



KERALA STATE ELECTRICITY BOARD Ltd

(Incorporated under the Companies Act, 1956)

Registered Office: Vidyuthi Bhavanam, Pattom, Thiruvananthapuram – 695 004

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ABSTRACT

TransGrid 2.0 – North South Interlink package III – Upgradation of 66kV Aluva-Chalakkudy Double Circuit line to 110kV DC line – Administrative Sanction accorded - Orders issued

Corporate Office SBU (T)

B.O. (FTD) No. 221/2024 (DIRTSO-AE5/NSIP III/2024)
Thiruvananthapuram

Dated:10-05-2024

- Read 1. B.O.(DB) No. 897/2019/D(T&SO)/T7/TransGrid/GI/19-20 dated 03.12.2019.
- : 2. Letter No. DIRTSO-AE7/2022/2230 dated 07.11.2022 of Executive Engineer, Power System Engineering.
3. Letter No. FA/Tender-2/61/2023(1) dated 04/12/2023 of the Financial Adviser.
4. Minutes of the DPR committee meeting held on 10.01.2024.
5. Note No. DB17/CE/TransGrid/NSIP III/23-24/1285 dated 23.01.2024 of the Chief Engineer (TransGrid).
6. Note No. DIRTSO-AE5/NSIP III/ I/21063/2024 dated 05.02.2024 of the Director (Transmission, System Operation & Planning) to the Full Time Directors(Agenda No:27-05/2024)

ORDER

Upgradation of Aluva-Chalakkudy 66kV DC feeder to 110kV DC (26.5km) is proposed under TransGrid Phase II as per the revised Long Term Transmission Plan. The Chief Engineer (TransGrid), as per note read as 5th above, submitted an estimate amounting to Rs. 70.80 crores for the project which comprises the upgradation of 66kV DC line to 110kV DC from 220kV Substation, Aluva to 220kV Substation, Chalakkudy including LILO arrangements to Kurumassery, Angamaly, Karukutty substations and the EHT consumers TELK and VAIGA. Upgradation of the existing line and making LILO arrangements will improve the operational flexibility and reliability of the entire system.

The LFS report recommended the proposal citing a system loss reduction of 0.849MW, better voltage profile, improvement in loading of transmission assets and improvement in reliability by satisfying N-1 criteria. Citing the technical essentiality of the project, the Financial Adviser, as per letter read as 3rd above, recommended the proposal. The DPR Committee approved the proposal subject to review of the proposed LILO arrangement at 110kV Angamaly Substation.

The 66kV Aluva - Chalakkudy DC feeder has been in service since 1947. Now, the line is in a very dilapidated condition and needs urgent renovation. The 66kV line was indispensable since it feeds three industrial consumers viz. VAIGA, TELK and KAMCO and 66kV substation Karukutty. For meeting the power demand and in line with KSEBL's policy to phase out 66kV lines and substations, upgradation of the line is proposed. Addition of

110kV Angamaly and 110kV Kurumassery substations to this transmission link will further strengthen the network as it will allow alternative feeding arrangements in case of outage scenarios, thereby reducing the duration of supply interruption especially for high-value industrial consumers.

The matter was placed before the Full Time Directors as per note read as 6th above.

Having considered the matter, the Full Time Directors resolved to accord Administrative Sanction for the upgradation of 66kV Aluva-Chalaky Double Circuit feeder to 110kV Double Circuit feeder at an estimated cost of Rs.70.80 Crore including GST.

Orders are issued accordingly.

By Order of the Full Time Directors,

Sd/-

LEKHA G
COMPANY SECRETARY

To:

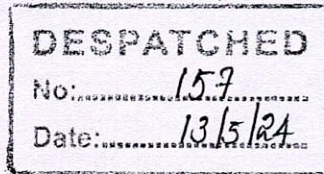
The Chief Engineer (TransGrid)

Copy to: The Financial Adviser/ Chief Internal Auditor/Chief Engineer(IT,CR&CAPs)
The Deputy Chief Engineer, TransGrid North / South
The Deputy Chief Engineer, Transmission Circle, Thrissur / Kalamassery
TheTAs to CMD / Director (G-C) /Director (D, Safety & SCM)/ Director
(T,SO&P)/ Director (G-E REES, SOURA, S&W)
The PA to Director (F & HRM)
CA to Company Secretary/ Secretary (Admn)
Stock File

Forwarded / By Order

S. S. S.

Assistant Engineer



KERALA STATE ELECTRICITY BOARD LIMITED

Annexure to B.O. (FTD) No. 221/2024 (DIRTSO-AE5/NSIP III/2024) dated. 10-05-2024

Name of work : Upgradation of 66 KV DC line from Aluva - Chalakudi to 110KV DC – (NSIP Phase III)

(Turnkey Contract for Engineering, Procurement, Contracting for supply of materials, labour charge, erection, testing and commissioning complete)

Abstract Estimate - Administrative Sanction

| Sl No. | Particulars | Amount - Rs (Excluding GST) | Amount - Rs GST | Total Amount - Rs (All inclusive cost) |
|--------|--|--------------------------------|----------------------|---|
| 1 | Materials and Spares | 168,009,481.44 | 30,241,706.66 | 198,251,188.10 |
| 2 | Erection & Labour Charges (PRICE) | 364,992,771.00 | 65,698,698.78 | 430,691,469.78 |
| | Sub total - Material & Labour | 533,002,252.44 | 95,940,405.44 | 628,942,657.88 |
| 1 | Compensation - Tower Footing | 44,658,080.00 | | 44,658,080.00 |
| 2 | Compensation - RoW | 5,930,319.00 | | 5,930,319.00 |
| 3 | Compensation - Tree Cutting | 350,000.00 | | 350,000.00 |
| 4 | Compensation - Crops & Vegetables | 5,893,500.00 | | 5,893,500.00 |
| 5 | Compensation - Paddy | 534,471.00 | | 534,471.00 |
| 5 | Compensation - Restoration of building, Compound walls etc. | 8,474,576.00 | 1,525,423.68 | 9,999,999.68 |
| | Sub Total - Compensation | 65,840,946.00 | 1,525,423.68 | 67,366,369.68 |
| 6 | Approval charges - Electrical Inspectorate, PTCC, GAIL, Railway, Distribution Licencee, Aviation Clearance etc. | 9,904,203.39 | 1,782,756.61 | 11,686,960.00 |
| | Sub Total - Approval Charges | 9,904,203.39 | 1,782,756.61 | 11,686,960.00 |
| | Grant Total | 608,747,401.83 | 99,248,585.73 | 707,995,987.56 |
| | Grant Total - Amount Rs. Crores | 60.87 | 9.92 | 70.80 |