



# KERALA STATE ELECTRICITY BOARD LIMITED

(Incorporated under the Companies Act, 1956)  
Registered Office: Vidyuthi Bhavanam, Pattom  
Thiruvananthapuram - 695004.  
CIN:U40100KL2011SGC027424,  
Phone Number : +914712448720, 2514341  
Email: [dgkseb@kseb.in](mailto:dgkseb@kseb.in) Web site: [www.kseb.in](http://www.kseb.in)



## ABSTRACT

Tremors occurred frequently near Idukki dam project area since February 2020  
-Constitution of an Expert Group to conduct seismic studies– Sanctioned-Orders issued.

### **CORPORATE OFFICE (SBU-G/C)**

BO(FTD)No. 315/2020 (No. DGC/AEE-II/ Dam Safety/2019)Thiruvananthapuram,dtd.08.05.2020

- Read:- 1. B.O (FTD) No136/2019 (DGC /AEE-II / Dam Safety / 2018) dated 16.02.2019  
2. Note No. CE(C-DSO)/Seismology/50/2009 dated 24.04.2020 of the Chief Engineer(Civil-Dam Safety&DRIP)  
3. Note No. DGC/AEE-II/ Dam Safety/2019) dated 04.05.2020 of the Director (Generation-Civil) (Agenda Item No.3/5/20)

### ORDER

The Chief Engineer ( C-DS & DRIP) as per note read as 2<sup>nd</sup> above has reported that mild tremors are occurring more frequently in Idukki area since 27<sup>th</sup> February 2020, where Idukki Arch Dam - a dam of national importance and other major dams of KSEBL including Cheruthoni, Kulamavu etc. are located. Idamalayar, Maduppetty & Ponmudi dams are also located in the relative proximity. It is also reported that, even though significant problems are not observed in the performance of dams in the nearby area from visual examination as well as from the interpretation of available instruments data, the impact of these tremors on the safety of the dams, seismic behavior of the area, probability of occurrence of high intensity seismic events in this area, precautionary measures, if any, to be taken now etc. are to be studied with the assistance of experts in the field of Seismic Science and Engineering.

The matter was taken up with the Central Water Commission and they had suggested to constitute an Expert Committee with members from various institutions including Central Water Commission, New Delhi, Geological Survey of India, National Centre for Seismology - New Delhi etc. It was also suggested by the CWC to include Dr. C V R Murty, Department of Civil Engineering, IIT, Chennai and Sri. I. D Gupta, former Director, CWPRS in the committee. Willingness was also obtained from the above officials/professionals to be a part of the Expert Committee proposed to be constituted.

In the meeting convened by the Chairman and Managing Director, KSEBL on 18-03-2020 for making an action plan to revive the existing seismological observatories in the Idukki project area, it was decided to develop a robust plan for strengthening the

modern equipment/system so as to represent adequately the region covering the dams of Idukki, Idamalayar projects etc. with the assistance of Central Water Commission / National Center for Seismology etc. and to implement the plan under DRIP.

The Chief Engineer(Civil-Dam Safety&DRIP) as per note read as 2 above has recommended to constitute an Expert Committee with the following structure to study the various aspects with regard to the seismic behavior of Idukki project area including impact of tremors on the safety of dams located in this region, probability of occurrence of high intensity seismic events in this area in future, to develop a robust plan for strengthening the seismological network established in this area including its modernization and to submit a detailed report with appropriate recommendation for the actions to be taken by KSEBL for ensuring the safety of dams and people & infrastructure downstream of dams in the Idukki project area.

1. Sri. Samir Kumar Shukla, Director, FE&SA, CWC, New Delhi - Chairman
2. Sri. Murty C V R, Professor, IIT, Chennai - Member
3. Sri. Ishwer Datt Gupt, Director (Retd.), CWPRS - Member
4. Dr. Sandip Kumar Som, DDG & RMH-IV, GSI Western Region, Jaipur - Member
5. Official from National Centre for Seismology, New Delhi - Member
6. Smt. Preetha R, Deputy Chief Engineer (R&DSO), Pallom - Convener
7. Sri. Aloushy Paul, Executive Engineer, Dam Safety Division, Vazhathoppe - Member

It is also reported that the remuneration, travel expense & status of accommodation for the members, other than the officials from KSEBL, may be fixed as the same as that decided by KSEBL, for the members of similar committees with officials of similar status, like that for the Panel of Experts constituted, as per B.O read as 1 above , for evaluation of safety of Poringalkuthu dam etc.

The matter was placed before the Full Time Directors as per note read as 3<sup>rd</sup> above. Having considered the matter in detail, the Full Time Directors in the meeting held on 07.05.2020 resolved to accord sanction to constitute an expert Committee with the above structure to study the various aspects with regard to the seismic behavior of Idukki project area including impact of tremors on the safety of dams located in this region, probability of occurrence of high intensity seismic events in this area in future, to develop a robust plan for strengthening the seismological network established in this area including its modernization and to submit a detailed report with appropriate recommendation for the actions to be taken by KSEBL for ensuring the safety of dams, people & infrastructure downstream of dams in the Idukki project area.

Further resolved to fix the remuneration of the external members as follows:

Remuneration as sitting fee	Rs. 7,500/- (Rupees Seven Thousand and five hundred only)per day for each day of inspection/ sitting and period of journey.
Air/Train travel	a) Economy class by any Air Lines . b) First class AC for Train travel
Lodging, boarding and local transportation during period of visit	As admissible to the Chief Engineer level officers of the KSEB Ltd; alternatively hotel accommodation including lodging and boarding of not less than three star category.

The Chief Engineer(Civil-Dam Safety&DRIP) shall take further necessary action.

Orders are issued accordingly.

By Order of the Full Time Directors

Sd/-

Lekha .G

Company Secretary i/c

To

The Chief Engineer ( Civil- Dam Safety & DRIP)

Copy to:

1. The Dy. Chief Engineer ( Research & Dam Safety Organization), Pallom
2. Financial Adviser/ The Chief Internal Auditor
3. The RCAO/RAO
4. The Deputy Chief Engineer(IT)
5. TA to CMD / TA to Dir(GC) / Dir(GE&SCM) / Dir(T,SO,S &REES) / Dir(D,IT&HRM)
6. PA to Dir (F) / Company Secretary i/c
7. FC Supt/ Librarian
8. Stock file / File

Forwarded / By Order

  
Assistant Executive Engineer