

Inauguration of Unified Flood Inundation Model Dissemination Portal by MoJS

The Hon'ble Minister of Jal Shakti, Shri C.R. Patil, inaugurated the Unified Flood Inundation Model (FIM) Dissemination Portal on 2nd July 2025 at Shram Shakti Bhawan, New Delhi. Developed through concerted collaboration of CWC-MoJS, NRSC-ISRO and CDAC-MeitY. The portal integrates advanced flood forecasting capabilities to strengthen disaster resilience across major river basins.

The Spatial Flood Early Warning System for the Tapi and Godavari rivers are developed by the National Remote Sensing Centre (NRSC), ISRO, using satellite-derived hydrological inputs, high-resolution terrain data, through hydrodynamic modeling. This state-of-the-art system enables accurate prediction of flood extents up to 2 days in advance with about 87% accuracy. These two early warning systems being run operationally by ISRO since 2022. Flood alerts being disseminated to the concerned State DMS organisations during flood events through ISRO's National Database for Emergency Management portal. The Mahanadi Flood Early Warning System developed by CDAC complements these efforts, creating a comprehensive national platform.



NRSC and CWC Team with Hon'ble Minister of Jal Shakti

The event was graced by Smt. Debashree Mukherjee, Secretary, Ministry of Jal Shakti; Shri Atul Jain, Chairman- Central Water Commission; Shri Sanjeev Kumar Jindal, Additional Secretary (DM)- MHA; Sri Amitesh Kumar Sinha AS- MeitY, Dr K H V DurgaRao, NRSC-ISRO and several other senior officials

The unified portal will empower disaster management agencies and state authorities with near real-time spatial inundation forecasts, facilitating timely evacuation planning, optimized reservoir management, and risk reduction measures. NRSC's contribution underscores the transformative role of space technology in protecting lives and infrastructure in India's flood-prone regions.