

Permission for laying proposed four run Solar Power Cable Line size- 3 core 300 sq.mm aluminium XLPE 11 KV cable (overall dia-80 mm) Sarod Connectivity to 4MW Solar Park on State Highway (Jambusar-Kavi) Taluka-Jambusar, Dist: Bharuch – Diversion of Forest Area 0.1183 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 SH (Jambusar-Kavi Road) as mentioned herein above to lay four run (4-Nos.) Solar Power Cable Line for the use of domestic, commercial and industrial customers through GETCO. The proposed Solar Power Cable Line will be laid underground in a single trench at minimum depth of 1.2 mt m below ground level and width 1.0 mt. Four-run (4-no.) Solar Power Cable line will be passing through protected forest land – bare-minimum diversion of forest area **1183.00** Sq.mtr. i.e. only **0.1183** 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 four run (4-nos.) Solar Power Cable Line will be laid underground in a single trench of size 1.0 mt width and 1.2 mt depth 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.
- Generate regular fixed income to the farmers on the abandoned, barren and unused land.

Based on the above, detailed route survey is conducted in order to to finalize the exact corridor for laying of four-run (4-No.) Solar Power Cable Lines at State Highway (Jambusar-Kavi) Taluka Jambusar District Bharuch.

FOR KPI Global Infrastructure Limited


Rafik Burma
Project Head



Place : Surat
Date : 31/03/2022