



KERALA STATE ELECTRICITY BOARD LIMITED

(Incorporated under the Companies Act, 1956)

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ABSTRACT

Construction of new 110kV AIS, Panthalayani and 6.5km 110kV double circuit line (LILO) from the existing 110kV Vatakara – Koyilandy feeder under Transmission Circle, Kozhikode - Administrative Sanction accorded – Orders issued.

Corporate Office (SBU-T)

B.O.(FTD)No.2/2021/D(T&SO)/T5/Panthalayani/2020-21/Thiruvananthapuram dated.05.01.2021

- Read: 1. Letter No. D(T&SO)/PSE/NP/2018-19/1651 dated. 26.11.2018 of the Executive Engineer (Power System Engineering)
2. Minutes of the DPR approval committee meeting held on 22.09.2020
3. Letter No. CE/TRN/E6/Panthalayani/2020-21/918 dated 15.10.2020 of the Chief Engineer (Transmission North)
4. Note No. D(T&SO)/T5/Panthalayani/2020-21/231 dated. 14.12.2020 of the Director (T&SO) (Agenda Item No. 41/12/20)

ORDER

The Chief Engineer (Transmission North) as per letter read as 3rd above has submitted an estimate amounting to Rs. 20.6 Crore for the construction of 110kV Substation at Panthalayani (New Koyilandy) by installing 2 Nos 110/11kV, 12.5MVA Transformers, constructing 6.5km 110kV Double Circuit Line (LILO) from the existing 110kV Koyilandy-Vatakara feeder and laying of 250M 110kV UG cable at the railway crossing Kollam, Koyilandy.

Koyilandy is a fast developing township with major establishments like Taluk hospital, Court complex, Municipal town hall, Stadium, many Educational institutions and rapidly rising new business centres, industries, tourist destinations etc and KSEBL is struggling to meet the power requirement of this vastly developing township. The existing feeding arrangement in this area entirely depends on 110kV Substation Koyilandy which is located 9km away from the Koyilandy town.

The 11kV feeders supply power to Koyilandy town area crosses two rivers, which cause difficulty in maintenance due to poor accessibility of line route and result in increased outage duration. Further the load drawn from 11kV feeders is concentrated towards the far end of the substation resulting in huge transmission loss and increased interruption rate. The township and load requirements are concentrated mostly on the western side of the railway tracks but the substation is on the eastern side. Also there is only one 11kV cable that crosses the railway track for feeding the coastal area and any failure of this cable will result in blackout of this coastal area.

To improve reliability of the system by providing power supply round the clock, it is imperative to construct a new 110kV substation at a suitable location based on technical, economical, geographical and environmental considerations at the Western side of the railway track near Koyilandy township.

The Load Flow Study report as per letter read as 1st above recommended new substation at Panthalayani.

70 cents of land is required for this project, within Koyilandy Municipal limits. Two locations have been identified, one being an unacquired portion of total 1.08 Acre land owned by the Irrigation Department in Koyilandy, but low response from authorities. The second is a private land near Kollam town wherein consent has been obtained from the land owners.

The total estimate cost for the subject work comes to Rs.20.60 Cr which includes cost of substation works- Rs. 13.45 Cr (Cost of land & Civil works – Rs.7.71 Cr, Electrical works including commissioning – Rs.5.74 Cr), cost of line works – Rs.7.15Cr (Tower/Line/UG cable works – Rs.6.25 Cr, surveying, tree cutting, PTCC approval and commissioning – Rs.0.9 Cr). The cost of the materials is estimated based on the approved Transmission cost data dated. 24.09.2019. The estimate for substation and line works is prepared based on the latest substation data and labour data for line works implementing DSR 2016. The estimate amount is included in the budget provision for the financial years 2021-22 and 2022-23.

The DPR Committee held on 22.09.2020 approved the proposal after detailed deliberations.

The subject proposal was placed before the Full Time Directors seeking Administrative Sanction as per note read as 4th above.

Having considered the above, the Full Time Directors in the meeting held on 16.12.2020,

Resolved to accord Administrative Sanction for an estimate amounting to Rs. 20.6 Crore (Rupees Twenty Crore Sixty Lakh only) for the 'Construction of new 110kV AIS, Panthalayani by installing 2 Nos 110/11kV, 12.5MVA Transformers, constructing 6.5km 110KV Double Circuit Line (LILO) from the existing 110kV Vatakara-Koyilandy feeder and laying of 250M 110kV UG cable with OFC under Transmission Circle, Kozhikode'. The necessary approval from KSERC shall be obtained as per rules before the issue of Work Order.

Orders are issued accordingly.

By Order of the Full Time Directors,

Sd/-

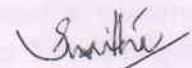
LEKHA.G

Company Secretary (In-Charge)

To : The Chief Engineer (Transmission North)

Copy to: The Deputy Chief Engineer, Transmission Circle, Kozhikode
The Financial Adviser/ The Chief Internal Auditor/ The Company Secretary
The RCAO/ RAO
The TA to Chairman & MD/D(T&SO)/D(D,IT&HRM)/ D(G-C)/D(G-E& SCM),D(P&S) PA to D(F)
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Assistant Engineer