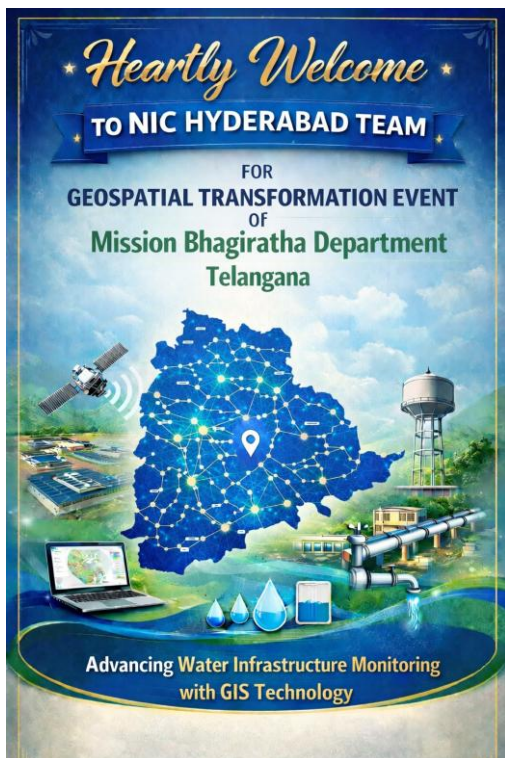




सत्यमेव जयते

NIC Telangana: GEO SPATIAL TRANSFORMATION EVENT OF THE DEPARTMENT OF MISSION BHAGIRATHA, TELANGANA

The Geo Spatial Transformation Event of the Mission Bhagiratha department was launched by the Engineer-In-Chief, Mission Bhagiratha department, Telangana, on 06/04/2026, in the presence of NIC officials and department officials.



The complete application has been developed and implemented by NIC, Hyderabad, by the team headed by Shri T. Bala Sundaram, Scientist – F & HOD, with Shri Kartik Krishna, Scientist-D, under the guidance of Shri Guntuku Prasad, SIO & DDG, NIC Telangana.

Mission Bhagiratha is a flagship drinking water program of the Government of Telangana, designed to deliver safe, treated piped drinking water to every household in the State. Covering nearly 10 million citizens across 5.5 million households, the program represents one of the largest centralized water supply networks in the world.

To strengthen operational governance, infrastructure sustainability, and service reliability, **the State has implemented an advanced Enterprise WebGIS-based Water Infrastructure Management System.** This digital platform functions as a statewide spatial decision-support system, establishing Telangana as a national benchmark in technology-enabled water governance.

Mission Bhagiratha sets a benchmark in water infrastructure delivery. **NIC Hyderabad played a key role by enabling real-time GIS mapping and monitoring of the extensive pipeline network.**



Key Features

Digitization of Intra-Village Water Supply Network – Mission Bhagiratha

Under the Mission Bhagiratha project, the Intra-Village Network serves as the last-mile connectivity, ensuring that treated drinking water reaches every household. However, the pipeline network extending from the Overhead Service Reservoir (OHSR) to individual households is currently not available in digital format. Hence, a provision has been made to enable the digitization of this Intra-Village Network for better planning, monitoring, and management.

Integration with National-Level Digital Platforms

The WebGIS platform is integrated with the PM Gati Shakti National Master Plan (NMP) Portal, enabling structured geospatial data exchange and standardized integration of pipeline network layers into the national infrastructure grid.

This integration ensures synchronized infrastructure planning at both the State and National levels.

Seamless interoperability with the Gati Shakti Platform further promotes coordinated, multi-sectoral infrastructure planning across departments such as roads, power, irrigation, and telecommunications.



Remarks by Engineer-In-Chief, Mission Bhagiratha

I am pleased to share that the Mission Bhagiratha Department is advancing towards digital transformation. The Mission Bhagiratha WebGIS-based Water Infrastructure Monitoring System has emerged as a powerful governance tool, strengthening our ability to plan, monitor, and manage the State's drinking water supply system.


The WebGIS application offers end-to-end spatial visualization of drinking water infrastructure, from surface water sources to the habitation level, enabling effective asset monitoring and long-term sustainability. A key achievement under this initiative is the digitization of nearly 65,000 kilometres of in-village pipeline network within a short timeframe by our field engineers, in accordance with National Jal Jeevan Mission (NJJM) guidelines.

Advanced features, such as functionality-wise asset dashboards, Water Quality Laboratories information, and Water Supply Status dashboards, have significantly enhanced transparency, monitoring, and data-driven decision-making.

The platform has become an indispensable instrument of governance, aligning seamlessly with the Department's vision of providing daily potable drinking water to every rural household in Telangana. Its integration with the Irrigation Department's reservoir water level data and its linkage of asset information with the PM GatiShakti National Master Plan Portal reflect effective multi-departmental coordination.

I place on record my sincere appreciation for the support and technical expertise extended by NIC, Hyderabad, whose contributions were vital to the successful implementation of this initiative.




7/2/26
(G. Krupakar Reddy)

Engineer-in-Chief (ENC), HOD

Mission Bhagiratha
Government of Telangana