

## **DETAIL NOTE ON PROJECT 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 life, various feasible route were identified by M/s. Torrent Solar Power Private Limited Based on system study, desk review, topographic-map, Forest map, existing publication materials, walkover survey augmented by GPS. During route alignment all possible effort are made to avoid the forest / protected 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 on such strips is maintained for O & M purpose. And direct or indirect approximately 35 villages approximately 2.5 lacs people can get benefit from the project. These are of Santalpur 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 220KV S/C Transmission Line (T/L) from Jakhotra - GETCO's 400/220 KV Charanka S/S remote area of Jakhotra, Barara, Dhokavada, Bakutra, Babra, Patanka, Aluvas & Charanka, around these villages will get quality and continuous power supply from our line. (Total "3.5595 hac diversion of Reserved 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 establishment 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 area and settlements at execution stage**

1. As a rule, alignment are generally kept 10-15 KM away from major towns, whenever possible, making a provision of 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 Alignment 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 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 Indian Topographical maps, satellite imageries etc. To arrive at most optimum route which can be taken up for detailed survey and assessment of environment and social impacts for their proper management.

### **The details of final approved route**

<b>Sr No.</b>	<b>Description</b>	<b>Final Route</b>
1	Line Length	21.01 KM
2	Class of forest (R.F. / P.F)	R.F.:- <b>3.5595</b> hectare
3	Transportation & Maintenance	100%
4	Hilly Terrain Area	NIL
5	Power line crossing	03
6	Railway Line Crossing	NIL
7	Minor River Crossing	Nil
8	Plain Terrain	100%
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	Defence Area	NIL
19	Major Road Crossing	NIL
20	Major Canal Crossing	NIL

**JUSTIFICATION OF SELECTING THE PROPOSED ROUTE FOR THE  
CONSTRUCTION OF 220KV S/C JAKHOTRA - GETCO's 400/220KV  
CHARANKA S/S TRANSMISSION LINE IN PATAN FOREST DIVISION**

220KV S/C Jakhotra – Charanka S/S Transmission Line

Sr No	Description	Alignment-1	Alignment-2	Alignment-3
1	Bee Line (In KM)	<b>14.38</b>	<b>14.38</b>	<b>14.38</b>
2	Length (In km)	<b>21.01</b>	<b>16.14</b>	<b>18.93</b>
3	Name of District through which line passes (Gujarat)	Patan	Patan	Patan
4	Villages in Alignment	Jakhotra, Barara, Dhokavada, Bakutra, Babra, Patanka, Aluvas Charanka	Jakhotra, Barara Dhokavada, Aluvas Charanka	Jakhotra, Barara Dhokavada, Charanka
5	Forest Area involved	<b>3.5595 Ha.</b>	<b>5.6635 Ha.</b>	<b>5.961 Ha.</b>
6	Sanctuary / Protected area involved	NIL	<b>2.559 Ha.</b>	<b>1.809 ha.</b>
7	Historical / Cultural monument	NIL	NIL	NIL
8	<b>Reason for selection of Route 1 as the proposed route</b>	<b>Minimum forest area in transmission line route with no tree cutting.</b>		

**For Torrent Solar Power Private Limited**



**L N Mishra**  
**(Head Transmission)**