



# Training Program on Agricultural System Modelling to Assess Climate Change Impact on Soils and Crops

16-25 January, 2018

ICAR-Indian Institute of Soil Science, Bhopal

## Programme Director

Dr. Monoranjan Mohanty

## Programme Coordinators

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# ICAR-Indian Institute of Soil Science

Nabi Bagh, Berasia Road, Bhopal-462038, Madhya Pradesh, India

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# Training Program on Agricultural System Modelling to Assess Climate Change Impact on Soils and Crops

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## Program objectives

The overall objective of this training program is to familiarize participants with comprehensive computer models for the simulation of crop growth and yield, water, nutrient and carbon dynamics and their applications to real world problems. Further, to learn to apply models as decision making tools to manage soils and crops for sustainable agricultural production. In context of climate change

## Program outline

- Introduction to crop simulation modelling
- Minimum dataset and information requirements of the crop models
- Parameterization and validation of simulation models
- Simulating water limited production systems
- Simulating nutrient limited production systems
- Modeling soil organic carbon dynamics in crops and cropping systems
- Modelling climate change effects on crops and cropping systems.
- Assessing climate change effects on natural resources using simulation models
- Climate data downloading information



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## Registration Form

Name in Full: .....

Affiliation: .....

Address: .....

Country: .....

Email: .....

Telephone: ..... Fax: .....

Date of birth and Sex: .....

Educational Qualification: .....

Relevant area of interest: .....

Recommendation of the forwarding Institution

Signature of the participant

Date:.....

Place:.....

### Contact us

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**Note: Only working lunch will be provided during the training period to the participants . All other charges such as TA, Guest house, Breakfast and Dinner shall be borne by the participants.**