



KERALA STATE ELECTRICITY BOARD Ltd

(Incorporated under the Companies Act, 1956)

Registered Office: Vydyuthi Bhavanam, Pattom,

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ABSTRACT

Construction of new 110 kV Substation at Kuttikol in Kasargod district by constructing 12 km of 110 kV DC line as LILO arrangement of upcoming 110 kV Ambalathara-Mylatty feeder – Revised Administrative Sanction accorded – Orders issued.

Corporate Office (SBU-T)

BO (FTD)No.855/2022(DIRTSO-AE1/2022/2785)

Thiruvananthapuram, Dated: 22.10.2022

Read: 1. B.O. (FTD) No. 208/2020/D(T SO&S), T 3/110kV Kuttikol/2019-20 dated 18.03.2020.

2. Letter No. CE/TRN/E2/110kV SS Kuttikol/2022-23/990 dated 06.09.2022 of the Chief Engineer (Trans. North).

3. Note No. DIRTSO-AE1/2022/2785 (1)/164 dated 07.10.2022 of the Director (T,SO,P&S) to the Full Time Directors (Agenda Item No18/10/22).

ORDER

Administrative Sanction was accorded as per the B.O read as 1st above for the construction of a new 110 kV Substation at Kuttikol in Kasargode district by constructing 15 km 110 kV DC line from 220 kV Substation, Mylatty at an estimated cost of Rs.34.25Crores.

As per letter read as 2nd above, the Chief Engineer (Transmission North) submitted a revised proposal for the project at an estimate amounting to Rs27.05 crores by constructing 12 km 110 kV DC LILO line from the proposed 110 kV Ambalathara-Mylatty line, being constructed as part of 220/110 kV MCMV line from Mudayad to Mylatty under TransGrid project, instead of the original proposal of constructing 15 km 110 kV DC line from 220 kV Substation, Mylatty to Kuttikkol. In the newly proposed line route, inhabitants and thick vegetations are less, so construction of the line can be carried out with less effort and is more cost effective.

The revised proposal includes the following works.

1. Construction of 110 kV Substation at Kuttikol with 2 nos. of 110 /11kV, 12.5 MVA transformer
2. Construction of 12 km 110 kV double circuit line as LILO arrangement of upcoming 110kV Ambalathara-Mylatty feeder at Periyattadukkam to Kuttikol.

It is proposed to use Panther conductor for constructing the 110 kV line since this line is the downstream of MCMV line from Mudayad to Mylatty under TransGrid project, which is being constructed with Panther conductor. It is also proposed to use 220 kV towers of P,Q,R,S type for the LILO line since this will help to reduce the number of towers required by having larger span lengths.

The Chief Engineer reported that load flow study is conducted on the revised proposal and has recommended the same. The IRR of the project with the revised project cost is 19.52% and the Net Present Value is Rs.36.43 Crore with a financial benefit of Rs 6.56 crores. The revised estimate is prepared based on the latest approved transmission cost data 2022-23 and DSR 2018.

The matter was placed before the Full time Directors as per note read as 3rd above for decision.

Having considered the matter in detail, the Full Time Directors, in the meeting held on 12.10.2022, resolved to accord revised Administrative Sanction to the estimate amounting to Rs.27.05 crores (Rupees Twenty seven crores five lakh only) for the work "construction of new 110 kV Substation at Kuttikal by constructing 12 km 110 kV DC line as LILO arrangement to the upcoming 110 kV Ambalahara-Mylatty feeder" under Transmission Circle, Kannur.

Orders are issued accordingly.

**By Order of the
Full Time Directors**



**LEKHA G
Company Secretary**

To:

The Chief Engineer (Transmission North)

- Copy to: 1. The Financial Adviser/ The Chief Internal Auditor/ Chief Engineer (IT,CR&CAPS).
2. The Deputy Chief Engineer, Transmission Circle, Kannur.
3. The TAs to CMD/ D(T,SO,P&S)/ D(C,SCM&IT)/ D(G-C)/ D(G-E)/ D(REES,S,S&W).
4. The PA to Director (Finance & HRM).
5. Stock File.

Forwarded / By Order



Assistant Engineer