

GOVERNMENT OF TAMILNADU  
WATER RESOURCES DEPARTMENT

From  
Er. R.Selvakumar B.E.,  
Chief Engineer, WRD.,  
State Ground & Surface Water  
Resources Data Centre & Member  
Secretary of National Water Mission,  
Public Works Department,  
Tharamani, Chennai-600 113.  
Phone No.044-22541526  
Email: [cegwchennai@gmail.com](mailto:cegwchennai@gmail.com)  
Web: [groundwatertnpwd.org.in](http://groundwatertnpwd.org.in)

To

- ✓ 1. Mission Director,  
National Water Mission,  
Ministry of Water Resources,  
River Development & Ganga Rejuvenation,  
2<sup>nd</sup> floor, Block III,  
C.G.O Complex, Lodhi Road,  
New Delhi – 110 003
2. Director,  
Neriwalm, Tejpur,  
Assam

Letter. No: AEE/T1 / NWM/2018 /Date:17.07.2018

Sir,

Sub: National Water Mission – Second Monitoring Committee meeting of National Water Mission for preparation of State Specific Action Plan for Water Sector held on 04.04.2018 – Minutes – Communicated - Regarding.

Ref: 1. G.O.(Ms)No:216 PW(WR2)Dept dated .01.11.2017  
2. This office letter No. AEE/T1/NWM/2017 dt. 23.03.2018  
3. Government PWD., Chennai -9 Letter No.5957/ WR2/ 2018-3, Dated 06.07.2018.

In continuation to this office letter second cited, I inform that the minutes of the second meeting of Monitoring Committee of National Water Mission held on 04.04.2018 has been approved by the Principal Secretary to Government, PWD, Secretariat. The copy of the approved minutes is attached herewith for information and further action.

Encl: Copy of approved minutes

Sd/- Er. R.Selvakumar  
Chief Engineer (SG&SWRDC)

For Chief Engineer (SG&SWRDC)

Sm,  
We may forward it to  
Adv (CEM), NWM. Also to  
upload on the website of  
NWM

JS(A)

Dev (CEM)  
N  
25/7/18

18/7/18

Sh. Wagan



Public Works Department  
Secretariat, Chennai - 600 009

Letter No. 5957 / WR2 / 2018 - 3, dated 6.7.2018

From  
Thiru. K. Padmanabhan, M.E.,  
Special Secretary to Government

To  
The Chief Engineer,  
Water Resources Department,  
State Ground and Surface Water Resources Data Centre and  
Member Secretary of Monitoring Committee,  
Chennai - 113. (w.e.)

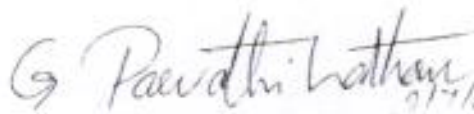
Sir,

Sub: National Water Mission- Second Meeting of the Monitoring  
Committee held on 4.4.2018- Approved Minutes  
Communicated- Regarding.

Ref: Your Letter No. T1/NWM-2/2018, Dated 30.05.2018 and  
11.6.2018

I am directed to enclose the approved minutes of the second meeting  
of the Monitoring Committee under National Water Mission held on 4.4.2018  
for necessary further action and to communicate it to all members of the  
committee and the participants of the meeting.

Yours faithfully,

  
for Special Secretary to Government  
11/7/2018

## **Minutes of the Second Meeting of the Monitoring Committee For National Water Mission**

**Venue: Conference Hall, Public Works Department, Secretariat.**

**Date and Time: 11.00 AM on 04.04.2018**

The second Meeting of the Monitoring Committee for National Water Mission was held at Chennai in the conference hall of Public Works Department, Secretariat at 11.00 A.M on 04.04.2018. The list of participants is annexed.

The Monitoring Committee Meeting was chaired by the Principal Secretary to Government, PWD.

The Joint Chief Engineer, State Ground & Surface Water Resources Data Centre welcomed the Chairman and Participants. He also explained about the various stages involved in the project.

The Special Secretary to Government, Public Works Department, highlighted the importance of water as an entity. He requested all the members to view the presentations and furnish their feedback on the presentation.

Er.S.Raja, Executive Engineer, Ground Water Division, Cuddalore presented the Water Balance and Water Budgeting of all basins except Cauvery and Parambikulam Aliyar Project. He delivered the methodologies involved in the calculation of water balance and water budget. He elucidated the following:-

- Water Balance is a tool to assist the water budget.
- Water Balance has to be analyzed based on the water availability in different zones like surface water (Reservoirs & Tanks, Direct Harvesting), saturated zone (Ground Water) & unsaturated zone (Soil Moisture).



- This Water balance is analyzed based on the hydrological cycle, starting from the rain and ending up to the residuals left after, in the above different zones of surface water, groundwater and soil moisture.
- Water in the above zones of the earth varies based on the Meteorology, Land and Soil Characteristics.
- The procedure for calculating the water balance in soil moisture, water balance in surface water (Reservoirs and tanks) and water balance in groundwater were explained.
- The examples of Perunchani Reservoir and Tanks in Kodaiyar basin for surface water computations and Upper Thamirabarani sub basin for ground water and soil moisture computations were cited.
- Then, he demonstrated the computations involved in water budgeting. He further explained that the water budgeting is a tool which will consider the water availability (Surface water, Groundwater and Soil moisture) and would assist the policy makers to plan and allocate sector wise effectively and utilize the available water in the most efficient way.

The beneficiaries of water budgeting and the way in which the beneficiaries gain were also elaborated in detail. He concluded that the water budget and water balance of all the basins of Tamilnadu will be successfully done only through continuous contribution and data sharing of all the departments in connection with National Water Mission.

The River basin reports, Monthly Runoff Simulation (MRS) model studies and Ground water Reports in connection with the framework of National Water Mission were explained in detail.

It was informed by the Executive Engineer that 15 basins have been completed and Cauvery and Parambikulam Aliyar Project were done only for the demand side.

The Executive Engineer appreciated the efforts of the Line Departments such as Central Ground Water Board, Central Water Commission, Indian Meteorological Department, Statistics, Pollution Control Board, Tamil Nadu Water Supply and Drainage Board, Industries, Agriculture and Agricultural Engineering for sharing the data required for the preparation of Status Report.

The Executive Engineer concluded his presentation requesting all members of the Technical Monitoring Committee to kindly furnish the feedback and suggestion on the Preparation of Status Report.

**Interaction from the Technical Committee Members:**

The Monitoring Committee members appreciated the efforts put into the preparation of the status report.

The Special Secretary to Government, Public Works Department requested to state whether this water budgeting can be prepared for the ensuing South West Monsoon starting from June 2018. The Executive Engineer stated that the water budgeting could be in place only for the North East Monsoon starting from October 2018 since the framework for water budgeting has not been completed fully. It was requested by the Special Secretary to Government, Public Works Department to speed up the water budgeting process. The Special Secretary to Government, Public Works Department also requested about the consideration of evaporation loss which has been taken as 5-7 % in the water budgeting computations. The Executive Engineer informed that the value has been given by the National Water Mission Directorate, Delhi. The Joint Chief Engineer added that 45 Full Climatic stations are there and the actual evapotranspiration could be used for detailed study in future. The Special Secretary to Government



Public Works Department pointed out that there is no rainfall column in the Ground water balance computation table. The Executive Engineer explained the procedure by considering the estimated rainfall in the sub basin area, Interception loss, Direct harvested rain, Run off generated, Initial soil moisture, Gain in soil moisture, Residual Soil moisture, field capacity and whenever it exceeds the field capacity, it will be considered as groundwater recharge. The Special Secretary to Government, Public Works Department requested about the time step involved in the study of water budget and water balance. The Joint Chief Engineer stated that since Tamil Nadu being a semi-arid region, the ideal scenario would be daily time step. The Executive Engineer stated that monthly time step is being adopted in the water balance computations as per directions of the National Water Mission.

The Director, Central Water Commission requested the reason to so as to why the water budgeting has not been done for Cauvery and Parambikulam Aliyar Project. The Executive Engineer stated that, since some more data are yet to be received from the line departments and others regarding Cauvery and Parambikulam Aliyar Project, those basins could not be taken up. The Director, Central Water Commission opined that this process of water budgeting is essential for the Interstate Rivers.

Thiru. N. Venkatesan, DHAN Foundation requested that the details of all recharge structures in the state, encroachment details in water bodies, siltation in reservoirs to find out the additional possible storage need to be collected for incorporation in the report. The Executive Engineer stated that all the above details have been collected to the maximum possible extent and already incorporated in the framework. Thiru. N. Venkatesan, DHAN Foundation recommended that community consultation should be done, regarding various other related issues. The Executive Engineer stated that, this will be taken care during the Second Stage of the project. He also appreciated that the contents of the project have undergone a lot of

improvements since the meeting of the First Monitoring Committee and this concept of all water related data available in one place is a boon to all the stakeholders.

Dr. A. Subburaj, Superintending Hydro-Geologist, Central Ground Water Board, conveyed his appreciation for the efforts taken by the groundwater wing of PWD so far. He recommended that this study which has now been considered on basin level should be zoomed down to firka level to assess the water balance and water budget in the micro level. The Executive Engineer replied that there are more than thousand firkas in Tamilnadu and it would require a lot of efforts and can be considered after the completion of basin wise works. He also suggested to bring the census data of all the Artificial Recharge structures such as recharge shafts, Check dams, recharge wells, etc., constructed by various line departments. The Executive Engineer stated that the line departments have been addressed in this regard but the details have not been received from them. Once received, the same will be incorporated.

Thiru T. Anand, Joint Managing Director, Tamil Nadu Water Supply and Drainage Board informed that there are around 1140 observation wells under their control and water level are being monitored by them for a long period. On request, the water level data of those stations which could supplement the existing Ground Water data will be shared with this department for the successful completion of the project. He also mentioned that block wise hydrological maps which are being prepared will also be shared with this department. The Executive Engineer thanked him for his proactive contribution and also requested to furnish the pending Artificial Recharge Structures data constructed by Tamil Nadu Water Supply and Drainage Board early. He assured to send the data early.

Smt. B. Amudha, Scientist-E, Regional Meteorological Centre, India Meteorological Department appreciated the work completed so far. She requested to clarify about the usage of data provided by them, as it was not



displayed in the tables. The Executive Engineer stated that, the data provided by India Meteorological Department are being incorporated in various templates and would be shared with India Meteorological Department for further validation. Also, she requested to know the further road map, bench marking, achievements and other expectations from National Water Mission. The Executive Engineer explained the road map with the next two stages of the project. He further made a note that the other indicators will be taken care in the next two stages of the project.

Thiru. R. Raghuraman, Additional Director, Department of Agriculture, informed that a total of 1,22,000 ha of agriculture land has been brought under micro irrigation which has reduced the water losses and has increased the system efficiency.

Er. A. Khaleel Ahmed, Executive Engineer, Agricultural Engineering Department informed that only 80-90% of the union tanks contribute to irrigation and most of the union tanks have silted up heavily with loss in storage and not truly representative and the remaining percentage of the union tanks are not in place now, due to encroachment and other reasons. More focus should be made on the observation of water level in the union tanks. He further mentioned that, proposal for adoption of micro irrigation for 29 projects are under consideration. The Executive Engineer requested him to share the reports at the earliest.

The Principal Secretary to Government, Public Works Department concluded by appreciating the wing for their effort in bringing all the data together in a single place. The Principal Secretary to Government, Public Works Department appreciated the tasks of preparation of water budget, bringing together the surface and ground water availability, soil moisture gain, the various demands depending on the resources, utilization over the year, the actual supply and the consumptive use. The Principal Secretary to Government, Public Works Department further mentioned that, water is precious and should be used judiciously.



The Joint Chief Engineer, State Ground & Surface Water Resources Data Centre assured that the suggestions furnished by all the members of Monitoring Committee would be incorporated and the Status Report will be value added.

The meeting came to an end after vote of thanks presented by the Special Secretary to Government, Public Works Department.

S K Prabakar  
Principal Secretary to Government

// True copy//

G. Parvathu Lakshmi  
Section Officer 9/7/18  
9/7/2018

**List of the participants of the second Meeting of the Monitoring Committee for  
National Water Mission held on 04-04-2018 at Chennai:**

1.	<b>Thiru.S.K.Prabakar I.A.S.,</b> Principal Secretary to Government, Public Works Department, Secretariat, Chennai-9	<b>Chairman</b>
2.	<b>Er.S.Antony Anbarasu</b> Joint Chief Engineer, WRD, State Ground & Surface Water Resources Data Centre, Public Works Department, Tharamani, Chennai-600 113	<b>Member Secretary representing Chief Engineer</b>
3.	<b>Er.M.Bakthavathsalam, B.E.,M.Tech.,M.I.E.</b> Engineer-in-Chief, WRD, Public Works Department, Chepauk, Chennai-5	<b>Member</b>
4.	<b>G.Tamilselvi</b> Under Secretary to Government, Finance Department, Secretariat, Chennai - 9	<b>Member</b>
5.	<b>Er.J.G.Usha</b> Executive Engineer, O/o Cauvery Technical Cell cum, Inter State Waters Wing, 406, Pantheon Road, Egmore, Chennai - 8	<b>Member</b>
6.	<b>Dr A Subburaj</b> Superintending Hydrogeologist O/o The Regional Director, Central Ground Water Board, E-Wing, G-Block, Rajaji Bhavan, CGO Complex, Besant Nagar, Chennai - 90	<b>Member</b>
7.	<b>Thiru G Naga Mohan</b> Director, Central Water Commission, Sangamam, Gandhimaanagar, Peelamedu (po), Coimbatore-4	<b>Member</b>
8.	<b>Dr B.Amudha,</b> Scientist -E, O/o The Deputy Director General of Meteorology, Regional Meteorological Centre, No 6, College Road, Chennai-5	<b>Member</b>
9.	<b>Thiru R.Raghuraman,</b> Additional Director Agriculture Department, Ezhilagam, Chepauk, Chennai - 5	<b>Member</b>
10.	<b>Thiru.A.Khaleel Ahamed</b> O/o Chief Engineer, Agricultural Engineering, 487 Annasalai, Nandanam, Chennai -35	<b>Member</b>



11.	<b>P.Suganthi Rani</b> Assistant Environmental Engineering O/o Principal Secretary/Chairman Tamil Nadu Pollution Control Board 76 Anna Salai Guindy Chennai- 32	Member
12.	<b>Thiru. Yogesh Singh, IFS.,</b> Principal Chief Conservator of Forest. Panagal Maligai, Saidapet, Chennai -15	Member
13.	<b>S.A.P.Vairamani</b> Additional Director, Department of Industries & Commerce SIDCO corporate office building, 3 <sup>rd</sup> floor, Thiru Vi.Ka Industrial Estate Ekkaduthangai, Chennai- 32	Member
14.	<b>Thiru.N.Venkatesan</b> O/o Dhan Foundation. (Development of Humane Action). Kennet Cross Road, Near Seventh Day School 1a, Vaidyanathapuram East, Madurai-625 016	Member
15.	<b>Thiru.T.Anand</b> Joint Managing Director O/o Managing Director, TWAD Board, Chepauk, Chennai-5	Member
16.	<b>Thiru.K.Ravi,</b> Deputy Director, O/o Department of Economics and Statistics, DMS Compound, 359, Anna Salai, Chennai -6	Member

**The other officials who attended the meeting**

1.	<b>Er.K.Padmanabhan,</b> Special Secretary to Government, Public Works Department, Secretariat Chennai-9	
2.	<b>Er.T.Murugu Subramanian,</b> Chief Engineer WRD Public Works Department, Chennai Region, Chepauk Chennai-5	
3.	<b>Er.S.Karthikeyan,</b> Superintending Engineer, WRD, Ground Water Circle, Public Works Department, Tharamani, Chennai-600 113	
4.	<b>Er.R.Selvakumar,</b> Superintending Engineer, WRD Upper Cauvery Basin Circle, Public Works Department, Salem	

5	<b>Thiru K.R. Balasubramanian</b> Under Secretary to Government, Finance Department, Secretariat, Chennai-9	
6	<b>Er. S. Raja,</b> Executive Engineer, WRD Ground Water Division, Public Works Department, Cuddalore	
7	<b>Er. M. Antony Durai,</b> Executive Engineer, WRD Vaippar Basin Division, Public Works Department, Virudunagar	
8	<b>Thiru M.V. Guhan</b> Meteorologist O/o Deputy Director General of Meteorology Regional Meteorological Centre, No 6, College Road Chennai-5	
9	<b>Dr. S. Mohan</b> Deputy Hydrogeologist O/o The Managing Director TWAD Board, Chepauk Chennai-5	
10	<b>C. Raju</b> Hydrogeologist O/o Managing Director, TWAD Board, Chepauk Chennai-5	
11	<b>Er. V. Meera,</b> Assistant Executive Engineer, O/o Cauvery Technical Cell cum, Inter State Waters Wing, 406, Pantheon Road, Egmore, Chennai - 8	
12	<b>Dr. K. S. Kadiravan,</b> O/o Chief Engineer WRD., State Ground & Surface Water Resources Data Centre, Public Works Department, Tharamani, Chennai-600 113	
13	<b>Er. A. Senthilkumar,</b> Assistant Engineer, Ground Water Division, Chennai	