



KERALA STATE ELECTRICITY BOARD LIMITED

(Incorporated under the Companies Act, 1956)

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

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ABSTRACT

TransGrid 2.0 - GIS Package 1 - Construction of 220kV GIS at Kaloor, Aluva & Kunnamangalam and construction of 2 Nos 220 kV feeder bays at Brahmapuram – Excess quantity & Extra items - Sanction accorded – Orders issued.

Corporate Office (SBU-T)

B.O(DB)No.515/2021/D(T&SO)/T6/GIS1-ExcessExtra/2021-22/Thiruvananthapuram dated 06.07.2021

- Read: 1. BO(FTD)No.336/ 2020 (D(T,SO&S)/T7/TransGrid/GIS/20-21 dated 20.05.2020
2. Note No. DB25/GIS-1/CE/TG/ SRR/2020-21/225 dated 17.05.2021 of the Chief Engineer, TransGrid
3. Note No.D(T&SO)/T6/TG/GIS-Excess quantity/Extra item/ 2021-22/ 16 dated 30.05.2021 of the Director(Transmission & System Operation) (Agenda Item No. 90/5/21)
4. Note No.D(T&SO)/T6/TG/GIS-Excess quantity/Extra item/2021-22/294 dated 07.06.2021 of the Chairman & Managing Director
5. Proceedings of the 59th meeting of Board of Directors held on 21.06.2021 vide Agenda 29-06/2021

ORDER

KSEBL has accorded Administrative Sanction for the construction of Gas Insulated Substations at Kaloor, Kunnamangalam & Aluva and construction of 2 Nos, 220 kV feeder bays at 220kV Substation Brahmapuram for an amount of Rs. 312.42 Crore. Accordingly, Technical Sanction was accorded for an amount of Rs. 229.40 Cr. The subject work was tendered for a PAC of Rs. 229.23 Cr and was awarded to M/s GE T&D India Ltd for Rs. 161.62 Cr including GST which is 29.48% below the estimate amount.

During the execution of the works, certain modifications were necessitated in the original design due to reasons such as changes in soil composition, re-fixation of base levels due to flood 2018, changes in design parameters of equipments and bus arrangements due to changes in the fault level at Kaloor and Aluva substations after the commissioning of the 400 kV Edamon – Kochi line etc. As a result, certain items of work already executed/to be executed exceeded the estimated quantities. Accordingly, as per BO read as 1st above, KSEBL has accorded an interim sanction for the excess quantities/extra items for an amount of Rs. 5,08,90,069/-.

Now the project is in completion stage (220kV GIS at Aluva & Kaloor were commissioned, final testing & commissioning in progress at 220kV GIS, Kunnamangalam) and the final bills are under processing. The Chief Engineer, TransGrid as per note read as 2nd above has reported that even after the revision done during the middle of the project, some more variations in Electrical & Civil items were necessitated in the course of execution. The major reasons for excess quantities in the electrical part are, the change in control cable & power cable lengths based on the detailed engineering and layout drawing finalization, inclusion of two more feeders at Aluva S/S, integration of existing panels to SAS at Brahmapuram etc. In case of civil works, due to the addition of cellar floor at Kaloor, all quantities related to GIS building were increased. The main

electrical extra items necessitated are additional 220&110 kV bus post insulators without structure, chemically treated earth pits etc which are proposed according to the revised layout of the stations, additions to Substation Automation System due to integration of 12 Nos of existing bays at Brahmapuram etc. Some civil extra items were also included during the execution as per site condition such as PVC pipes, GI pipes, materials required due to raised floor at Kaloor etc. Accordingly, there is a variation of Rs. 3,07,49,431/- above the sanctioned amount of Rs. 5,08,90,069/-. Hence the overall excess comes to Rs. 8,16,39,498/- which is 5.05% above the contract amount, including the interim sanctioned deviation of Rs. 5.09 Cr. The rates for the extra items were arrived as per DSR 2016 and wherever DSR rates were not available, market rates were applied to arrive at the rate.

The Project Monitoring Committee reviewed the subject work. The deviation statement was forwarded to the Financial Adviser for furnishing remarks and the Chief Engineer TransGrid addressed the clarifications of the Financial Adviser satisfactorily.

The total expenditure for the subject project comes to Rs. 169.78 Cr with a net deviation of Rs. 8,16,39,498/- which is 5.05% above the contract amount. Still the amount is 25.93% less than the PAC. The deviation statement is attached herewith as Annexure I.

The Full Time Directors in the meeting held on 31.05.2021 examined the subject matter and recommended to place before the Board of Directors for a decision.

Accordingly the matter was placed before the Board of Directors as per note read as 3rd above. Having considered the matter in detail, the Board of Directors in the meeting held on 21.06.2021,

Resolved to accord sanction for the overall excess quantity and extra items of works as per deviation statement having an additional financial commitment amounting to Rs. 8,16,39,498/- (Rupees Eight Crore Sixteen Lakh Thirty Nine Thousand Four Hundred and Ninety Eight only) which is 5.05 % of agreed PAC for the project – 'GIS Package 1- Construction of 220kV GIS at Kaloor, Aluva & Kunnamangalam and constructing 2 Nos. 220 kV feeder bays at 220kV Substation, Brahmapuram'.

Resolved also to authorize the Chief Engineer (TransGrid) to issue necessary revised Technical Sanction of the subject work.

Orders are issued accordingly.

By Order of the Director Board,
Sd/-
Lekha G
Company Secretary (In-Charge)

To : The Chief Engineer (TransGrid), Shornur
Copy to: The Deputy Chief Engineer, TransGrid North/South
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