



## KERALA STATE ELECTRICITY BOARD LIMITED

(Incorporated under the Companies Act, 1956)

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

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### ABSTRACT

TransGrid 2.0-Phase II-220/110 kV GIS Irinjalakkuda, & 220/110 kV MCMV line from Aluva to North Paravur(NSIP-Phase-IIA) & 220/110 kV MCMV line from North Paravur to Kodungallur (NSIP-Phase IIB)–Administrative Sanction accorded -Orders issued.

### Corporate Office(SBU-T)

B.O.(FTD)No.395/2020/D(T,SO&S)/T7/TransGrid/NS Interlink-II/20-21 dated,Thiruvananthapuram,  
**08.06.2020**

- Read: (1) B.O(DB)No.897/2019/D(T&SO)/T7/TransGrid/GI/19-20 dated 03.12.2019  
(2) Lr No. DB27/CE/TransGrid/NSIP II/2019-20/123 dated 13.05.2020 of the Chief Engineer(TransGrid)  
(3)Note No : D(T,SO &S)/T7/TransGrid/NS Interlink/2020-21/171 dated 27.05.2020 of the Director(T,SO&S) submitted to the Full Time Directors(Agenda 83/5/20)

### ORDER

The Chief Engineer (TransGrid) vide paper read 2 above, submitted a Detailed Project Report with the estimate for an amount of Rs **236.58 crores (Rupees Two hundred and Thirty six crores and Fifty Eight lakhs only)** for the construction of 220/110 kV GIS Irinjalakkuda, 220/110 kV MCMV Aluva - North Paravur Line (NSIP-Phase-IIA), & 220/110 kV MCMV North Paravur – Kodungallur line (NSIP-Phase IIB) under TransGrid 2.0.

The proposal includes :

- A) Construction of 220/110kV GIS at Irinjalakkuda, Thrissur district with station capacity of 2x100MVA Transformer, 2x220kV Feeder bays, 4x110 kV feeder bays with double bus bar system arrangement for both 220kV and 110kV for an estimated cost of **Rs 75.29 crore**.
- B) Construction of 14.715km of 220/110kV MCMV line from Aluva to North Paravur using the existing 66kV RoW including laying of 110kV UG cable for a length of 600m at Railway/NH/Metrorail crossings in Ernakulam District for an amount of **Rs 78.19 crore (NSIP Phase II A)**.
- C) Construction of 15.69km of 220/110kV MCMV line from North Paravur to Kodungallur(Thrissur District) using new RoW for an amount of **Rs 83.10 crore (NSIP Phase II B)**.

For the construction of 220 kV GIS Substation at Irinjalakkuda, suitable land has been identified and it is proposed to purchase the same through DLPC. The proposed GIS substation will have 220kV connectivity to 220 kV Substations Kunnankulam and Aluva on the northern and southern sides respectively. Similarly on 110kV side, it will be connected to the existing AIS Substations at Irinjalakkuda, Kodungallur and Kattur. With the implementation of the project, the existing 110 kV

Irinjalakkuda Substation will be fed from new 220 kV GIS thereby ensuring reliable and quality power flow.

For the transmission line work, specially designed towers are proposed for minimizing additional land requirement and the consequent public protests/ compensation issues. On implementation of the project, 110 kV Substations at Kodungallur and North Paravur will get additional connectivity. The contract for the construction of 220kV DC line from Kodungallur to Irinjalakkuda is already awarded and the works are progressing. The works for the Aluva - Kodungallur portion needs to be expedited for synchronizing the completion of Substation and line.

The project is included in the TransGrid Project-Phase II and is proposed to be funded from KIIFB. The Load flow study has confirmed the benefits and technical feasibility of the project. The IRR expected from the project is 7.58 % .

The DPR committee held on 24.04.2020 approved the proposal and decided to place the matter before the Board for approval. The Administrative Sanction has already issued as per B.O read 1 above, for an amount of Rs 2172 Cr for the works included in Phase-II of TransGrid 2.0 project. The Board has also authorized the Full Time Directors to accord Administrative Sanction for the estimate for individual works in Phase -II.

The Director (T, SO&S), as per note read as 3<sup>rd</sup> above elaborated on the technical and financial viability and necessity of the project and placed the proposal before the Full Time Directors.

Having considered the matter in detail, the Full Time Directors in the meeting held on 30.05.2020, Resolved to accord Administrative sanction for an amount of **Rs 236.58 Crores** (Rupees Two hundred and Thirty six crores and Fifty Eight lakhs only) comprising the following components.

- (a) Construction of 220kV /110kV GIS substation, Irinjalakkuda comprising of 2x100MVA Transformer, 2x220kV Feeders with double bus bar system, 4x110 kV feeders with double bus bar system for an amount of **Rs 75.29 Crore**.
- (b) Construction of 14.715km of 220/110kV MCMV line from Aluva to North Paravur using existing 66kV RoW including laying 110kV UG cable for a length of 600m for crossing Railway, NH and Metrorail (NSIP Phase IIA) for an amount of **Rs 78.19 Crore**.
- (c) Construction of 15.69 km of 220/110kV MCMV line from North Paravur to Kodungallur using new RoW (NSIP Phase II B) for an amount of **Rs 83.10 Crore** as part of TransGrid 2.0 project.

Further resolved to accord sanction to submit the DPR of 220/110 kV GIS Irinjalakkuda & North South Interlink package-Phase II to KIIFB for securing funding as part of TransGrid 2.0 project.

Orders are issued accordingly.

By Order of the Full Time Directors,

Sd/-

Lekha G.

Company Secretary (In- Charge)

To :

The Chief Engineer (TransGrid)

Copy to:

The Deputy CE( TransGrid North/South)/ The Deputy CE(IT)

The Financial Adviser/ The Chief Internal Auditor.

The RCAO/ RAO.

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

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

Forwarded / By Order

  
Assistant Engineer