

F.No. X-64019/1/2017-NHP SECTION  
Government of India  
D/o Water Resources, RD & GR  
(National Hydrology Project)

2<sup>nd</sup> Floor, Rear Wing, MDSS Bldg,  
9, CGO Complex, New Delhi  
Dated the 16th June, 2021

Dear Sirs,

**Sub: Consultative Workshop in virtual mode with Stakeholders on 'Real Time Operational Spatial Flood Early Warning in Godavari and Tapi Basins' on Tuesday the 22<sup>nd</sup> June 2021**

National Remote Sensing Centre (NRSC), one of the implementing Agency under National Hydrology Project (NHP) has developed Spatial flood early warning models for Godavari and Tapi basins to provide flood early warning alerts at prominent locations, spatial flood inundation extent, depth and velocity of flooding for the flood event using ALTM data acquired for major flood prone areas within the basins.

For working on way forward, a Consultative Workshop is being organised with representation of diverse Stake holders including NRSC viz. CWC, Water Resources Departments of Basin States, State Disaster Management Authorities (SDMAs), IMD, NCMRWF and NIH.

The broader objectives of the workshop are:

- A presentation on Spatial flood early warning models developed by NRSC for both Godavari and Tapi basins with ALTM data acquired for major flood prone area
- Strengthening coordination among the stakeholders for dissemination of early warning information among the people of respective states to take precautionary measures under flood affected areas.
- Way forward for handing over the system to CWC for making operational Forecast during the flood season of 2022

You are hereby cordially invited to participate and contribute on the way forward for ensuring the due benefits to the masses.

Program schedule is attached herewith for your kind reference and needful preparation.

Encl; As above

Yours sincerely

  
(Rakesh Kashyap)  
SJC, NHP  
Tel: 24367081

To

As per list attached

Copy for information to the JS (A, IC & GW), DOWR, RD & GR

## Agenda

**National Hydrology Project**  
**Consultative workshop with Stake holders on Spatial Flood Early Warning**  
**in Godavari and Tapi basins**  
**Tuesday, 22nd June 2021 through Virtual Mode**

National Remote Sensing Centre (NRSC) has taken up several activities under National Hydrology Project (NHP) of Ministry of Jal Shakti, Department of Water Resources, Govt. of India and notable amongst them is the Real-time Operational Spatial Flood Early Warning System Development for Godavari and Tapi Basins.

NRSC has developed Spatial flood early warning models for both Godavari and Tapi basins to provide flood early warning alerts at prominent locations, spatial flood inundation extent, depth and velocity of flooding for the flood event, with ALTM data acquired for major flood prone areas within the basin. During the last flood season, NRSC had run the model and disseminated the results on experimental basis to stakeholders and got good response in Godavari basin.

As we are gearing up for flood season, it would be prudent to have a stake holder meeting with CWC, concerned authorities of State Water Resources Department, other line departments/organisations and SDMA's to firm up the way forward.

In India, the CWC has the mandate for flood forecasting. Therefore, in the longer run, it is proposed that the model developed by the NRSC will be incorporated into the CWC system of flood forecasting. NRSC has completed the early warning modelling part and is in the process of development of full-fledged, customised web-based systems for both the basins. To have an effective co-ordination between various stake holders and also to popularise the models amongst the Implementing Agencies/Stakeholders, this workshop is organised for two basins

**Targeted Participants:** CWC Directorates -FCA -1, FCA 2, FFM, RDC 1, RDC2 , FMO and Field Offices KGBO (Hyderabad) and MTBO (Gandhinagar), WRDs of Basin States, State Disaster Management Authorities (SDMAs), IMD, NCMRWF and NIH.

Time (Hrs.)	Topics for discussion	Methodology	Facilitators
10:00-10:10	Introduction and briefing about the importance of the meeting		NPMU & Project Director, NHP-NRSC
10.10-11.10	Spatial flood early warning in Godavari basin - Model development, operational aspects, dissemination mechanism, structure of early	Presentation	NRSC

Time (Hrs.)	Topics for discussion	Methodology	Facilitators
	warning messages, maps and report/table - data requirements from Stake holders, etc. will be discussed.		
11.10-11.40 h	The current operational forecast system in the basin		CWC
11.40-12.10 h	Sharing observations by SDMA's of different states in the basin - their role, information required for DRR, execution mechanism etc.,	Interactions/ discussion	SDMAs
12.10-12.40 h	Observations by concerned Water Resources Departments of Basin states - their role in flood disasters - operating reservoirs, reservoir data, river discharges, river cross sections, rainfall data maintained by them for this purpose is expected to be show cased	Interactions/ discussion	WRDs
12.40 -13.30h	Discussion open for all stake holders for way forward <ul style="list-style-type: none"> <li>◦ Observations and expectations to be shared by the stakeholders</li> <li>◦ What are the expectations from the collaboration with stakeholders?</li> <li>◦ Action Plans</li> <li>◦ Implementation strategies</li> </ul>	Interactions/ Discussion	All the Stakeholders