

Permission for laying proposed Solar Power Cable Line size- 3 core 300 sq.mm aluminium XLPE 11 KV cable (overall dia-80 mm) on route from KPIGIL Solar Park Plot to 66 KV GETCO Sub-Station, Vagra Village - Along State Highway (Derol-Vagra-Muler) for development of Solar Park in Vagra Village, Taluka Vagra, Dist: Bharuch – Proposed Diversion Area: 0.0516 Ha.

Justification for locating the project in forest area to be submitted by user Agency and countersigned by DCF  
**JUSTIFICATION FOR PROJECT**

In consideration of the requirements of Environmental parameter, construction methodologies to be adopted for different terrain encountered en-route, design and engineering factors, availability of logistic support during construction, operation and maintenance of Asphalt Road during monsoon, maintenance of road and road-side for laying other utilities, various feasible routes were identified by the Consultant M/s. Gurukrupa Consultants, Ankleshwar based on Desk Study of relevant topographic maps of Survey of India and various site observations made during personal site visit of proposed location. The study was subsequently supplemented with field reconnaissance and data collection along the feasible routes. Finally the optimum route was arrived at after analyzing the various data and conducting in-depth study of topographic maps based on field data & site visit observations. The proposed route passes along & across NH-161 (Ankot-Vagra Road) as mentioned herein above to lay Solar Power Cable Line to the use of domestic, commercial and industrial customers. This project will generate regular income to the farmers for use of their abandoned, barren & unproductive land for optimizing natural resources to generate solar power. The proposed Solar Power Cable Line will be laid underground at minimum depth of 1.0 mt m below ground level and width 0.4 mt. One-run (1-no.) Solar Power Cable line will be passing through protected forest land – bare minimum diversion of forest area 516.00 Sq.mtr. i.e. only **0.0516 Ha** forest land as per enclosed **Annexure - 7**.

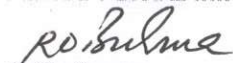
**Factors considered:**

While identifying the various alternatives for selection of the technically & financially feasible route, the following factors were considered.

- The proposed laying route has been finalized in such a way that only bare minimum forest land will be utilized.
- The proposed Solar Power Cable Line will be laid underground on the available road-side land ROW of R&B Department.
- No Tree Cutting is required.
- The project is planned based on Demand and supply necessity.
- Compliance with environmental regulations.
- Safety of public and property.
- Shortest possible pipeline length.
- Minimum number of bends.
- Favourable ground profile for pipeline hydraulics.
- Accessibility to pipeline route during construction, maintenance in all seasons including monsoon and ensure uninterrupted operations 24X7.
- Location of solar power cable line facilities and access thereto.
- Avoidance of mining protected and reserved forest archaeological and other sensitive areas.
- Avoidance of unstable ground features.
- Minimizing road, rail, rivers and flood prone areas.
- Avoidance of rocky stretches.
- Avoidance of areas reserved for planned future development.
- Flexibility for future expansion.

Based on the above, detailed route survey is conducted in order to to finalize the exact corridor for laying of one run (1-No.) Solar Power Cable Line at Village Vagra, Taluka Vagra, District Bharuch.

FOR KPI Global Infrastructure Limited

  
Rafik Burma  
Project Head



Place : Surat  
Date : 25/03/2022