



KERALA STATE ELECTRICITY BOARD Ltd

(Incorporated under the Companies Act, 1956)
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ABSTRACT

TransGrid 2.0 - 220 kV downstream works of 400 kV Substation, Karindalam (Kasaragod) - Administrative Sanction accorded - Orders issued.

BO (FTD)No.21/2023(DIRTSO-AE5/2022/3E98)

Thiruvananthapuram, Dated: 17.01.2023

- Read: 1. File No. CEA-PS-11-16(15)/3/2018-PSPA-I Division (Part (1) - Minutes of meeting held on 20.02.2019 at CEA, New Delhi.
2. Letter No. FATENDER2/47-22 dated 10.11.2022 of the Financial Adviser.
3. Letter No. D(T&SO)/PSE/LFS/Kasaragod(1) dated 24.11.2022 of the Executive Engineer, Power System Engineering.
4. Note No. DB68/CE/TG/2022-23/Downstream-Karindalam/1391 dated 19.12.2022 of the Chief Engineer, TransGrid.
5. Note No. DIRTSO-AE5/2022/3998 dated 29.12.2022 of the Director (T,SO,P&S) to the Full Time Directors (Agenda item 07/01/23).

ORDER

The Uduppi - Kasaragod 400 kV Transmission System is being implemented as part of ISTS strengthening scheme, which includes 400 kV Substation at Karindalam (Kasaragod) and associated 400 kV transmission line from Uduppi to Karindalam, by M/s.Uduppi Kasaragod Transmissior Ltd (M/s UKTL), which is awarded the work under Tariff Based Competitive Bidding (TBCB) by the Ministry of Power. For evacuation of power from the proposed 400 kV Kasaragod substation, the downstream connectivity at 220 kV level to the existing transmission network is to be established by KSEBL.

As per the sanctioned scheme by CEA/CTU for the the Uduppi - Kasaragod Transmission system, 6 Nos. of 220 kV feeder bays are proposed for evacuation of power from Karindalam substation to have connectivity with the 220 kV Substations at Taliparamba, Kanhirode, Ambalathara, Mylatty, Thalassery and Vidyannagar by constructing 9 km, 220 kV DC line as LILO from 220 kV Vidyannagar-Thalassery feeder and 4 km, 220 kV Multi Circuit line as LILO from 220 kV Kanhirode-Ambalathara and 220 kV Taliparamba-Mylatty feeders to 400 kV Substation, Karindalam.

The downstream works are proposed to be executed on Turnkey EPC contract mode under TransGrid 2.0. The Chief Engineer (TransGrid) as per note read as 4th above submitted the Detailed Project Report for the 220 kV downstream works amounting to Rs.54.49 Crore. for issuing Administrative Sanction. The estimate is prepared based on DSR 2018 with respective cost index and latest PO rates/ budgetary offers. Estimate for the labour portion is prepared in PRICE software.

The DPR Committee and the Financial Adviser have recommended that the works are technically inevitable and financially viable. Major benefits expected from establishing the

proposed 220 kV links are:

- Providing additional source to northern Kerala via the ongoing 400 kV Uduppi-Kasaragod link, so that adequate and reliable supply can be ensured in the region.
- Providing additional connectivity at 220 kV level for 6 major substations in north Kerala from a different source other than 400 kV Mysore connectivity.
- The connectivity to 220 kV substations at Thalassery, Kanhirode, Ambalathara, Vidyanagar and Mylatty from 400 kV Substation, Karindalam will improve the power system reliability and reduce the transmission congestion within Kasaragod and Kannur districts.
- Better interconnectivity at 220 kV level will reduce the transmission losses considerably.
- Smooth evacuation of power from the existing and proposed solar parks in Kasaragod area by various public and private agencies to the grid.

During the meeting convened by CEA on 20.02.2019 to discuss the implementation of 400 kV Uduppi-Kasaragod transmission scheme, it is decided that KSEBL shall implement the 220 kV and 400 kV connecting system from Kasaragod 400 kV substation in matching time frame to avoid non-utilization of Kasaragod transmission scheme and to avert the burden of payment of full transmission charges by KSEBL alone. The construction of the 400 kV link from Kasaragod to Wayanad has already started by TransGrid.

The matter was placed before the Full Time Directors as per the note read as 5th above.

Having considered the matter in detail, the Full Time Directors in the meeting held on 09.01.2023, resolved to accord Administrative Sanction for the work 'Downstream works of 400 kV Substation, Karindalam which includes Project A - Construction of 9 km 220 kV DC LILO line from 220 kV Vidayanagar-Thalassery feeder to 400 kV Substation, Karindalam and Project B - Construction of 4 km 220 kV Multi Circuit LILO line from 220 kV Kanhirode-Ambalathara and 220 kV Taliparamba-Mylatty feeders to 400 kV Substation, Karindalam' for a total amount of Rs. 54.49 Crores and to arrange the tender on turnkey basis.

Orders are issued accordingly.

**By Order of the
Full Time Directors**

Sd/-

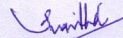
**LEKHA G
Company Secretary**

To:

The Chief Engineer (TransGrid)
The Chief Engineer (Transmission North)

Copy to: The Financial Adviser/ Chief Internal Auditor/ Company Secretary
The Deputy Chief Engineer, TransGrid North
The Deputy Chief Engineer, Transmission Circle, Kannur
The TAs to CMD/ D(T,SO,P&S)/ C(D,IT & SCM)/ D(G-C)/ D(G-E & HRM)/
D(REES,S,N,S&W)
The PA to Director (Finance)
Stock file.

Forwarded / By Order



Assistant Engineer

Abstract Estimate

Project A - Construction of 220kV DC LILC Line to 400kV Substation Karindalam from tap point of 220kV Vidayanagar - Thalassery Feeder & Project B - Construction of 220kV MC LILC Line to 400kV Substation Karindalam from tap point of 220kV Kanhirode - Ambalathara, 220kV Thaliparamba - Mylatty Feeders

Sl No.	Particulars	Amount in Rs	GST Amount in Rs	Total Amount in Rs
1	Materials and Spares Inclusive of F & I and all taxes	15,31,04,300.00	2,75,58,774.00	18,06,63,074.00
2	Erection & Labour Charges (PRICE)	22,40,06,398.00	4,03,21,098.00	26,43,27,496.00
	Subtotal - Material & Labour	37,71,10,398.00	6,78,79,872.00	44,49,90,270.00
3	Compensation - Tower Footing			1,30,74,275.00
4	Compensation - RoW			8,28,57,800.00
5	Compensation - Tree Cutting			39,39,000.00
	Subtotal - Compensation			9,98,71,075.00
	Grant Total - Amount Rs.			54,48,61,345.00