



# KERALA STATE ELECTRICITY BOARD Ltd

(Incorporated under the Companies Act, 1956)

Registered Office: Vidyuthi Bhavanam, Pattom,

Thiruvananthapuram – 695 004

CIN: U40100KL2011SGC027424

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## ABSTRACT

Desiltation of Reservoirs of KSEBL - Standard Operating procedure for the reservoirs of KSEBL- Modified in line with the SOP published by Government of Kerala - Sanction accorded - Orders issued.

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

BO (FTD)No.471/2023(DGC/AEE IV/Dam Thiruvananthapuram,Dated: 08.11.2023  
Safety/Desiltation/2023)

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- Read: 1. B.O. (FTD) No. 663/2021 (DGC/AEE-II/Desiltation/2015) dated 17.09.2021.  
2. Letter No. CE-CDSD-PLM-CE1/2023/97 dated 16.06.2023,10.08.2023 & 29.09.2023 of Chief Engineer (Civil-Dam Safety & DRIP).  
3. Note No. DGC/AEE IV/Dam Safety/Desiltation/2023 dated 03.07.2023of the Director (Generation-Civil).  
4. Note No. DGC/AEE IV/Dam Safety/Desiltation/2023 dated 16.10.2023 to the Full Time Directors (Agenda No.05-11/2023).

## ORDER

KSEBL as per the B.O. read as 1<sup>st</sup> above has accorded sanction to the corrected SOP for the desiltation of reservoirs of KSEBL and the same was submitted to the Power Department for approval. Irrigation Department has offered certain comments and the modified SOP in compliance with the comments from the Irrigation Department was placed for sanction before the Chairman & Managing Director as per the note read as 3<sup>rd</sup> above. It was directed to modify the SOP in line with the SOP published by the Government of Kerala.

The Chief Engineer (C-Dam safety & DRIP) has requested sanction to modify the SOP in line with the SOP published by the Government of Kerala. The changes made in the SOP with respect to the SOP approved as per B.O. read as 1<sup>st</sup> above are attached as Annexure-I.

The matter was placed before the Full Time Directors as per the note read as 4<sup>th</sup> above.

Having considered the matter, it was resolved to modify the Standard Operating Procedure (SOP) for the desiltation of KSEBL's reservoirs as per the corrections listed in Annexure 1, modified in line with the SOP published by the Government of Kerala vide G.O. (MS) No.79/2017/WRD dated 26.09.2017 & G.O. (MS) No.14/2019/WRD dated 14.05.2019 and decisions taken in the Empowered committee meeting.

Further, it was resolved to submit the modified SOP to the Power Department, Government of Kerala for approval by the Empowered Committee.

Orders are issued accordingly.

**By Order of the  
Full Time Directors**

Sd/.

**LEKHA G  
Company Secretary**

To:

The Chief Engineer (Civil-Dam Safety & DRIP)

Copy to: The Chief Engineer (IT,CR&CAPS)/ Financial Advisor/ LA&DEO/ Chief Internal Auditor/ Company Secretary  
The TA to the Chairman & Managing Director / Director (Generation-Civil) / Director (Distribution, Safety, SCM & IT) / Director (Transmission, SO & Planning)/ Director (Generation - Electrical, REES, SOURA, Sports & Welfare)  
The PA to the Director (Finance & HRM)  
The Sr.CA to the Secretary (Administration)  
The RCAO/ RAO  
Stock File.

Forwarded / By Order

*Milba*

Assistant Executive Engineer

**Annexure I to B.O (FTD) No. /2023 (DGC/AEEIVDam Safety/Desiltation/2023) dated 11.11.2023**

Sl No	Reference in the SOP of KSEBL approved vide BO(FTD)No. 663/2021 dated 17.09.2021	Clause as per SOP of KSEBL	Modification made in SOP.	Remarks
1	Clause 2.5.1	<p><b>Constitution of Technical Committee</b></p> <p>a. Director - Generation (Civil), KSEBL -Chairman</p> <p>b. Chief Engineer (Civil - Dam Safety &amp; DRIP), KSEBL - Convener</p> <p>c. Chief Engineer (Mechanical), PWD - Member</p> <p>d. Director, Mining &amp; Geology Department - Member</p> <p>e. Chief Hydrographer - Member</p> <p>f. Technical Examiner (Civil), Finance Department, Govt. of Kerala - Member</p> <p>g. Deputy Chief Engineer, Dam Safety Organization, KSEBL- Member</p>	<p>a. Director - Generation (Civil), KSEBL - Chairman</p> <p>b. Chief Engineer (Civil - Dam Safety &amp; DRIP), KSEBL - Convener</p> <p>c. Chief Engineer (Mechanical), PWD - Member</p> <p>d. Director, Mining &amp; Geology Department - Member</p> <p>e. Chief Hydrographer - Member</p> <p>f. <b>Assistant Chief Technical Examiner (Civil), Finance Department, Govt. of Kerala - Member.</b></p> <p>g. Deputy Chief Engineer, Dam Safety Organization, KSEBL- Member</p>	<p>In the minutes of the 12<sup>th</sup> Empowered Committee meeting on Desiltation dated 30.05.22, it was decided to obtain continuous service of Asst. Chief Technical Examiner in the Technical committee for Desiltation.</p> <p>Accordingly, Technical Examiner (Civil) in the Technical Committee is replaced with Assistant Chief Technical Examiner (Civil).</p>

Sl No	Reference in the SOP of KSEBL approved vide BO(FTD)No. 663/2021 dated 17.09.2021	Clause as per SOP of KSEBL	Modification made in SOP.	Remarks
2	Clause 2.5.2, page 4	<p><b>Constitution of Empowered Committee;</b></p> <p>a. The Additional Chief Secretary, Department of Power - Chairman</p> <p>b. The Chairman &amp; Managing Director, KSEBL – Convener</p> <p>c. The Director (Finance), KSEBL - Member</p> <p>d. The Additional Chief Secretary, Department of Revenue - Member</p> <p>e. The Additional Chief Secretary, Forest and Wildlife Department - Member</p>	<p>a. The Chief Secretary – Chairman</p> <p>b. The Additional Chief Secretary, Water Resources Department – Convener</p> <p>c. The Additional Chief Secretary, Finance Department – Member</p> <p>d. The Additional Chief Secretary, Power Department – Member</p> <p>e. The Additional Chief Secretary, Revenue Department – Member</p> <p>f. The Additional Chief Secretary, Forest and Wildlife Department – Member</p>	<p>Constitution of Empowered committee is modified as per G.O.(Rt)No. 4252/2018/WRD dated 16.06.2018.</p>
3	Clause 9	<p>Revenue from Desiltation:</p> <p>The income generated from the desiltation of reservoirs carried out by KSEBL shall be wholly the revenue of KSEBL.</p>	<ul style="list-style-type: none"> <li>• KSEBL will have to incur expenditure for the pre activities of desiltation. Expenditure is to be incurred for the pre activities like assessing the quantity of</li> </ul>	<p>The CMD has directed during the discussions, to keep the clauses in the SOP with regard to the revenue from desiltation in line with the SOP</p>

SI No	Reference in the SOP of KSEBL approved vide BO(FTD)No. 663/2021 dated 17.09.2021	Clause as per SOP of KSEBL	Modification made in SOP.	Remarks
			<p>deposited sediments by conducting sedimentation survey, estimating the quantity of components of sediments by taking core samples, analyzing and classifying the components, preparation of ESMP, preparation of Detailed Project Report etc.</p> <ul style="list-style-type: none"> <li>• KSEBL shall present the details of expenditure incurred to them before the Empowered committee.</li> <li>• The expenditure incurred by KSEBL for carrying out the pre activities shall be reimbursed to KSEBL.</li> <li>• In addition to the above, 20% of the revenue obtained from the desiltation shall be set apart as Reservoir Management Fund and to be disbursed to KSEBL for the maintenance of the dam and</li> </ul>	<p>published by Govt. of Kerala.</p> <p>As per the SOP of GoK, the successful bidder shall pay the amount to the Government in advance installments as decided by the Empowered Committee.</p> <p>KSEBL has to incur expenditure for the pre activities. Hence the clause is modified such that the expenditure incurred by KSEBL for carrying out the pre activities shall be reimbursed to KSEBL.</p> <p>As per GO (Ms) No. 49/019/WRD Dated 08.11.2019 and the minutes of the 11<sup>th</sup> Empowered Committee, 20% of the revenue obtained from the desiltation shall be set apart as</p>

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4	Clause 10	<ul style="list-style-type: none"> <li>Irrigation Department, Govt. of Kerala has invited bid for desiltation of Mangalam Reservoir on Turnkey Contract Method and work is in progress. KSEBL shall prepare the bid document for desiltation of reservoirs with reference to the bid document of Mangalam Reservoir of Irrigation Department, Govt. of Kerala.</li> <li>The Bid shall be invited by the Chief Engineer (Civil – Dam Safety &amp; DRIP), KSEBL.</li> <li>A two - cover system shall be</li> </ul>	<ul style="list-style-type: none"> <li>The implementation of desiltation of reservoirs shall be entrusted with a Govt. agency like KIIDC, KEMDEL, Dredging Corporation of India etc. as decided by the Empowered Committee.</li> <li>The agency shall carry out all the activities right from Estimation of components in the deposited sediments, Preparation of DPR, Bidding, Award of work, Monitoring the progress etc.</li> <li>If the work is proposed to be</li> </ul>	<p>The Empowered Committee has decided to award the Desiltation of Reservoirs of Irrigation and KWA to KIIDC, KEMDEL, Dredging Corporation etc. and works were awarded accordingly.</p> <p>The same procedure can be adopted for the reservoirs of KSEBL also. Hence the clause is modified accordingly.</p>
			<ul style="list-style-type: none"> <li>reservoir system as per GO (Ms) No. 49/019/WRD Dated 08.11.2019.</li> <li>The schedule of remittance by the contractor shall be decided by the Empowered committee and included in the contract.</li> </ul>	<p>Reservoir Management Fund and to be used for the maintenance of the dam and reservoir system. Accordingly the clause is added.</p>

SI No	Reference in the SOP of KSEBL approved vide BO(FTD)No. 663/2021 dated 17.09.2021	Clause as per SOP of KSEBL	Modification made in SOP.	Remarks
		<p>followed for bidding. The bid shall be invited in e-procurement platform.</p> <ul style="list-style-type: none"> <li>• Earnest Money Deposit of the bid shall be 2.5% of PAC as stipulated in the revised SOP of Irrigation Dept.</li> <li>• The work shall be awarded to the bidder who quotes the highest amount for desiltation.</li> </ul>	<p>carried out directly through KSEBL, following procedure shall be adopted;</p> <ul style="list-style-type: none"> <li>• KSEBL shall carryout the Estimation of components of deposited sediments and preparation of the Detailed Project Report.</li> <li>• KSEBL shall prepare the bid document for desiltation of reservoirs based on Turnkey Contract Method.</li> <li>• The Bid shall be invited by the Chief Engineer (Civil - Dam Safety &amp; DRIP), KSEBL.</li> <li>• A two - cover system shall be followed for bidding. The bid shall be invited in e-procurement platform.</li> <li>• Earnest Money Deposit of the</li> </ul>	

Sl No Reference in the SOP of KSEBL approved vide BO(FTD)No. 663/2021 dated 17.09.2021	Clause as per SOP of KSEBL	<b>Modification made in SOP.</b>  bid shall be 2.5% of PAC as stipulated in the revised SOP of Irrigation Dept. <ul style="list-style-type: none"> <li>The work shall be awarded to the bidder who quotes the highest amount for desiltation.</li> </ul>	<b>Remarks</b>
4 Clause 12	Project Duration:  Duration of the project is fixed according to the quantity of deposited sediment to be removed as detailed;	The Project duration shall be assessed based on program chart with respect to the site condition, transportation plan, EMP and other factors which are to be considered. However, duration of the project is tentatively fixed according to the quantity of deposited sediment to be removed as detailed;	In the remarks obtained on the SOP, approved by KSEBL and submitted to Gok, it was stated that The Project duration shall be assessed based on program chart with respect to the site condition, EMP and other factors which are to be considered. Accordingly, the clause is modified. However, the duration estimated based on the quantity to be removed,

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

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



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> 15		48					