

Subject: Submission of 0.3962 Hac. Forest land proposal for Diversion for Social Forest Land proposal for New Tapping line from 66KV Bhilad-Sarigam line no-2 from Loc No-22(T) to 66KV Sanjan-Palgam line Loc no-3(T) with 630sq.mm (3+1) Under Ground power cable.

Check list No-4
(Online-FORM-A PART-I D(i))

DETAIL NOTE ON ROJECT FOR JUSTIFICATION FOR AREA SELECTION

In consideration of the requirements of environment parameter, construction methodologies to be adopted for different terrain encountered en-route, design & engineering factor, availability of logistic support during construction, operation & maintenance of line, various feasible route were identified by M/s. Gujarat Energy Transmission Corporation Ltd. based on system study, desk review, topographic - map, Forest map, existing publication materials, walkover survey augmented by GPS. During route alignment all possible efforts are made to avoid the forest area involvement completely or to keep it to the barest minimum. Moreover, in Protected / Reserved forest area trees are felled only in below each conductor to facilitate stringing. On completion of construction only one such strips is maintained for O & M purpose. And direct or indirect approximaly 35 villages approximately 4.5 lacs people can get benefit from the project. These areas of Umargam taluka area so remote area and tail end of Gujarat State and required to be developed as per Government of Gujarat TASP scheme and after commissioning New Tapping line from 66KV Bhilad-Sarigam line no-2 from Loc No-22(T) to 66KV Sanjan-Palgam line Loc no-3(T) with 630sq.mm (3+1) Under Ground power cable. remote area of Umargam around these villages will get quality and continuous power supply from this line respectively. (Total" 0.1892 Hac Diversion of Social Forest land required)

Factors considered

- i) The route of the proposed transmission line does not infringe any human habitation.
- ii) Any monument of cultural or historical importance is not affected by the route of the transmission line.
- iii) The proposed route of transmission line does not create any threat to the survival of any community with special reference to Tribal Community.
- iv) The proposed route of transmission line does not affect any public utility services like playgrounds, schools, other establishments etc.
- v) The line route does not pass through any sanctuaries, National Park etc.
- vi) The line route does not infringe with area of natural resources.

Sensitive areas and settlements at execution stage

- 1 As a rule, alignments are generally kept 10-15 km away from major towns, whenever possible, making a provision for future urban expansion.
- 2 Similarly, forests are avoided to the extent possible, and when it is unavoidable, a route is selected in consultation with the local Divisional Forest Officer, that causes minimum damage to existing forest resources.
- 3 Selected Alignments do not infringe wetlands and unstable areas for both financial and environmental reasons. Additional care has to be taken to avoid National parks and sanctuaries and any other forest area inhabited by wild life.

Keeping above factors in mind three alternative routes are proposed. As such, different alternatives were studied with the help of Govt. published data like Forest atlas, Survey of India topo maps, satellite imageries etc. to arrive at most optimum route which can be taken up for detailed survey and assessment of environmental and social impacts for their proper management.

The details of final approved route

Sr. no.	Description	Final Route
1	Line length	6.550 KM
2	Class of Forest (R.F. / S.F.)	R.F.: - Nil- Hectors S.F.: - 0.3962 Hac.
3	Transportation & Maintenance	100 %
4	Hilly Terrain Area	Partially Hilly
5	Power line Crossing	Nil.
6	Railway Line Crossing	Nil
7	Minor River Crossing	Total : - 03 River Crossing
8	Plain Terrain	65 %
9	Undulated Land	NIL
10	Creek Area	NIL
11	Marshy Area	NIL
12	Special Tower (FDN)	NIL
13	Population	Avoided
14	Major Cities	Avoided
15	Densely Populated Area	NIL
16	Air Port	NIL
17	Sanctuary Area	NIL
18	Defense Area (Military Areas)	NIL
19	Major Road Crossing	Nil
20	Major Canal crossing	Nil

The final route selected & approved by GETCO is ideal, feasible & shortest.

For Gujarat Energy Transmission Corp. Ltd.


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