



**ICAR Sponsored Winter School**

on

**Climate Smart Agricultural Practices for  
System Resilience in Cereal Based  
Cropping Systems**



**15 Feb. – 6 March, 2024**



**Course Director**

Dr. Madhu Choudhary

**Course Coordinators**

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Dr. Avni

**Director**

Dr. R. K. Yadav

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**Background**

The sustainability of major agri-food systems is at high risk because of resource degradation, declining factor productivity and shrinking farm profitability under current farming practices. The agriculture transformation provides the platform to address the climate change issues regionally and nationally for sustainable development of agriculture. This is crucial as India is witnessing the adverse impacts of climate change on food production in almost every alternate year in one or other form. Rising temperatures, erratic rainfall, extreme weather conditions (such as prolonged droughts and floods), changing soil fertility, and new pest infestations are major factors contributing to stagnant agricultural growth. Climate smart agriculture (CSA) is considered a pragmatic approach for ensuring food security and resilience in changing climatic condition. The CSA revolves around 3 basic pillars namely Food security, Adaptive capacity and Mitigation potential. The CSA essentially includes carbon, water, nutrient, energy, weather and knowledge smart practices that allow the use of climate resilient crops and cropping system. The CSA encompasses farming practices that sustainably increase productivity, enhance resilience/ adaptation, reduce greenhouse gasses (GHG) emission and help to achieve national food security. The 'Training Programme on CSA practices for system resilience in cereal based cropping systems' offers a unique learning opportunity for the scientific community working in the area of natural resource management. This training programme is aimed the capacity building of the researchers, scientists, assistant professors, agricultural/subject matter specialists from the

Indian National Agricultural Research System (NARS).

**Course Content**

- CSA-based crop management technologies, principles and practices
- Innovation systems and pathways –Strategic research platforms
- Hands-on training on calibration, operation and maintenance of CSA machinery
- Precise water, nutrient, tillage and residue management in CSA for sustaining productivity
- Climate change mitigation and adaptation strategies
- Impact assessment of CSA technologies
- In-field hands-on training for CSA-based crop management technologies from planting to harvest including decision support tools
- Interaction with farmers, stakeholders of public and private sector domains and CSA machinery manufacturers



- Visit to farmers' fields/ experiment station/research platform.

**Location and Climate**

ICAR-Central Soil Salinity Research Institute (ICAR-CSSRI) Karnal is one of the well-equipped premier

Institutes of ICAR. It is located centrally in Haryana and it is on the bank of Western Yamuna Canal. It is 5 km from Karnal Bus Stand and 3 km from Karnal Railway Station. It is about 132 km from Delhi/ New Delhi towards Ambala/ Chandigarh on National Highway No. 1. It is well connected by train and bus service. The participants are advised to make their onward and return journey reservations well in advance. The weather at Karnal during February-March remains pleasant with day temperature around (~25°C) while night around (~15°C).

### **Application and Registration**

The interested candidates should register and apply online through 'Capacity Building Programme' (CBP) portal as follows:

1. Visit the website <http://www.iasri.res.in/cbp/>
2. Login using your user ID and Password. To create user ID use "Create New Account" link.
3. After login, click on "Participate in Training" link and fill the Performa.
4. Take a printout of filled application and upload scanned copy of dully signed application online, and also send duly signed copy to the Course Director by email along with registration fee on or before **15 January 2023**.

**Note:** The participants are required to pay the sum of Rs 50/- as registration fee (non-refundable) along with the application form in the form of Indian Postal Order (IPO)/ Demand Draft in favour of Director, CSSRI, Karnal, Haryana.

### **Eligibility**

The officers in the cadre of Scientists/Assistant Professors or equivalent and above, Subject Matter Specialists equivalent and above from ICAR institutes, SAUs, CAUs, KVKs, CSIR, Commodity boards, Agricultural faculty of AMU, BHU, Vishwa Bharati and Nagaland University who are actively

engaged in research, teaching and demonstration in the areas of Soil Science, Agronomy, Soil Water Conservation Engineering, Plant Breeding and Genetics Plant Physiology, Soil Microbiology, Environmental Sciences and other relevant Agriculture and Horticulture subjects are eligible to attend the winter school.

### **Travelling Allowance**

The selected participants are restricted to travel AC III by train/ Bus depending on availability by shortest route. The TA will be paid on the submission photo copies of reserved tickets by participants.

**Note: (1) In case participant travelled by Air the re-imbusement will be restricted to AC-III tier only and it is mandatory to book air ticket from IRCTC, Balmer Lawrie, and Ashoka Travels & Tour only.**

### **Boarding and Lodging**

The participants will be provided free boarding and lodging in the institute guest house only on sharing basis. Since the limited rooms are available so the accommodation will not be provided to the family members or guests of the participants at any condition. Food will be served and expenses will be borne by the organizers as per ICAR norms. The local candidates are not eligible for boarding and lodging; however, they are entitled to local hospitality, i.e. lunch, tea, coffee, etc.



### **Number of Participants**

Total intake for the Winter School is limited to 25 participants. The participants are advised to start journey only after receipt of selection letter.

### **Important dates**

- Last date for receipt of application **15-01-2024**
- Intimation of selection of participants **20-01-2024**
- Last date for confirmation from participants **25-01-2024**

**All correspondence should be addressed to**

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**Scientist SS & Course Coordinator**

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### **Venue**

ICAR-Central Soil Salinity Research Institute,  
Kachhwa Road, Karnal – 132 001 (Haryana)

### **Sponsored by**

Indian Council of Agricultural Research,  
New Delhi - 110 012

### **Organized by**

ICAR-Central Soil Salinity Research Institute,  
Karnal - 132 001 (Haryana)

Web: [www.cssri.res.in](http://www.cssri.res.in)