



**INDIAN METEOROLOGICAL SOCIETY  
CHENNAI CHAPTER**

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Chennai chapter of the Indian Meteorological Society (IMS) in collaboration with Regional Meteorological Centre (RMC), Chennai has conducted a **Brainstorming Meet on Chennai Water Management (BSMCWM)** at Conference Hall, 4<sup>th</sup> Floor, Health and Family Welfare Training Centre, 54 Pantheon Road (12 Police Commissioner Office Road), Egmore, Chennai 8. The Meet was attended by 14 eminent retired and serving Resource persons from Academic institutions (IIT Madras, Anna University, University of Madras, Madras Institute of Development Studies, Madras School of Economics), Central and State Government Departments (India Meteorological Department, National Centre for Coastal Research, Cauvery Technical Cell, State Public Works Department) who delivered lectures as per the conducted programme schedule attached herewith. A number of Research scholars, post graduate students, print and electronic media personnel besides members of Indian Meteorological Society, officers from Regional Meteorological Centre also attended the meeting. In all 61 members actively participated in the Meet. The following recommendations were made for consideration by the appropriate Government and local bodies for effective implementation as may be necessary to avert water crisis, if any, in the years to come for the safe and comfortable living of Chennaites.

**Recommendations**

Considering that

1. The demand for water is increasing within the Greater Chennai Corporation (GCC) area.
2. Rainfall which feeds the reservoirs / lakes supplying water to the GCC is in general highly variable on time and space scales.
3. Rainfall being realised within the GCC and in the catchment areas cannot be expected to increase to meet the rising needs of the GCC area.

It is recommended that

1. In respect of the reservoirs, rivers and other water sources which provide water feed to Chennai City, maximum storage of rain water could be ensured by restoring all tanks and reservoirs to their full capacity, deepening the upstream of the reservoirs wherever possible and preventing encroachments, discharge of effluents and dumping debris into them. Existing encroachments must be removed. Regular future maintenance of water sources must be ensured.

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2. For all future developments within the Greater Chennai Area and for developments where Rain Water Harvesting (RWH) is feasible, RWH and their proper annual / periodic maintenance in urban areas in private and public places including public and private buildings and parks must be made mandatory and enforced with proper monitoring mechanism. For the existing built of area, owners should be encouraged to implement RWH subject to technical feasibility and land availability.
3. Recycling of used water must be encouraged. (e.g.) Grey water recycling at the plot level and black water recycling through decentralised waste water treatment systems (DEWATS) as in vogue at many major cities in India and in foreign countries may be popularized and implemented.
4. Strict actions relating to prevention of recharge of ground water (such as not installing adequate RWH facility, not keeping porous / unpaved area in individual houses and apartments as per Govt. norms to facilitate natural / augmented groundwater recharge) and blocking of drainage paths by any means must be taken as per Govt. norms.
5. Tamilnadu protection of tanks and eviction of encroachment Act 2007 and Chennai Metropolitan ground water extraction and control Act 2000 should be strictly enforced.
6. Capacity for desalination may be developed to the tune of 15 litre per day per person to cater to the needs of Greater Chennai Corporation, especially during extreme droughts situation as a resilience to ground water source.
7. Supply of water from the public source may be priced, as per norms similar to electric power supply, by installing water meters.
8. The Government and Local Bodies should take legal, administrative, engineering and enforcement measures to enable and implement the above.



Chennai  
10.08.2019

Chairman  
IMS Chennai Chapter

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**Programme schedule ... Brainstorming Meet on Chennai Water Management.. 3.8.2019**

Venue : Conference Hall, 4<sup>th</sup> Floor, Health and Family Welfare Training Centre,  
54 Pantheon Road (12 Police Commissioner Office Road), Egmore, Chennai 8.

**0900-0930** : Registration

**Inaugural Session :**

0945-0955 : Welcome address by *Dr. R. Suresh, IMSCC, Chennai.*

0955-1045 : Inaugural address by *Er T. Kanthimathinathan, TNDARRA, Chennai.*

**Session I : Meteorological / Climatological aspects**

1045-1105 : Chennai Region – Rainfall climatology and Recent Rainfall Trends.

- *Dr. Y.E.A. Raj, IMSCC, Chennai.*

**1105-1135 : Tea.**

**Session I : Meteorological / Climatological aspects (contd..)**

1135-1205 : What is scarce? – Rain or Water ?.

- *Shri S. Raghavan, IMSCC, Chennai.*

**Session II : Sources of Water**

1205 -1245 : Need for inter State cooperation in solving water crisis for the Chennai city.

- *Er. R. Subramanian, Cauvery Technical Cell, Chennai.*

1245-1320 : Sources of water front

- *Prof. K. Sivasubramaniyan, MIDS, Chennai.*

1320-1345 : Water source, Water Budgeting and Water conservation

- *Prof. R. Sakthivadivel, former UN expert, Chennai.*

**1345-1420 : Working Lunch.**

**Session III : Engineering aspects**

1420-1447 : Low temperature thermal desalination.

- *Dr M.V. Ramana Murthy, NIOT/ NCCR, Chennai.*

1448-1525 : Hydrology of Chennai Basin & Water Supply / Demand.

- *Prof. N. Balaji, IIT Madras, Chennai.*

**Session IV : Land use Management**

1525-1545 : Economic Valuation of Land Use Land Cover Change on Ecosystem Capital : Assessing the urban dynamics of Chennai city.

- *Ms. Satarupa Rakshit, MSE, Chennai.*

**1545-1555 : Tea.**

**Session V : Community preparedness**

1555-1610 : Whether we are heading towards an uninhabitable Chennai?.

- *Prof. R.R. Krishnamurthy, Univ. of Madras, Chennai.*

**Session VI : Future scenario**

1610-1633 : Chennai's water woes and the way forward.

- *Prof. L. Elango, Anna University, Chennai.*

1633-1652 : Sustainable water supply.

- *Prof. B.V. Mudgal, Anna University, Chennai.*

1652-1720 : Learnings from Meteorological Conditions : Towards Building a Resilience Chennai.

- *Prof. S. Janakarajan, ex-MIDS, Chennai.*

1720-1742 : Water Management and Application of Behavioural Economics in Water Conservation.

- *Er. K. Nagarajan, ex-PWD, Chennai.*

**Wrap up / Summary and Concluding session :**

1745 -1825 : Concluding session.

**1825- 1830** : Vote of thanks by *Dr. B. Amudha, IMSCC, Chennai.*

**1830** : **Tea.**