



## KERALA STATE ELECTRICITY BOARD LIMITED

(Incorporated under the Companies Act, 1956)

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

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### ABSTRACT

Interlinking of 110kV GIS Substation Kollam and 110kV Substation, Kottiyam – Administrative Sanction accorded – orders issued.

### **Corporate Office (SBU-T)**

B.O.(FTD)No.286/2020/(D(T&SO&S)/T1/GIS Kollam Kottiyam)/Thiruvananthapuram dtd  
22.04.2020

- Read:
1. Letter No.CE(TS)/EE2/AEE VII/GIS Kollam/2017-18/2613 dated 15.02.2018.
  2. Remarks of Financial Adviser vide FA/Tender II/72/20169, dated 05.12.2019.
  3. Minutes of DPR Committee meeting vide Endt on CE(TS)/EE1/AEE8/DPR Committee/2019-20 /2601 dated 04.02.2020.
  4. Letter No.CE(TS)/EE2/AEE III/Inter link GIS KLM-KTYM SS/2019-20/3024 dated 26.03.20.
  5. Note No. D(T&SO)//T1/GIS Kollam Kottiyam /2019-20/145 dated 06.04.2020 of the Director (T,SO&S) (Agenda item No. 18/4/2020).

### ORDER

At present, 110kV GIS Substation, Kollam with 2X20MVA, 110/11kV Transformers is feeding from 110kV Substation, Ayathil through 3.75 kms of 110kV XLPE UG cable. There is no alternate EHT supply to the substation which is feeding entire Kollam Town through 10Nos, 11kV feeders. The non availability of the second feeder to GIS Kollam badly affects the system security and reliability of the corporation area. Moreover, both Ayathil and Kollam substations are fed from 220kV, Kundara Substation and hence any interruptions occurring at this station will make both the GIS Kollam and Ayathil substations out and cause complete black out of Kollam Town Area.

Considering the above facts, the Chief Engineer (Transmission South) as per letter read 1<sup>st</sup> above had submitted a DPR for laying 11 kms of new UG cable linking between Kottiyam and Kollam GIS substations with construction of associated bays. The availability of alternative source as proposed will satisfy the N-1 criteria of both Kollam and Ayathil substations and will facilitate supply from another source also, viz. Edamon 220kV substation through Edamon-Ambalappuram-Kottiyam-GIS Kollam feeder.

Load Flow Studies report recommended the proposal of interlinking 110kV substation, GIS Kollam with 110kV substation Kottiyam by laying 11 kms of 110kV XLPE UG cable by considering the need for N-1 reliability, reduction in peak load system loss and observing the improvement in voltage profile of the stations in the area.

As the proposed project expenditure was found to be on the higher side, the Financial adviser as per note read on 2<sup>nd</sup> observed that the project is not financially viable.

Hence, the proposal was placed in the DPR Committee held on 15.01.2020 for a decision and the committee approved as per minutes read 3<sup>rd</sup> above the proposal considering as an essential back feeding arrangement required to the important Kollam GIS substation feeding the city, but directed to revise the estimate realistically.

Accordingly, the estimate has been revised in accordance with the actual rates of awarded similar projects and the same amounting to Rs. 33.5 Crore has been forwarded by Chief Engineer (Transmission South) as per note read as 4<sup>th</sup> above (Abstract of estimate attached).

The matter was placed before the Full Time Directors's meeting held on 16.04.2020 as per note read 5<sup>th</sup> above. Having considered the matter in detail, the Board

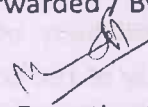
Resolved to accord Administrative sanction for an amount of Rs 33.5 Crore (Rupees Thirty three Crore fifty lakh only) for laying 3 runs of 1X630 sq mm, 110kV XLPE Aluminum UG cable of length 11 km from 110kV Substation Kottiyam to GIS substation, Kollam and construction of 1 No. of 110kV feeder bay at Kottiyam Substation under Transmission Circle, Kottarakkara for ensuring reliable and stable supply to Kollam Town.

Orders are issued accordingly

By Order of the Full Time Directors ,  
Sd/-  
LEKHA.G  
Company Secretary (In-Charge)

To : The Chief Engineer (Transmission South )  
Copy to: ~~The~~ Deputy Chief Engineer, Transmission Circle ,Kottarakkara  
The Financial Adviser/ The Chief Internal Auditor/ The Company Secretary  
The RAO/ RAO.  
The TA to Chairman & MD/ D(T,SO&S)/ D(D,IT&HRM)/ D(G-C)/ D(G-E& SCM),PA to D(F)  
Fair Copy Superintendent/Library/Stock File.

Forwarded / By Order

  
Assistant Executive Engineer

**Annexure to B.O.(FTD)No. 286 /2020/(D(T&SO&S)/T1/GIS Kollam  
Kottiyam )/ Thiruvananthapuram dated 22.04.2020**

**INTERLINKING OF KOLLAM GIS -KOTTIYAM SUBSTATION**

**ABSTRACT OF ESTIMATE**

	Amount in Rupees
Total Cost of Materials (A)	9,29,25,987
Erection and commissioning ( B= 7.5 % of A)	6969449
Transportation, Insurance and Contigencies( C= 6% of A)	5575559
Civil works and Special works etc. (D)	118954650
Sub Total (E= A+B+C+D)	224425645
Road cutting reformation charges F	30000000
Total G	254425645
Overhead charge( H= 10 % of G)	25442565
Total H=E+F	279868210
Taxes I @18%	50376278
PTCC Approval& Inspectorate fees	4000000
Total	334244488
Unforeseen items	755512
Grand Total	335000000