



KERALA STATE ELECTRICITY BOARD LIMITED

(Incorporated under the Companies Act, 1956)

CIN:U40100KL2011SGC027424

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ABSTRACT

DRIP- Dam rehabilitation including renovation of crest gates (No.1, 2, 3, 5, 6 & 7) of Poringalkuthu HEP (Part II) – Contract with M/s Paulose George Construction Company Pvt. Ltd. – conducting FRL test - Sanctioned- Orders issued.

CORPORATE OFFICE (SBU-G/C)

BO (FTD) No.528/2020 (DGC/AEE-II/ DRIP/ PGL/2015) Thiruvananthapuram, dtd.17.08.2020

- Read: -1. Agreement No. 07/CE(C) DS/DRIP/PLM/2017-18 dated 27.05.2017
2. B.O (FTD) No. 3 /2019 (DGC /AEE-II / Dam Safety / 2018) dated 07.1.2019
3. Note No.CE(C)DS & DRIP/PGLGT/2016-17 dated 24.07.2020 of the Chief Engineer (Civil-Dam Safety & DRIP)
4. Note No. DGC/AEE-II/ DRIP/ PGL/2015 dated 06.08.2020 of the Director(Generation - Civil) (Agenda Item No. 27/8/20)

ORDER

The Chief Engineer (Civil -Dam Safety & DRIP) as per note read as 3rd above has reported that the renovation/rehabilitation of 6 nos of spillway crest gates of Poringalkuthu dam, was carried out under DRIP (Phase I) through M/s Paulose George Construction Company Pvt. Ltd. as per the agreement read as 1st above with an objective to improve the operational and functional efficiency of the crest gates. As the dam was overtopped during the unprecedented flood occurred during August 2018, a Panel of Experts(PoE) was constituted as per BO read as 2nd above to examine various aspects of overtopping, safety examination of dam and to recommend necessary rehabilitation measures both short term as well as long term. It is reported that the Panel of Experts visited the dam site and suggested to limit the reservoir level upto crest level (419.41 m) and to do the stability analysis of the dam as per the Indian Standards. The Stability Analysis of the dam done by the Design Unit of KSEBL is scrutinized by the PoE and observed that the dam satisfies the stability criteria except for load combinations with earthquake load at FRL condition (+423.98m).

It is also reported that, the entire work as per the agreement except testing of gates at FRL was completed by the contractor as on 26.02.2019. Since FRL testing is important to assess the performance of the gates, sanction was obtained from PoE for maintaining the water level up to FRL for a short period i.e., for 21 days (2-3 weeks) to enable testing of gates. As the regulation of reservoir level required co-ordination with System Operation wing, a meeting was convened at Moolamattom on 21.12.2019 and it was decided to perform the testing during the monsoon 2020, when spill occurs normally.

It is also reported that the monsoon is not consistent to get a steady inflow into the reservoir. The water levels in the upstream reservoirs (TN Sholayar, Parambikulam and Thunakkadavu) are below the FRL and spill from these reservoirs are not expected. As there is no irrigation requirement for the time being, the testing of gates can be done by permitting the reservoir to rise upto FRL (423.98 m). The testing of 6 gates

require about 21 days. The inflow into the reservoir will be closely monitored and the operation of sluice gates and crest gates will be done to keep the reservoir levels in safe limits.

The Chief Engineer had discussed the matter with the Member Secretary, SDMA and Deputy Collector, Thrissur and they informed that the decision of the Board may be intimated to them for necessary action during the release of water. Hence the Chief Engineer has requested sanction to carry out the FRL testing of crest gates in this season, after giving due intimation to the District Disaster Management Authority, Thrissur.

The matter 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 the meeting held on 12.08.2020 resolved to accord sanction to the Chief Engineer(Civil -Dam Safety & DRIP) to carry out the FRL testing of Crest Gates of Poringalkuthu HEP in 2020 monsoon season, preferably after 20th August, after giving due intimation to the District Disaster Management Authority, Thrissur.

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 Deputy Chief Engineer(R&DSO),Pallom
2. The 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) / Dir(D&HRM)/Dir(Plg&S)
6. PA to Dir (F) / Company Secretary i/c
7. FC Supt/ Librarian
8. Stock file / File

Forwarded / By Order


Assistant Executive Engineer