

**Chief Guest**



**Dr. S. K. Chaudhari**  
DDG (NRM)  
President, ISAP

**Chief Patron**



**Dr. R. C. Srivastava**  
Vice-Chancellor, RPCAU  
Patron, ISAP (Bihar Chapter)

**WEBINAR**

## ADVANCED APPROACHES FOR ENHANCING AGRICULTURAL WATER PRODUCTIVITY

22 MARCH, 2022



**Dr. K M Singh**  
Dean, PGCA  
Convener



**Dr. Amrish Kumar**  
Dean, CAET  
Convener

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### Title of the Talk

**A Data-Driven Approach Using the High-Resolution Soil Moisture Product to Identify Water-Demand in Agricultural Region**

### About Lead Speaker



### Dr. Narendra N. Das

Associate Professor  
Deptt. of Biosystems & Agril. Engg.  
Michigan State University, MI, USA  
Former Research Scientist at NASA  
Jet Propulsion Laboratory, California

Prior to joining MSU, Dr. Das worked as a Research Scientist at the NASA Jet Propulsion Laboratory (JPL), California Institute of Technology for 12 years (2008 - 2020). He was born in Bhilai, India. He received the Bachelor of Engineering degree from the NIT, Raipur, India, and the Master and the Ph.D. degrees from Texas A&M University, College Station, Texas, in 2005 and 2008, respectively. He is a Science Team member for the Soil Moisture Active and Passive (SMAP) mission. He is the Principal Investigator of the Applied Science NASA SERVIR program to implement Drought and Crop Forecast System for East Africa region and Lower Mekong Basin Countries. He is also a Science Team member of the NASA ISRO SAR (NISAR) mission with the responsibility to produce very high-resolution global soil moisture data product.



*Organised by*

**Indian Society of Agrophysics (Bihar Chapter)**

*In collaboration with*

**Centre of Excellence on Water Management  
Centre for Advanced Studies on Climate Change  
Post Graduate College of Agriculture  
College of Agricultural Engineering & Technology  
Dr. Rajendra Prasad central Agricultural University, Pusa**

**&**

**National Higher Education Project  
Climate Resilient Agriculture Programme**



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# Programme Schedule

<b>Inaugural Session</b>  <b>01:00 – 02:00 pm</b>	<b>Introduction of Society:</b> Mr. Vikas Kr. Rai, Secretary, ISAP (Bihar Chapter)
	<b>Welcome address by</b> Dr. Mukesh Kumar, President, ISAP (Bihar Chapter)
	<b>Address by Convenor:</b> Dr. Ambrish Kumar, Dean (CAET), RPCAU, Pusa
	<b>Address by Convenor:</b> Dr. K. M Singh, Dean (PGCA), RPCAU, Pusa
	<b>Presidential address by</b> Dr. S. K. Choudhary, DDG (NRM) & President, ISAP
	<b>Address by Chief Patron :</b> Dr. R. C. Srivastava, Hon'ble Vice-Chancellor, RPCAU, Pusa
	<b>Vote of Thanks :</b> Dr. M C Manna, Vice-President, ISAP (Bihar Chapter)
<b>Lunch Break (02:00 – 03:00 PM)</b>	
<b>Technical Session</b> <b>03:00 – 03:30 pm</b>	<b>Activities of RPCAU in Agricultural Water Management</b> <b>Speaker:</b> Mr. Vikas Kumar Rai, Assistant Professor (Soil Physics, RS & GIS), RPCAU, Pusa.
<b>03:30 – 04:15 pm</b>	<b>A Data-Driven Approach Using the High-Resolution Soil Moisture Product to Identify Water-Demand in Agricultural Region</b> <b>Speaker :</b> Dr. Narendra N Das, Assoc. Prof. Michigan State University, MI, USA
<b>04:15 – 05:00 pm</b>	<b>Panel Discussion with all the dignitaries</b>
<b>Vote of Thanks :</b> Dr. Ravish Chandra, Assoc. Prof. (Centre of Excellence on Water Management, RPCAU, Pusa)	



## Organizing Team

### Convenor

**Dr. K M Singh**  
Dean, PGCA

**Dr. Ambrish Kumar**  
Dean, CAE

**Dr. Mukesh Kumar**  
President, ISAP

**Dr. Ratnesh Kr. Jha**  
PD, CASCC

**Dr. S K Jain**  
PD, CoE - WM

### Co-convenor

### Organizing Secretary

**Mr. Vikas Kr. Rai**

Assistant Professor (Soil Science) &  
Secretary, ISAP (Bihar Chapter)

### Member Organizing Committee

**Dr. M C Manna**  
Professor & Head  
Soil Science

**Dr. Ravish Chandra**  
Assoc. Professor  
Soil Water Engg.

**Dr. Santosh Kr. Singh**  
Asstt. Professor  
Soil Science

**Dr. S P Singh**  
Asstt. Professor  
Soil Science

**Dr. B. Pramanik**  
Asstt. Professor  
Agronomy

**Er. Nidhi Kumari**  
SMS (KVK, Turki)  
Soil & Water Engineering

Technical Support: **Er. Sneh Sansar** & team, ARIS Cell, RPCAU, Pusa