



About the Institute: ICAR-RCER, Patna

The institute came into existence on 22nd February, 2001 with its Headquarter at Patna and its Regional Centres at Darbhanga, Bihar and Ranchi, Jharkhand along with two KVKs at Buxar, Bihar and Ramgarh, Jharkhand. Since its establishment, the institute has undertaken various research, extension and training activities in the areas of land and water management, crop management, horticulture, aquatic crops, fishery, livestock and poultry, agro-forestry, processing, value addition and socio-economic aspects for agricultural development in the region so as to improve the livelihood of resource poor farmers. Every year the institute organizes more than fifty trainings for the stakeholders in agriculture. **Important landmark for reaching the institute is Patna Airport which is only 1 km away from the institute.**



Patron

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Online Collaborative Training on Climate Smart Technologies for Improving Farm Productivity (September 14-17, 2021)



Sponsored by

National Institute of Agricultural
Extension Management (MANAGE),
Rajendranagar, Hyderabad - 500 030
(Telangana)



Organized by

ICAR-Research Complex for Eastern
Region, ICAR Patna,
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Why this training?

Climate change has emerged as a major threat to agriculture, food security and livelihood for millions of people in many places of the world (IPCC, 2014). Changes in crop cultivation suitability and associated agriculture biodiversity, decrease in input use efficiency, and changing pattern of pests and diseases are some of the major climate change impacts on agriculture. Agriculture production systems require adaptation to these changes in order to ensure the food and livelihood security of farming community. There are several potential adaptation options to reduce moderate to severe climatic risks in agriculture. Adaptation options that sustainably increase the crop productivity, enhance resilience to climatic stresses, and reduce greenhouse gas (GHG) emissions are known as climate-smart agricultural (CSA) technologies, practices and services (FAO, 2010). Broadly, CSA focuses on developing the resilient food production systems that lead to food and income security under progressive climate change and variability. Despite various benefits of CSA technologies, their current rate of adoption by farmers is low. Many new technologies have emerged to combat the effects of climate change. This 4 days' training has been especially designed for extension officers and researchers. It will give concise information of recent innovations in the climate smart technologies and the empirical strategies for up-scaling. This will also help the extension functionaries to upgrade their skill and knowledge in this area, and enable them to assist farmers for sustainable adoption of the climate smart technologies.

Topics to be covered in this training?

In this training programme, the topics have been chosen in respect of practicality and immediate use. The topics are:

1. Climate smart agriculture: An over view, constraints, issues and opportunities and role in food security
2. Conservation agricultural practices, residue management methods, carbon sequestration and soil health management practices in mitigating the climate change
3. Integrated Farming System approach for climate resilient agriculture
4. Climate smart livelihood options based on recent research on crops and animal studies.
5. Agricultural policies for implementing climate smart technologies, risk mitigation and strategy formulation.
6. Recent innovations in climate resilient farm mechanization in agriculture
7. Innovative agricultural extension approaches in climate smart agriculture
8. Bio-intensive management of insect pests under Changing Climatic Scenario

Faculty involved in training

Expert Scientists from the ICAR Research Complex for Eastern Region, Patna, and its regional center *Farming System Research Centre for Hill and Plateau Region*, ICAR-Indian Institute of Vegetable Research, Varanasi, Borlaug Institute for South Asia (BISA), Pusa, Samastipur (Bihar), CIMMYT and from various other

ICAR institutes and SAUs will be delivering lectures in this training programme.

Who can apply ?

The training is meant for researchers and extension professionals of ICAR Institutes, SAUs, AICRP,s KVKs and Department of agriculture and allied sectors.

How to apply for this training ?

The training programme will be conducted online. Interested participants have to register their names by assessing the following link:

<https://www.manage.gov.in/trgModule/emailRegn.asp?tpno=EIF&tpyear=FDPE>

Link for online training will be sent to all the selected participants well before the commencement of training.

