

## JUSTIFICATION FOR LOCATING THE PROJECT IN FOREST AREA

Gujarat state is blessed with long coastal area and good wind speed for harnessing of wind energy potential of more than 3500 MW. Because of conducive wind power policy of Gujarat Government; supported by Government India initiatives, the private sector is actively participating to develop renewable power plants. ADANI is actively involved in development of renewable power plants such as solar and wind power plants across India. Presently ADANI have solar plant of about 2250MW and wind plant of 60 MW in operation in 31 locations in India.

Adani has signed an MOU with Government of Gujarat during Vibrant Gujarat 2015 for investment 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 wind power project in wind potential states of the country under turn-key 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 725 MW of wind projects in dayapar area in Kutch district of Gujarat state through its subsidiary Adani Green Energy (MP) limited.

Further, ADANI GREEN ENERGY LIMITED (AGEL) is in process of developing 1500 MW Wind plant and 750 MW of solar plant in Khavda area in Kutch district of Gujarat. The connectivity for the said plants are granted to connect at PGCIL, Bhuj Pooling sub-station at 400 KV voltage level. So, ADANI GREEN ENERGY LIMITED is in process of developing 400 KV D/C line from AGEL Khavda to PGCIL bhuj SS to poll the power to national grid. Also, keeping in view of further expansion of wind and solar projects in Khavda region of Kutch district, multi circuit tower shall be installed in forest stretches to minimize/optimize the diversion of forest land for Transmission Line work.

The development of such projects in Khavda area of Gujarat state shall have multiple national benefits; such as, (i) reduction of carbon footprint in tune of 95 Million-Ton over period of 25 years due to usage of renewable source of energy, (ii) contribution to growth of national GDP, (iii) meeting the rising demand of electricity, (iv) temporary and permanent employment etc.

This alternative **Route-1** is having comparatively less route length when compare to route- 2 & 3. The details of comparisons are referred in Comparative Statement of Alternative Routes.



**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 / Aetiological 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

**Comparative Statement of Alternative Routes**

Sr. No.	Description	Alignment -1	Alignment -2	Alignment -3
1	Length of Line (in KM)	82.835	86.239	100.461
2	Name of District through which line passes (Gujrat)	Kutch	Kutch	Kutch
3	Tower in Alignment (Nearby)	Khavda & Bhuj	Khavda & Bhuj	Khavda & Bhuj
4	Forest Area involved	149.922	180.37	158.644
5	Historical / Cultural Monument	NIL	NIL	NIL
6	Any other relevant information	Minimum line length & minimum forest area involvement	Maximum line length & Maximum forest area involvement	Maximum line length & Maximum forest area involvement
7	Construction Problem	Comparatively less Right of way issues due to minimum length	Right of way issues	Right of way issues
8	Reason for selecting Alignment -1 as the proposed route	Minimum length, less ROW, minimum forest area		

