



Information Brochure

NICRA Sponsored 10 Days Short Term Training

on

**Recent advances in soil, plant and water management
researches to enhance adaptation and mitigation potential of
farmers of North Eastern Hill Region in the backdrop of climate
change**

21st to 30th January, 2014

Division of Natural Resource Management

ICAR Research Complex for NEH Region

Umroi Road, Umiam

Meghalaya 793 103

www.icarneh.ernet.in, www.kiran.nic.in

IMPORTANT DATES

Last date for receipt of applications	: 06-01-2014
Intimation to selected candidates	: 08-01-2014
Confirmation by selected candidates	: 11-01-2014

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Back ground

Dependency on weather in agricultural operations is the main limitation of the farmers of the North Eastern region. Though importance is given on rain water harvesting and recycling through various schemes and programs of central and state Govts., those are not yet yielding satisfactory results and crops are still subjected to mid-season vagaries of nature. Besides, the inherent resource poorness of the farmers have made them shy to stay away from improved agricultural technologies owing to dependency on external market for the inputs, which are generally costly and high maintenance costs. The region is already a recognized very sensitive ecosystem and any imbalance in the natural and production processes is likely to hamper the normal livelihood and food security.

Under such circumstances and governed by the principles of adaptation to natural changes and mitigation of the harmful cause and effects of rapid global climate change, the Govt. of India introduced a new research scheme, called National Initiative on Climate Resilient Agriculture (NICRA) to safe guard the interest of the common farming community. The ICAR RC NEH Region is also an important partner of this national flagship program on climate change. Since 2010-11 under the theme area of basic and strategic research in natural resource management, crop improvement, livestock and fishes new state of the art technologies have been tested in the institute and ones proven suitable they have been released systematically for adoption by the farmers. The main scope and objective of researches carried out under the aegis of NICRA are to enhance the potential of the farmers for adaptation and mitigation of the adverse affects of climate change.

While achieving the ultimate goal to reach to the farmers, there is a constant need to up date the coworkers involved in the same line about the new technologies/interventions and about the state of the art infrastructures raised for research purposes. This serves the purpose of confidence building among them and helps in coming out with new innovative ideas of practical importance. This training program has been organized keeping in view of this necessity.

Objective

The sole objective of this training program is to bring familiarity with state of the art research technologies and dissemination of the recent scientific advances in the field of soil, plant and water management to enhance adaptation and mitigation potential of farmers of North Eastern Hill Region in the backdrop of climate change.

Course Content

The course content will broadly cover the following topics: (i) Opportunities and Constraints of different hill production systems, (ii) Climate change and way to determine their impact on crop production, (iii) Resource conservation technologies under different hill production systems (iv) Farm machineries for different conservation farming systems, (v) Carbon sequestration and mitigation of climate change effects, (vi) Weed, pest and disease management strategies.

Fifty percent of the training time will exclusively be devoted on hand on training of various advanced methods and equipments used in NRM research. These include: exposure to FATE, CTGC & growth chambers, Radiation measurement with quantum sensors, soil moisture measurement with TDR, Plant photosynthesis measurement system, soil respiration measurement, LAI measurement with plant canopy imager, crop stress detection with infra red thermometer, Total carbon analyzer etc.

Faculty

The faculty for the course will consist of eminent scientists/teachers drawn from various scientific research/educational institutions in the region and the country. There will be hands-on-training on instruments, data analysis etc.

About ICAR Research Complex for NEH Region (the venue of the training)

ICAR Research Complex for North Eastern Hill Region, Umiam, Meghalaya was established in the year 1975 by the Indian Council of Agricultural Research 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 all the disciplines of agriculture, horticulture, animal sciences, agricultural engineering, agro forestry and fishery to cater to the research needs of the tribal areas of NEH Region including Sikkim. The headquarters of this Institute is located at Barapani (Meghalaya) while its regional centers are located at Basar (Arunachal Pradesh), Imphal (Manipur), Kolasib (Mizoram), Jharnapani (Nagaland), Lembucherra (Tripura) and Gangtok (Sikkim). Besides the Institute has a nos. of Krishi Vigyan Kendras attached to different centers for providing on/off campus training to the practicing farmers, school drop outs and farm women in the field of agriculture and allied sectors.

Eligibility of participants

This training program is meant for active researchers/teachers/Subject matter specialists in the field of Agronomy/ Agrometeorology/ Plant Physiology/ Soil Science/ Agricultural Extension/ Agricultural Engineering/ Horticulture or any other related discipline. A total of 25 candidates

will be selected for this course. The selection of candidate will be made by screening committee as per available guidelines of ICAR.

How to apply

Application for participation in the short course may be made in the prescribed format as given here in **Annexure-1** and forwarded by the competent authority of the SAU/ICAR Institute/KVK where the candidate is employed. **No registration fee is required.** Applicants may send an advance copy if they anticipate delay in forwarding through proper channel. However, the final selection will be made only if the application duly recommended by the competent authority is received, which must not be later than one week after the closing date. **The closing date for receipt of applications is 06-01-2014.** The selected candidates will be intimated through e-mail by 08-01-2014. After the candidates are intimated of their selection, they should immediately reply with firm acceptance by 11-01-2014 either by e-mail or letter...

TA, Boarding and Lodging

The participants will be provided with **free shared accommodation and working lunch** from ICAR fund as per norms and operational guidelines for organization of short course. Participants have to meet the travel cost from their respective institutes.

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Address for correspondence:

Dr. U. S. Saikia
Course Director, NICRA sponsored Short term training course
Section of water Management
Div. of Natural Resource Management
ICAR Research Complex for NEH Region
Umiam, Meghalaya 793 103
Phone/Fax: 0364—2570032
09402557546 (M)
E-mail: ussaikia73@gmail.com

Course Coordinators

Dr. T. Ramesh, rameshssac@yahoo.co.in, 09089049567 (M)
Dr. G.I. Ramakrishna, rgidu@yahoo.co.in, 09402196940(M)
Dr. R. Krishnappa, krishphysiology@gmail.com, 09862423742(M)

ANNEXURE-I

APPLICATION FORM FOR PARTICIPATION IN SHORT TERM TRAINING COURSE

Recent advances in soil, plant and water management researches to enhance adaptation and mitigation potential of farmers of North Eastern Hill Region in the backdrop of climate change
(21st to 30th January, 2014)

01) Name and Designation : _____

02) Date of birth : _____

03) Affiliation : _____

04) Address (Res. & for correspondence)

with phone/fax/e-mail, etc.)

: _____

05) Highest educational qualification (last degree received): _____

06) Experience

a) Professional : _____

07) Details of other training in the field, if any : _____

08) Proposed/expected utilization of knowledge acquired in this short course

: _____

09)

Signature of the Applicant

Date:

Place:

10)

Recommendations of the Head of the Dept. /Institution with Signature and Seal

Signature: _____

Designation: _____