

(10)

Full title of the project: - Construction of 66kV transmission line from proposed 220/66kV S/Stn. Nadukhar to Shakrori, Shimla (H.P)

File No. _____

Date of proposal: _____

Check List Serial Number-10

JUSTIFICATION FOR LOCATING THE PROJECT IN FOREST AREA

Shimla Jal Prabandhan Nigam Ltd. (SJPNL/I&PH) has proposed to establish its water supply schemes in three pumping stages for fulfilling the deficit of water requirements of Shimla town and its surrounding areas and has requested HPSEBL to supply requisite power for all its pumping stages at 66kV level. The nearest existing source at 66kV level in the area for providing power the required power is Jutogh-Gumma transmission line. However, it is not possible to meet SJPNL's round the clock load requirements from the said line as it is already overloaded. Further loading it would only result in Gumma-Jutogh transmission line's failure. Accordingly, it was envisioned to construct a 220/66kV sub-station at Nadukhar (Basantpur) which was approved by HPSEBL's EHV committee HPSEBL vide letter No. HPSEBL/CE(SP)/W-76(EHV)/2019-700-24 dated 16-05-2019 vide agenda item No.75.10 to meet the power requirements of SJPNL's 1st & 2nd stage schemes. Since, SJPNL has requested to supply the power at 66kV level, a 1.8 km long 66kV transmission line is to be constructed from Nadukhar to Shakrori (1st stage).

It is not possible to construct the entire line from proposed Nadukhar sub-station to 66/22kV sub-station at Shakrori in private land, hence the intervening forest land has to be used. It would be pertinent to mention that while carrying out the survey due care has been taken to minimize the use of forest land. After exploring & surveying three alternate alignments the following was observed: -

Route-I (Red-finalized route): - Least amount of forest area (1.6681 ha) is required to be diverted; least amount of tree felling shall be required; shortest route & minimum number of towers to be erected; all towers are in safe locations; minimum HT/LT line crossings and cultivated land in the Right of Way.

Route-II (Blue): - Forest area required to be diverted is maximum (i.e. more than Route-I & route-III); maximum number of trees in Right of Way; line length, towers to be erected, cultivated land in Right of way along with HT/LT crossings (four times) is intermediate (i.e more than Route-I less than III), farthest lead to approach road to tower locations.

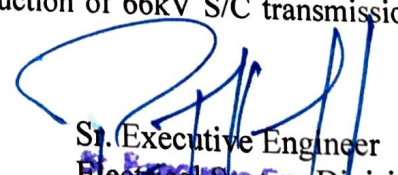
Route-III (Pink): - Forest area required to be diverted & number of trees in right of way is intermediate; cultivated area in right of way is maximum (more than Route-I & II); some towers are falling in landslide prone area, HT/LT line crossings are maximum (seven times), line length is intermediate, intermediate accessibility of approach road, and number of towers to be erected is maximum.

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 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 1-66-81 hectares of forest land is required to be diverted for construction of 66kV S/C transmission line from Nadukhar to Shakrori.

Date: - 03.06.2022

Place: Totu (Shimla-11)


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