

## Model Training Course

on

### Soil Health Management for Organic Farming & Good Agriculture Practices in NEH Region- An Option for Sustainable Agriculture

September 2-9, 2019

#### Application Format

1. Full Name:  
(In block letter)
2. Designation:
3. Present Employer with Address:
4. Address for Correspondence:
5. Mobile No.:
6. Date of Birth:
7. Gender:
8. Marital Status:
9. Nature of Job:  
(Teaching/ Research/ Training/ Extension/ others)
10. Professional Experience:  
(Post held during the last five years)

Sl.No.	Post Held	Duration	Organization

#### 11. Academic Record

Degree	Year	Institution	Specialization
Graduation			
Post-Graduation			
Ph.D			
Others			

12. Accommodation Required: Yes/No

13. Mode of Travel: Road/Rail

14. Arrival Details: (Date & Time)

Place: Signature of candidate

Date:

15. Recommendation of Forwarding Authority

Date: Signature & Seal  
(Name & Designation)

#### Who can participate?

The model training course is meant for the officials from State Developmental Departments like Agriculture, Horticulture, Forestry, Dairy, Fishery, livestock and allied sectors. Staffs of ICAR, CAU, SAU, KVK, etc. in the rank of scientist, assistant professor, SMS, training organizer or equivalent can participate in the training programme. The total number of participants shall be limited to 20. All the applications must be routed through proper channel. No course fee will be charged from the participants.

#### Important Dates

Last date of receipt of application: 13<sup>th</sup> August 2019  
Intimation of Selection: 16<sup>th</sup> August 2019  
Confirmation by candidates: 20<sup>th</sup> August 2019

#### Course Advisor

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Sponsored by

Directorate of Extension  
Department of Agriculture, Co-operation & Farmers' Welfare, Ministry of Agriculture & Farmers' Welfare, Govt. of India, New Delhi

Organized by

ICAR RESEARCH COMPLEX  
FOR NEH REGION, MANIPUR  
CENTRE, LAMPHEL PAT  
IMPHAL - 795 004

Phone : (0385) 2414654  
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## Background

North East Hill Region is blessed with a conducive climate and resources for organic Agriculture. Managing soil fertility in organic farming systems requires a different approach from that used in conventional farming systems. Nutrients in synthetic fertilizers are highly soluble, so nutrient availability is quite predictable and are quickly available to plants and do not enhance the biological health of the soil. Practices and inputs used by organic producers promote biologically healthy soils that sustain fertility in ways different from conventional systems. Managing soil fertility with biologically-created inputs ensures that organic production is a dynamic biological process. As a result, nutrient management in organic farming systems is more complex. In short, plant-available nutrients in organic systems utilizes nutrients recycled from the decomposing organic residues. Organic growers need to account for each of these nutrient sources to determine current and future nutrient availability as well as view nutrient management as but one component of an integrated crop and soil management plan. Many high value crops like Black Scented Rice, King Chili, Ginger, Turmeric, Kachai Lemon, Pineapple, Orange etc., are grown organically in this region and have a huge potential for international Market. To make the organic production successful in the long run and to generate more skilled manpower, training on soil health management for organic farming is indispensable.

## Objective

- To explore and train the officials regarding soil management in organic farming in the NEH Region.
- To impart skill and technical know-how on organic production in NEH Region
- To make awareness on institutional support and facilities available regarding Organic Agriculture in NEH Region.

## Course Content

- Scenario of organic farming in the NEH Region
- Soil physical health management for organic farming
- Soil water conservation measures in the NEH Region
- Integrated organic nutrient management practices in major hill crops

- Plant nutrient deficiency symptoms and management strategy under organic condition
- Practices and skill in production of compost and enriched compost, vermicompost and vermiwash
- Production techniques and uses of Azolla for soil health management
- Green manure crops and their uses for soil health management
- Organic Farming through Integrated Farming System
- Production and uses of biochar for organic agriculture
- Fundamentals of protected cultivation with organic inputs
- Production and uses of biofertilizers for organic agriculture
- Uses of animal waste in organic farming
- Mushroom production as a component of organic farming
- Production of indigenous organic medicinal and aromatic plant of North East Region
- Establishment and management of organic nursery
- Chemical residue analysis in soil for organic farming
- Plant disease management in organic farming
- Organic management of soil arthropods and nematodes in the organic farming.
- Overview of organic certification system in India
- Financing of organic based agro business units

## Training Methodology

Interactive lectures, group discussion and field trips.

## About The Host Institute

ICAR Research Complex for North Eastern Hill Region was established in the year 1975 by the Indian Council of Agricultural Research (ICAR) to provide an adequate research base for supporting agricultural development in the North Eastern Hill Region of the country. It is the first institute of its kind setup by ICAR which encompasses almost all the disciplines of agriculture, horticulture, animal sciences, agricultural engineering, agro-forestry, fishery and social sciences to cater the research needs of the entire NEH Region. The headquarter of the Institute is located at Umiam (Meghalaya). The ICAR Manipur Centre of the institute has made significant contributions in the area of crop improvement, natural resource

conservation, agriculture, horticulture, animal sciences, fishery and played key role in developing farming systems and its related technologies for various stakeholders, especially for the poor farming community. The centre has experimental farm, seed farm and central laboratory facility. The centre also has five Krishi Vigyan Kendras under its jurisdiction.

## Course Duration

The duration of the course is of eight days and it is scheduled to be held from the 2<sup>nd</sup> September 2019 to 9<sup>th</sup> September, 2019.

## TA and DA

Travel expenses will be reimbursed for both ways to participants restricting to AC II tier Train fare on submission of original travel tickets in support of their claim or state transport department bus by shortest route as per rules of Government of India. However, the participants coming from ICAR/CAU/SAUs/KVKs, the TA and DA expenditure will have to be borne by their nominating organization/institute.

## Boarding and Lodging

All the participants will be provided free boarding and lodging facilities in the Institute Guest House.

## How to reach ICAR Manipur Centre

ICAR Research Complex for North East Hill Region, Manipur Centre is located in Lamphelpat, Imphal which is just 2 km distance from Imphal the main market. Imphal is well connected by Air with major cities. Three National highways viz. NH – 39, NH- 53 and NH-150 crisscross the state capital. The institute is located at 10 km from Imphal Airport and 2 km from North AOC bus stand. The nearest railway head is at Dimapur, Nagaland which is 208 km from Imphal city. The nearby landmarks are Regional Institute of Medical Sciences (1.5 km) and Kendriya Vidyalaya -Lamphel (200 meter).