13)**

EXECUTED BY

M/S. TATA PROJECTS LIMITED

SURVEYED BY

TATA PROJECTS LIMITED

COMPARATIVE STATEMENT

Sl No.	Description	Alternative 1	Alternative 2	Alternative 3
1	BEE Line	59.623 KM	59.623 KM	59.623 KM
2	Proposed Line Length	72.837	72.472 KM	72.106 KM
3	Angle Points	165	137	138
4	Power Lines (132 KV & Above)	Nil	Nil	2 Nos 132 KV SC Line
5	Railway Crossings	Nil	Nil	Nil
6	NH Crossings	NH 13 (2 time)	NH 13 (1 time)	NH 13 (1 time)
7	Major River Crossings	Subansiri River (1 Time)	Subansiri River (1 Time)	Subansiri River (1 Time)
8	Forest	Forest	Forest	Forest
9	Tree Cutting / Density of Forest	Low Density / Low cutting of trees	High Density / More cutting of trees	High Density / More cutting of trees
10	Wildlife Sanctuaries	Nil	Nil	Nil
11	Major Infrastructure like Oil pipe line, coal belts etc.	Nil	Nil	Nil
12	Restricted area such as military / Civil Air field	Nil	Nil	Nil
13	Plantations such as tea garden, tabaco garden, rich plantations etc	In some locations towers are spotted at the edge of the tea/orange gardens & Cardamom field	Some towers along with corridor are falling in the tea/orange gardens & Cardamom field which are unavoidable	Some towers along with corridor are falling in the tea/orange gardens & Cardamom field which are unavoidable
14	Terrain	Hilly	Hilly	Hilly
15	ROW Issues	Less	More	More
16	Operation & Maintainance	Quite feasible	Less feasible due to hilly terrain and no approach road	Less feasible due to hilly terrain and no approach road



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RESULTS AND CONCLUSION

The following Observations can be made from the above Comparative statement between the three Alternative routes and for proposing Alternative Route 1 as the best feasible route

- 1 The alignment of the three alternative routes has been surveyed carefully. All the three alternative routes are passing through hilly terrain and forest. Considering ease of construction, Operation & Maintainance, some locations of Alternative 1 has been allign through flat areas and nearby the road sides as compared to the two other alternative routes which is economically benifit for the project.
- 2 As it was not possible to avoid the total forest areas in the state of Arunachal Pradesh therefore special care has been taken during the alignment of the three alternative routes. From the survey results, Alternative route 1 is passing through a low density forest while the other two alternative routes are passing through very thick forest which can lead to cutting of more number of trees.
- 3 It has been observed from the survey results that some tower locations along the corridor of alternative route 2 & alternative route 3 are passing through tea garden and Cardamom fields which can create ROW during the construction time
- 4 The alternative route has been alligned mostly near the National Highways, village roads such that there will be approach road for transportation of construction materials, tower parts to the tower locations and therefore project time will be saved. Also in Operation & Maintainance point of view, Alternative route 1 will be most feasible as compared to the other two alternative routes.

Hence considering the above, Alternative route 1 will be the best feasible route in all aspects and therefore it is proposed as final route for the execution of 132 KV SC DAPORIJO-NACHO transmission line under package TW13.



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