

KARNATAKA POWER TRANSMISSION CORPORATION LTD.

No. : 605/EEE/MWD/UKD/AEE(O)/HBL/18-19/

Enclosure:

7112



Office of the
Executive Engineer (Ele),
Major Works UK District,
KPTCL, Vidhyuth Nagar
Karwar Road, Hubballi-24

Date: 21 FEB 2019

Registered office of the Company: Corporate Office, Kaveri Bhavan, KPTCL, KG Road, Bengaluru-09.
Corporate Identity Number (CIN):U40109KA1999SGC025521

Justification Note

The proposal for providing 110kV substation at Kansur is approved in 74th TCCM dated 20.06.2017 to improve the voltage regulation of 11kV lines and to improve the quality and reliability of power supply in the area around Kansure. Establishing 110kV Sub Station at Kansur will reduce interruption and improve power supply situation around Kansur village and water supply installation which supplies water to Sirsi Town Area. Hence, the possibilities of providing substation around Kansur village are studied and are follows:

Alternative -1 at Survey 36

- 1) Station land required= 1.00 Ha
- 2) Line Length= 75.5 Mtrs
- 3) Extent of land required for line corridor = $75.5 \text{ Mtrs} \times 22 \text{ Mtrs} / 10000 = 0.1661 \text{ Ha}$
- 4) Total Land= 1.1661 Ha.

The land cited under Survey No: 36 is Government Betta which is a forest land. The site noted under Alternative-1 requires approval from the Forest Authorities and also the approval from the land owner. So, approached the land owner of government betta Sy No: 36 and requested to provide the land. The owner of the land objected to provide the land. Due to which the proposal for diversion of land could not be placed before District Commissioner, UK District, Karwar. Hence, the proposal for establishing 110kV Sub Station at location cited under Alternative-1 was discarded.

Alternative -2 at Paddy field

- 1) Station land required = 1.00 Ha
- 2) Line Length = 596.4 Mtrs
- 3) Extent of land required for line corridor = $596.4 \text{ Mtrs} \times 22 \text{ Mtrs} / 10000 = 1.31 \text{ Ha}$.
- 4) Extent of land required for line passing through government betta (Which is forest land)
= $529 \text{ Mtrs} \times 22 \text{ Mtrs} / 10000$
= 1.1638 Ha.
- 5) Total Land 2.31 Ha

The land identified for the Sub Station is paddy field. However, the line length required for construction of 110kV line is 596.4 Mtrs, out of which 529Mtrs passes through government betta which itself is a forest land. Extent of land required for diversion from forest authorities is 1.1638 Ha. As per KPTCL circular KPTCL/B7/1436/2004-05 dated 03.06.2005 the station land should be flat terrain, should not be rocky & should not be black cotton. As the land identified under alternative-2 is paddy field, the land is water logged during rainy season and the terrain is not flat and there is water channel running between the proposed site of Alternative-2. Hence, the subject land is not feasible for construction of Sub Station. Also, the owners of the paddy field objected for construction of substation and the cost for construction of line is more as the line length is 596.4 Mtrs.

Alternative-3 at Paddy field towards Siddapura road

- 1) Station land required = 1.00 Ha
- 2) Line Length = 174 Mtrs
- 3) Road length = 97.4 Mtrs
- 4) Extent of land required for line corridor = $174 \text{ Mtrs} \times 22 \text{ Mtrs} / 10000 = 0.3828 \text{ Ha}$
- 5) Extent of land required for road which passes through forest
 $= 97.4 \text{ Mtrs} \times 5 \text{ Mtrs} / 10000$
 $= 0.0487 \text{ Ha}$
- 6) Total Land required = 1.4315 Ha

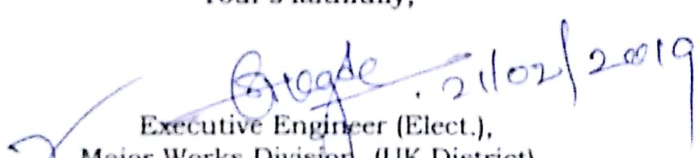
The land identified for the Sub Station is paddy field and line also passes through paddy field. But to provide approach road 5 Mtrs wide road is to be constructed which passes through forest. Hence, 0.0487 Ha of forest land will be required for constructing approach road. As per KPTCL circular KPTCL/B7/1436/2004-05 dated 03.06.2005 the station land should be flat terrain, shouldn't be rocky & should not be black cotton. As the land identified under alternative-3 is paddy the land is water logged during rainy season and the terrain is not flat, also in the same circular it is stated that existence of telephone exchange and lines in the vicinity also should be considered to avoid interference with communication. The telephone exchange of the site proposed in the alternative-3 is very near to Sub Station i.e 350 Mtrs. Hence, the subject land is not feasible for construction of Sub-Station due to soil conditions and availability of telephone exchange near to Sub-Station. Also the cost for construction of line is more.

Alternative-4 forest land at Sy No: 54/A

- 1) Station land required = 1.00 Ha
- 2) Line Length = 145 Mtrs
- 3) Road length = 43.3 Mtrs
- 4) Extent of land required for line corridor = $145 \text{ Mtrs} \times 22 \text{ Mtrs} / 10000 = 0.319 \text{ Ha}$
- 5) Extent of land required for road which passes through forest
 $= 43.3 \text{ Mtrs} \times 4.5 \text{ Mtrs} / 10000$
 $= 0.0194.85 \text{ Ha}$
- 6) Total Land required = 1.33 Ha

The land identified for the Sub Station and line is forest land. The line length is 145 Mtrs and 43.3 Mtrs approach road is to be constructed. Extent of land required for diversion from forest authorities is 1.33Ha. The land is flat terrain with hard red soil, the distance of telephone exchange is 1.5km from the site proposed under alternative-4. The proposed site under Alternative-4 is feasible for construction of Sub Station & 110kV line. Hence, the same is proposed for diversion.

Your's faithfully,


Executive Engineer (Elect.),
Major Works Division, (UK District),
KPTCL, Hubballi.