



Workshop on
Capacity Building for Mitigation of Climate Change using Precision Agriculture
20-22 March, 2015
Department of Energy, Tezpur University, Assam, India

Preamble

Precision Agriculture (PA) is a system approach to ensure rational application of materials and energy to support the potential level of production. In crop production system, PA results reduction of chemicals, water and energy consumptions, thereby, reducing the potential greenhouse gas emission. Comprehensive understanding of soil-water-plant system enables to achieve the objectives of PA through the intervention of new tools, technologies and practices. PA can also be viewed as smart farming as it involves application of smart gadgets to enable to complete intended job precisely at temporal and spatial scales.

PA is an emerging subject of recent origin and has drawn worldwide wide attention. However, PA seems to be in its nascent state in India. Augmentation of understanding amongst the major stakeholders is essential for wider application of PA in India which is characterized by vast range of issues and wide range of diversity.

It is, in this context, a two days building workshop "Mitigation of Climate Change using Precision Agriculture" is organized in Association with the North Dakota State University, USA also with the sponsorship of Asia-Pacific Network for Global Change Research, Japan as per the programme provided below.

Venue & Dates

Department of Energy Tezpur University Assam India
20-22 March, 2015

Tezpur University

Tezpur University was established by an Act of Parliament in 1994 in Tezpur. Tezpur is situated on the northern bank of river Brahmaputra in Sonitpur district of Assam. The city is considered to be the cultural capital of Assamese culture. Kaziranga National Park which is famous for its one horned Rhinoceros is only 81 km away from the city.

Tezpur University is seated on a sprawling 262 acre campus amidst the serene surroundings of Napaam on the outskirts of the Middle Assam's historic town of Tezpur. Over the years, the University has played a leading role in transforming the higher education scenario in the Northeast India through innovative, employment driven and interdisciplinary academic programs with transparent and scientific evaluation system and strong work ethics. The University has presently 19 Academic Departments under 4 Schools offering 63 academic programmes.

How to reach Tezpur University

Tezpur can be reached both by roadways and airways. Tezpur is well connected via road to the other parts of Assam. From Guwahati, one can reach Tezpur in 3 hours 30 minutes by road (approx.205 km) via National Highway 37 (NH37). Flights are also available from Guwahati and Kolkata on some selected days of a week. One can reach Tezpur University from Tezpur by two roads i.e. either via NH37-Dolabari-Panchmile (8.5 km) or via NH37-Porua Chariali-Napaam (9 km).

Themes of the Workshop

Present status of Precision Agriculture and future strategy for Climate Change Mitigation with special reference to Indian Agriculture will be deliberated covering four specific areas:

- Land preparation operations
- Irrigation and water management
- Crop care activities
- Harvesting and post-harvest operations

Participation

The participation is open for PA interested scientists, teachers, policy makers, government officials, farmers and social workers. There is no registration fee for participation and local hospitality will be provided. Bus fare/rail fare may also be reimbursed to limited number of participants based on the availability of fund. Interested participants may send their willingness to the Workshop Coordinator (baruahdeben@gmail.com) using Registration form provided in this Brochure on or before March, 5, 2015.

Organization Committee

| | |
|---------------------|--|
| Chief Patron | Prof Mihir K Chaudhuri, Vice Chancellor, Tezpur University |
| Advisors | Prof Amarjyoti Choudhury, Pro Vice Chancellor, Tezpur University Prof Ashok Kumar, Dean, School of Sciences, Tezpur University Prof D K Bhattacharya, Dean, School of Engineering, Tezpur University Prof S Sarkar, Dean, School of Management Sciences, Tezpur University Prof P J Mahanta, Dean, School of Humanities & Social Sciences, Tezpur University Prof C L Mahanta, Dean, Research & Development, Tezpur University Dr Biren Das, Registrar, Tezpur University Mr. T K Barua, Chief Engineer, Department of Agriculture, Govt. of Assam Dr. P K Pathak, Associate Director of Research, AAU, Jorhat Dr. K N Debanjan, Head, Department of Agricultural Engineering, NERIST, Nirjuli, Arunachal Pradesh Dr. Manzul Hazarika, Associate Director, Geoinformatics Center (GIC), AIT, Bangkok |
| Chairman | Prof D Deka, Head, Department of Energy, Tezpur University |
| Coordinators | Prof D C Baruah, Professor, Department of Energy, Tezpur University Dr. Ganesh Bora, Assistant Professor and Interim Director, NSDU, USA |
| Members | Dr. Rupam Katak, Department of Energy, Tezpur University Dr. M K Hazarika, Department of FET, Tezpur University Dr. Samarendra Hazarika, ICAR-NEH Region, Shillong Dr. Pankaj Barua, Department of Agricultural Engineering, AAU, Jorhat Mr. Sadhan Mahapatra, Department of Energy, Tezpur University Dr. Pradip Bora, College of Post Graduate Studies, Central Agricultural University, Shillong Dr. Dipali Mazumdar, College of Post Graduate Studies, Central Agricultural University, Shillong Mr. P K Chodhury, Department of Energy, Tezpur University Dr. P Kaliita, Department of Energy, Tezpur University Dr. B K Kakati, Department of Energy, Tezpur University Dr. N Sarmah, Department of Energy, Tezpur University Mr. Arvind Kumar, ICAR-NEH Region, Shillong Mr. B Gogoi, Department of Energy, Tezpur University |

Registration form

| Sl No | Particulars |
|-------|--|
| 1. | Name: |
| 2. | Designation: |
| 3. | Organization: |
| 4. | Work experiences in Farming/Precision farming/Climate Change mitigation (Provide details): |
| 5. | Choice of sub-theme (refer the list provided in the Brochure) |
| 6. | Willingness to contribute as a participant (<i>Participants will be required to contribute as per their field/sub theme of Choice during the Workshop and therefore, if selected, it is expected to come prepared</i>) |
| 7. | TA required/Not Required |
| 8. | Recommendation from the Head of the Organization (Optional) |

Address for Communication

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