

JUSTIFICATION FOR LOCATING THE PROJECT IN FOREST AREA

Gujarat state is blessed with long costal area and good wind speed for harnessing of wind energy potential of more 3500 MW. Because of conducive wind power policy of Gujarat Government; supported by Government of India initiatives, the private sector is actively participating to develop renewable power plants such as solar and wind power plants across India. Presently Adani have Solar plant of about 2250 MW and wind plant of 160 MW in operation in 31 locations in India.

Adani has signed an MOU with government of Gujarat during Vibrant Gujarat 2015 for involvement in Gujarat in renewable power sector and would like to make their humble contribution to the state of Gujarat by developing large Renewable Energy projects in the state.

Adani is planning to develop and execute around 4500 MW wins power project in wind potential states of the country under turnkey as well as self-development mode in next 4-5 years. The major portion of Adani's wind power projects are expected to be developed in state of Gujarat. To achieve such an ambitious target; Adani is in process of developing about 300 MW wind project in Mandvi area in Kutch district of Gujarat state through its subsidiary Adani Green Energy Limited.

The connectivity for the said plants are granted to connect at PGCIL, Bhuj-II sub-station at 220 kV voltage level. So, Adani Green Energy Limited is in processing of developing transmission line from AGEL PSS-II to Bhuj-II PGCIL Sub-station to poll power to national grid.

The development of such projects in Kutch are of Gujarat state shall have multiple national benefits; such as (i) reduction of carbon footprint in tune of 20 million-ton over period of 25 years due to usage if renewable source of energy (ii) contribution to growth of national GDP, (iii) meeting the rising demand of electricity, (iv) temporary and permanent employment etc.

For selection of optimum routes following points are taken into consideration

- Minimum route length.
- The transmission line is away from the major settlement areas.
- No wildlife sanctuary /Biosphere/ Protected areas/ Archaeological sites.
- Least forest involvement
- No involvement of defence & airport authority of India sites.
- Higher density tree patches avoided.
- No involvement of temples/ cultural habitats/ schools & colleges.
- Road connectivity to project sites to avoid construction of temp roads.
- No involvement of industrial corridor.



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Comparative statement of alternative routes

Sr. No.	Description	Alignment-1	Alignment-2	Alignment-3
1	Length of line (in kms.)	78.040	65.295	52.867
2	Bee Length	44.708	44.708	44.708
3	Name of District through which line passes (Gujarat)	Kutch	Kutch	Kutch
4	Tower in alignment (nearby)	Mandvi/ Kutch	Mandvi/ Kutch	Mandvi/ Kutch
5	Forest area involved			
	Protected forest area (Ha.)	0.2498	0.1680	0.3095
	Reserved forest area (Ha.)	0	6.8075	3.9880
	Total forest area (Ha.)	0.2498	6.9755	4.2974
6	Details of Crossing			
	Railway Crossing (Nos.)	01	01	01
	NH Crossing (Nos.)	Nil	Nil	Nil
	SH Crossing (Nos.)	05	03	04
	Major River Crossing (Nos.)	Nil	Nil	Nil
	Power Line Crossing (Nos.)	18	06	05
	Airport Area (Defence & Civil)	Nil	Nil	Nil
5	Historical/ Cultural monuments	Nil	Nil	Nil
6	Sanctuary/National Park	Nil	Nil	Nil
7	Tribal Area	Nil	Nil	Nil
8	Any other relevant information	Maximum line length & minimum forest area involvement	Maximum forest area involvement	Minimum line length & maximum forest area involvement
9	Construction problem	Maximum line length. Less forest area involvement	Minimum line length and row. Higher forest involvement	Less line length and row w.r.t. route-1. Higher forest involvement
10	Reason for selecting alignment-1 as the proposed route	Minimum forest area involvement		



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