

Desiltation of Mangalam & Chulliar reservoirs – Minutes of the Technical Committee (as per G.O.(Ms) No. 79/2017/WRD dated 26-09-2017) meeting held on 27-06-2018 at 11.15 am in the Board Room of IDR B

The meeting started at 11.15 am. Members/ representatives from various departments of the Technical Committee and field officers ^{concerned} of ~~Chulliar~~ ^{reservoir} attended the meeting.

The Chief Engineer, IDR B as an opening remark explained about the actions taken for the desiltation of Chulliyar and Mangalam ~~dams~~ ^{reservoir} till now. He went briefly on the Standard Operating Procedure (SOP), Environment Management Plan (EMP), sampling and analysis of sediments, etc. He also informed the Committee that the Technical Committee is to vet the Detailed Project Report (DPR) ^{in respect of} Chulliyar dam and also the estimated quantity of sediments carried out jointly by CESS and KERI, before placing it ^{before} in the Empowered Committee.

The estimate for the desiltation of Chulliyar dam was then gone through in detail.

- 1) Survey for finding the initial level of sediments in the reservoir – Total station survey was included in the estimate. It was suggested to include bathymetric survey also for the water spread area. The initial level of sediments is to be taken before start of work and final level after completion of work. The same to be reported to CTE. If the bidder has any reservation regarding data of the department, they may be allowed to carry out the required survey/analysis.
- 2) Regarding provision for jungle clearance, it was informed that the provision is for separation, stacking yard, etc.
- 3) Regarding Observed Data taken from Harbour Department, the following suggestions were made
 - i) The specification includes 'using dredger or pneumatic suction pump or cutter suction dredger' etc, it was directed to remove provision for dredger as it was not included in SOP.
 - ii) The lead proposed, to be ascertained.
 - iii) The proposed output to be ascertained.
 - iv) Regarding separation of sediments, it should include pebbles, sand, clay and residue, since clay separation is very costly.

①
Committee
approved the

- v) Separate items to be included for packing and stacking, since after separation, the total sediments is to be stacked, and packing can be done as per necessity, as it has been specified in the SOP.
- vi) Method of packing proposed to be identified for finalizing the data.
- vii) Bulking of sand to be tested so as to assess the actual quantity of sand realized.
- viii) Management plan to be evolved with Collector for removal of separated sediments ^{from} ~~from~~ the site at the earliest.
- ix) Regarding data for spiral separation, provision for mobilization of equipment from nearby harbor or rail connection to be included. Demurrage charges to be included.
- x) Provision for periphery road development to be included. Also, per hour rate to be arrived ^(for removal of sediments) at depending on the average total working hours of the equipment.
- xi) The data hence needs to be reworked based on the above.
- xii) In addition, installation of equipments, channelization, incidental expense including tax, etc are also to be included.
- xiii) Purification of water as per Water Authority norms and water quality tests to be included.
- xiv) Provision for recycling of water to be included.
- xv) To be enquired whether there is provision for dry separation, or whether water is to be added for separation, and the method/ process to be adopted for dry sediments.
- xvi) As per SOP, surveillance using GPS enabled vehicles has been included.
- xvii) In the specification, the design discharge and output per hour has to be specified for which bidder is to quote the rate.

In addition the following discrepancies noted in the DPR are to be corrected

- 1) All required maps including the site plan showing the identified stacking, processing, separation yards to be included.
- 2) Drainage map to be included showing the flow of treated water to reservoir/ water bodies also.

- 3) Since clay and residue forms 42.69 % of the sediments, the method of removal of the same to be detailed including provision for settling tanks, etc if found necessary.
 - 4) Grid map, Zoning map, etc to be included.
 - 5) Chulliyar Project details to be included.
 - 6) Purification of water before release to water bodies or for recycling purpose.
 - 7) Removal of sediments and separation of the same to be detailed.
 - 8) Benefit cost analysis to be carried out including quantifying all benefits that can be obtained due to the project, tangible and intangible.
 - 9) In the DRP, utilization of sediment ^{rehabilitated} is to be specified viz sand, clay etc. The ~~same~~ statements made in the DPR to be reworked to include all the benefits that can be obtained due to the project.
 - 10) The DPR to be modified as per comment made above by the Committee members and as per SOP, the DPR and comments made by the Committee are to be forwarded to Government for placing in the Empowered Committee through ~~concerned~~ Chief Engineer, *Projects I*
- The meeting ended at 1.45pm.

11) The Committee approved

Form
28.6.18





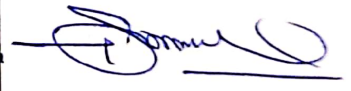

Chief Engineer (I&D), IDR B

PS, AD 2
28-06-18

SH
28/6/18

KV
28/6/18

Technical Committee meeting on 27-06-2018 at 11.00 am in the Board Room of IDRB, regarding desiltation of Mangalam and Chulliar reservoirs

Sl.No.	Name & Designation	Mobile No. & e-mail ID	Signature
1.	K. H. Shamendran, CE IDRB		
2.	V. S. Shaji, CE, Mechanical	94471 03753	
3.	S. THILAKAN CE, PI, Kozhikkodu	9447332645	
4.	Dr. Udaya Kumar. A	94473 60968	
5	A.P. Sreenivasulu Chief Hydrographer	9446539123 chhswkerala@gmail.com chhswkerala@gmail.com	
6.	V. SHANMUKHAN SE, Sivani Circle Palakkadu	9446339849	
7	JOSHY. K. R. CE (Brigade & Admin)	9946203644	