

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

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.

Virtual Platform: Cisco-Webex



National Webinar on Geospatial Approaches for Agricultural Water Management

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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
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Dr. Vinay Sehgal
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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 Links : [Day-1](#) [Day-2](#) [Day-3](#) Password: **Geospatial Registration (Free)**

<https://forms.gle/hKBoLesgEt38m3vG8>

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