

SBE RENEWABLES TEN PRIVATE LIMITED

Proposal No: FP/RJ/TRANS/145974/2021
Project Name: 220 kV Single, Double & Multi Circuit Transmission Line
Applied Area: 0.175 Ha
User Agency: SBE Renewables Ten Private Limited

Justification for locating Proposed Project in Forest Land

Government of India has set a target of reaching 175 GW of installed capacity from renewable energy sources by the year 2022, which includes 100 GW from Solar, 60 GW from Wind and 15 GW from other renewable sources. In order to achieve the target, various Solar, Wind, Wind-Solar Hybrid policies have been enunciated by Central and State Governments. Rajasthan is the leading front runner state, implementing large capacity renewable projects under these policies.

The development of such Projects in Rajasthan 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 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.

SBE Renewables Ten Pvt Ltd has planned to develop 450 MW Wind-Solar Hybrid Park in Jaisalmer & Barmer district of Rajasthan. The power generated from the proposed Solar-Hybrid project will be purchased by Solar Energy Corporation of India (SECI) awarded to the Project company through Competitive bidding process on 'Build, Own, Operate' basis.

For power evacuation of the proposed project, a special purpose vehicle (SPV) "SBE Renewables Ten Pvt Ltd has proposed to develop **220 kV Single, Double & Multi Circuit Transmission Line** which will connect SBE Renewables Ten Pvt Ltd PSS in village Rivari, Fategarh Taluka, Jaisalmer District to Fatehgarh-II PSS in Village Savantha Fategarh Taluka, Jaisalmer District of Power Grid Corporation India Limited (referred as PGCIL).

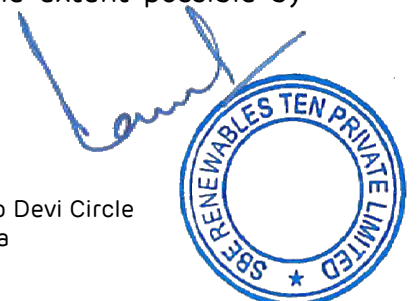
The objective is to plan, promote and develop an integrated and efficient power transmission system network in all its aspects including planning, investigation, research, design and engineering, preparation of preliminary, feasibility and definite project reports, construction, operation and maintenance of transmission lines, substations, load dispatch stations and communication facilities and appurtenant works, coordination of integrated operation of to meet the increasing demand and grid strengthening across the state of Rajasthan.

Proposed Transmission Line alignment for 220 kV M/C, D/C & S/C Transmission Line has been examined for environmental, social, technical, and economical consideration and possible efforts were made to avoid the forest land to the extent possible by-

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M/s. SBE Renewables Ten Pvt Ltd. however, forest land passing through unavoidable patch (crossing of NH-15).

In this context, the Central Electricity Authority (CEA), Ministry of Power, Government of India has issued the administrative approval under Section 68(1) in favor of the SBE Renewables Ten Pvt Ltd to establish to meet the increasing demand across the state of Rajasthan

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.

Forest area involvement (NH – 15 crossing) in **final route** is least and bare minimum i.e., only 0.175 ha and cannot be avoided. Further, final route do not involve any protected & wildlife area, therefore, is found to be most suitable from technical, environmental, forests & wildlife and implementation and O&M point of view and thus finalized for laying of the transmission line.



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Details of Final Route

Sr. No.	Description	Final Route
1	Bee Line Length (KM)	53.068
2	Line –Length (KM)	56.806
3	Angle Points (includes start & end point)	61
4	Gantry	4
5	Power Line Crossings	11
6	Railway Crossing	-
7	River Crossing	Nil
8	NH/SH crossing	1 / 0
9	Forest Length (km)	0.05
	Protected Forest(km)	0.05
	Forest Area (in Ha)	0.175
	Protected / Sanctuary area	Nil
10	Conclusion	Route has minimum forest area i.e. notified NH crossing in Devikot village, the said route is feasible for environmental point of view construction, operation and maintenance point of view.



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