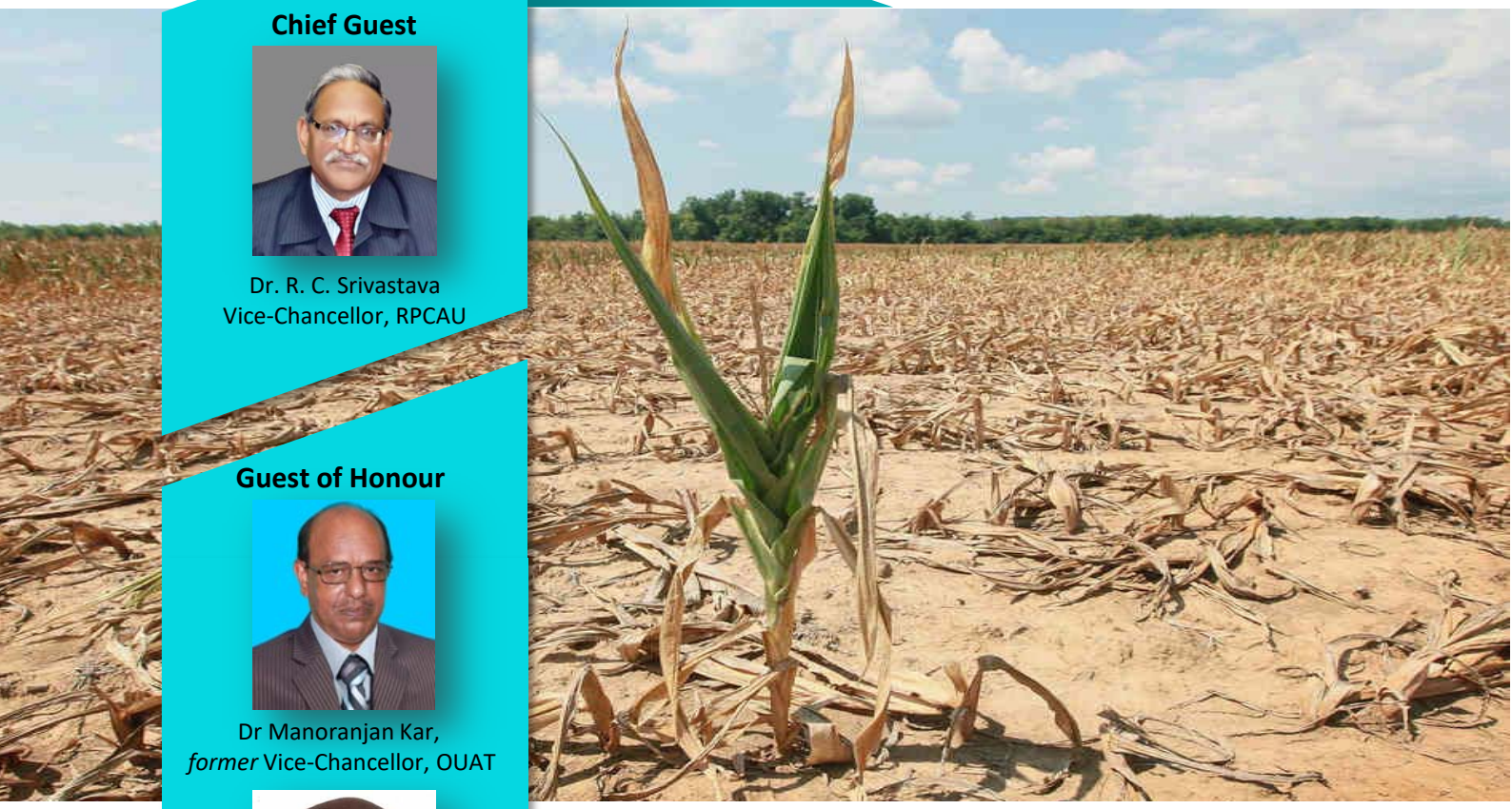
International Webinar

# Impact of water stress on crop productivity: its mitigation and adaptation strategies

24-26 November, 2020



**Chief Guest**



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

**Guest of Honour**



Dr Manoranjan Kar,
*former* Vice-Chancellor, OUAT

Dr. Viswanathan Chinnusamy
Principal Scientist, ICAR-IARI

Meeting Links

Day-1 | Day-2 | Day-3

Virtual Platform

Cisco webex

## Themes:

- Water stress, its occurrence and present scenario across the globe under climate change
- Impact of water stress on plants: Morpho-physiological and Biochemical aspects
- Signaling under water stress: molecular dimensions
- Designing of crop for water stress
- Modeling for enhancing water use efficiency
- Agronomic interventions for enhancing crop production under water stress

E-Certificate to the participants registered through **Day-1** link

Centre of Excellence on Water Management
Dr. Rajendra Prasad Central Agricultural University
Pusa (Samastipur) 848125
&
National Higher Education Project (ICAR)

# About the webinar

In India, 56% of cultivated area is under rainfed condition faces frequent drought lead to crop failure and fluctuation in agricultural productivity. Further, flood, intense rain, and drought are natural extreme events mainly due to changed climate scenario in this country. This leads to a major loss in productivity due to deficit as well as excess water stress. Because of amplified population growth, urbanization, and climate change, the struggle for water resources in different sector expected to rise, mainly in agriculture sector. To feed this amplifying population the food production must be increased by mitigating water stress causing due to climate change. The main objective of this webinar is to exchange the ideas among the researchers working in the area of water stress management in different institutions and to broaden and sharpen the knowledge in improving the crop responses/ performances in this challenging ecological system.

# Eminent Speakers

**Introductory remarks:** Dr. S. Roy Chowdhury, Dean, College of Basic Sciences and Humanities, RPCAU, Pusa.

**Signaling under water stress: molecular dimensions.**
Dr. Viswanathan Chinnusamy, Principal Scientist & Head, Division of Plant Physiology, ICAR-IARI, New Delhi, India

**Water stress, its occurrence and present scenario across the globe under climate change.** Dr Manoranjan Kar, Former Vice-Chancellor. OUAT, Bhubaneswar, India

**Impact of water stress on plants: Morpho-physiological and Biochemical aspects.** Dr. Niteen Kadam, PDF, University of Illinois, Urbana Champaign, USA

**Designing of crop for water stress.** Dr. C. M. Singh, Assistant Professor, Department of Genetics and Plant Breeding, Banda University of Agriculture and Technology, Banda, India.

**Agronomic intervention for enhancing crop production under water stress.**
Dr. L.M. Garnayek, Dean, Extension Education, OUAT, Bhubaneswar, India

**Modeling approaches for improving Water Use Efficiency in Agriculture.**
Dr. Ravish Chandra, Assistant Professor, Centre of Excellence on Water Management, RPCAU, Pusa (Bihar), India.

# Organizing Team

## CONVENERS

**Dr. Somnath Roy Choudhury**
*Dean, College of Basic Sciences and Humanities*

**Dr. M. N. Jha**
*Director of Education and Nodal Officer, NAHEP*

**Dr. S.K. Jain**
*Project Director & P.I., NAHEP*

## ORGANISING SECRETARY

**Ms. Jyostnarani Pradhan**
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## PROGRAMME CO-ORDINATORS

Dr. Mukesh Kumar, Associate Professor
Dr. Ravish Chandra, Assistant Professor
Dr. Shailesh Kumar, Assistant Professor
Dr. A.K. Singh, Assistant Professor

## ORGANIZING TEAM

Dr. S.P. Gupta, Professor
Dr. (Mrs.) Kavita, Assistant Professor
Dr. R. N. Bahuguna, Assistant Professor
Dr. Rajan Kumar, Assistant Professor
Dr. Ankur Jamwal, Assistant Professor
Mr. V. K. Rai, Assistant Professor

## TECHNICAL ASSISTANCE

Sri Ashish Kumar Maurya
Sri Manish Kumar Azad
Sri Abhishek Kumar
Sri Mukesh Kumar

**INTERNATIONAL WEBINAR ON**
**IMPACT OF WATER STRESS ON CROP PRODUCTIVITY:**
**ITS MITIGATION AND ADAPTATION STRATEGIES**

***(24th Nov to 26th Nov, 2020)***

**Organized by**

Centre of Excellence on Water Management
Dr. Rajendra Prasad Central Agricultural University, Pusa (Bihar)

**Programme details**

| Time (IST) | Particulars | Concern person |
|---|---|---|
| **Day – 1 (24.11.2020)** | | |
| 15:00-15: 20 hrs | Welcome address | Dr. S.K. Jain |
| | **Introductory remarks:** Dr. S. Roy Chowdhury, Dean, College of Basic Sciences and Humanities, RPCAU, Pusa. | |
| | **Address by the Chief Guest:** Dr. R.C. Srivastava, Hon'ble Vice Chancellor, RPCAU | |
| 15:20 – 16:10 hrs | **Water stress, its occurrence and present scenario across the globe under climate change:** Dr. Manoranjan Kar, Former Vice-Chancellor, OUAT, Bhubaneswar. | Moderator : Dr. Shailesh Kumar<br>Rapporteur : Dr. Ravish Chandra |
| 16:10 – 17:00 hrs | **Signaling under water stress: molecular dimensions:** Dr. Viswanathan Chinnusamy, Principal Scientist & Head, Division of Plant Physiology, Indian Agricultural Research, New Delhi. (Guest of Honor) | |
| **Day – 2 (25.11.2020)** | | |
| 11:00 – 11:50 hrs | **Impact of water stress on plants: Morpho-physiological and Biochemical aspects:** Dr. Niteen Kadam, PDF, University of Illinois, Urbana Champaign, USA. | Moderator: Dr. R.N. Bahuguna<br><br>Rapporteur : Dr. Kavita |
| 12:00 – 12:50 hrs | **Designing of crop for water stress:** Dr. C.M. Singh, Assistant Professor, Department of Genetics and Plant Breeding, Banda University of Agriculture and Technology, Banda, India. | |
| **Day – 3 (26.11.2020)** | | |
| 11:00 – 11:50 hrs | **Agronomic intervention for enhancing crop production under water stress:** Dr. L.M. Garnayak, Dean, Extension Education, OUAT, Bhubaneswar | Moderator: Dr. Mukesh Kumar<br><br>Rapporteur : Dr. A.K. Singh |
| 12:00 – 12:50 hrs | **Modeling approaches for improving Water Use Efficiency in Agriculture**: Dr. Ravish Chandra, Assistant Professor, COEWM, RPCAU, Pusa | |
| 12:50 – 13:20 hrs | **Panel Discussion** | All Panelists |
| 13:20 – 13:30 | **Vote of thanks** | Dr. Mukesh Kumar |