



KERALA STATE ELECTRICITY BOARD LIMITED

(Incorporated under the Companies Act, 1956)

CIN:U40100KL2011SGC027424

Vydyuthi Bhavanam, Pattom, Thiruvananthapuram – 695004, Kerala

Tel:+914712448720 Email: dgkseb@kseb.in

Web site: www.kseb.in

ABSTRACT

Desiltation of Reservoirs of KSEBL – Approval for Standard Operating Procedure for reservoirs of KSEBL and obtaining sanction from the Government - modification on BO(FTD)No.558/2021(DGC/AEE II/Desiltation/2015) dated 19.07.2021 - orders issued.

CORPORATE OFFICE (SBU-G/C)

BO(FTD)No.663/2021(DGC/AEE-II/Desiltation/2015)Thiruvananthapuram, dtd.17.09.2021

Read

1. Minutes of the meeting convened by the Secretary (Power), Government of Kerala on 31.05.2021.
2. BO (FTD)No.558/2021 (DGC/AEE II/Desiltation/2015) dated 19.07.2021
3. G.O.(Ms) No. 79/2017/WRD dated 26.09.2017
4. GO (Ms) No. 14/2019/WRD dated 14.05.2019
5. Note No. DGC/AEE-II/Desiltation/2015 dated 16.08.2021 of the Director(Generation-Civil) to the Full Time Directors(Agenda Item No. 14 /9/2021)

ORDER

As per the direction of the Government, SOP (Standard Operating Procedure) for the desiltation of reservoirs of KSEBL was prepared after making appropriate changes to the SOP of Irrigation Department, approved by the Government of Kerala.

The Standard Operating Procedure (SOP) for the Desiltation of Reservoirs of KSEBL was approved in the the Full Time Directors meeting held on 12.07.2021. Accordingly, BO (FTD)No.558/2021 (DGC/AEE II/Desiltation/2015) dated 19.07.2021 was issued.

On further evaluation certain clauses were found required to be modified and corrected in the Annexure I to the B.O issued earlier in this regard. Hence the BO (FTD)No.558/2021 (DGC/AEE II/Desiltation/2015) dated 19.07.2021 is to be modified to that extent , with corrected annexure.

The matter was placed before the Full Time Directors as per note read as 5th above. Having considered the matter in detail, the Full Time Directors in the meeting held on 10.09.2021 resolved to approve the corrected Standard Operating Procedure (SOP) for the Desiltation of Reservoirs of KSEBL prepared after making corrections as listed in the Annexure.

Further resolved to modify the annexure to BO (FTD)No.558/2021 (DGC/AEE II/Desiltation/2015) dated 19.07.2021 accordingly.

Orders are issued accordingly.

By Order of the Full Time Directors

Sd/-

Company Secretary i/c

Acc: Annexure

To

The Chief Engineer(Civil- Dam Safety & DRIP)

Copy to:

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

Forwarded / By Order



Assistant Executive Engineer

Annexure to BO(FTD)No.663/2021(DGC/AEE-II/Desiltation/2015 dated 17.09.2021

1. In Clause (iii) of the SOP of Irrigation Department, a list of State and Central Government Agencies for the collection and analysis of sediment samples is given. In the 9th Empowered Committee meeting on desiltation held on 04.12.2020, it was recommended to take the technical assistance from NITs & IIT Palakkad for various tasks of desiltation. Hence it is recommended to amend the list by adding IIT Palakkad & NIT Kozhikode also. (Draft KSEBL SOP cl 2.2)
2. Clause (iv) of the SOP of Irrigation Department details the constitution of Technical Committee (TC). It is recommended to modify the constitution of TC by including Technical Examiner (Civil), Finance Department, Government. of Kerala as member of the committee, as consultation with the Technical wing of Finance Department is required for the approval of DPR. (Draft KSEBL SOP cl 2.5.1)
3. Clause (iv) of the SOP of Irrigation Department details the constitution of Empowered Committee (EC). It is recommended to modify the constitution of the committee by adding the Chairman & Managing Director, KSEBL and the Director (Finance), KSEBL in the committee. The total number of members in the committee is retained as five.(Draft KSEBL SOP cl 2.5.2)
4. Clause (iv) of the SOP of Irrigation Department details the procedure for vetting and acceptance of the estimated quantity of components, scrutiny of DPR and recommending DPR for administrative sanction (AS), according AS for DPR etc. The roles and responsibilities of each committee are specified clearly for recommending/ according sanction for the various activities involved in the desiltation process. In order to streamline the review and approval process and to reduce the time required for the multistage approvals, review and approval process of DPR is adopted as follows; KSEBL shall prepare the draft DPR including all the components of desiltation and submit the draft DPR to the TC for the technical review. The TC shall review the DPR and if any comments are there, KSEBL shall modify the DPR after complying the comments of the TC. The modified DPR will be submitted to the TC and the TC will submit the DPR to the EC with their recommendation. The EC shall scrutinize and approve the DPR and recommend to the Power Department for Administrative Sanction. (Draft KSEBL SOP cl 2.6 &2.7)
5. Clause (xi) of the SOP of Irrigation Department under the section 'Responsibility of Bidder' details the project duration. The project duration is modified as follows;

Quantity of sediments to be removed (Mm3)	Duration (Month)
0 - 5	36
5 - 15	42
> 15	48

Duration of projects for removing sediments upto 5 Mm³ as per the SOP of Irrigation department was 12 months. The quantity to be removed as per the bid for desiltation of Mangalam reservoir is 2.95 Mm³ and the period of contract is 36 months. Hence the project duration for removing sediments for a quantity upto 5 Mm³ is modified to 36 months from 12 months. In line with the above, duration for other range of quantities also modified.(Draft KSEBL SOP cl 12)

6. Clause (v) of the SOP of Irrigation Department states that the land required for the desiltation shall be provided by the Government on lease subject to the availability or arranged by the contractor. It is modified as follows;

Land is required for temporary use for transporting and processing the deposited sediments and to access the process yard for a period of 3-4 years depending upon the extent of siltation and characteristics of the reservoirs. Land if available with KSEBL shall be permitted for temporary use on lease.

If the land required for transportation and processing of sediments is forest land, forest department is required to provide permissive sanction for the use of land on lease.

(Draft KSEBL SOP cl 6)

7. Clause (xii) of the SOP of Irrigation Department stipulates that the successful bidder shall pay the amount to the Government in advance in installments.

This clause is modified as;

The income generated from the desiltation of reservoirs carried out by KSEBL shall be wholly the revenue of KSEBL

The modification is made because;

KSEBL will have to incur expenditure for carrying out the pre activities including conducting bathymetric survey, estimation of quantity of each component of deposited sediments, preparation of ESMP, preparation of DPR etc. More over KSEBL is inviting the bid and arranging the work. Further the work will be implemented under the supervision of KSEBL. (Draft KSEBL SOP cl 9)

8. Clause (xii) of the SOP of Irrigation Department says two methods of contracting, Turn Key method and Work contract method. It is proposed to adopt Turnkey method.(Draft KSEBL SOP cl 10)

9. Clause (vii) of the SOP of Irrigation Department mentions that No stacking/processing of desilted materials shall be carried out in the reservoir/project area. It is modified as : Forest Department shall permit/undertake itself the desiltation of the reservoir without affecting the safety and operational performance of the Project in coordination with KSEBL. Forest Department shall execute the desiltation or arrange to remove and dispose the sediments in reservoirs in a time bound manner.

KSEBL shall carry out the desiltation of reservoirs in the land owned by KSEBL and in the land under Revenue Department under the authority of the EC.

(Draft KSEBL SOP cl .7 & 8)

10. Clause (xiii) of the SOP of Irrigation Department says that desilting adjacent to the dam structure shall be under the close monitoring of Kerala Dam Safety Authority.

It is modified that, KSEBL shall closely supervise the removal of sediment from the nearby vicinity of the dam and appurtenant structures.

It is not practically possible to have a close monitoring of desiltation near dam structure by Kerala Dam Safety Authority as it may require a good number of days for desilting near dam structure.(Draft KSEBL SOP cl 14.1)