

## NATIONAL WEBINAR

Organized by



Dr. Rajendra Prasad Central  
Agricultural University, Pusa (Bihar)

With



National Higher Education Project (ICAR),  
New Delhi

7 – 9 October, 2020



## GEOSPATIAL APPROACHES FOR AGRICULTURAL WATER MANAGEMENT



### Ground water dynamics of eastern plains: An Overview

Dr. R. C. Srivastava  
Vice-Chancellor, RPCAU, Pusa



### Energy balance modeling approach for agricultural water management

Mr. Abhishek Danodia, SD, IIRS- Dehradun



### Use of UAV and advanced remote sensing for enhancing water productivity

Dr. Rabi N Sahoo, Principal Scientist, ICAR-IARI



### Hydrological modelling approach for watershed management.

Dr. Bhaskar R. Nikam, SF, IIRS-Dehradun



### Application of Geospatial Approach in Water quality assessment and management

Dr. Vaibhav Garg, SE, IIRS-Dehradun



### Geospatial Techniques for Drought Monitoring and Characterization: An Indian Perspective

Dr. Vinay Sehgal, Pr. Scientist & Professor, ICAR-IARI

Virtual Platform: Cisco-Webex

Sustainable development of Indian Agriculture depends on availability of good quality irrigation water which is scarce and indispensable. In recent years there is a rapid change in land use land cover and water use pattern. The frequent and regional scale monitoring as well as assessment for availability of water resources is the key in planning and use of water resources in efficient way. In recent years with advancement in space technology, use of geospatial science including earth observation and remote sensing are being used widely in applications related to land and water resources monitoring, agricultural water management, hydrology, irrigation water quality etc. Among these, geospatial technologies for agricultural water management is extremely valuable because food and water security are among the biggest challenges that many countries are facing. Timely and reliable assessment and monitoring of water resources and systematic exploration is of paramount importance. To obtain desired information within the limited time frame, it is necessary to employ modern methods of modeling and ground based observations. GIS and remote sensing techniques can provide managers and planners with the visualizing effects resulting from various management strategies, under different climatic and operational conditions. They can be used as analytical tools and can significantly enhance the ability of researchers and practitioners.

# National Webinar on Geospatial Approaches for Agricultural Water Management

7-9 October, 2020

## Key Speakers



Dr. R. C. Srivastava  
Vice-Chancellor, RPCAU



Mr. Abhishek Danodia,  
SD, IIRS



Dr. Rabi N. Sahoo  
PS, ICAR-IARI



Dr. Bhaskar R. Nikam  
SF, IIRS



Dr. Vaibhav Garg  
SE, IIRS



Dr. Vinay Sehgal  
PS, ICAR-IARI

## Conveners

- Dr. M. N. Jha, Director Education & Nodal Officer, NAHEP
- Dr. Ambrish Kumar, Dean, College of Agril. Engineering.
- Dr. S. K. Jain, Project Director, Centre of Excellence on Water Management & Principal Investigator, NAHEP

## Organizing Secretary

Vikas Kumar Rai, Scientist (9910940174)

## Virtual Platform

Cisco-Webex

**Meeting Id: 170 868 6986 Password: Geospatial@2020**

[Meeting Link](#)

**Registration (Free)**

<https://forms.gle/hKBoLesgEt38m3vG8>

## PROGRAMME COORDINATORS

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## ORGANIZING TEAM

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- Dr. Kumari Anjani, Asstt. Professor
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ORGANISED BY:

**Centre of Excellence on Water Management**

**Dr. Rajendra Prasad Central Agricultural University, Pusa (Bihar)**

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