



KERALA STATE ELECTRICITY BOARD LIMITED

(Incorporated under the Companies Act, 1956)

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

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ABSTRACT

Construction of 110 kV GIS substation at Thirumala, Thiruvananthapuram – Administrative Sanction accorded – orders issued.

Corporate Office (SBU-T)

B.O.(FTD)No.297 /2020/(D(T,SO&S)/T1/Thirumala)/Thiruvananthapuram dtd 27.04.2020

- Read:
1. Letter No.CE(TS)/EE2/AEEI /GIS Thirumala/19-20/1727 dated 30.10.2019 of the Chief Engineer (Transmission South)
 2. Minutes of the DPR Committee meeting held on 15.01.2020
 3. Letter No.CE(TS)/EE2/AEEI/GIS Thirumala/19-20/2666 dated 11.02.2020 of the Chief Engineer (Transmission South)
 4. Note No. D(T&SO)//T1/Thirumala /2019-20/151 dated 17.04.2020 of the Director (T, SO&S) (Agenda item No. 37 /4/2020).

ORDER

The Chief Engineer (Transmission-South) had forwarded a Detailed Project Report as per letter read as 1st above for the construction of Thirumala 110 KV GIS substation. The existing conventional type substation is fed from 110kV Substation, Kattakada through double circuit feeders. This substation is a vital installation feeding parts of Thiruvananthapuram City with an installed capacity of 3x20MVA transformers which are heavily loaded and hence the reliability and stability of the substation is imperative in maintaining the supply in the Capital City. The new renovation proposal involves a comprehensive package with a 110kV SCADA enabled GIS substation which would receive power at 110kV level from both the 110kV Substation, Balaramapuram (under upgradation) and 110kV Substation, Paruthippara, each through double circuit feeders after the upgradation of TVT 66kV Feeders.

At present TVT No.1 does not enter Thirumala substation, but in the new proposal termination of TVT No.1 Feeder is also included. The proposal involves construction of 14 bays including 6 Nos of GIS feeder bays, 6 Nos. of Transformer bays, 1 No. of bus coupler bay with double bus arrangement and 1 No. 110 feeder bay as spare. Due to space constraints in accommodating 14 bays in the space available in other side of the substation, it is proposed to construct 110kV Gas Insulated substation in the compound of existing substation itself.

The proposal was placed in the next DPR Committee held on 15.01.2020. After detailed discussions, the proposal for the construction 110KV GIS with 14 Nos. of bays was approved by the Committee as per minutes read 2nd above, but instructed to compare the rates with the awarded GIS substation contracts also.

Accordingly Chief Engineer (Transmission South) as per letter read as 3rd above forwarded the revised estimate amounting to Rs.38.26Crore (Rupees Thirty Eight Crore twenty six lakhs only) for Administrative sanction. (Annexure attached)

The estimate is prepared based on the budgetary offers received from the firms and comparing the same with the awarded GIS substation contracts, while other items based on the latest cost data.

As per the Load Flow study, the proposal will help to maintain power supply with minimum interruption at Thirumala substation and consequently to be connected 110kV and 66kV substations viz. Parassala, Neyyattinkara, Balaramapuram, Vattiyoorkavu, LA Complex and Power house. Moreover, this proposal will facilitate to meet the increasing demand of Thiruvananthapuram city with much higher stability and security. A budget provision of 50 lakhs has already been incorporated for the year 2020-21 for initiating the subject work.

Considering the importance of the project, the proposal was placed before the Full Time Directors as per note read as 4th above. Having considered the matter in detail, the Full Time Directors in its meeting held on 23.04.2020

Resolved to accord Administrative sanction for an amount of Rs 38.26 Crore (Rupees Thirty eight Crore twenty six lakh only) for the construction of a new 110 kV GIS Substation at existing Thirumala substation compound under Transmission Circle, Thiruvananthapuram to ensure enhanced quality of supply to the Capital City.

Further resolved that the work shall be tendered only in financial year 2021-22 or afterwards.

Orders are issued accordingly


By Order of the Full Time Directors,
Sd/-
LEKHA.G
Company Secretary (In-Charge)

To : The Chief Engineer (Transmission South)

Copy to: The Deputy Chief Engineer, Transmission Circle , Thiruvananthapuram
The Financial Adviser/ The Chief Internal Auditor/ The Company Secretary
The RCAO/ RAO.

The TA to Chairman & MD/ D(T,SO&S)/ D(D,IT&HRM)/ D(G-C)/ D(G-E& SCM),PA to D(F)
Fair Copy Superintendent/Library/Stock File.

Forwarded / By Order


Assistant Executive Engineer

**Annexure to B.O.(FTD)No.297/2020/(D(T,SO&S)/T1/Thirumala)/
Thiruvananthapuram dated 27.04.2020**

**ABSTRACT OF ESTIMATE
THIRUMALA GIS SUBSTATION**

Particulars	(Amount in Rupees)
Total Cost of material A,	242227553
Erection and commissioning, B=7.5% of A	18167067
Civil works and special works, C	32194494
Total, D=A+B+C	292589114
Overhead/ Supervision charge,E= 10% of D	29258911
Total F=D+E	321848026
GST @ 18% of F	57932645
Statutory approval charge	2650000
Unforeseen	169330
Grant Total Rs.	382600000.00

(Rupees Thirty eight Crore Twenty six lakh only)