

# ICAR-IARI, ASSAM NEWSLETTER

Volume 2 Issue 4  
October-December, 2025

## CONTENTS

Highlights.....	2
Salient Research Achievements..	4
Education & Students' Activities.....	6
Extension & Capacity Building..	10
Happenings at IARI-Assam.....	16
Conferences, Seminars, Symposia & Workshops.....	20
Publications.....	24
Awards & Recognitions.....	26

### From the Director's Desk



It gives me great pleasure to present the October–December 2025 issue of the ICAR-IARI, Assam Newsletter, which captures a quarter of purposeful growth, institutional consolidation, and field-level impact in the North-Eastern region. The diverse activities featured herein reflect our unwavering commitment to advancing agriculture, livelihoods, and nutritional security through science-led interventions.

This quarter marked several important institutional milestones, including the successful conduct of the Mid-term Institute Research Council (IRC) meeting, the first-ever Departmental Promotion Committee (DPC) for IARI Assam, and strengthened engagement with state and national agencies. These developments are vital for reinforcing research quality, governance, and human resource development as the institute continues to evolve. A notable outcome was the signing of one MoU with a Farmer Producer Company (FPC), further strengthening our farmer-centric and partnership-driven approach.

Our outreach and capacity-building initiatives remained at the core of our mandate. During this quarter alone, 1,645 farmers—including women and rural youth—were trained through programmes on integrated farming systems, crop diversification, climate-resilient technologies, livestock and fisheries management, biofortified crops, value addition, livelihood diversification and sustainable practices. These efforts underscore our focus on translating research into tangible benefits at the grassroots level.

Education and student engagement also witnessed significant momentum with the launch of the first-ever RAWE programme, Deeksharambh 2025 induction activities, exposure visits, and skill-oriented diploma programmes, fostering experiential learning and holistic development. Complementing these were vibrant cultural, sports, and NSS activities that enriched campus life.

I am particularly proud of the research accomplishments of our scientists, who published 20 high-quality research papers during this period, alongside notable achievements in software development, biodiversity documentation, and region-specific studies across crops, livestock, fisheries, and natural resource management. These outputs reaffirm IARI Assam's growing stature as a hub of regionally relevant and globally meaningful agricultural research.

I place on record my sincere appreciation to our scientists, technical and administrative staff, students, farmers, collaborators, and stakeholders for their dedication and teamwork. With sustained efforts, strong partnerships, and a shared vision, I am confident that ICAR-IARI, Assam will continue to play a pivotal role in shaping a resilient, inclusive, and sustainable agricultural future for the North-East.

**Dr. Ch. Srinivasa Rao**

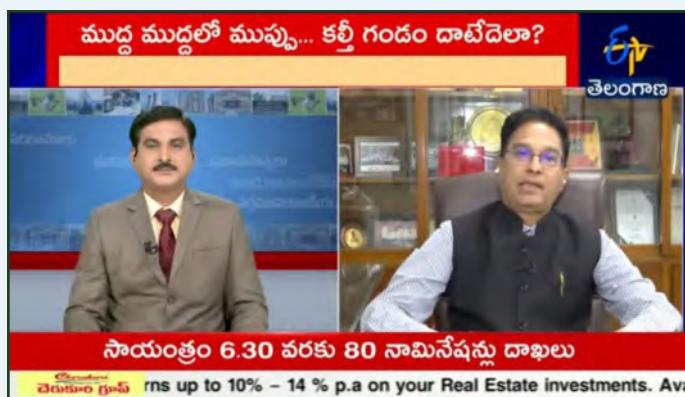
Director

ICAR-Indian Agricultural Research Institute, Assam

## HIGHLIGHTS

### Addressing Food Adulteration: IARI Director Advocates Robust Food Safety Systems on ETV

The issue of food adulteration and the need to strengthen food safety systems were highlighted on ETV's Pratidhvani programme on 21 October. The Dr. Ch. Srinivasa Rao, Hon'ble Director, ICAR-IARI, emphasized the critical role of research, innovation, and informed public participation in ensuring the availability of safe, pure, and nutritious food for all.



### First Departmental Promotion Committee Held for ICAR-IARI, Assam

The first-ever Departmental Promotion Committee (DPC) for ICAR-IARI, Assam was held on 12 December 2025 at IARI, New Delhi to review promotions of eligible scientists under the Career Assessment Scheme. Chaired by Dr. B. C. Deka and guided by Dr. Ch. Srinivasa Rao, the event marked a key milestone in strengthening the scientific workforce at IARI Assam.



### Strengthening of Institutional Linkages: IARI Assam Engages with State Officials

On 20 November 2025, ICAR-IARI, Assam officials met the Additional Chief Secretary (Land Revenue), Government of Assam, and the RKVY Nodal

Officer to discuss pending issues and explore future collaborations for strengthening research, extension, and capacity building.



### IARI Assam Launches Vermicompost Production Initiative

On 10 December 2025, ICAR-IARI Assam initiated a vermicompost production programme aimed at promoting organic nutrient management and sustainable farming practices. The initiative focuses on creating awareness among farmers and stakeholders about the benefits of vermicomposting for improving soil fertility, enhancing crop productivity, and supporting eco-friendly agriculture in the North-East region.



### MoU Signed between ICAR-IARI, Assam and Lachit Panchajanya LLP Dhemaji

A Memorandum of Understanding (MoU) was signed on 14 October 2025 between ICAR-IARI, Assam and Lachit Panchajanya LLP under the leadership of the Hon'ble Director, Dr. Ch. Srinivasa Rao, in the presence of



the Hon'ble Joint Director (Research), to collaborate on farmer capacity building, entrepreneurship promotion, and small-scale research including impact and socio-economic studies.

## Empowering Rural Entrepreneurship: FPC Launches Fruit and Vegetable Products

On 23 October 2025, Bordoloni Agro Fed Producer Company Ltd., Gogamukh, Assam, launched its first fruit and vegetable-based products under the guidance of ICAR-IARI Assam, reflecting the leadership of Dr. Ch. Srinivasa Rao. Following hands-on training on processing and preservation, the inaugural stall at the 3rd Mising Sports Carnival featured pineapple and Gol Nemu juices, ginger candy, aonla preserve, and lime pickles. The stall was inaugurated by Shri Rahul Suresh Javir, IAS, and Shri Paramananda Chayengia, with Dr. Amjad K. Balange and Dr. Alemwati Pongener representing IARI Assam and pledging continued technical and marketing support.



## Inauguration of Low-Cost Livestock and Agri-Processing Infrastructure at ICAR-IARI, Assam

On 9 December 2025, the Hon'ble Director, IARI Dr. Ch. Srinivasa Rao, inaugurated temporary low-cost livestock and agri-processing facilities at ICAR-IARI, Assam, including a bamboo-based poultry shed ( $\approx 400$



birds), a goat shed (25+5 capacity), a solar fish dryer, and a food processing laboratory. The infrastructure supports sustainable practices, skill development, and livelihood-oriented training in the region.

## Ensuring Safety, Quality, and Compliance: IARI Assam Food Processing Laboratory Secures FSSAI Registration

A major institutional milestone was the registration of the Food Processing Laboratory under FSSAI, significantly strengthening the institute's capacity in food safety and processing research. This certification ensures compliance with national food safety and hygiene standards, enhances the credibility of laboratory activities, and enables the development of safe, high-quality value-added products

## Aquaterra Takes Shape: Skill-Based Diploma in Freshwater Aquaculture Launched at IARI Assam

The One-Year Skill Enhancement Diploma in Freshwater Aquaculture and Fisheries Management was inaugurated on 14 October 2025 at ICAR-IARI, Assam, with Shri Rahul Suresh Javir, IAS, Deputy Commissioner, Dhemaji, as Chief Guest and Dr. Viswanathan Chinnusamy as Guest of Honour. The programme enrolled 18 students for hands-on skill training in aquaculture to promote self-employment. As part of the course, the wall magazine 'Aquaterra' was released by the Hon'ble Director, Dr. Ch. Srinivasa Rao, on 9 December 2025.



## Introduction of First Batch of Assam Hill Goats at the Institute

The first batch of Assam Hill Goats was received at ICAR-IARI, Assam on 29 November 2025 and housed in the newly constructed goat shed. The animals will be utilized for research on feeding, management, and rearing practices, contributing to the advancement of sustainable and region-specific livestock production systems.

## SALIENT RESEARCH ACHIEVEMENTS

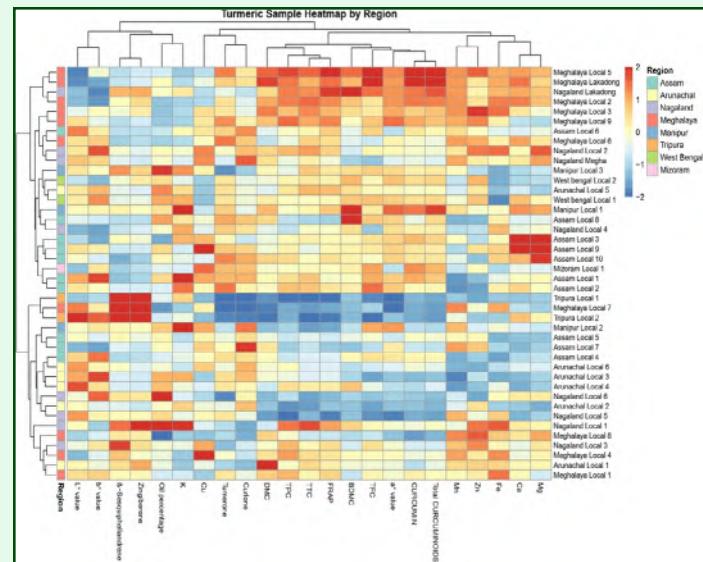
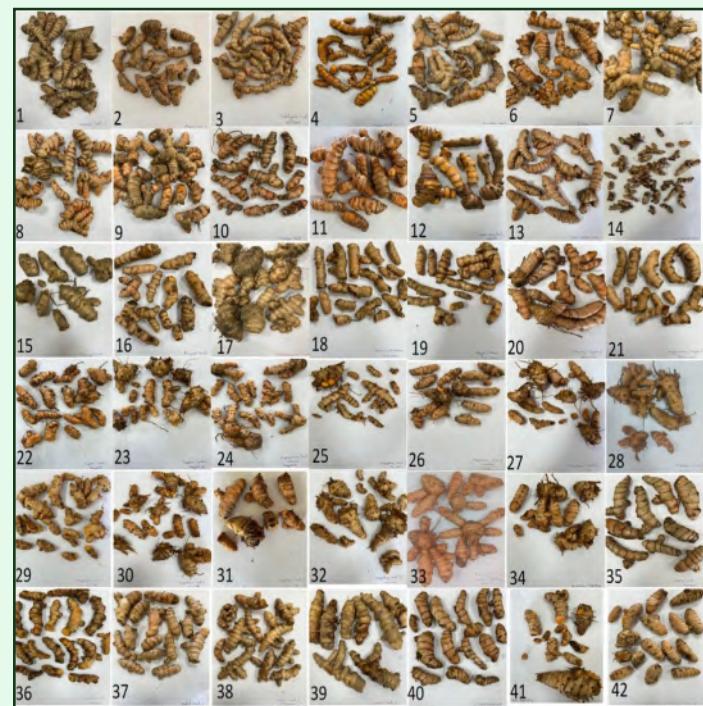
### Mid-term IRC Meeting of ICAR-IARI Assam

The Mid-term Institute Research Council (IRC) meeting of IARI Assam was held on 08 December 2025 under the chairmanship of Dr. Ch. Srinivasa Rao, Director, ICAR-IARI. Dr. A. K. Balange, Head (APF) served as Co-Chairman, while Dr. Arpan Bhowmik acted as Member Secretary. Heads of Divisions and scientists of IARI Assam participated in the meeting and presented updates on ongoing research projects. The Chairman appreciated the quality research efforts undertaken despite infrastructural constraints and emphasized strengthening region-specific research and collaborative linkages. Key priorities highlighted during the meeting included patent development, soil and biodiversity studies, diversification of cropping systems, preparation of policy and review papers, submission of RKVY proposals, establishment of weather station, and enhanced engagement with regional stakeholders [Organizer: PME cell, IARI Assam].



### Biochemical Diversity and Valorisation of North East Sub-Himalayan Turmeric Landraces

Forty-two indigenous turmeric landraces from Northeast India were chemoprofiled to identify trait-based valorization potential. Significant variability was observed in curcuminoids (0.42–5.69%), essential oils (1.45–8.92%), minerals, and antioxidant activity. Curcuminoid-rich genotypes were prominent in Meghalaya and Nagaland, while Manipur and Assam



landraces showed higher macro-element content. Antioxidant activity strongly correlated with phenolics and curcuminoids, and the  $a^*$  colour value emerged as a rapid quality indicator. Distinct chemotypes and trade-offs in oil composition were identified, highlighting elite genotypes for nutraceutical, industrial, and breeding applications.

### Catalogue of Indian Stathmopodidae (Lepidoptera: Gelechioidea)

The first comprehensive catalogue of Indian Stathmopodidae records 53 species across 10 genera and

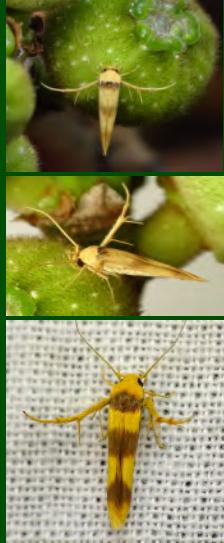
3 subfamilies, with details on their type localities, type depositories, distributions, host plants, and references to available illustrations. Stathmopodinae emerged as the most diverse subfamily, and Stathmopoda as the most species-rich genus with 31 species. The study revealed diverse feeding habits including herbivory, carnivory, and saprophagy, with herbivorous species associated with 20 plant families, predominantly Moraceae and Fabaceae. The findings underscore the significance of microlepidopteran diversity and host-insect interactions for biodiversity conservation.

 **Article** 

<https://doi.org/10.11646/zootaxa.5711.4.2>  
<http://zoobank.org/urn:lsid:zoobank.org:pub:1ACCCD77-5616-4C5F-9359-A4C8606502DF>

**A catalogue of Indian Stathmopodidae (Lepidoptera: Gelechioidea)**

KISHORE CHANDRA SAHOO  
 ICAR- Indian Agricultural Research Institute, Dirpa Chapor, Gogamukh, Assam 787033, India  
[kesahoo1996@gmail.com](mailto:kesahoo1996@gmail.com), <https://orcid.org/0009-0003-3749-756X>



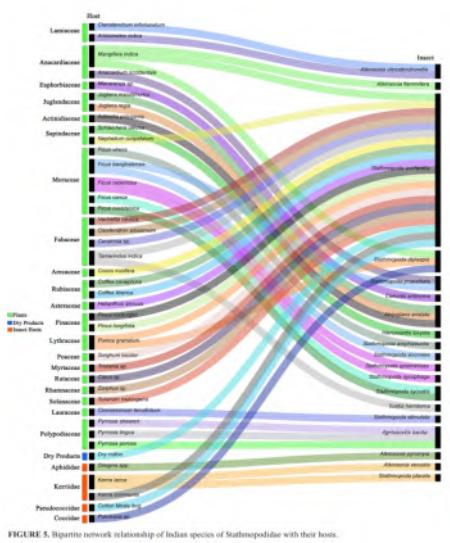
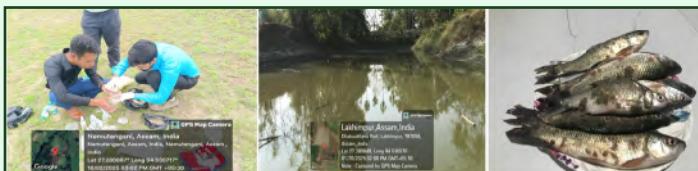


FIGURE 5. Bipartite network relationship of Indian species of Stathmopodidae with their hosts

## Fish Disease Surveillance in Lakhimpur and Dhemaji, Assam

Systematic surveys conducted in Lakhimpur and Dhemaji districts along the north bank of the Brahmaputra documented commonly occurring fish



**Sample Collection**



**Argulosis**

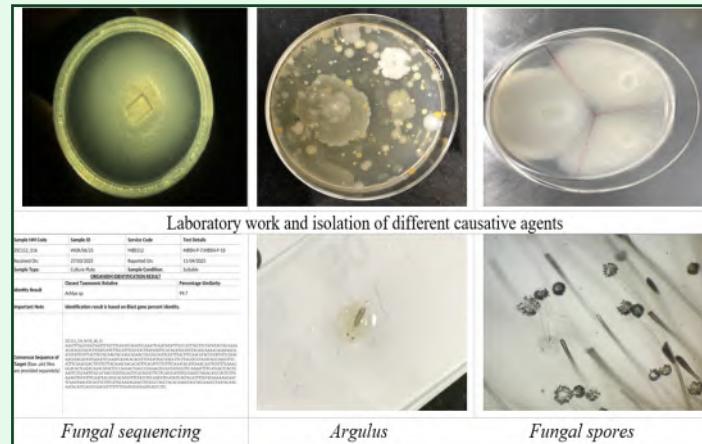


**Lernaeosis**



**Ulcer**

**Parasitic, Bacterial and Fungal fish diseases**



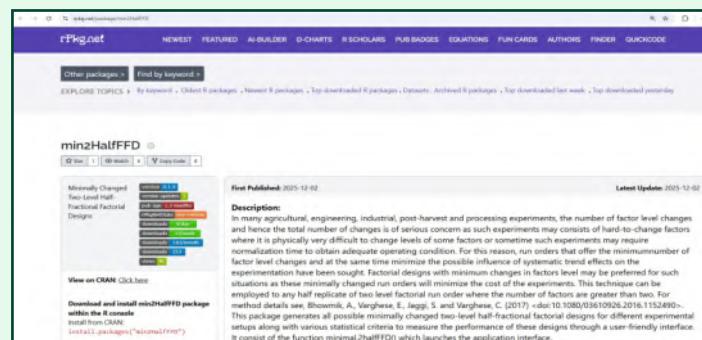
diseases from major fish markets and small- and large-scale farms. Diseased fish showed symptoms such as skin redness, ulceration, and fungal growth. Laboratory diagnosis at ICAR-IARI, Gogamukh processed 50 infected specimens, leading to the isolation of six distinct fungal and five bacterial pathogens, along with documentation of external parasites. Fungal isolates were molecularly identified through HiMedia. The study provides a valuable baseline database for fish disease management and strengthening aquaculture health in the region.

## min2HalfFFD: A Smart R Tool for Cost-Efficient Factorial Design

In experiments involving hard-to-change factors, minimizing factor level changes is crucial to reduce cost and improve efficiency. The R software min2HalfFFD (version 0.1.0) generates minimally changed run orders for two-level half-fractional factorial designs with more than two factors, while accounting for potential trend effects. The package evaluates designs using relevant statistical criteria and offers a user-friendly interface through the function `minimal.2halfFFD()`.

The software is available at: <https://cran.r-project.org/package=min2HalfFFD>

**Impact:** Total number of downloads from 02-12-2025 to till date is 253 with average number of downloads 37/weeks.



## EDUCATION AND STUDENTS' ACTIVITIES

### Motivational Talk on Academic Development

A motivational lecture was delivered on 10 October 2025 by Dr. S. K. Dubey, Emeritus Scientist, ICAR-CSSRI, Karnal, for second-year UG students, focusing on academic and professional development.



### IARI Assam Students Join National Agricultural Students' Sammelan

Students of ICAR-IARI, Assam participated in the online National Agricultural Students' Sammelan on 27 October 2025, organized by ICAR. The Hon'ble Minister of Agriculture & Farmers Welfare, Shri Shivraj Singh Chouhan, interacted with students from agricultural institutions across the country. [Coordinators: Dr. Amjad K. Balange, Dr. S. Manivannan, Dr. Arpan Bhowmik, Dr. P.K. Mishra, Dr. Subhra Shil, Dr. Bornalee Handique and Dr. Ansheef Ali T.P.]



### Deeksharambh 2025 Launched: Welcoming the New Batch at IARI Assam

The Deeksharambh 2025 Student Induction Programme for newly admitted B.Sc. (Hons.) Agriculture students was inaugurated on 28 November 2025 at the ICAR-IARI, Gogamukh. The programme began with a formal inauguration and orientation sessions highlighting academic structure, mentoring systems, and student welfare services. Faculty members emphasized holistic development, scientific curiosity, discipline, and

leadership, while interactive sessions provided insights into field exposure and extension-oriented learning. The event concluded with the distribution of welcome kits and active participation of students and faculty [Coordinator: Dr. S. Manivannan, Dr. Rahul Singh and Dr. Palmei Gaibimei].



### Learning Beyond Classrooms: Student Exposure Visits under Deeksharambh 2025-26

4 December 2025: Newly admitted students visited an innovative farmer's field, KVK and ZRS Lakhimpur, gaining first-hand exposure to field-level agriculture, research activities, and local market systems, followed by a social walk in Lakhimpur town. [Coordinators: Dr. Arpan Bhowmik, Dr. Prabhat Pramanik, Dr. Sumalatha Reddy and Dr. Raghavendra H. R.]

6 December 2025: Students visited the Mising Autonomous Council (MAC) Headquarters and its Skill Development Training Institute, learning about



governance, developmental programmes, and livelihood initiatives in agriculture and allied sectors. A visit to the Patkai Training Centre provided insights into skill-oriented courses. [Coordinators: Dr. Deepjyoti Baruah and Dr. Palmei Gaibimei]

7 December 2025: An educational tour to Majuli exposed students to its cultural heritage through visits to Kamlabari and Samaguri Satras, along with learning about mustard cultivation under ODOP and the role of inland water transport in regional logistics. [Coordinators: Dr. Bornalee Handique, Dr. Kishore Chandra Sahoo and Dr. Alemwati Pongener]

## Hands-on Learning: Students Explore Rubber Plantation

Second-year B.Sc. (Agriculture) students visited a rubber plantation near Gogamukh on 7 November 2025, gaining practical exposure to rubber tapping and sheet preparation, along with insights into horticultural practices through a farm visit. [Coordinators: Dr. A. Sumalatha, Dr. Raghavendra H R, Dr. Dibyendu Deb, and Dr. Alemwati Pongener].



## First RAWE Programme Launched at ICAR-IARI, Assam

ICAR-Indian Agricultural Research Institute, Assam has launched its first-ever Rural Agricultural Work Experience (RAWE) Programme for final-year B.Sc. (Hons.) Agriculture students to strengthen experiential and field-based learning. Guided by Dr. Ch. Srinivasa Rao, Director, ICAR-IARI, the programme comprises a one-week orientation starting on 8 September, followed by a seven-week village attachment in Lakhimpur district. Dr. S. Manivannan, UG Coordinator, and Dr. Lohit Kumar Baishya, Scientist-in-Charge, highlighted the importance of RAWE in developing professional competence and rural sensitivity among students. The initiative aims to produce skilled, socially responsive agri-graduates for

the agricultural sector. [Coordinators: Dr. Rahul Singh, Dr. Bornalee Handique and Mr. Bhagirath Das]

## Students' Field Exposure under RAWE Programme

KVK Dimapur, Nagaland: As part of the RAWE programme, IARI Assam students visited Krishi Vigyan Kendra, Dimapur on 12 November 2025 to gain practical exposure to extension and rural development activities. The visit included orientation on RAWE modules, interaction with KVK scientists, participation in a Swachhta Abhiyan at Sunito Village, awareness programmes on hygiene and sanitation, and demonstrations on improved linseed cultivation practices.



ZRS Lakhimpur, Assam: Final-year B.Sc. (Agriculture) students undertook institute attachment under RAWE at the Zonal Research Station, Lakhimpur on 24 November 2025, gaining hands-on experience in field research, extension activities, and rural agricultural practices.



## Cultivating Expertise: RAWE Plant Health Clinic for Students

From 15–28 December 2025, final-year B.Sc. (Hons.) Agriculture students participated in an intensive Plant Health Clinic at IARI Assam, gaining practical

experience in diagnosing crop health issues, pest and disease management, and advisory services for farmers. The programme included field visits across local farms to strengthen students' skills in sustainable crop management. [Coordinators: Mr. Akshay Kumar H. M, and Mr. Kishore Chandra Sahoo, Technical Assistance: Mr. Sushant Kumar, Mr. Dipanjan Panda, Mr. Kishan Singha Ray & Mr. Sanjay Kumar]



### IARI Assam Students participate at Agro-Biodiversity & Technology Fair

B.Sc. (Agri.) fourth-year students of ICAR-IARI, Assam during their RAWE programme actively participated in the Agro-Biodiversity & Technology Fair organized at the Zonal Research Station, North Lakhimpur on 1 December, 2025. The event provided a platform for students to explore and present innovative agricultural technologies, exchange ideas, and gain exposure to diverse biodiversity conservation practices and modern farming solutions.



### Exploring Hill Agriculture: Student Tour to Pasighat, Arunachal Pradesh

On 19–20 December 2025, 80 B.Sc. (Hons.) Agriculture students from IARI Assam visited Pasighat, Arunachal Pradesh, for practical exposure to modern agricultural and hill farming practices. The tour included CAU Pasighat's labs, orchards, and floriculture units, and students also engaged with local farmers to learn organic and hill farming techniques. [Coordinators: Dr. A. K. Srivastava, Dr. Sumalatha A. Reddy, Mr. Umakanta Dash,

Mr. Raghavendra H. R, Dr. Ansheef Ali]



### Diploma Students Explore Fisheries and Water Resource Management at NHPC

On 3 December 2025, 18 students of the Freshwater Aquaculture and Fisheries Management diploma visited NHPC, Gerukamukh, gaining practical insights into dam construction, fish diversity conservation, river ranching, and livelihood development in surrounding communities. The visit included a tour of a Mahseer hatchery in Arunachal Pradesh, showcasing hands-on operations in fish seed production and reservoir-based fisheries management. [Coordinators: Dr. Deepjyoti Baruah and Dr. A. K. Balange]



### Agritech Innovations Discussed at IARI Assam

On Agricultural Education Day 2025, ICAR-IARI Assam students and faculty attended an online lecture by Shri Hemendra Mathur on "Agritech as a Core Pillar of Agricultural Transformation." The session highlighted technology-driven innovations to boost productivity, sustainability, and profitability, with participants engaging actively to explore modern agritech integration in farming systems.



## Students Illuminate the Campus with Diwali Festivities

ICAR-IARI, Assam celebrated Diwali on 20 October 2025 with active participation of students on the institute campus. The programme was organized by the Students' Cultural Committee, Qala, and featured activities such as diya painting and deep prajwalan. Dr. Amjad K. Balange, Campus In-charge, graced the occasion as the Chief Guest and joined the students in the celebrations, fostering a spirit of cultural harmony and festivity across the campus.



## Field of Glory-2025: Annual Sports Meet Concludes at IARI Assam

The 2nd edition of IARI Assam's Annual Sports Meet, Field of Glory-2025, was held from 21-24 December 2025, with students from four houses competing in indoor and outdoor games. Purple House emerged as overall champions, followed by Green House. The closing ceremony, graced by Shri Rajendra Prasad, NHPC, highlighted the importance of sports for health, discipline, and personal growth. The event was organized by the Shaurya Sports Club under the guidance of Dr. Alemwati Pongener.



## ZESTORA 2025: Celebrating Culture, Innovation, and Youthful Talent at IARI Assam

On 29 December 2025, ZESTORA 2025, ICAR-IARI Assam's annual cultural and innovation festival, showcased student creativity and talent beyond academics. Highlights included Lafzon Ki Mehfil – a Shayari Mushaira, Shark Tank – Farm to Profit – an entrepreneurship challenge, and Dil Disco Visco Bole – a lively Western dance competition, reflecting a vibrant blend of culture, innovation, and youthful energy.



## NSS Activities Promote Social Responsibility at IARI Assam

UG and first-year B.Sc. (Hons.) Agriculture students actively participated in NSS activities on 10 October and 22 December 2025, engaging in community service to foster social responsibility, teamwork, and civic awareness. The programmes were coordinated by Dr. Ch. Jamkhokhai Mate, with support from Mr. Sanjay Kumar.



## Student Recognitions

Mr. Sankalp Sandilya received First prize in Poem recitation Competition organized by IARI- New Delhi on 07th October, 2025.

## EXTENSION AND CAPACITY BUILDING

### **Hands-on training programme on Preserve and Prosper: Developing Fruit Processing Business**

A two-day hands-on training on “Preserve and Prosper: Developing Fruit Processing Business” was organized at ICAR-IARI Assam on 14–15 October 2025 to build entrepreneurial and processing skills among local stakeholders, promoting livelihood diversification and nutritional security. 15 participants from Farmer Producer Companies and Self-Help Groups of Dhemaji district gained practical experience in preparing beverages, pickles, and candies, along with sessions on food licensing, regulatory compliance, and food safety. The programme was inaugurated by Shri Rahul Suresh Javir, IAS, with Dr. C. Vishwanathan as Guest of Honour. [Training director: Dr. Rachit Saxena; Coordinators: Dr. Alemwati Pongener, Dr. Dibyendu Deb, Dr. Raghavendra H R, Dr. Akkalareddy Sumalatha, and Dr. Subhra Shil].



### **Three-Day Hands-On Training on Nursery Raising of Winter Flower and Vegetable Crops**

ICAR-IARI Assam conducted a three-day hands-on training “Nursery Raising of Winter Flower and Vegetable Crops” from 27–29 October 2025 at Dirpai Chapor, Gogamukh, on nursery management for winter flowers and vegetables. Inaugurated by Dr. Amjad K. Balange, the programme included practical sessions on soil preparation, pest management, propagation,



poly-tunnel construction, and seedling marketing, with active participation from 15 women farmers and SHG members. [Coordinators: Dr. Akkalareddy Sumalatha, Mr. Raghavendra H.R, Dr. Alemwati Pongener, Dr. Subhra Shil, Mr. Akshay Kumar H.M., Mr. Kishore Chandra Sahoo]

### **Interaction-cum-Training Programme on Biofortified Rice for Nutritional Security in NEH Region**

On 3 November 2025, ICAR-IARI Assam, Gerua, organized a training on “Biofortified Rice Varieties” to promote awareness of nutrient-rich rice as a strategy to combat malnutrition in the NEH region. The programme included expert sessions on recent advancements in rice biofortification and emphasized the role of farmers in adopting biofortified varieties, with Sri Krishnakanta Bora, farmer representative as Guest of Honour. The event saw active participation from 73 farmers as well as scientists of the institute. [Coordinators: IARI Assam: Dr. Kanchan Saikia; CRRI: Dr. K. Chattopadhyay and Dr. Koushik Chakraborty]



### **Awareness and Training Programme on Scientific Livestock & Poultry Management**

On 4 November 2025, ICAR-IARI Assam organized an one-day training at Ujjalpur, North Lakhimpur, on “Scientific Management of Livestock and Poultry”. Over 60 farmers, including farm women and rural youth, along with B.Sc. fourth-year students, actively participated, gaining practical insights into animal nutrition, poultry



management, income-generating opportunities, and value addition. [Coordinators: Dr. Rahul Singh, Dr. Bornalee Handique, Dr. Bhagirath Das, Dr. Arpan Bhowmik, Dr. Azhaguraja M]

### Three-Day Training on Climate-Resilient Technologies for Sustainable Livelihoods

A three-day training on "Advances in Climatic Resilience Technologies" was held from 4–6 November 2025 at Rang Manch, Ujjalpur, North Lakhimpur, engaging 60 farmers from Ujjalpur and Junubasti villages. The programme covered climate-smart crop and livestock management, soil health, integrated farming, and water resources, concluding with distribution of agricultural inputs. It was inaugurated by Dr. U. R. Tamuly, with Dr. A. K. Balange and other dignitaries as Guests of Honour. [Coordinators: Dr. Rahul Singh, Dr. Bornalee Handique, Mr. Bhagirath Das]



### Field Day on Crop Diversification in Rice-Fallow

On 10 November 2025, ICAR-IARI Assam organized a field day on "Crop Diversification in Rice-Fallow" at Koupatani Village, Dhemaji, promoting mustard (PM-25) and lentil (L-4717) cultivation in rice-fallow areas. Seeds of mustard and lentil were distributed to the participants, who also learned improved agronomic practices, seed treatment, and natural



farming techniques using Beejamrit and Jeevamrit. The team visited potato and chilli fields, advising on mulching and crop management. [Coordinators: Dr. L. K. Baishya, Dr. Rahul Singh, Dr. Sunil Mandi, Dr. Arpan Bhowmik, Dr. P. K. Mishra, Mr. Umakanta Dash]

### One-Day Training on Scientific Cultivation of King Chilli, Mustard, and Intercropping

On 11 November 2025, ICAR-IARI Assam, in collaboration with Gramin Vikash Trust (GVT), organized a one-day training on the "Scientific cultivation of king chilli, mustard, and intercropping of potato and pumpkin", attended by 60 farmers and farmwomen from Dhemaji and Majuli. The programme was inaugurated by Dr. A. K. Balange, with a presentation by Mr. Dharani Payeng, highlighting collaborative initiatives. Technical sessions focused on improved cultivation practices, productivity enhancement, and sustainable farming. [Coordinators: Dr. Subhra Shil, Dr. Abhijith K. P., Dr. Ravi Bhusan Prasad]



### Skill Development Training on Fruit Processing for Tribal Youth at Mokokchung, Nagaland

On 15 November 2025, ICAR-IARI Assam organized a capacity-building training, "Rural Roots, Global Reach: Fruit Processing Opportunities for Tribal Youth," at Mokokchung village, Nagaland, in collaboration with MSKT. Thirty tribal youth participated, gaining hands-on experience in fruit processing, food safety, quality assessment, and marketing of value-added products. Vegetable seed kits of IARI-developed varieties were also distributed to 20 farmers to promote horticultural adoption. [Coordinators: Dr. Alemwati Pongener, Dr. Dibyendu Deb]



## Training Programme on Scientific Cultivation, Processing, and Marketing of Red Rice

On 18 November 2025, ICAR-IARI Assam organized a training on "Scientific Cultivation, Genetics, Processing, and Marketing of Red Rice" for 10 farmer representatives from Dol Agro Organic Producer Company, Dhemaji. Inaugurated by Dr. Amjad Balange in the presence of other dignitaries, the programme included expert lectures on red rice genetics, seed production, processing, and marketing, followed by a Farmer-Scientist interaction and certificate distribution. [Coordinators: Dr. Rachit Saxena, Dr. Alemwati Pongener, Dr. Palmei Gaibime, Dr. Abhijith K.P., Dr. Ravi Bhushan Prasad]



## Three Days Skill Development Training on Fish-Based Value-Added Products and Preservation at Arunachal Pradesh

From 22-24 November 2025, ICAR-IARI Assam, in collaboration with the Department of Fisheries, Changlang, organized a three-day "Skill Development on fish-based value-added products and fish preservation" at Khuchep-I village, Arunachal Pradesh, for 55 participants on fish-based value-added products and preservation. The programme featured demonstrations of ICAR-IARI-developed products like fish pickle, prawn pickle, fish bhujia, sticks, cutlets, and fish balls, along with



sessions on hygiene, packaging, labeling, and marketing. [Coordinators: Dr. Amjad K. Balange, Mr. Dauruhi Pde, Mr. Sushant Kumar, Mr. Jitender Singh Gaite, Dr. Deepjyoti Baruah; Collaborators Shri Nokjon Longri, Shri Dusu Nobin, Shri N. Kambaji]

## Training cum Field Demonstration on the operation of a potato planter conducted at Hubahi Village

ICAR-IARI Assam organized a one-day training and field demonstration on "potato planter operation" on 27 November, 2025 at Hubahi village, Dhemaji, engaging 57 farmers. The programme highlighted the benefits of mechanized planting, including labor reduction, efficiency, and improved crop establishment, with live demonstrations and interactive sessions for troubleshooting and maintenance. [Coordinators: Dr. Chethan C. R., Dr. Rahul Singh, Dr. Arpan Bhowmik, Dr. P. K. Mishra; Technical Assistance: Mr. Chandan Maji]



## Kisan Ghosti on Potato Cultivation at Dhemaji

On 28 November 2025, ICAR-IARI Assam organized a Kisan Ghosti on potato cultivation at Dhemaji, engaging 50 farmers. The programme focused on improved cultivation practices, productivity enhancement, and resource optimization, with interactive sessions allowing farmers to clarify queries and share field experiences. [Coordinators: Dr. Chethan C. R., Dr. Rahul Singh, Dr. Arpan Bhowmik, Dr. P. K. Mishra; Technical Assistance: Mr. Chandan Maji]



## Promotion of Winter Vegetable Cultivation in Majuli through Field Day

ICAR-IARI Assam organized a field day on "Popularizing Pusa Winter Vegetables" day at Ratanpur Miri Gaon, Majuli on 1 December, 2025, to promote profitable and climate-resilient winter vegetable cultivation in flood-prone areas. Around 40 farmers received seed kits of improved IARI varieties, including cabbage (Pusa Hybrid-81, Pusa Red Cabbage Hybrid-1), cauliflower (Pusa Snowball K-25), broccoli (Pusa Broccoli KTS-1), and radish (Pusa Himani). Scientists demonstrated best cultivation practices, emphasizing high-yielding, resilient varieties and resource-efficient techniques to enhance productivity and farmer income. [Coordinators: Dr. Alemwati Pongener, Dr. Raghavendra H. R., Dr. Sumalatha A., Dr. Dibyendu Deb]



## World Soil Day 2025 at ICAR-IARI Assam Engages Farmers for Sustainable Soil Management

Soil health and sustainable farming: ICAR-IARI, Assam observed World Soil Day 2025 on 5 December with an awareness programme on soil health and sustainable farming. The event was graced by the Chief Guest, Shri Debamoni Hazarika, SDO, Dhemaji. Farmer-scientist

interactions focused on soil fertility management, organic inputs, and eco-friendly practices, followed by distribution of soil health literature, seeds, nano urea, Trichoderma, and vermicompost. About 100 farmers participated. [Coordinators: Dr. Prabhat Pramanik, Dr. L. K. Baishya, Dr. Sunil Mandi, Mr. Bhagirath Das, Mr. Umakanta Dash, Dr. Sunny Arya]

**Healthy Soil, Healthy Future:** In collaboration with Gramin Vikas Trust (GVT), ICAR-IARI, Assam organized another World Soil Day programme on 5 December 2025 at the campus, graced by the Chief Guest, Shri Devmoni Hazarika, SDO, Dhemaji. Technical talks on soil testing, integrated nutrient management, and climate-resilient agriculture were followed by an interactive farmer-scientist session. The programme concluded with a collective pledge for soil conservation under the theme "Healthy Soil, Healthy Future," with participation of 35 farmers. [Coordinators: Dr. L. K. Baishya, Dr. Rahul Singh, Dr. P. K. Mishra, Dr. Chethan C. R., Dr. Arpan Bhowmik, Dr. Alemwati, Dr. Ch. Jamkhokai Mate; Technical Assistance: Mr. Chandan Maji]



## Field Day on Scientific Integrated Farming Systems to Boost Farmers' Income in Lotak

On 8 December 2025, a Field Day-cum-Training Programme on "Promotion of Scientific Integrated Farming System (IFS) Models" was organized at the farmland of progressive farmer Mr. Girija Prasad Doley at Lotak village, Assam. The programme was graced by Dr. Ch. Srinivasa Rao, Hon'ble Director, ICAR-IARI, as the Chief Guest and Mr. Badan Lahan, SDO, Dhemaji, as the Guest of Honour. Heads of Divisions of IARI Assam and Mr. Girija Prasad Doley were present as distinguished guests on the dais. The programme witnessed the participation of around 300 farmers from nearby areas. During the event, scientists highlighted the importance of Integrated Farming Systems, farm mechanization, and their role in enhancing farm income and sustainability. Dr. Ch. Srinivasa Rao emphasized the pivotal role of IARI Assam in supporting farmers of the North Eastern region through technology dissemination and capacity



building, while Mr. Badan Lahan briefed farmers on various government schemes. Small farm equipment was distributed to farmers to encourage adoption of improved practices. [Organizing Team: Dr. L. K. Baishya (Chairman), Dr. Sunil Mandi, Dr. Rahul Singh, Dr. Arpan Bhowmik, Dr. Chethan C. R., Dr. P. K. Mishra, Dr. Sunny Arya, Dr. Ch. Jamkokhai Mate; Technical Assistance: Mr. Chandan Maji and Mr. Dipanjan Panda]



### Kisan Ghosti on Scientific Integrated Farming Systems at Gogamukh

A Kisan Ghosti on Scientific Integrated Farming System (IFS) models was organized at Gogamukh on 8 December 2025, with the participation of 310 farmers.



The programme highlighted the importance of IFS, farm mechanization, and government support schemes for enhancing farm income and sustainability. [Coordinators: Dr. L. K. Baishya, Dr. Sunil Mandi, Dr. Rahul Singh, Dr. Arpan Bhowmik, Dr. Chethan C. R., Dr. P. K. Mishra, Dr. Sunny Arya, Dr. Ch. Jamkokhai Mate]

### Scientific Piggery Training for SHGs in Naharbari, Dhemaji

On 18 December 2025, a scientific piggery training programme was conducted at Naharbari village, Gogamukh, Dhemaji, for three Self-Help Groups (SHGs), focusing on scientific feeding, general pig management, biosecurity, and housing practices. The programme included interactive sessions where 30 female farmers, including SHG members and secretaries, gained practical

insights into improving pig health and productivity. A PPR vaccination drive for goats was also carried out, providing hands-on exposure to Fish Diploma students and demonstrating integrated livestock management practices. [Coordinators: Dr. A. K. Srivastava, Dr. Manish Pandey; Collaborator: Dr. Anil Pegu]



### Farmers' Training on Integrated Farming System Conducted at KVK-Barpeta

On 22 December 2025, a farmers' training programme on Integrated Farming System (IFS) was organized at KVK, Barpeta, Howly, Assam, with the participation of 53 farmers from Barpeta district. The programme highlighted the role of IFS in sustainable agriculture, income enhancement, and efficient use of farm resources. Technical sessions covered fish-based IFS, fish-rice integration, and livestock-based farming systems. The programme concluded with the distribution of participation certificates and raincoats, aiming to promote adoption of scientific and integrated farming practices under the NEH component of ICAR. [Coordinator: Dr. Kanchan Saikia]



### ICAR-IARI, Assam Celebrates Kisan Diwas with Focus on Sustainable Agriculture

ICAR-Indian Agricultural Research Institute (IARI), Assam celebrated Kisan Diwas on 23 December 2025 under the leadership of Dr. Ch. Srinivasa Rao, Director, IARI, with active participation of 110 farmers from across the region. A scientist-farmer interaction was the highlight, where six progressive farmers viz. Shri Sadananda Kalita, Shri Sidananda Pegu, Smt. Renuka

Deukata, Shri Girija Doley, Shri Pappu Sonowal, and Smt. Radhika Mili—shared their experiences and innovations, followed by expert interactions on crop production, soil health, pest management, and livelihood diversification. To promote organic and sustainable farming, Trichoderma (1 kg) and vermicompost (30 kg) were distributed to all participants. Farmers were also sensitized on Integrated Farming Systems, government schemes, Swachhta initiatives, and Gram Panchayat-related Acts, with active involvement of scientific, technical, and administrative staff, reflecting IARI Assam's strong commitment to farmer-centric extension and community engagement. [Programme Director: Dr. L. K. Baishya; Programme Coordinators: Dr. Arpan Bhowmik, Dr. Rahul Singh, Mr. Bhagirath Das, Dr. P. K. Mishra, Dr. Cheethan C. R., Dr. Sunny Arya, Dr. Sunil Mandi; Assistance: Mr. Kishan Singha Roy, Mr. Deepanjan Panda and Mr. Jitender Singh Gaite]



## Backyard Poultry Training Empowers Farmers at RRS, Gerua

On 23 December 2025, RRS, Gerua, ICAR-IARI Assam organized a one-day training on "Backyard Poultry Production" to promote scientific practices for sustainable livelihoods, income enhancement, and household nutrition. Experts highlighted poultry management, disease prevention, nutrition integration



with kitchen gardens, and available financial support, supported by hands-on demonstrations. A total of 50 farmers from Nalbari and Kamrup districts participated, and poultry medicines and vitamin supplements were distributed under the NEH component. [Coordinator: Dr. Kanchan Saikia]

## Training on Rice-Based Integrated Farming at RRS Gerua

A training programme on Rice-based integrated farming was held at RRS, ICAR-IARI Assam, Gerua on 30 December 2025, involving 43 farmers from Baksa, Nalbari, and Kamrup. The programme focused on paddy-fish culture, poultry integration, use of rice ecosystems for horticulture, and mushroom cultivation to enhance income and sustainability. Raincoats were distributed to all participants under the NEH component. [Coordinator: Dr. Kanchan Saikia]



## Farmer-Scientist Interaction on Goat Farming

A two-day Farmer-Scientist Interaction cum Input Distribution on goat farming was held on 30-31 December 2025 at ICAR-IARI, Assam under the NEH Programme, in collaboration with ICAR-IVRI, Izatnagar. The programme aimed at promoting scientific goat farming and enhancing women-led livelihoods. 33 rural women farmers from seven villages participated in technical sessions on management and health care, followed by distribution of Assam Hill goats. Dr. Nomal Deori, Veterinary Officer, Gogamukh, attended as Guest of Honour, and Dr. Anamika Gogoi, Circle Officer, Gogamukh, graced the programme as Chief Guest. [Coordinators: Dr. Hari Om Pandey (IVRI), Dr. Manish Pandey and Dr. A. K. Srivastava (ICAR-IARI Assam)]



## HAPPENINGS AT IARI-ASSAM

### Hon'ble Director Reviews Developmental and Academic Progress at IARI Assam

The Hon'ble Director, IARI, Dr. Ch. Srinivasa Rao, visited ICAR-IARI Assam during 7–9 December 2025 to review farm development, academic activities, and institutional progress. On 7 December, he inspected the farm section (Plot-2), reviewed land demarcation and ongoing field operations, and emphasized timely execution of farm development programmes, field trials, and continuous monitoring of fenced areas. He also interacted with local villagers, highlighting the importance of community participation in institute initiatives.

On the same day, the Hon'ble Director interacted



with B.Sc. and M.Sc. students to discuss academic support, student facilities, and address their concerns.

On 8 December 2025, a meeting on budget



utilization of IARI Assam was held under his chairmanship, with participation of all staff members, focusing on effective financial planning and optimal utilization of resources.



### IARI Assam Scientists Join All-ICAR Institutes Online Meeting with Secretary DARE & DG ICAR

On 8 December 2025, scientists from ICAR-IARI Assam participated in an interactive online meeting with Dr. M. L. Jat, Secretary DARE & DG ICAR, along with representatives from all ICAR institutes. The interactive session provided an opportunity to share ideas and perspectives aimed at strengthening ICAR's research, education, and extension initiatives across the country.

### Synergy in Action: Combined Board of Management of ICAR-IARI Meets

On 12 December 2025, the Combined Board of Management of ICAR-IARI, with representatives from New Delhi, Jharkhand, and Assam, held a strategic meeting to strengthen unified governance and collaboration. Discussions focused on advancing agricultural research, education, and extension, emphasizing regional priorities, institutional synergy, and innovation-driven approaches for sustainable productivity.



### Executive Committee Meeting of BAERC, Upper Assam Chapter

The Executive Committee meeting of the Bhartiya Agro-Economic Research Centre (BAERC), Upper Assam Chapter was held on 11 October 2025 at ICAR-IARI, Assam. Dr. S. K. Dubey, Vice President, BAERC, graced the occasion as the Chief Guest. The meeting yielded a strategic discussion related to organizational activities and future initiatives of the Chapter.



## NFDB Team Visits ICAR-IARI Gerua Campus for Collaborative Fisheries Initiatives

On 23 October 2025, a team from the National Fisheries Development Board (NFDB) visited ICAR-IARI's Gerua campus to explore collaboration on brood banks, portable fish hatcheries, and nurseries. The team surveyed potential sites and held discussions to strengthen joint fisheries development efforts.



## Vigilance Awareness Week 2025 Observed at IARI, Assam

As part of Vigilance Awareness Week 2025 (27 October – 2 November), Dr. Amjad K. Balange, Campus In-Charge, ICAR-IARI, Assam, administered the Integrity Pledge to all employees on 27 October 2025. The initiative reinforces the commitment of the institute and its staff to honesty, transparency, and ethical practices in all official functions.



## IARI-Assam Observes Rashtriya Ekta Diwas

ICAR-IARI Assam celebrated Rashtriya Ekta Diwas (National Unity Day) on 31 October 2025, commemorating Sardar Vallabhbhai Patel's birth anniversary. Over 110 participants, including scientists, staff, and students, joined the programme, which included a briefing on Sardar Patel's legacy, the Rashtriya Ekta Pledge, and a Unity Walk promoting slogans like "Unity in Diversity." Similar activities were held at the Gerua Regional Research Station, while B.Sc. (Agriculture) students under the RAWE programme

spread the message of unity in rural communities. The celebrations highlighted IARI Assam's commitment to national cohesion, inclusivity, and collective progress. [Coordinators: Dr. A.K. Srivastava, and Dr. P. K. Mishra]



## Celebration of Agricultural Education Day 2025 at ICAR-IARI, Assam

ICAR-IARI, Assam celebrated Agricultural Education Day 2025 on 3rd December under the visionary leadership of Dr. Ch. Srinivasa Rao, Director, ICAR-IARI, with active participation of faculty, staff, and B.Sc. (Hons.) Agriculture students. The programme began with Saraswati Vandana, the ICAR Song, and Lamp Lighting. The Chief Guest, Mrs. Jolly Das, Assistant Commissioner, Dhemaji, and other dignitaries—Dr. A. K. Balange, Dr. S. Manivannan, Dr. Rachit Saxena, and Dr. Arpan Bhowmik—highlighted the importance of agricultural education. Students shared their experiences and aspirations, followed by certificate distribution to meritorious students. The programme concluded with the National Anthem and informal interactions. [Coordinators: Dr. Rahul Singh and Dr. P. K. Mishra]



## Constitution Day Observed at IARI Assam

ICAR-IARI Assam observed Constitution Day with the administration of the Constitution Day Pledge by Dr. A. K. Balange, Campus In-Charge. Officials, staff, and students actively participated in the programme, reaffirming their commitment to uphold the values, ideals, and responsibilities enshrined in the Constitution

of India. [Coordinators: Dr. A.K. Srivastava, Arpan Bhowmik and Dr. P. K. Mishra]



### आईसीएआर-भारतीय कृषि अनुसंधान संस्थान, असम में तिमाही हिंदी कार्यशाला का आयोजन

सरकारी कामकाज में हिंदी के प्रभावी, सुचारू एवं गुणवत्तापूर्ण प्रयोग को बढ़ावा देने के उद्देश्य से 31 दिसंबर 2025 को आईसीएआर-भारतीय कृषि अनुसंधान संस्थान, असम में एक तिमाही हिंदी कार्यशाला का आयोजन किया गया। कार्यशाला के दौरान सरकारी कार्यों में हिंदी के प्रयोग से जुड़े व्यावहारिक पहलुओं पर चर्चा की गई। संस्थान के सभी अधिकारियों एवं कर्मचारियों ने सक्रिय रूप से भाग लिया। यह कार्यशाला आईएआरआई असम की हिंदी प्रकोष्ठ द्वारा समन्वित की गई।



### Janjatiya Gaurav Diwas 2025 Observed at ICAR-IARI Assam

Under the visionary guidance and leadership of Dr. Ch. Srinivasa Rao, Director, ICAR-Indian Agricultural Research Institute (IARI), ICAR-IARI Assam observed Janjatiya Gaurav Diwas 2025 from 1-15 November 2025 to commemorate the 150th birth anniversary of Bhagwan Birsa Munda, with activities focused on tribal heritage, indigenous knowledge, and inclusive agricultural development.

As part of Janjatiya Gaurav Varsh Pakhwada, an interaction-cum-input distribution programme was organized on 6 November 2025 at Lakhimpur, involving students and farmers. Dr. Uma Tamuli, Associate Dean, Lakhimpur College of Veterinary Sciences, graced the programme as Chief Guest and highlighted the importance of traditional tribal agricultural practices, followed by distribution of agricultural input kits. An exhibition of Geographical Indication (GI) products of Assam was organized, showcasing indigenous products and emphasizing preservation of traditional knowledge

and regional identity. A workshop involving members of various tribal communities was conducted, focusing on tribal cultural heritage, Indigenous Technical Knowledge (ITKs), biodiversity conservation, and their integration into agricultural research and development. ICAR-IARI Assam scientists visited the Mising Autonomous Council, Gogamukh, and interacted with Council members to strengthen institutional linkages and explore collaborative initiatives for sustainable agriculture and livelihood improvement of the Mising community. [Organizing Committee: Dr. Amjad K Balange (Chairman), Dr. Deepjyoti Baruah (Co-Chairman), Dr. Arpan Bhowmik, Dr. Rahul Singh, Dr. P.K. Mishra, Dr. Alemwati Pongener, Dr. M. B. Chaudhary, Dr. Saroj Kumar Singh, Dr. Amit Kumar Srivastava (Member Secretary)]



### Assam Agricultural University Students Visit IARI Assam

On 19 November 2025, 29 RAWE students from Assam Agricultural University, Jorhat visited ICAR-IARI Assam for an exposure programme. They learned about the institute's research activities, agricultural



systems, career opportunities, and extension methods, and explored laboratories, insect and fish repositories, and other research facilities. [Coordinators: IARI Assam: Dr. Arpan Bhowmik, Dr. Rahul Singh, Mr. Bhagirath Das; Technical Assistance: Mr. Chandan Maji; AAU: Mrs. Bibha Ozah]

## Umiam Hub Students Visit IARI Assam

On 18 December 2025, 22 B.Sc. Agriculture students from IARI Umiam Hub visited IARI Assam for hands-on exposure to campus facilities, labs, and research activities, along with guidance on M.Sc. preparation and agricultural entrepreneurship. [Coordinators: Dr. Arpan Bhowmik and Dr. Rahul Singh]



## Promotion of Agricultural Education through School Exposure Visits at ICAR-IARI Assam

On 7 November 2025, 53 students (18 boys, 35 girls) from PM SHRI Tarani Borbil High School visited ICAR-IARI, Assam to learn about agricultural research, technologies, and career opportunities. Scientists explained the role of agriculture in food security and rural development. [Coordinators: Dr. Rahul Singh, Dr. Bornalee Handique, Mr. Bhagirath Das and Dr. Arpan Bhowmik]



On the same day, 108 students (58 boys, 50 girls) from PM SHRI Ghilamara High School toured the institute's research divisions and demonstration units, gaining practical insights into sustainable farming and innovations. Scientists highlighted agriculture's impact on environment and livelihoods. [Coordinators: Dr. Rahul Singh, Dr. Bornalee Handique, Mr. Bhagirath Das and Dr. Arpan Bhowmik]

On 22 December 2025, 42 Class XI Science students (23 boys, 19 girls) from Christ King Higher Secondary School visited the institute, exploring research divisions, modern farming, and laboratory practices

to understand agricultural applications and career opportunities. [Coordinators: Dr. Arpan Bhowmik, Dr. Rahul Singh, Dr. Bornalee Handique, Mr. Kishore Chandra Sahoo]



## Inclusive Learning for Divyang Students at IARI Assam

On 16 December 2025, 30 Divyang students from Samagra Shiksha Assam, Lakhimpur, visited ICAR-IARI, Assam for an educational exposure programme. The visit provided hands-on experience in agricultural science, research, and career opportunities, fostering curiosity, confidence, and inclusive learning. [Coordinators: Dr. Arpan Bhowmik, Dr. Rahul Singh, Dr. Bornalee Handique, Dr. Amjad Balange and Mr. Saroj Singh]



## Visit to RRS Gerua Centre

On 20 November 2025, Dr. A. K. Balange and Mr. Saroj Kumar Singh visited RRS Gerua to review ongoing research and operational activities. The visit included interactive discussions with RRS staff, led by Dr. Kanchan Saikia, to strengthen research and extension initiatives.

## Cleanliness and Swachhta Initiatives

### Special Campaign 5.0 on Swachhta: Cleanliness Drives at IARI Assam

Under Special Campaign 5.0 on Swachhta, ICAR-IARI Assam organized cleanliness and awareness activities from 2–31 October 2025 at the campus, Mohori Camp, and Gogamukh railway station, involving staff and local residents. Dustbins, brooms, and caps were distributed to support sustained hygiene and community participation. As part of the RAWE programme, B.Sc. (Agriculture) students conducted a Swachhta



drive at Ujjalpur village, North Lakhimpur, cleaning surroundings and promoting hygiene awareness, strengthening community engagement and leadership among participants. [Coordinators: Mr. Jitender Singh Gaite (Nodal Officer, Swachhta), Dr. Arpan Bhowmik, Dr. Rahul Singh and Dr. Amjad Balange]

### Swachhta Pakhwada at ICAR-IARI Assam

ICAR-IARI Assam observed Swachhta Pakhwada from 16 to 31 December 2025 with pledge-taking, awareness programmes, and waste management activities. Cleanliness drives, record weeding, plantation, plastic waste reduction, and community shramdaan were undertaken across the campus and nearby villages. Farmer-centric activities, Swachhta-linked Kisan Diwas programmes, rallies, and media outreach marked the later phase, reinforcing commitment to cleanliness, sustainability, and community participation. [Coordinators: Mr. Jitender Singh Gaite (Nodal Officer, Swachhta), Dr. Arpan Bhowmik and Dr. Amjad Balange]

## Glimpses of Institutional Meetings



## CONFERENCES, SEMINARS, SYMPOSIA & WORKSHOPS

### Participation in Training/Workshop/Conference

Sl No	Title	Mode	Organizer/Venue	Date & Duration
1	Global Research Initiatives for Sustainable Agriculture & Allied Sciences (GRISAAS-2025).  <b>Participant: Subhra Shil</b>	Offline	MPUAT, Udaipur, Rajasthan	<b>Date:</b> 5 October – 7 October, 2025 <b>Duration:</b> 3 Days
2	National Symposium on Technological Advancements: Emerging Trends in Entomology (ESI-ETE-2025).  <b>Participant: Kishore Chandra Sahoo</b>	Offline	Sher-e-Kashmir University of Agricultural Sciences & Technology of Kashmir, Shalimar Campus, Srinagar	<b>Date:</b> 8 October – 10 October, 2025 <b>Duration:</b> 3 Days

3	Online training on Recent Advances to Alleviate Farm Animal Welfare Issues for Enhancing Productivity in Intensive Farming Systems.  <b>Participant: Azhaguraja M</b>	Online	GADVASU, Ludhiana.	<b>Date:</b> 4 October – 10 October, 2025  <b>Duration:</b> 7 Days
4	online course on "Introduction One Health For India"  <b>Participant: Dr. A.K. Srivastava</b>	Online	FAO Virtual Learning Centers (VLCs)	<b>Date:</b> 24 September to 24 October, 2025.  <b>Duration:</b> one Month
5	Advances in Climate-conscious Crop Science: Genetics, Genomics and Breeding.  <b>Participant: Abhijith K. P.</b>	Offline	University of Agricultural Sciences, Bangalore.	<b>Date:</b> 31 October – 2 November, 2025  <b>Duration:</b> 3 Days
6	The 9 <sup>th</sup> International Conference on "Advances in Agricultural, Biological and Biodiversity Conservation for Sustainable Development (ABCD-2025)",  <b>Participant: Ch. Jamkhokai Mate</b>	Online	University of Mysore.	<b>Date:</b> 13-15 November, 2025  <b>Duration:</b> 3 Days
7	Training on e-Office FFNS Implementation  <b>Participant: Arpan Bhowmik, Saroj Kumar Singh, Dev Plasiya, Dibakar Khan and Chandan Maji</b>	Online	ICAR	<b>Date:</b> 14 November, 2025  <b>Duration:</b> 1 Day
8	89 <sup>th</sup> Annual Convention of Indian Society of Soil Science.  <b>Participant: L.K. Baishya</b>	Offline	TNAU, Coimbatore	<b>Date:</b> 18 November – 21 November, 2025  <b>Duration:</b> 4 Days
9	The pursuit for sustainable hill farming: Innovations for profitability and ecological balance to ensure a future livelihood (PASEL- 2025).  <b>Participants: M. B. Chaudhary, Bornalee Handique, Manish Pandey, Chethan C. R., Ravi Bhushan Prasad, A. K. Srivastava, Ch. Jamkhokai Mate, Palmei Gaibimei</b>	Offline	ICAR Research Complex for NEH Region, Tripura Centre, Lembucherra, Tripura.	<b>Date:</b> 20 November – 21 November, 2025  <b>Duration:</b> 2 Days
10	International Conference on Climate silent Livestock Production: Emerging Concepts and Technologies for Sustenance.  <b>Participant: Azhaguraja M</b>	Offline	ICAR-National Institute of Animal Nutrition & Physiology (NIANP), Bengaluru.	<b>Date:</b> 23 November – 24 November, 2025  <b>Duration:</b> 2 Days
11	Rethinking social ecology in a digital landscape  <b>Participant: Rahul Singh</b>	Offline	Siksha 'O' Anusandhan (Deemed to be University), Bhubaneswar, Odisha	<b>Date:</b> 24 November – 26 November, 2025  <b>Duration:</b> 3 Days
12	International Agronomy Congress on "Re-envisioning Agronomy for Smart Agri-food Systems and Environmental Stewardship".  <b>Participant: L.K. Baishya</b>	Offline	National Agricultural Science Complex (NASC), New Delhi	<b>Date:</b> 24 November – 26 November, 2025  <b>Duration:</b> 3 Days

13	59th Annual Convention on Engineering Innovations for Agriculture 5.0. <b>Participant: S. Manivannan</b>	Offline	ICAR-CIAE, Bhopal, MP.	<b>Date:</b> 10 December – 12 December, 2025 <b>Duration:</b> 3 Days
14	Online Training cum Workshop for Implementation of Payroll on the SAMARTH Portal <b>Participant: Jitender Singh Gaite</b>	Online	ICAR	<b>Date:</b> 19 December, 2025 <b>Duration:</b> 1 Day
15	International Conference on “Sustainable Innovation in Agriculture, Veterinary and Allied sciences (SIAVAS-2025) <b>Participant: Bornalee Handique</b>	Online	University of Agricultural Sciences (UAS) Raichur & National Agriculture Development Cooperative Ltd. (NADCL) Baramulla	<b>Date:</b> 29– 31 December, 2025 <b>Duration:</b> 3 Days
16	International online non-credit course on Animal Behaviour and Welfare <b>Participant: S. Manivannan</b>	Online	The course was offered by The University of Edinburgh through coursera platform.	<b>Date of Completion:</b> 13 October, 2025

### Paper Presented in Conferences/Seminars/Symposium

- Oral Presentation of the paper entitled “Assessment of Tomato varieties for Growth, Yield Potential and Resistance to major Diseases under Tripura Climatic Condition”, in the “Global Research Initiatives for Sustainable Agriculture & Allied Sciences (GRISAAS-2025)” at MPUAT, Udaipur, Rajasthan during 05-07 October, 2025 (Subhra Shil).
- Oral Presentation of the paper entitled “Diversity of Stathmopodidae (Lepidoptera: Gelechioidea) in India”, in the “National Symposium on Technological Advancements: Emerging Trends in Entomology (ESI-ETE-2025)” at Sher-e-Kashmir University of Agricultural Sciences & Technology of Kashmir, Shalimar Campus, Srinagar during 08-09 October, 2025 (Kishore Chandra Sahoo).
- Oral presentation of papers entitled “PbAT – Plant Breeding Analytical Tools: An R/Shiny Platform for Integrated Plant Breeding Data Analysis” in “Advances in Climate-conscious Crop Science: Genetics, Genomics and Breeding” at University of Agricultural Sciences, Bangalore during 31 October-02 November, 2025 (Abhijith K. P).
- Following Papers were presented as oral presentation in “The pursuit for sustainable hill farming: Innovations for profitability and ecological balance to ensure a future livelihood (PASEL- 2025)” at ICAR Research Complex for NEH Region, Tripura Centre, Lembucherra, Tripura during 20-21 November, 2025
  - “Process Development for Individual Quick Freezing (IQF) of Paneer using Liquid Nitrogen and Characterisation of IQF Paneer” (M.B. Chaudhary).
  - “Management Practices and Nutritional Evaluation of Locally Available Feed Resources for Assam Hill Goats (Bornalee Handique).
  - “Assessment of Animal Husbandry Practices and Risk of Livestock Disease Outbreaks and Zoonotic Disease Transmission in the Mising Tribe of Dhemaji District, Assam” (Manish Pandey).
  - “Ergo-refined knapsack spraying system: a futuristic operator friendly option for hill agriculture” (Chethan C. R.).
  - “Innovative Mitigation Strategies to Combat Heat Stress in Wheat (Triticum aestivum L.) under Changing Climatic Conditions” (Ravi Bhushan Prasad).
  - “Relationship between Udder and Leg Hygiene Scores and Subclinical Mastitis in Indigenous Kankrej Cows” (A. K. Srivastava).
  - “Utilization of low low-cost hydrogel obtained from natural gum for environmental remediation” (Ch.

Jamkhokai Mate).

- “Protein Extraction from Guar Meal using Ultrasound and its Characterization” (Palmei Gaibimei).
- Oral presentation of papers entitled “Whole-genome sequencing reveals selective sweeps associated with tropical resilience in Guinea fowl” in “International Conference on Climate Resilient Livestock Production: Emerging Concepts and Technologies for Sustenance” at ICAR-National Institute of Animal Nutrition & Physiology (NIANP), Bengaluru. during 23-24 November, 2025 (Azhaguraja M).
- Oral presentation of papers entitled “Techno-Admino-Bureaucratic Collaboration in Agriculture: A Social Ecology Perspective” in “Rethinking social ecology in a digital landscape 2025” at Siksha ‘O’ Anusandhan (Deemed to be University), Bhubaneswar, Odisha during 24-26 November, 2025 (Rahul Singh).
- Oral presentation of papers entitled “Precision nitrogen management in rice (*Oryza sativa L*)” in the “International Agronomy Congress on “Re-envisioning Agronomy for Smart Agri-food Systems and Environmental Stewardship” at National Agricultural Science Complex (NASC) New Delhi during 24-26 November, 2025 (L.K. Baishya).
- Oral presentation of papers entitled “Charing a technical session on Soil and Water Conservation Engineering” in “59th Annual Convention on Engineering Innovations for Agriculture 5.0” at ICAR-CIAE, Bhopal, M.P. during 10-12 December, 2025 (S. Manivannan).
- Oral presentation for the paper entitled Effect of seaweed supplementation on nutrient utilization, growth performance and urinary purine derivatives in crossbreed cows in the the International Conference on “Sustainable Innovation in Agriculture, Veterinary and Allied sciences (SIAVAS-2025) jointly organized by University of Agriculture Sciences (UAS), Raichur, Karnataka and National Agriculture development Cooperative Ltd. (NADCL), baramulla, J&K held at UAS, Raichur, Karnataka, India from 29th to 31st December, 2025 (Bornalee Handique)

## PUBLICATIONS

### Research Papers

Sl No	Detail of the Paper	NAAS Rating 2025	Impact factor
1.	Singh R., Chethan C.R., Bhaisya L.K., Das B., Mishra, P.K., Raghavendra H.R., Ch. Jamkhokai Mate, Srivastava, A.K., Shil, S. and Gaibimei, P. 2025. Incubating Rural Innovation: Agri-Startups and the Shifting Paradigms of Indian Agriculture. <i>Agricultural mechanization in Asia Africa and Latin America</i> , 56(7): 21107-21115. DOI: <a href="https://doi.org/10.13596/Ama.28.08.2025.01">07.13596/Ama.28.08.2025.01</a>	6.4	0.4
2	Paul, P. R., Das, R., Shil, S., Jha, K. K., Biswas, P. K., Chakraborty, A., Dey, J. K., & Koreti, K. 2025. Assessing stakeholder dynamics, livelihood security and vulnerability in live fish supply chain: Study from Tripura, India. <i>Discover Sustainability</i> , 6, 1057. <a href="https://doi.org/10.1007/s43621-025-01952-w">https://doi.org/10.1007/s43621-025-01952-w</a>	-	3.0
3	Sahoo, K. C. 2025. A catalogue of Indian Stathmopodidae (Lepidoptera: Gelechioidea). <i>Zootaxa</i> , 5711(4), 482-504. <a href="https://doi.org/10.11646/zootaxa.5711.4.2">https://doi.org/10.11646/zootaxa.5711.4.2</a>	6.8	0.8
4	Ali, A., Anees, K., Verma, V. K., & Saxena, R. 2025. Trait-led valorization of Northeastern Sub-Himalayan Indian turmeric landraces: Curcuminoids, essential oil, minerals, colour metrics, and antioxidant capacity for nutraceutical and industrial uses. <i>Industrial Crops and Products</i> , 236, 122086. <a href="https://doi.org/10.1016/j.indcrop.2025.122086">https://doi.org/10.1016/j.indcrop.2025.122086</a>	12.60	6.2

5	Shil S., Raj A., Bhardwaj A., Dash U., Maurya L., Ashwath MN., Mankur MK., Kumar V. 2025. A comprehensive analysis of silvipastoral potential in indian agroforestry landscapes. <i>Small- scale forestry</i> 24(3):31	7.4	1.4
6	Kumar S, Kumar P, Dhar B, Kumar B, Dar ZA, Abhijith KP, D. S, Tirkey AE, K. R. Y, Singh P, Das AK, Pandey PK, Kumar PR, Singh KK and Nath V. 2025. Multi-environment evaluation of dual-purpose baby corn hybrids for yield stability and forage biomass in rainfed agro-ecological systems. <i>Front. Sustain. Food Syst.</i> 9:1680866. doi: <a href="https://doi.org/10.3389/fsufs.2025.1680866">10.3389/fsufs.2025.1680866</a>	9.7	3.1
7	Das, R., Jha, K. K., Biswas, P. K., Dey, J. K., Chakraborty, A., Shil, S., & Koul, B. 2025. Evaluating technology adoption gaps and economic implications in horticultural crop cultivation among farmers in Tripura, India. Proceedings of the Indian National Science Academy. <a href="https://doi.org/10.1007/s43538-025-00590-0">https://doi.org/10.1007/s43538-025-00590-0</a>	7.22	1.22
8	Chaudhary M.B., Rao, K.J., Sindhav R., Bihola A., Bumbadiya M.R., Prajapati R J., Solanki A.K., Shaikh A. 2025. Influence of Packaging Materials on the Quality and Shelf Life of Mohanthal During Storage. <i>Scientific Reports</i> . <a href="https://doi.org/10.1038/s41598-025-27453-4">https://doi.org/10.1038/s41598-025-27453-4</a>	10.6	3.9
9	Ch. Jamkhokai Mate, Gaibimei Palmei, Sunil Mandi , Arpan Bhowmik, Nirgaman Bage, Chethan CR, Sunny Arya, L.K. Baishya, Rahul Singh8 , Ningthoujam Manda Devi. 2025. "Design and Validation of Biodegradable LowCost Adsorbent from Jhingan Gum for Remediation of Anionic Dye" <i>International Journal for Multidisciplinary Research, 7(6)</i> ,	-	-
10	Ch. Jamkhokai Mate, Lohit Kumar Baishya,Kartick Prasad Dey, Nirgaman Bage, Chethan CR, Gaibimei Palmei, Ningthoujam Manda Devi, Sunil Mandi,Rahul Singh, Sunny Arya, Mathew Seikholen Baite, and Letngam Touthang. 2025. Cheap and Efficient Prosopis Gum-Based Hydrogel for Sustained Boron and Zinc Release in Water and Soil. <i>Journal of Scientific Research and Reports, 31 (12)</i> , 1093-1111.	5.17	-
11	Sindhu, P. M., Sethi, S., Chandrashekhar, V. M., Kumar, C., Joshi, A., Bhowmik, A., Kalakknavar, A. B., Lekshmi, S. G., Gunjam, P. and Saurabh, A. 2025. Comprehensive assessment of the hepatoprotective activity of grape pomace against paracetamol-induced liver damage in Swiss albino mice. <i>Journal of Food Measurement and Characterization</i> . <a href="https://doi.org/10.1007/s11694-025-03900-8">https://doi.org/10.1007/s11694-025-03900-8</a>	8.90	3.3
12	Rajamanickam, K., Sahu, S., Azhaguraja, M., Pasuvalingam, V., Vijayakumar, P., Selvan, A. S., and Ayyasamy, E. 2025. Functional Resilience of Kangayam Cattle under Thermal Stress: Insights into Cellular and Immune Adaptations. <i>Veterinary Immunology and Immunopathology</i> . <a href="https://doi.org/10.1016/j.vetimm.2025.111047">https://doi.org/10.1016/j.vetimm.2025.111047</a>	7.4	1.4
13	Verma, S., Bhowmik, Arpan*, Varghese, E., Jaggi, S., Varghese, C. and Datta, A. 2025. On the construction of trend free constant block sum PBIB designs. <i>Communications in Statistics-Simulation and Computation</i> . 54(10), 4155-4169.	6.80	0.8
14	Lekshmi, S. G., Sethi, S., Asrey, R., Singh, D., Nagaraja, A., Kumar, R., Singh, K. P., Sindhu, P. M., Singh, A. K. and Raghavendra, H. R. 2025. Active edible coatings with plant extracts rich in phenolic compounds to enhance guava storage quality by boosting defense against postharvest fungi. <i>Journal of Food Measurement and Characterization</i> . <a href="https://doi.org/10.1007/s11694-025-03842-1">https://doi.org/10.1007/s11694-025-03842-1</a>	8.9	3.3

15	Jain, R., Hiremarth, V.M., Raghavendra, H.R., Kumar, D.L., Madhavi, K., Vamsi, M., Tiwari, A. K., Singh, B., Kumar, N. M. and Pooja, A. 2025. Preservation of freshness in flowers: A review of post-harvest challenges and solutions for traditional flowers. <i>Indian Journal of Agricultural Sciences</i> , 95(10), 1147-1155. <a href="https://doi.org/10.56093/ijas.v95i10.156841">https://doi.org/10.56093/ijas.v95i10.156841</a>	6.3	0.7
16	Sreekanth, D., Pawar, D.V., Mahesh, S., Chethan, C.R., Sondhia, S., Singh, P.K., Mishra, J.S., Mukkamula, N., Kumar, B.K. and Basavaraj, P.S. 2025. Elucidating the interactive effects of drought, weeds, and herbicides on the physiological, biochemical, and yield characteristics of rice. <i>Plant and Soil</i> , 511:163-187. <a href="https://doi.org/10.1007/s11104-024-06979-y">https://doi.org/10.1007/s11104-024-06979-y</a>	9.9	4.1
17	Chethan, C.R., Baishya, L. K., Shrivastava, A.K., Singh, R., Mishra, P.K., Bhowmik, A., Manjunath, K., Sreekanth, D., Kumar, S.P., Nare, B., Mate, Ch. J., Gaibimei, P. and Machanuru, R. 2025. A sensor-based novel potato planter-cum pre-emergence (PE) applicator for cut tuber planting and herbicide application for higher tuber production. Available at SSRN: <a href="https://ssrn.com/abstract=5732801">https://ssrn.com/abstract=5732801</a> or <a href="http://dx.doi.org/10.2139/ssrn.5732801">http://dx.doi.org/10.2139/ssrn.5732801</a>	-	-
18	Sreekanth, D., Pawar, D.V., Basavaraj, P.S. Kumar, R., Mahesh, S., Chethan, C.R., Jamaludheen, A., Singh, P.K. and Mishra, J.S. 2025. Interactive effects of drought and weeds on greengram: Impacts on physiological, biochemical and yield traits. <i>Scientific Reports</i> , 15:44379. <a href="https://doi.org/10.1038/s41598-025-28123-1">https://doi.org/10.1038/s41598-025-28123-1</a>	10.6	3.9
19	Sreekanth, D., Pawar, D.V., Sahadeo, I.K., Kumar, R., Basavaraj, P.S., Chethan, C.R., Naidu, V.S.G.R., Sondhia, S., Singh, P.K. and Mishra, J.S. 2025. Advancements in CRISPR/Cas technology for generating herbicide tolerant crops: A comprehensive review. <i>Journal of plant biochemistry and biotechnology</i> . <a href="https://doi.org/10.1007/s13562-025-00984-7">https://doi.org/10.1007/s13562-025-00984-7</a>	7.6	1.9
20	Patel D. A. and Srivastava A. K. 2025. Influence of Parity, Lactation Stage, Udder and Teat Morphology on Milk Yield and Composition of Kankrej Cows under Organized Farm Condition. <i>Uttar Pradesh Journal of Zoology</i> , 46 (24), 219-228. <a href="https://doi.org/10.56557/upjz/2025/v46i24">https://doi.org/10.56557/upjz/2025/v46i24</a>	5.24	-

## Book Chapters

- Anees, K., & Ali, A. (2025). Phytochemistry of turmeric. In P. Duraipandiyan, A. Soundararajan, & C. Kole (Eds.), *The turmeric genome* (1st ed., pp. 1-27). CRC Press. ISBN: 9781041108023

## Reference Manual

- S. Arya, S. Mandi, L.K. Baishya, A. Bhowmik (2025); *Practical Manual on Agrometeorology*, IARI Assam Publication. IARI-A/RM/2025/05.

## e-Publication

- Sahoo, K. C., Akshay Kumar, H. M., & Dash, U. (2025). Notes on the male genitalia of *Heterocnephes lymphatalis* (Swinhoe, 1889) (Lepidoptera: Crambidae). Specimen, 57. <https://doi.org/10.56222/28166531.2025.57>

## Popular Articles

- Chaudhary, M. B., Handique, B., Pde D. U. R., Balange, A. K. & Baruah, D. (2025). Seaweed Supplementation in Dairy Cattle: Implications for Methane Mitigation, Milk Yield and Nutritional Quality. *Scientia Review*, 1(6), 40-42.
- Chaudhary, M. B., Handique, B., Pde D. U. R., Srivastava, A. K. & Baruah, D. (2025). Scientific Guidelines to Increase

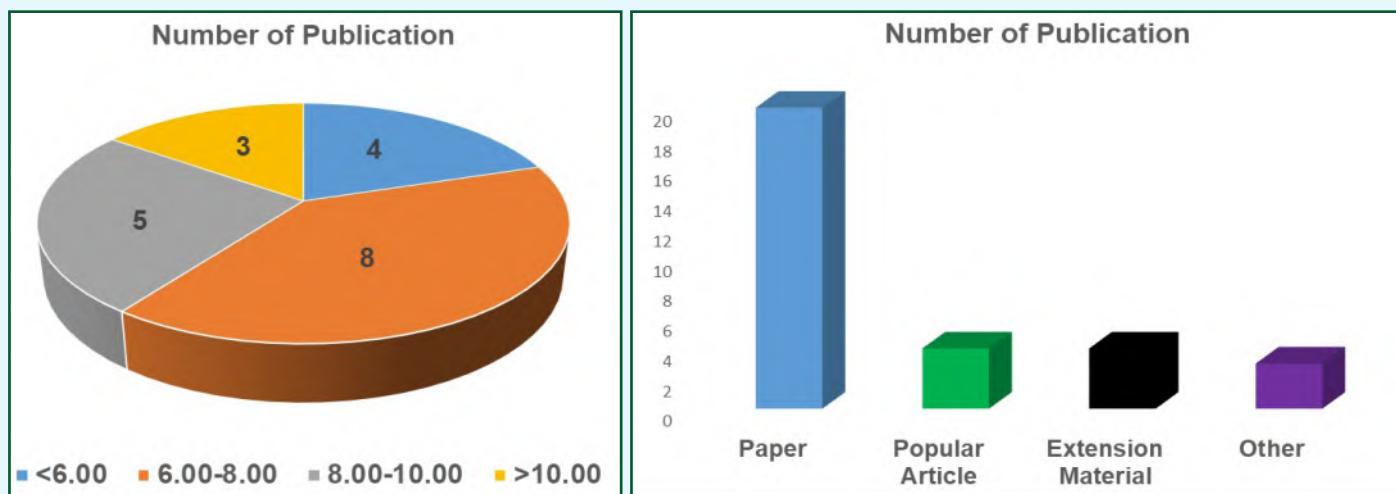
Milk Production: Understanding the Factors and Strategies. *Scientia Review*, 1(6), 36-39.

- Handique, B., Choudhary, M. B. and Ruhi Pde, D. U. (n.d.). Assam Hill goat: A promising indigenous genetic resource of Northeast India. *Veterinary Today*, 3(11), 880-882. <https://doi.org/10.5281/vettoday.17797761>
- राहुल सिंह, पी. के. मिश्रा, भागीरथ दास, चेतन सी. आर., अर्पण भौमिक, सुनील मंडी एवं लोहित कुमार बैश्य. (दिसंबर, 2025) संतुलित आहार और पोषण: एक कृषि वैज्ञानिक दृष्टिकोण" खण्ड 05 भाग 07, पृष्ठ संख्या 11-14 E-ISSN: 2582-9769 कृषि कुंभ (हिंदी मासिक पत्रिका).

## Leaflets/Booklets/Folders

- Chethan, C.R., Baishya, L.K., Bhowmik, A., Singh, R., Mishra, P.K., Raghavendra, H.R. and Mate, Ch. J. 2025. Agricultural Machinery package for Integrated Farming System. P.28. Published by ICAR-IARI, Assam, India. Booklet no. IARI-A/BL/2025/01.
- Mukherjee, P.K., Dubey, R.P., Raghuvanshi, M., Choudhary, V.K., Chethan, C.R., Gharde, Y., Ghosh, D., Singh, P.K., Sondhia, S., Pawar, D.V., Sreekanth, D., Jamaludheen A. and Dubey. J.K. 2025. Impact of technological intervention under Farmer FIRST Programme on productivity and profitability of rice-wheat-greengram/blackgram cropping system. ICAR-Directorate of Weed Research, Jabalpur. P. 20.
- Chethan, C.R., Choudhary, V.K. and Mishra, J.S. 2025. Standard Operating Procedure for herbicide application through drones. ICAR-Directorate of Weed Research, Jabalpur. P. 10.
- Bornalee Handique, M. B. Chaudhary, Azhaguraja M, Da u ruhi Pde, Amjad K Balange and Arunjyoti Baruah and A. K. srivastava. (2025). Silage Making: An approach to Conserving Green Fodder. PME no: IARI-A/B/2025/26.

## Summary of Publications



## AWARDS AND RECOGNITIONS

### Celebrating Excellence: IARI Director at 11th Convocation of Banda University

The Hon'ble Director, ICAR-IARI, participated as the Chief Guest in the 11th Convocation of Banda University of Agriculture and Technology, Banda, held on 16 October 2025. The event was graced by the Hon'ble Governor, in her capacity as Chancellor, who conferred gold medals upon meritorious students. The convocation marked a proud occasion celebrating academic excellence and the emergence of future leaders in agriculture.



## Other Awards and Recognitions

- Dr. Ch.Jamkhokai Mate was conferred Eminent Scientist award at 9th International Conference on "Advances in Agricultural, Biological and Biodiversity Conservation for Sustainable Development (ABCD-2025)" in Mysore on 13-15 Nov through virtual mode.
- Dr. Manish Pandey received 1st Best Oral Presentation Award for the paper entitled Assessment of Animal Husbandry Practices and Risk of Livestock Disease Outbreaks and Zoonotic Disease Transmission in the Mising Tribe of Dhemaji District, Assam during International Conference on The pursuit for Sustainable Hill Farming: Innovations for profitability and ecological balance to ensure a future livelihood (PASEL-2025) during 20-21 November, 2025 at Tripura organized by Indian Association of Hill Farming & ICAR-Reseach Complex for NEH Region, Tripura Centre.



- Dr. Manish Pandey Served as a Rapporteur during a technical session in the International Conference on The pursuit for Sustainable Hill Farming: Innovations for profitability and ecological balance to ensure a future livelihood (PASEL-2025) 20-21 November, 2025 at Tripura.



- Dr. Rahul Singh received "Outstanding Researcher Award in Social Science" at the 2nd International Extension Education Congress-2025 on "Rethinking Social Ecology in a Digital Landscape", held from November 24-26, 2025 at the Institute of Agricultural

Sciences, SOA, Bhubaneswar, Odisha.



- Dr. Rahul Singh received the "Best Oral Presentation Award" at the 2nd International Extension Education Congress-2025 on "Rethinking Social Ecology in a Digital Landscape", held from November 24-26, 2025 at the Institute of Agricultural Sciences, SOA, Bhubaneswar, Odisha.
- Dr. Bornalee Handique received the Young Scientist award at the International Conference on "Sustainable Innovation in Agriculture, Veterinary and Allied sciences (SIAVAS-2025) jointly organized by University of Agriculture Sciences (UAS), Raichur, Karnataka and National Agriculture development Cooperative Ltd. (NADCL), baramulla, J&K held at UAS, Raichur, Karnataka, India from 29th to 31st Dec, 2025
- Dr. Azhaguraja M. received the "Best Oral Presentation award" at the International Conference-cum-Workshop on "Climate Resilient Livestock Production: Emerging Concepts and Technologies" jointly organized by ICAR- National Institute of Animal Nutrition & Physiology (NIANP), Bengaluru and National Innovations in Climate Resilient Agriculture (NICRA), Hyderabad during November 23-24, 2025.



- Dr. Azhaguraja M, received the Best Oral Presentation Award (as Co-author) for the paper entitled "Productive Performance of Vanaraja Birds under Sikkim Himalayan Conditions in India" at the International Conference on "The Pursuit for Sustainable Hill Farming: Innovations for Profitability

and Ecological Balance to Ensure a Future Livelihood (PASEL-2025)", held during 20-21 November 2025 at Tripura. The conference was organized by the Indian Association of Hill Farming and ICAR-Research Complex for NEH Region, Tripura Centre.

- Mr. Kishore Chandra Sahoo received "Best Oral presentation Award" for his presentation entitled "Diversity of Stathmoipodidae (Lepidoptera: Gelechioidea) in India" at the National Symposium on Technological Advancements: Emerging Trends in Entomology (ESI-ETE-2025), held at SKUAST, Srinagar, Kashmir, during 8-9 October, 2025, jointly organized by the Entomological Society of India & Division of Entomology, SKUAST, Srinagar, Kashmir.
- Dr. Chethan C R, received the Best Oral Presentation Award for the paper entitled "Ergo-refined knapsack spraying system: a futuristic operator friendly option



for hill agriculture" at the International Conference on "The Pursuit for Sustainable Hill Farming: Innovations for Profitability and Ecological Balance to Ensure a Future Livelihood (PASEL-2025)", held during 20-21 November 2025 at Tripura. The conference was organized by the Indian Association of Hill Farming and ICAR-Research Complex for NEH Region, Tripura Centre.

- Dr. Chethan C R, received the Best Oral Presentation Award (as Co-author) for the paper entitled "Protein Extraction from Guar Meal Using Ultrasound and Its Characterization" at the International Conference on "The Pursuit for Sustainable Hill Farming: Innovations for Profitability and Ecological Balance to Ensure a Future Livelihood (PASEL-2025)", held during 20-21 November 2025 at Tripura. The conference was organized by the Indian Association of Hill Farming and ICAR-Research Complex for NEH Region, Tripura Centre.
- Dr. Palmei Gaibimei received the Best Oral Presentation Award for the paper entitled "Protein Extraction from Guar Meal using Ultrasound and its Characterization" at the International Conference on "The Pursuit for Sustainable Hill Farming: Innovations for Profitability and Ecological Balance to Ensure a Future Livelihood (PASEL-2025)", held during 20-21 November 2025 at Tripura. The conference was organized by the Indian Association of Hill Farming and ICAR-Research Complex for NEH Region, Tripura Centre.

## Resource Person in Training Programme/Workshops

Scientist	Institute/Organization where served as Resource Person (outside IARI Assam)	Name of the training/Workshop	Title of the talk (Online/Offline)	Date
Dr. Arpan Bhowmik	ICAR-National Bureau of Soil Survey and Land Use Planning (NBSS&LUP), Nagpur,	Online training programme on "R for Soil Science"	Hands-on session on Summary statistics, Correlation, Regression, and ANOVA (online)	11 to 20 November 2025
Dr. Manish Pandey	Ajon Trust (Assam) with support from the Azim Premji Foundation	Scientific piggery training	Biosecurity measures and housing management practices in piggery (Offline)	18 December 2025

Dr. P.K. Mishra	NEHARI, Brahmaputra Board, Guwahati	4-day Training Workshop on "Tools and Techniques for Springshed Management"	i. Methodology for identification of vulnerable spring ii. Hydro-meteorological instrumentation in the Springshed (Offline)	11 November, 2025
Dr. Kanchan Saikia	College of Post Graduate Studies in Agricultural Sciences, CAU, Umiam, Meghalaya	Think-A-Thon on Futuristic Education 2047	Acted as Expert member of Entomology discipline	16 November, 2025
Dr. Bornalee Handique	Centre for Development action and Appropriate technology (CADAT), Lakhimpur, Assam	Promoting sustainable vegetable cultivation through natural farming and improved management practices for indigenous cow breed	Natural Farming with Livestock: Harnessing Indigenous Resources for Sustainable Production (Offline)	11 October, 2025
	Centre for Microfinance and Livelihood (CML), An initiative of TATA trust, Guwahati, Assam	Livestock Service Provider training on "Piggery farming and disease Management"	Scientific Feeding Management Practices for improved Pig Productivity (Offline)	19 December, 2025
Dr. A. K. Srivastava	Ajon Trust (Assam) with support from the Azim Premji Foundation	Scientific piggery training	Feeding and Breeding Management Practices in piggery (Online)	18 December, 2025
	ICAR-KVK, West Garo Hills, Tura, ICAR-RCNEH region, Umiam, Meghalaya	Horticulture based Integrated farming System for Tribal Farmers of West Garo Hills	Livestock Production And Management for Integrated Farming System (Online)	09 December, 2025

## Technology Certification/ Commercialization

- Dr. A. K. Balange, as one of the Co-Investigators commercialized a technology of "Laminated Bombay Duck" to an amount of Rs 1,10,700/- (Technology developed at ICAR-CIFE, Mumbai) on 24/11/2025.

## ICAR certified technologies

S. No.	Name of the technology	Technology no.	Developer	Remarks
1	Ergo-refined operator friendly spray-boom holding tool for tractor-operated boom sprayer	ICAR-NRM-DWR-Product-2025-090	<b>Lead Developer:</b> Chethan C.R. <b>Associate Developers:</b> R.P. Dubey, P.K. Mukherjee, V.K. Choudhary, P.K. Singh	The technology gives drudgery reduction of the operator, increases the overall field capacity and efficiency, achieves uniform application of the herbicides and effective control of the weeds

2	An adjustable ergo-refined spray boom holding tool for knapsack sprayer	ICAR-NRM-DWR-Product-2025-091	<b>Lead Developer:</b> Chethan C.R. <b>Associate Developers:</b> R.P. Dubey, P.K. Mukherjee, V.K. Choudhary, P.K. Singh	The technology applies the chemical at the back side of the operator, which avoids direct exposure of the operator applied chemicals, achieves uniform application of herbicides, reduces drudgery, improves overall efficiency and control weeds effectively
3	Integrated weed management in soybean-wheat-green gram cropping system under conservation agriculture	ICAR-NRM-DWR-Technology-2025-019	<b>Lead Developer:</b> V.K. Choudhary <b>Associate Developers:</b> P.K. Singh, Shobha Sondhia, Yogita Gharde, <b>Chethan C.R.</b>	An integrated weed management practices for soybean-wheat-green gram cropping System for effective control of the weeds and to improve the crop yield and system productivity

### Chronicles of Endeavour at IARI-Assam.....



# Staff Position of IARI-Assam Campus



# Staff Position of RRS, IARI-Assam, Gerua Station, Kamrup, Assam



## From the Editors

*Greetings from ICAR-IARI, Assam!*

The October–December 2025 issue of our newsletter captures a productive and impactful quarter marked by strong progress in research, education, capacity building, farmer outreach, and input distribution across the North-Eastern region. This edition highlights diverse training, awareness, and farmer-scientist interaction programmes focusing on integrated farming systems, climate-resilient technologies, crop diversification, livestock and fisheries management, value addition, and nutritional security. Timely input distribution programmes further strengthened the institute's efforts to translate scientific knowledge into practical, livelihood-oriented solutions for farmers.

Education and student development remained a key priority with the launch of the first RAWE programme, Deeksharambh 2025 induction activities, skill-based courses, and exposure visits offering hands-on learning experiences. Research achievements, including publications, software development, and region-specific studies, along with the Mid-Term IRC meeting, helped sharpen future research directions. We sincerely thank our faculty, staff, students, farmers, and collaborators for their continued support and contribution toward advancing sustainable agricultural development in the Northeast.

### Compiled and Edited by

Dr. Arpan Bhowmik

Mr. Kishore Chandra Sahoo

Dr. Chethan C. R.

Dr. Abhijith K. P.

Dr. M. B. Chaudhary

Dr. Rahul Singh

Dr. Lohit Kumar Baishya

Dr. A. K. Balange

### Technical Assistance

Mr. Chandan Maji

### Guidance and Advisory

Dr. C. Viswanathan

Joint Director (Research), IARI

### Published by

Dr. Ch. Srinivasa Rao

Director

ICAR-Indian Agricultural Research Institute (IARI)  
Dirpai Chapor, Gogamukh, Dhemaji, Assam-787035

**ICAR-Indian Agricultural Research Institute, Assam**

Dirpai Chapor, Gogamukh, Dhemaji, Assam-787035