



Lets Go
Green Way
Newsletter

www.greenenvironmentindia.com
(An IIT Madras incubated /graduated Environmental Engg company)

clean earth, safe life

The logo for Green Way Newsletter features a circular emblem with two arrows: a green arrow pointing left and a black arrow pointing right, both enclosed within a green circular border. The text "Lets Go" is positioned above the main title "Green Way", which is in a large, bold, green font. Below the title, the word "Newsletter" is written in a smaller, green font. The website URL and a note about its origin are provided below the title. The tagline "clean earth, safe life" is located at the bottom left of the logo area.

January 2022

Water resilience becoming the core ...



Water resilience is at the core of development at times in India. The requirements vis a vis accomplishing environmental sustainability and climate change mitigation is getting increasingly accommodated in the development process and political agenda. The commitment to Sustainable Development Goals 2030, especially to SDG goal 6, water and sanitation for all, is taken forward by the government of India in partnership with state governments since the last one decade. The endeavor is amply supported by digital and IoT based technology for monitoring of water utilities, which makes to record accurate data in the progress of such endeavors.

Water resilience

Water resilience is a relatively new term in the development agenda and it implies to the ability of a state or system to provide uninterrupted supply of safe, clean water while ensuring that that environment is protected and the natural water resources are not polluted. Water resilience also points to the systemic advancement that natural occurrences such as earthquakes, drought, flood and challenges such as climate change are not affecting the availability of water. Thus water

resilience denotes to the ability to adapt systems to deal with future water stress. In practice, water resilience is interpreted as a system which strives to ensure the following commitments related to water: -

- The social and economic goal of access to safe and affordable drinking water for all
- The environmental goal of restoration of water-related ecosystems
- The social goal of strengthening participation of consumers/communities in improving water management
- The social and environmental goal of more efficient use of resources to ensure economic growth which mitigates and evades environmental degradation

Why water resilience ?

Vulnerability to water worries is increasing year after year. Unpredictable rainfall, flooding, droughts and other water-related shocks like land-slides are disrupting human life as the ill-effects of the climate change. India has witnessed several devastating floods and droughts, during the last two decades, which have destroyed livelihoods, taken lives making several places increasingly difficult to live in. It is important to take note of the fact that excessive water or lack of water is causing such occurrences and achieving water resilience is important for survival as well as for sustainability.

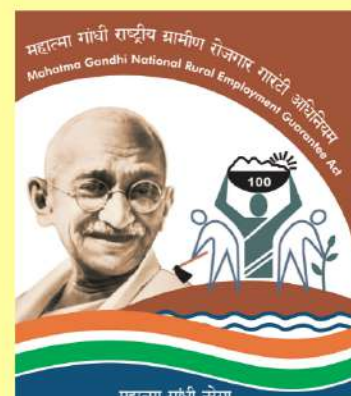


India's bid to accomplish water resilience, SDG 6

The government of India is implementing a number of schemes to ensure water resilience, to mitigate the ill effects of climate change and achieve Sustainable Development Goal 6.

Jal Jeevan Mission, was launched on 15 August 2019 aims to provide safe and adequate drinking water through individual household tap connections by 2024 to all households in rural India. The programme will also implement source sustainability measures as mandatory elements, such as recharge and reuse through grey water management, water conservation, rain water harvesting. Jal Jeevan Mission (Urban) launched in April 2021 to provide piped water supply and tap connections to all households in cities with less than 100,000 population by March 2026.

Jal Shakti Abhiyan (JSA), which was launched in July, 2019 covering time bound actions in water conservation & rain water harvesting, renovation of water bodies/tanks, reuse of treated wastewater, watershed development and intensive afforestation. Atal Mission for Rejuvenation and Urban Transformation (AMRUT) under which sewer networks and water projects are being undertaken. AMRUT envisaged providing water connection to 13.9 million household in 500 cities.



The Pradhan Mantri Krishi Sinchayee Yojana (PMKSY), launched in July, 2015 with the motto of "Har Khet Ko Paani" is implemented to expand cultivated area with assured irrigation, reduce wastage of water and improve water use efficiency.

The Swachh Bharat Mission (SBM) was launched in 2014 to fulfil the vision of a cleaner India by 2 October 2019, as a tribute to Mahatma Gandhi on his 150th birth anniversary. The Mission comprises components such as the construction of individual household toilets, community and public toilets, and solid and liquid waste management etc. Over 10,60,14,926 household toilets were constructed under the project. Under the Swachh Bharat-urban scheme, which was launched with the message of clean air, clean water, clean land, 62.64 Lakhs household toilets and 6.2 lakhs community & public toilets has been constructed so far.

Mahatma Gandhi National Rural Employment Guarantee (MGNREG), the rural jobs scheme was launched in the year 2006. At least 60 per cent of the works undertaken under the scheme must be related to land and water conservation. Over the last 15 years, three crore assets related to water-conservation have been created with the potential to conserve more than 2,800 crore cubic metres of water. It may also be the world's largest climate change adaptation scheme. The works have been divided into 10 broad categories like Watershed, Irrigation and Flood management works, Agricultural and Livestock related works, Fisheries and works in coastal areas and the Rural Drinking water and Sanitation related works.

Water and wastewater monitoring for water resilience

Water and wastewater monitoring is getting special emphasis under JJM. National Jal Jeevan Mission in partnership with Ministry of Electronics & Information Technology (MeitY) had launched an ICT Grand Challenge in September, 2020 to create innovative, modular, and cost-effective solution to developing a 'Smart Water Supply Measurement and Monitoring System' to be deployed at the village level. In November, 2020 Greenenvironmentindia's Real Time Monitoring (RTM) system, which is IOT based has been selected for the prototype stage (Stage 2). Under the second phase, Greenenvironmentindia's RTM has been deployed in 25 locations in the states of Karnataka, Gujarat & Union Territory of Ladakh.



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