

**Full Title of the Project: - Construction of 66 kV D/C Transmission line from Pragati Nagar to 66/22KV Sub-Station Hulli (Kotkhai) Shimla. (H.P)**

**File No: -** \_\_\_\_\_

**Date of proposal: -** \_\_\_\_\_

**Check List Serial Number-10**

**JUSTIFICATION FOR LOCATING THE PROJECT IN FOREST AREA**

At present the far flung areas of Sainj, Chopal, Hulli, Kotkhai etc. along with water supply schemes in District Shimla are mainly fed from 66kV Jutogh (Shimla)-Gumma-Sainj-Hulli transmission line. However, rapid load growth in these areas in present times has resulted in its overloading especially during winter season. Its only alternative is 66kV Kotla-Nagan-Gumma line but it is very lengthy (100km approx) due to which these areas have to suffer problem of low voltage and water supply schemes also get affected.

In order to resolve the issue of the issue of overloading & consistent low voltage problem system studies were conducted and it was observed that relief to existing 66kV Jutogh (Shimla)-Gumma-Sainj-Hulli transmission line can only be provided if HPSEBL's 66/22kV sub-station situated at Hulli (Kotkhai) is connected to 400/220kV Pragatinagar sub-station owned by HPPTCL. Accordingly, HPPTCL has been asked to facilitate HPSEBL by providing connectivity at 66kV level and it has been proposed to construct a 66kV transmission line for connecting 66/22kV Hulli sub-station and 400/220kV Pragatinagar for strengthening of 66kV network in the area and ensuring reliable power supply all the consumers. Subsequently, a scheme amounting to Rs. 3.69 crore has been prepared by HPSEBL for construction of 66kV transmission line which has been approved in the EHV committee of HPSEBL vide letter No. HPSEBL/CE(SP)/W-72(EHV)/2016-7191-7216 dated 03.02.2017 vide agenda item No.72.07.

It is not possible to construct the entire line from Hulli sub-station to Pragatinagar in private land, hence the intervening forest land has to be used. After exploring & surveying three alternate alignments the following was observed: -

**Route-I (Red):** - Least amount of forest area is required to be diverted, least amount of tree felling is required, shortest route, road approachability, minimum number of towers to be erected, least HT/LT line & road crossings and all towers are in safe locations.

**Route-II (Blue):** - Forest area required to be diverted is more than Route-I, number of trees in right of way is more than route-I but less than route-III, longest alternative route, road approachability and some towers are falling in landslide prone area

**Route-III (Pink):** - Maximum forest area is required to be diverted, maximum number of trees in Right of Way, non-accessibility of approach road, intermediate route, maximum HT/LT line crossings and highest construction cost involved.

From above it is evident that all three line routes are passing through the forest area but the finalized route i.e. Route-I has been selected in such a manner that maximum number (12 out of 16 No.) of towers are located in available private land and least amount of forest area is required to be diverted for line construction. Hence, there is no escape from using forest land and a bare minimum of 3-61-30 hectares of forest land is required to be diverted for construction of 66kV transmission line from Hulli to Pragatinagar.

Date: - 31-08-2021

Place: Totu (Shimla-11)

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