

OFFICE OF EXECUTIVE ENGINEER EHT (CONST) DIVISION CSPTCL KORBA (CG)

JUSTIFICATION OF PROJECT

The project site Rajpur is situated far north east of Chhattisgarh State under the District Surajpur. this area is basically tribal area of Sarguja and partly LWE affected. At present the supply of this area have been feeded through existing 33 KV & 11 KV lines from 132/33 KV Substation Bishrampur/Pratappur. Which is about 60 km. away from Rajpur. Due to long length of distribution Networks lines these area facing acute low voltage problem and 38-46% voltage drop (Voltage Regulation) have occurred in the system which lead to low voltage problem. This area is mineral rich basically Coal and many Coal mines of SECL are in operation due to which load growth in this area have recorded 10 to 15% per year.

The establishment/Construction of a new 132 KV EHV supply network at Rajpur is only solution of above problem. Accordingly construction of new 132 KV Transmission line *"LILO of 132 KV Bishrampur- Pratappur line from loc. no. 42/0 to proposed 132/33 kv substaion Rajpur"* is proposed.

The Complete route of the proposed 132 KV transmission line falls under the newly created Surajpur & Balrampur Distict of Sarguja region of Chhattisgarh, which is covered by forest and hill range, therefore in the route of line the forest area can not be avoided. During finalization of project all aspects to avoid the use of forest land has been examined. The proposed project route has minimum involvement of forest land and minimum tree falling and comply all other technical aspects of transmission line. The other two alternative route have also been examined and found more involvement of forest land and tree falling and longer line length.

on establishment of this project, Continued / uninterrupted power supply shall be available for the Surajpur & Rajpur Tahsil of District Surajpur, which will help to promote pump irrigation in the tribal area of the Surajpur which cover under hilly and dense forest terrain. Since the area is mineral rich thus, the probability of industrial growth is also higher due to uninterrupted quality electricity availability. This project will also contribute to enhance the availability of employment & financial capacity of this tribal area.


**E.E. EHT CONST. DN.
C.S.P. Trans. C.L., KORBA**