



ABSTRACT

Water Resources Department - Announcement made by the Hon'ble Minister for Water Resources for 2023-2024 - Conversion of Madhavaram Retteri into drinking water source by deepening the Bed and Providing Regulator arrangements and improvements to foreshore area of Madhavaram Tank in Madhavaram Taluk of Chennai District at an estimated cost of Rs.43,19,02,000/- - Administrative Sanction accorded - Orders issued.

Water Resources (S1) Department

G.O.(Ms) No.42

Dated.20.06.2023

சோபகிருது, ஆணி-5

திருவள்ளூர் ஆண்டு 2054

Read :

From the Chief Engineer, Water Resources Department, Plan Formulation Letter No.B4 / 2905/ 2023 / 3(CCWS) / CR / AE1 / OT3, dated:11.04.2023.

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ORDER:

During the Demand for Grants for Water Resources Department for the year 2023-2024, held on 29.03.2023, the Hon'ble Minister for Water Resources on the floor of Assembly has announced that the work of Conversion of Madhavaram Retteri into drinking water source by deepening the Bed and Providing Regulator arrangements and improvements to foreshore area of Madhavaram Tank in Madhavaram Taluk of Chennai District will be taken up at an estimated cost of Rs.44.00 Crore.

2. Based on the above announcement, the Chief Engineer, Plan formulation, Water Resources Department has sent a proposal for the work of Conversion of Madhavaram Retteri into drinking water source by deepening the Bed and Providing Regulator arrangements and improvements to foreshore area of Madhavaram Tank in Madhavaram

Taluk of Chennai District at an estimated cost of Rs.44.00 Crore and furnished the following details about the estimate:-

- a. Madhavaram Tank is located at North East of Chennai District. This tank is one of the Major tanks for the city's water supply. This tank has two weirs, one on the left flank and another on the right flank. The tank is splitted by the GNT road (Calcutta National Highway) into two parts via north side and south side which are connected by two balancing culverts.
- b. The three lakes namely Madhavaram, Korattur and Ambattur are located within Chennai City Limit. During drought season, the drinking water requirements are being met mostly through wells and tube wells in the area. The Madhavaram Tank had irrigation about four decades back and now it is having no irrigation activities due to rapid urbanization. This tank plays a major role in storage of surface water and thus recharging the ground water potential to meet out the drinking water needs. Hence, increasing the capacity of the tank is need of the hour.
- c. Chennai and its suburbs – constituting the Chennai Metropolitan Area (CMA) are constantly plagued by water shortage. Rapid growth in population, coupled with irregular spells of monsoon have further intensified the problem in the past decade. The city at the moment requires 848 million litres per day (MLD). Whereas, the public system is able to supply only 433 MLD. The balance water requirement (nearly 50%) of the daily consumption is being met through private wells and borewells (groundwater). As per G.O. (Ms) No.161, Public Works (R2) Department, dated 23.10.2019, the 20 Firkas of Chennai District are categorized as over exploited blocks based on the assessment of the State Ground water resources as on March 2019.
- d. As a result of this unplanned large scale extraction of groundwater the water table in the city is depleting day by day at an alarming rate causing serious quality problems. Hence, it becomes essential to conserve the rain water in tanks as much as possible. Desilting the tank and increasing the capacity of a tank is essential. Removal of soil in the tank and convey it to some other place is difficult due to high urbanization. To overcome the above hurdles,

forming island inside the tank to a size of 200x200x10 meter and 160x160x10 meter above full tank level is suggested to increase the capacity of tank as well as the island will act as a Eco restoration zone which will be more useful for sustaining the flora and fauna.

- e. In the year 2019, due to acute shortage of drinking water the Chennai Metropolitan Water Supply and Sewerage Board (CMWSSB) drew water from Madhavaram Tank from 05.06.2019 to 10.10.2019 for drinking purpose at the rate of one million litres per day.
- f. The capacity of Madhavaram Tank is 32 Mcft with total extent of 380 Acres. To increase the capacity of Madhavaram Tank, it is proposed to remove the silt in 70% of the tank area to an average depth of 90 cm with a quantity of 8,57,510 Cubic meter which will increase the tank capacity additionally to 13.13 Mcft. (nearly 41 % of original capacity).
- g. The average drawal of water by the CMWSSB last year = 1 MLD. Hence, the total capacity of Madhavaram Tank = $45.13 \text{ Mcft} \times 2.47 = 111.47 \text{ MLD}$, which will be beneficial to draw water for about 110 days at the rate of 1 MLD / day.
- h. The estimate has been prepared based on the Schedule of Rates for the year 2022-2023 with an escalation of 5% for the year 2023-2024 and the amount works out to Rs.44.00 crore.

3. The Chief Engineer, Plan formulation, Water Resources Department has requested to accord administrative sanction for the above work at an estimated cost of Rs.44.00 Crore under State Fund.

4. The Government after careful examination, have decided to accept the proposal of the Chief Engineer, Plan Formulation, Water Resources Department at a restricted cost of Rs.43,19,02,000/-. Accordingly, administrative sanction is accorded for Conversion of Madhavaram Retteri into drinking water source by deepening the Bed and Providing Regulator arrangements and improvements to foreshore area of Madhavaram Tank in Madhavaram Taluk of Chennai District at an estimated cost of Rs.43,19,02,000/- (Rupees Forty three crore nineteen lakh and two thousand only) as follows :

Sl. No.	Description	Estimate (Amount in Rupees)
1.	Civil Works	35,74,80,667/-
2.	GST at 18%	6,43,46,520/-
3.	Provision for Solar Energy Lighting and High mass lighting arrangements in along the bund path way area and outdoor fitness equipment and children play equipment	20,00,000/-
4.	Provision for Planting the Trees in forming the inland island in Madhavaram Tank.	10,00,000/-
5.	Provision for Labour Welfare Fund at 1%	35,74,807/-
6.	Provision for Tender Advertisement charges and Unforeseen items, if any	10,00,000/-
7.	Provision for Petti Supervision charges	25,00,000/-
	TOTAL	43,19,01,994/-
	Rounded off	43,19,02,000/-

5. The expenditure sanctioned in para 4 above shall be debited to the following head of account:-

4701 - Capital Outlay on Medium irrigation -
 02 Chennai Basin - 800 - other expenditure -
 State's expenditure - AA - Reservoirs -
 416 - Major Works - 01 - Major Works.

(IFHRMS DPC 4701 - 02 - 800 - AA - 41601)

6. The expenditure sanctioned in para 4 above shall constitute an item of "New Instrument of Service" and the approval of the Legislature will be obtained in due course. Pending approval of the Legislature, the expenditure may be initially met by drawal of an advance from the Contingency Fund. The Engineer-In-Chief and Chief Engineer (General), Water Resources Department, Chennai-5, is directed to calculate the actual amount required for the period upto next Supplementary Estimates and apply for sanction of same as advance from Contingency Fund to Finance (BG-I) Department directly in Form "A" appended to Tamil Nadu Contingency Fund Rules, 1963 along with a copy of this order. Orders for sanction of advance from Contingency Fund, will be issued by Finance (BG-I) Department. Further, he is also directed to send necessary draft explanatory notes for the inclusion of the above expenditure in the Supplementary

Estimate for the 2023 - 2024 to Finance (Infrastructure-II / BG-I) Department at an appropriate time without fail.

7. The Engineers concerned are directed that the details of Works executed must be uploaded in the Tamil Nadu Water Resources Information and Management Systems Portal under the Control of Chief Engineer, Institute of Water Studies, Hydrology and Quality Control to ensure effective data base in the Water Resources Department.

8. The Chief Engineer, Plan Formulation and Chief Engineer, Chennai Region, Water Resources Department are directed to ensure designs, drawings and description of works prescribed in the estimate should be same while according Technical Sanction.

9. This order issues with the concurrence of Finance Department vide its U.O. No.24/DS(SA)/Fin(Infra-2)/2023, dated.20.06.2023 and Additional Sanction Ledger No.330 (Three hundred and thirty) (IFHRMS ASL No.202306330).

(BY ORDER OF THE GOVERNOR)
SANDEEP SAXENA,
ADDITIONAL CHIEF SECRETARY TO GOVERNMENT.

To

The Engineer-in-Chief and Chief Engineer (General), Water Resources Department, Chennai-5.

The Chief Engineer, Plan Formulation, Water Resources Department, Chennai-5.

The Chief Engineer, Water Resources Department, Chennai Region, Chennai-5.

The Chief Engineer, Institute of Water Studies, Hydrology and Quality Control, Taramani, Chennai-113.

The District Collector, Chennai.

The District Collector, Tiruvallur.

The District Treasury Officer, Tiruvallur.

The Pay and Accounts Officer (East), Chennai-8.

The Pay and Accounts Officer (South), Chennai-15.

The Principal Accountant General (A&E), Chennai-18.

The Resident Audit Officer, O/o. Principal Accountant General (General and Social Sector Audit), Secretariat, Chennai-9.

The Commissioner of Greater Chennai Corporation, Chennai-3.

The Managing Director Chennai Metropolitan Water Supply and Sewerage Board, Chennai-2.

Copy to

The Secretary-II to the Hon'ble Chief Minister, Secretariat, Chennai-9.
The Special Personal Assistant to Hon'ble Minister (Water Resources),
Secretariat, Chennai-9.

The Special Personal Assistant to Hon'ble Minister (Finance and
Human Resources Management), Secretariat, Chennai-9.

The Finance (Infra.II / B.G.I / BG II/ W&M.I) Department,
Secretariat, Chennai-9.

The Municipal Administration and Water Supply Department,
Secretariat, Chennai-9.

The Water Resources (OP-II / ISpl.I / N) Department, Secretariat,
Chennai-9.

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// Forwarded by Order //

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Section Officer

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21/5/2023