



കേരളം വിദ്യുച്ഛക്തി



KERALA STATE ELECTRICITY BOARD LIMITED

(Incorporated under the Companies Act, 1956)

Reg. Office: Vidyuthi Bhavanam, Pattom, Thiruvananthapuram – 695 004

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ABSTRACT

Construction of 110kV Substation , Thiruvaly by installing 2x12.5MVA 110/11kV Transformers under Transmission Circle, Malappuram – Administrative sanction accorded-orders issued.

Corporate Office(SBU-T)

B.O.(FTD)No. 971 /2019/D(T,SO&S)/T3/110kV Thiruvaly/2019-20 dated, Thiruvananthapuram 30 .12.2019

- Read: 1. B.O(DB)No.2247/2015/D(T&SO)/T3/220kV ManjeriSS/2015-16 dated 15.09.2015
2. D(T&SO)/PSE/NP/2018-19 /121 dated 03.09.2018 of the Executive Engineer,Power System engineering.
3. Letter No. CE/TRN/E3/110kV S/s Thiruvaly /2019-20/100 dated 14.10.2019 of the Chief Engineer (Transmission North).
4. Letter No. CE/TRN/E3/DPR - Thiruvaly /2019-20/1231(b) dated 23.11.2019 of the Chief Engineer (Transmission North).
5. Minutes of the DPR Approval Committee Meeting held on 26.11.2019 .
6. Note No.D(T,SO&S)/T3/ 110kV Thiruvaly/2019-20/ 95 dated 24 .12.2019 (Agenda No. 82/12/19)

ORDER

The Thiruvaly Grama Panchayath is situated in the middle of the way between Manjeri and Nilambur Municipalities of Malappuram District surrounded by adjacent Grama panchayaths viz. Trikkalangode, Edavanna, Mampad, Wandoor, and Porur. Among these Grama Panchayaths ,Edavanna,Wandoor and Mampad are major towns. Due to the emergence of commercial enterprises/buildings, garment industries, wood industries, automobile and industrial concerns , educational institutions, hospitals, hatcheries etc. Thiruvaly is considered as the fastest growing region in Malappuram district with a load growth of about 15 to 20% per year. Construction of several buildings having heavy load requirement is also progressing in this area.

Supply to Electrical Sections viz. Edavanna, Thiruvaly, Wandoor, Vaniyambalam, Mampad, Porur, Kalikavu mainly depends 33kV substation sources. As the length of these 33kV lines are too long around 15 to 20 km, losses are very high. Thus there prevails severe low voltage profile in the region creating constraints for the transfer of quality power as per requirement due to the absence of sufficient transmission support. Considering the fast urbanization of this area , maintaining uninterrupted power supply is inevitable which will also help to increase the revenue of the KSEBL as the major share comes from commercial as well as industrial establishments.

Since all the seven 11kV feeders viz. Vadassery (from 220kV Substation Areekode) ; Edavanna,Othayi and Mampad (from 33kV Substation, Edavanna); and Kappil, Wandoor town

and Thiruvaly (from 33kV Substation, Wandoor) feeding the area are almost over loaded or nearing full load, interruption due to routine maintenance and feeder faults will affect a large number of consumers for a long time. Also at present some demand requests are kept pending due to non availability of power.

In order to improve the transmission and distribution system to retain the high value consumers by ensuring the consumer satisfaction and power reliability, and also to meet the growing demand, it is very essential to set up a 110kV Substation in the area. Also back up supply to the mostly affected Nilambur area can be fed from Thiruvaly during the breakdown of Nilambur Substation or connecting line.

Load Flow Study Report shows that the construction of 110/11kV Substation at Thiruvaly is beneficial by way of energy savings consequent to reduced losses and loading, improved voltage profile, better system availability, improved transmission reliability and for providing secure supply.

The Land has been identified at Thiruvaly Grama Panchyath of Thiruvaly village of Nilambur Taluk of Malappuram District for the project. The proposed land is under the existing 66kV line route from Manjeri - Nilambur. The land is about 1km from Thiruvaly town and 10km from Nilambur. Since the substation is proposed directly under the line, just a tower insertion is needed and as such RoW issues are dispensed with.

Accordingly the Chief Engineer (Transmission North) forwarded a proposal for the construction of 110kV Substation, Thiruvaly by installing 2x12.5MVA, 110/11kV Transformers by constructing 110kV line as LILO of 110kV Elamkur - Nilambur 110kV line at an estimate amount of 12.50 crore,

The DPR Committee held on 26.11.2019 approved the proposal after detailed deliberations.

The matter was placed before the Full Time Directors as per note read as 6 above.

Having considered the above, the Full Time Directors in the meeting held on 26.12.2019, Resolved to accord Administrative Sanction for the construction of 110kV Substation, Thiruvaly by installing 2x12.5MVA 110/11kV Transformers and constructing 110kV line, as LILO of the 110kV line from the proposed 220kV Substation, Manjeri (Elamkur) to Nilambur at an estimate amount of Rs.12.50 crore (Rupees Twelve Crore and fifty lakh only) under Transmission Circle, Malappuram

Orders are issued accordingly.

By Order of the Full Time Directors,
Sd/-
Lekha G.
Company Secretary (in-charge)

To

: The Chief Engineer (Transmission North)

Copy to: The Deputy Chief Engineer, Transmission Circle, Malappuram

The Deputy Chief Engineer(IT)

The Financial Adviser/ The Chief Internal Auditor.

The RCAO/ RAO.

The TA to CMD/ D(T,SO,S, CP&REES)/ D(D, IT&HRM)/ D(G-C)/ D(G-E& SCM)

The PA to Director (Finance)/CA to Company Secretary

Fair Copy Superintendent/Library/Stock File.

Forwarded / By Order



Assistant Executive Engineer

DESPATCHED
No: 1679
Date: 31/12/2019