

M-54011/01/2018-NWM/443-454 BY SPEED POST/EMAIL

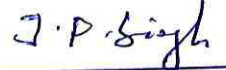
Government of India
Ministry of Water Resources,
River Development & Ganga Rejuvenation
National Water Mission

2nd Floor, Block No. III
CGO Complex, Lodhi Road
New Delhi-110003
Dated: 30th May, 2019

Subject: Summary record of the proceedings of the Third Water Talk organized by National Water Mission on 24th May 2019.

Sir/Madam,

The undersigned is directed to forward the summary record of the proceedings of the Third Water Talk held on 24th May 2019 at 3:00 PM in Dr. Ambedkar International Centre, New Delhi.



(J.P. Singh)

Deputy Secretary to the Government of India
Ph: 011-24368984

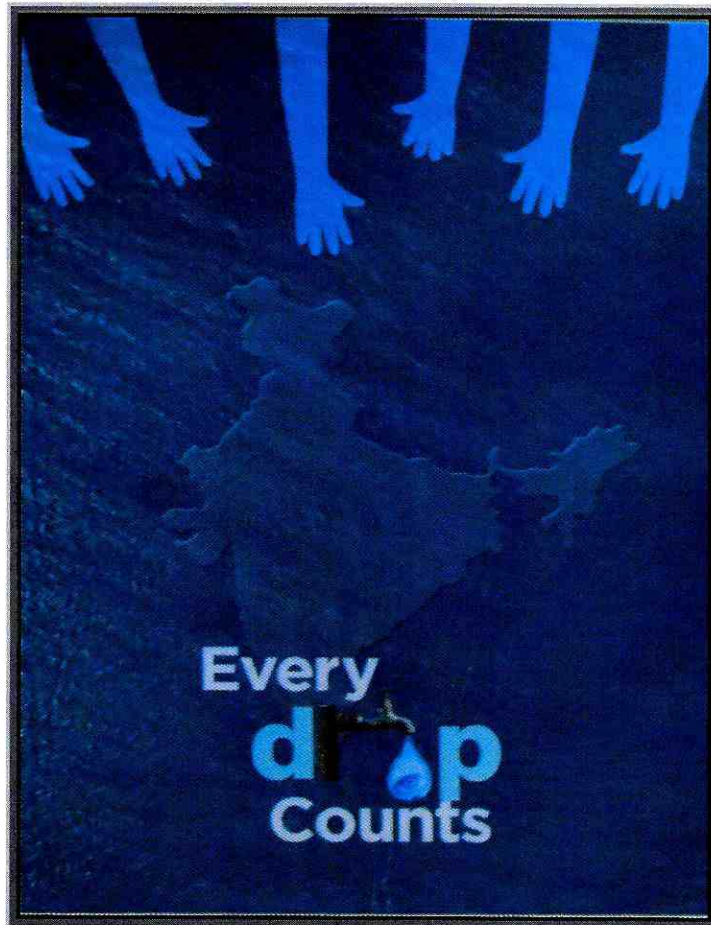
Enclosure: as above

To

- ✓ 1. Secretary, Ministry of Water Resources, River Development & Ganga Rejuvenation, Shram Shakti Bhawan, Rafi Marg, New Delhi – 110001
2. Smt. T Rajeshwari, Additional Secretary, Ministry of Water Resources, RD & GR, Shram Shakti Bhawan, Rafi Marg, New Delhi – 110001
3. Sh. Rajiv Ranjan Mishra, Director General, National Mission for Clean Ganga, National Mission for Clean Ganga (NMCG), 1st Floor, Major Dhyan Chand National Stadium, India Gate, New Delhi – 110002.
4. Shri Nitishwar Kumar, Joint Secretary (Administration), Ministry of Water Resources, RD & GR, Shram Shakti Bhawan, Rafi Marg, New Delhi – 110001

5. Shri Jagmohan Gupta, Joint Secretary (JS & FA), Ministry of Water Resources, RD & GR, Shram Shakti Bhawan, Rafi Mar, New Delhi – 110001
6. Shri Akhil Kumar, Joint Secretary (IC & Ground Water), Ministry of Water Resources, RD & GR, Shram Shakti Bhawan, Rafi Marg, New Delhi – 110001
7. Shri K C Naik, Chairman, CGWB, Central Ground Water Board, BhujalBhawan, NH-IV, Faridabad.
8. Sh. S Masood Husain, Chairman, Central Water Commission, R. K. Puram, Sector-1, New Delhi-110066.
9. Dr. Nayan Sharma, Emeritus Professor, Indian Institute of Technology, Roorkee
10. Shri Pradeep Gandhi, Ex Member of Parliament, Rajnandgaon, Chhattisgarh.
11. Shri S.C. Bardhan, IAS (Rtd), Former Collector and DM – Morena/Chambal Valley
12. Shri B.B. Sharma, Adviser, Economic Advisery Wing, Ministry of Water Resources, RD & GR, Shastri Bhawan, New Delhi – 11000.

WATER TALK
(The 3RD IN THE SERIES)



On
“Water Conservation”

Organized by
National Water Mission

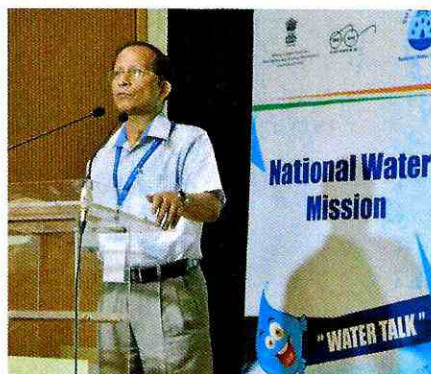
On
24-05-2019

Venue
Dr. Ambedkar International Centre, New Delhi

Government of India
Ministry of Water Resources, River Development & Ganga Rejuvenation
(National Water Mission)

National Water Mission (NWM) has initiated a seminar series- 'Water Talk' - to promote dialogue and information sharing among participants on variety of water related topics. The 'Water Talk' is intended to create awareness, build capacities of stakeholders and to encourage people to become active participants in conservation and saving of water. NWM had already organized two 'Water-Talks' on 22nd March, 2019 and on 1st May, 2019.

2. 3rd Water Talk in this series was held on 24th May, 2019. Dr. Nayan Sharma (Emeritus Professor, IIT Roorkee), Shri Pradeep Gandhi (Ex. MP, Chhattisgarh) Shri S.C. Bardhan (Former Collector and DM – Morena/Chambal Valley) delivered the Water Talk. Shri U. P. Singh, Secretary, MoWR, RD & GR; Shri Rajiv Ranjan Mishra, DG, NMCG; Smt. T Rajeshwari, Addl Secretary and Officers from CWC, CGWB, NMCG, CSMRD, NWDA and MoWR attended the programme.



3. Dr. Nayan Sharma delivered his talk on 'Upgrading Technology in Irrigation, Hydro Power, Navigation and Flood Control for Optimal Water Conservation'. He highlighted the challenges, issues and flaws in irrigated agriculture, industrial sector, hydro power and river management approach. He mentioned that the per capita availability of water is decreasing sharply leading to water scarce conditions and therefore water conservation has become immensely important which is be taken very seriously.

4. Dr. Sharma highlighted the importance of irrigation technique like Regulated Deficit Irrigation (RDI) and Partial Root Zone Drying (PRD) in water conservation. He emphasized on promotion of use of Drip / Sprinkler for efficient Irrigation and mentioned that effective implementation of these techniques will increase the efficiency of water utilization upto 98% from existing 30%. Dr. Sharma also stressed on reduction of water wastage in hydro power sector and said that water can be saved by implementing Pumped Storage Power Plant (PSP) in hydropower sector and suggested for vigorous push for Pumped Storage Hydel Projects for water reuse. He pointed out that by using PSP we can increase the installed capacity of India by another 1 lakh megawatt.

5. Dr. Sharma emphasized on overhauling existing Dams to augment storage capacity for water conservation and added that the overhauling the Dams by Flood Cushion using Piano Key Weir & Fuse Plug, Fuse Gates techniques may result in the increase in the storage capacity as high as 20-30%. He shared that for the first time New Piano Key Weir

Technology has been successfully implemented in Sawra Kuddu Hydro Project (120 MW) of HPPCL, Himachal Pradesh for which design and modeling was done by him and added that this technology can be implemented in existing 5000 big and small dams including barrages in India to increase storage capacity. He stressed that, by implementing these technologies, not only storage capacity can be increased but also disaster caused by flood can be prevented. Dr. Sharma concluded his talk with the suggestion to adopt Innovative River Management for navigation fairway development & pollutant dispersion with reduced stream flows. He further suggested that we should focus on developing technologies which suit the need of the country.



6. Shri Pradeep Gandhi (Ex-Member of Parliament, Rajnandgaon, Chhattisgarh) gave a presentation on 'Water Conservation at Ground Level' and apprised that Prithvi Foundation has initiated water conservation work based on 6P (Public, Private, Panchayat, Profitable Progressive Partnership) model in villages of Chhattisgarh. He shared the success story of Margaon model of Water Conservation including water harvesting which can be an ideal model for the other panchayats in the future. He further added that this model has been replicated in other villages with community participation.

7. Shri Gandhi stated that not only water conservation has been achieved through this methodology but productivity of the crop has also increased by using fertile soil obtained from ponds. He stated that the effort of Prithvi Foundation has received positive response from the community and people are submitting proposal for building ponds in their village. The good initiative towards water conservation of one village is promoted through various means like organizing seminar, performing Kalash Yatras, making human chain, organizing rallies by engaging all stakeholders. Prithvi Foundation also organizes training/ awareness programme by inviting experts from various sectors to inspire community people.

8. Shri Gandhi expressed hope that in near future, if we motivate gram panchayats, more effective work can be executed with very nominal cost. Shri Gandhi concluded his talk by stating that Gram Panchayats do not require much subsidy and in fact there is need to fully tap their potential.



9. Shri S.C. Bardhan, Former Collector and DM – Morena/Chambal Valley, while delivering Water Talk shared his experience and initiatives towards water conservation and management. He mentioned that huge amount of precious water is being wasted in household activities which can be easily avoided through implementing small initiatives like shaving without water and cooking our daily foods in solar cookers. Significant amount of water is wasted in kitchen for washing vegetables which can be collected and further used for gardening and flushing purposes. He said that novel water

saving practices should be brought to notice to the citizens of the country through various instruments of mass awareness.

10. **Shri U. P. Singh, Secretary, MoWR, RD & GR**, while extending gratitude to the speakers for delivering the talk, highlighted the importance and need of participatory water management. Though per capita water availability is still out of the water scarce range but inequality of water distribution is becoming one of the major challenges in water management in India.



11. Shri Singh stated that our deficiency towards water is our biggest strength and added that we are not using water efficiently and there is lot of scope to improve efficiency across the sectors. Highlighting the importance of participatory water management, he said though Dams & Canals are important to provide water security in certain way, however, water problem for local people must be addressed through participatory water management. As a responsible citizen of the country, we should make our efforts to make drinking water available to the poorest people of the country.

12. Secretary mentioned that the country is witnessing serious and rapidly worsening water problem and added that that the message of critical situation of water must be communicated to the stakeholders and encourage them to take preventive steps to conserve water. He mentioned that issue of water is gaining prominence and people are become aware to the critical situation of water and therefore, we should make people aware regarding existing solutions and their implementation.

13. Shri U.P. Singh highlighted the importance of traditional water conservation system and appreciated the work of Apna Talab, Jal Saheli, Prithvi Foundation, SOS Organics and other such organizations working towards water conservation through traditional systems with the participation of local people. He pointed out that rejuvenation of the rivers can be accomplished by rejuvenating the water bodies and further shared that around 1000 water bodies have been identified and marked in Delhi, out of which around 225 are being taken up for rejuvenation in first phase.

14. Shri Singh suggested that in forthcoming Water Talks preferably one speaker or maximum two speakers should be invited and more time should be devoted to discussions.

15. Earlier Dr. C. V. Dharma Rao, Adviser, NWM welcomed the Speakers, dignitaries, participants and briefly discussed the purpose and aim of Water Talk and informed that the next Water Talk in this series will be held on third Friday of June i.e on 21st June 2019.

16. Secretary gave away award to Dr. D. D. Ozha who was selected by the Hindi Division of Ministry of Water Resources, River Development & Ganga Rejuvenation for writing book titled 'Jal Prabandhan'.

17. Water talk session was followed by Q&A and discussions, where the participants expressed their views on water conservation. Following suggestions were put forth by the participants:-

- a) Change in cropping pattern and eating habit- Change in the cropping pattern and eating habit to promote less water intensive crops like maize and millets which provides iron and micronutrients.
- b) To include courses on water management and potable water management in the curriculum of schools upto the senior secondary level and introduce internship on water and irrigation.
- c) Initiate scheme on water conservation on the similar line as Perform, Achieve and Trade (PAT) Scheme initiated by Bureau of Energy Efficiency.
- d) Review schemes like 24 hours water supply because water leakage through the domestic water supply pipeline contributes 30% water losses. An integrated view of water resources must be taken into consideration.
- e) Around 70% of water is wasted in water purifier. Therefore, awareness should be created to restrict installation of water purifiers and they should be installed at places where they are absolutely necessary.
- f) Large number of industries must be covered for water audit. Some industries are not reporting water consumption to authorities.
- g) NWM may constitute an expert body who can identify the location of creation of water bodies and can also look into the aspect of rejuvenation of existing water bodies.
- h) Conducting water conservation awareness workshop for employees of Indian Railways, Armed Forces, Public Sector Enterprises.
- i) Ensuring convergence among various water conservation and management schemes/ programs and avoiding overlapping of the schemes.

18. Naula Foundation, Prithvi Foundation exhibited posters on water to create awareness and importance of water. Ms Sneha Sarkar, an independent research scholar demonstrated a device 'NEERA' for rain water harvesting through Wall. WTF Technologies Pvt. Ltd. demonstrated innovative device for water purification.

19. Around 150 people participated in the Water Talk.
