



KERALA STATE ELECTRICITY BOARD LIMITED

(Incorporated under the Companies Act, 1956)

Registered Office: Vidyuthi Bhavanam, Pattom,

Thiruvananthapuram – 695 004

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ABSTRACT

Providing connectivity at 110kV level to proposed 110kV Traction Substation at Punalur on deposit work basis for Railways - Issuing Technical Sanction for an amount of Rs.28.75 Crore - Consent accorded - Orders issued

Corporate Office (SBU-T)

B.O.(FTD) No.554/2023(D(T&SO)/T2/Punalur TSS/2023-24) TVPM

Dated: 23.12.2023

- Read: 1. B.O.(FTD) No.358/2023(D(T&SO)/T2/Punalur TSS/20 23-24) dtd 31.07.2023
2. Note No. CETS-AE5/2022/2206(6)/1096 dated 30.11.2023 of the Chief Engineer (Transmission South)
3. E-Office Note D(T,SO&P)/T2/Punalur TSS/2023-24/I/13139/2023 dated 11-12-2023 of the Director (T,SO&P) submitted to the Full Time Directors (Agenda No.44-12/2023)

ORDER

Administrative Sanction for Rs.28.75 Crore was accorded as per the B.O. read as 1st above for providing connectivity at 110kV. two-phase supply for a contract demand of 3MVA to the proposed 110kV Railway Traction Substation (TSS) at Punalur on deposit work basis for Railways. The scope of work are as follows:

- Providing 110kV feeder bay at 110kV Substation. Punalur
- Laying 2.75 km, 3 runs of 110kV, 300Sg.mm XLPE UG cable from Punalur substation to the proposed TSS at Punalur and laying 2.75 km 24-Fibre OFC cable for protection and communication.
- Construction of metering bay near proposed Traction Substation, Differential protection and feeder Control and Relay panel erection at TSS Control Room,
- Civil works including construction of cable trench, yard metalling, fencing, demolishing existing drainage trench and reconstruction, erection of bay equipment, erection of feeder panel etc.

The Chief Engineer (Transmission South) as per Note read as 2nd above submitted the detailed estimate for issuing Technical Sanction for the work. The Chief Engineer reported that in the detailed estimate, the size of 110kV XLPE cable is changed to 400 sq.mm as against 300 sq.mm proposed in the AS estimate. This change is necessitated due to the new regulations issued by CEA recently on constructional standards, mandating 40kA short circuit current rating for 110kV breakers. Since the short circuit current rating for 300sq.mm is only 28.2kA, which is not sufficient as per the new regulations, higher size cable of 400 sq.mm is needed. It is also reported that there is no substantial cost variation due to the change in the size of cable.

The estimate is prepared based on DSR 2018, sanctioned estimate of Melattur TSS and offers from KEE Cables, HNDALCO, Amrutha Associates, Polycab cables etc. The cost for HDD drilling and associated works is from the sanctioned estimate for "Interlinking 110kV GIS Substation, Kollam

with 110kV Substation, Kottiyam" and the offer from M/s.Amrutha Associates. The abstract of the estimate is attached as Annexure.

M/s. Railways has already remitted the work deposit amount of Rs.28.75 Crore and the work is to be executed urgently for energizing the traction substation.

The matter was circulated among the Full Time Directors as per Note, read as 3rd above, for giving consent to the Chief Engineer (Transmission South) to accord Technical Sanction for the deposit work.

Having considered the matter in detail, the Full Time Directors, resolved to accord consent to the Chief Engineer (Transmission South) for issuing Technical Sanction for an amount of Rs.28.75 Crore (Rupees Twenty Eight Crore Seventy Five Lakh Only) for the work "providing connectivity at 110kV, two-phase supply to the proposed 110kV Traction Substation at Punalur" on deposit work basis for Railways.

Orders are issued accordingly.

By Order of the Full Time Directors

Sd/
LEKHA G
COMPANY SECRETARY

To:

The Chief Engineer (Transmission South)

Copy to:

Chief Engineer (IT,CR&CAPS)/ Financial Advisor/ Chief Internal Auditor/Company Secretary
Deputy Chief Engineer. Transmission Circle, Kottarakkara
TA to CMD/Director (G-C) /Director (D.Safety, SCM & IT)/Director (T.SO&P)/Director
(G-E. REES. SOURA, Sports & Welfare)
PA to Director (Finanec & HRM)
CA to Secretary (.Administration)
Stock File

Forwarded / By Order



Assistant Executive Engineer

TS Estimate

KERALA STATE ELECTRICITY BOARD LTD		
ABSTRACT OF ESTIMATE		
Providing 110kV 2 phase supply to 110kV Traction substation at Punalur Max. Contract Demand of 3MVA on Deposit Work Basis		
Sl. No:	Description	Amount (Rs.Ps)
1	Construction of feeder bay at 110kV Substation, Punalur	1,32,96,256.06
2	Construction of Metering bay at Railway yard	78,62,065.00
3	Cable laying	14,33,60,531.68
4	PET testing for 35 years	71,94,460.00
5	Relay testing for 35 years	1,06,59,530.00
6	Operation and Maintenance charge for 35 years	30,00,000.00
7	Road cutting and restoration	2,50,00,000.00
8	Water supply pipe changing etc.	22,00,000.00
9	Soil Testing for supporting structure	20,000.00
10	Electrical Inspectorate fee, PTCC	17,00,000.00
11	BSNL/VI/JIO communication line restoration charges	1,50,000.00
12	Compensation to public for cable laying	3,00,000.00
13	HT/LT lines/cables rearrangement works	2,00,000.00
14	Provision For Conveyance (Jeep With Driver)	3,00,000.00
	Sub Total (A)	21,52,42,843.00
	Overhead/Supervision Charges (10% of A)	2,15,24,284.30
	Sub Total (B)	23,67,67,127.30
	Unforeseen	26,22,357.45
	Sub Total (C)	23,93,89,484.75
	GST @18%	4,30,90,107.26
	Sub total (D)	28,24,79,592.01
	Land cost	50,20,408.00
	Grand Total (A+B+C+D)	28,75,00,000.01
	Say Rs.	28,75,00,000.00

(Rupees Twenty Eight Crore Seventy Five Lakh Only)