

Manimangalam Hydrographic Survey - 22.09.2018



Thaiyur Lake - 24.09.2018



Manimangalam Topographic Survey - 22.09.2018



SRIPERBANDUR LAKE - 24.09.18



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Metro Water augmenting sources for City water supply from small lakes and abandoned quarries

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CMWSSB in compliance with the directions of GoTN has undertaken the work of exploring new sources for augmenting the city water supply from the lakes in and around Chennai and abandoned quarries. CMWSSB recently has completed feasibility study on Madhavaram Rettai Eri and has submitted proposal for installation of an advanced technology modular water treatment plant near the lake.

CMWSSB has constituted a special team of Engineers under its Managing Director Thiru. Ashok Dongre IAS and Executive Director Dr. Prabhushankar IAS for defining the terms of the study, planning and conducting the study and drawing proposals to be submitted to the government for augmentation. The team holds consultation with PWD and Institutions like Anna University and IIT, Chennai.

During the 2017 drought in Chennai water supply CMWSSB constituted special team to explore and identify new sources to augment the city water supply. The sources included ground water sources, lakes in and around Chennai and rain water stored in the abandoned quarries.

A new 4 MLD capacity water treatment plant was commissioned during 2017 at Porur lake and water from the lake has been put to use.

At the Sikkarayapuram quarries 600mm dia pipelines were laid for a length of 4.5KM and water from quarries were pumped at the rate of 30 MLD to Chembambakkam water treatment plant to the city water supply. Nearly 4 lakh people were supplied safe drinking water from these sources during the drought. The Mogappair, Alandur, Valasarawakkam, Porur, Ramapuram, Nandambakkam and their adjacent areas benefitted from these works. These works are completed in three months and put into public use. The very less gestation period and relatively lower cost of these works are significant. The 34 MLD total supply capacity of quarry and porur works were completed at a very short duration of three months.

Subsequently in 2018 CMWSSB to make the study to be productive has divided it in to two phases, in the first phase it will identify potential lakes that can be linked through various works to the city water supply in the immediate future. It will then take-up identification of other possible sources and estimation of works for the long run.

The CMWSSB special team after surveying the studies done earlier and restoration programs under execution by different agencies adopted the criteria stated below in the selection of water bodies for feasibility studies,

- Available Capacity (Hydrography survey and Source quality (for 45 parameters))
- Previous Study Inputs
- Domestic pollution abatement
- Water supply intake and surplus arrangements
- Other Uses at present and possibility of local objections
- Availability of Existing Treatment and Transmission facilities
- Land availability for creating onsite facilities

The sources were identified by direct visit, proximity to transmission pipelines, field enquiries and in further consultation with appropriate institutions such as PWD, Central ground water authority, Anna University and

King Institute. Accordingly the remaining lakes and quarries identified for feasibility study is tabled below.

	Name of the Lake		Name of the Quarry
1	Manimangalam lake	1	Sikkarayapuram
2	Ayanambakkam lake	2	Erumaiyur
3	Thiruneermalai lake	3	Nanmangalam
4	Nemam	4	Pammal, Pallavaram
5	Ayyapakkam	5	Thiruneermalai
6	Sriperumbandur	6	Nallambakkam
7	Thenneri		
8	Thaiyur		
9	Chithalapakkam		
10	Mambakkam		
11	ArasanKazhani		
12	Perumbakkam		
13	Korattur		

CMWSSB CARRIED OUT THE FOLLOWING FIELD STUDIES

- Hydrography survey carried out to estimate the actual and existing capacity of the lake.
- Water sample Quality test conducted at CMWSSB, Kings Institute and IIT.
- Soil investigation and ground water quality tested.
- Storm water drains and all possible pollution load points identified and checked.
- Study report handed over to IIT with additional field samples for the study of appropriate treatment method in lab scale
- Various treatment options studied in the lab at IIT, Chennai
- Study concluded that augmentation of water from RettaiEri is feasible with recommended treatment and disinfection
- CMWSSB has submitted an outline proposal and cost estimate for an 10MLDcapacity new modular water treatment plant with advanced technology at RettaiEri.

On successful completion of RettaiEri study CMWSSB has drawn up a study plan to complete the study for the balance lakes completely. The study will include Hydrography survey for estimation of quantity, Water quality survey, for pipeline feasibility.

PUBLIC RELATIONS MANAGER
Chennai Metrowater