



# KERALA STATE ELECTRICITY BOARD LIMITED

(Incorporated under the Companies Act, 1956)  
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CIN: U40100KL2011SGC027424

## Abstract

Sengulam Power House- Total shutdown from 02.12.2022, 00 hrs to 31.05.2023 -Sanction accorded - Orders issued.

## Corporate Office (SBU-G/E)

B.O.(FTD) No.930 /2022 (DGE/G3/Sengulam- SD /2021-22 ) Thiruvananthapuram/276 dated: 30 -11-2022

- Read:-
1. Letter No.CEG/AEE -VII/SLM/GNL/2021-22/1237 dated: 26-11-2022 of the Chief Engineer (Generation)
  2. Note No. DGE/G3/Sengulam SD/156 dated:- 28 -11-2022 of the Director (Gen.-Ele.) (Agenda item No.80/11/22).

## ORDER

The Chief Engineer (Generation), as per letter read as of (1) above has requested sanction for the total shutdown of the 4x12.8 MW Sengulam HEP , from 02.12.2022, 00:00 hrs to 31.05.2023, for carrying out the penstock replacement work .

As per the deliberations of the coordination meeting held on 16.11.2022 regarding penstock replacement work of Sengulam HEP, it was decided to avail total shut down of Sengulam Power House and to lower the Sengulam reservoir level to 844.00 mtrs. As, the MDDL of the reservoir is 844.9 mtr, utmost care is required for lowering the water level further. Lowering of water level below 844.9 mtr could only be done through jets by engaging deflectors to prevent the machines from running. As continuous engaging of deflectors may lead to its deterioration, it is suggested to drain water through Unit #3, proposed for annual maintenance during the above said period in which overhauling Unit #3 MIV also to be done. Moreover, for reducing the draining hours, an additional piping is required to be done, just before the cooling water strainer, by bypassing the strainer, so that a portion of the water from penstock can be released to the tail race directly.

Considering the above ,the Chief Engineer (Generation) has requested sanction to operate Sengulam HEP as per the specified procedure & schedule and for the total shutdown of Sengulam HEP when reservoir level reached 844.9 m till 31.05.2023 ,for carrying out the penstock replacement work.

The matter was placed before the Full Time Directors as per note read as 2<sup>nd</sup> above. Having considered the matter in detail, the Full Time Directors meeting held on 30-11-2022 resolved to accord sanction to operate Sengulam HEP as per the following schedule from 01.12.2022 18:00 hrs onwards.

Date and time	Description of the work
01.12.2022 18:00 hrs	Switching off Sengulam pumps
02.12.2022 00:00 hrs	For draining water in the reservoir, operate all the four units at reduced load till water level reaches 844.9m
03.12.2022 0:00 hrs	Starts drain down below MDDL (844.9), only one unit is in operation (Unit #3) with deflector engaged and simultaneous opening of cooling water additional pipe for draining penstock.
05.12.2022, 06:00hrs	Expected draining down to Maximum possible level (844.0m) through machine

Further resolved to accord sanction for availing total shutdown of Sengulam HEP when reservoir level reached 844.9 m , till 31.05.2023 ,for carrying out the penstock replacement works.

Further resolved that the time line shall be observed properly and timely completion of the work shall be ensured.

Orders are issued accordingly.

By Order of the Full Time Directors,

Sd/-  
(LEKHA.G)  
Company Secretary

To: The Chief Engineer (Generation), Moolamattom.

Copy to:  
The Financial Adviser  
The Chief Internal Auditor/Company Secretary  
The Deputy Chief Engineer, Generation Circle, Meencut  
The TA to CMD/D(GE&HRM)/ D(T,SO,P&S)/ D(D,IT&SCM)/D(GC)/D(RSS&W)/D(F)  
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Forwarded / By Order