13th International Conference On

Frontiers in Science and Technology for Sustainable Agricultural and Environmental Development (FSTSAED-2026)

March 13-15, 2026

Venue: Assam University, Silchar, Assam, India

Mode of Participation: Hybrid (Physical/Virtual)

Organized by

असम विश्वविद्यालय
ASSAM UNIVERSITY

A Central University Established by an Act of Parliament

Department of Agricultural Engineering, TSSOT, Assam University, Silchar, Assam, India
(www.aus.ac.in)

Agro Environmental Development Society (AEDS)
Majhra Ghat, Rampur, U.P., India
(Registered under the Society Registration Act XXI, 1860)
(Registered Under the Niti Aayog, Gov. of India)
(www.aedsi.org)




For Further Details Contact

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Our Previous/Current Collaboration

Weather of Silchar, Assam

Weather of Silchar during the conference (March) will be very pleasant and enjoyable due to average day and night temperature range from 24-27°C and 17-20ºC, respectively

Department of Agricultural Engineering, TSSOT, Assam University, Silchar, Assam, India

The Department of Agricultural Engineering (Established in 2006) Assam University offers the courses that deal with the application of engineering principles and scientific technologies for sustainable food production, and all along the food production to consumption chain. The course structure and syllabus for the UG and PG programmes have been designed to create skilled and technically sound human resources to cater the engineering needs of farm mechanization, irrigation and drainage, soil and water conservation, post harvest processing of crops, value addition, renewable energy, and appropriate design and utilization of aquaculture resources. The laboratory infrastructure has been developed to impart the essential practical knowledge including the application of computers and IT for the design, simulation, modeling, remote sensing etc. Two industrial trainings form a part of the UG programme that aims to provide the industrial exposure and enhancement of technical know-how and skills. The Department is actively involved in multi-disciplinary research with projects funded by DST, UGC, MoFPI and NHB. Assam University came into existence in 1994 after enactment of the Assam (Central) University Act 1989. Through its pursuit, Assam University is in the process of making itself an institute of excellence. Assam University main campus is situated at Dargakona, about 20 kms away from Silchar. The campus is set amid sprawling hillocks and typical landscape of north east. The campus is spread over 600 acres and provide an ideal environment for the researchers, students and the people interested in academic excellence. The other campus of the university is situated at Diphu in the district of Karbi Anglong, Assam. The university has the territorial jurisdiction over the five districts of Assam viz., Cachar, Karimganj, Hailakandi, Dima Hasao (erstwhile North Cachar Hills) and Karbi Anglong. Assam University being a central university hosts a national characteristic of unity in diversity. Faculties, staff and students hail from all over the country. International students also find this institution an ideal centre for pursuing their academic endeavour.

About the Agro Environmental Development Society (AEDS)

The Agro Environmental Development Society (AEDS) is an agricultural research organization, registered under the society registration act 21, 1960 and the NITI Aayog Gov. of India, dedicated to promoting sustainable

agricultural practices and fostering environmental conservation. The AEDS has since become a leading force in rural development, working tirelessly to uplift the lives of farmers and rural communities while safeguarding the delicate balance of the environment. One of the primary objectives of AEDS is to empower farmers by providing them with the necessary knowledge and resources to adopt sustainable agricultural practices. Through workshops, training sessions, and field demonstrations, AEDS educates farmers about the latest advancements in agricultural techniques, such as organic farming, integrated pest management, and water-efficient irrigation methods. By encouraging the use of eco-friendly alternatives to conventional farming practices, the organization aims to improve crop yields, reduce production costs, and enhance the overall livelihoods of farmers. The AEDS is also committed to explore the scientific development across the world and has taken initiative to provide a platform to the scientists, researcher, policy makers and scholars to solve and discuss various issues relating to agricultural and environmental development. AEDS had organized first international conference at Sam Higginbottom University of Agriculture, Technology and Sciences, Allahabad, Uttar Pradesh, India in association with Pondicherry Institute of Agricultural Sciences (PIAS), Pondicherry and Centre for Environment & Agricultural Development (CEAD), Pondicherry on November 27-29, 2018 and became a great success with an impressive turnout of around 800 participants from all around the country along with the foreign delegates. The 2nd International Conference was held at Dr. Y.S. Parmar University of Horticulture and Forestry, Solan, Himachal Pradesh on September 27-29, 2019. On this occasion, nearly 900 participants (Scientists, Academicians, Industries Person and Students) were participated globally. The AEDS also conducted various International Conference via virtual mode in collaboration with National and International universities during the global pandemic of COVID-19. In the previous years, the society organized various 21 days National Training Course in collaboration with Central Sericultural Research & Training Institute (CSRTI), Mysore, National Bank for Agriculture and Rural Development (NABARD), Rajmata Vijayaraje Scindia Krishi Vishwa Vidyalaya, Gwalior (Madhya Pradesh), Central Tasar Research and Training Institute, Central Silk Board, Govt. of India, Ranchi, Jharkhand, India, College of Horticulture and Forestry, Central Agricultural University Pasighat-Arunachal Pradesh and Sher-e-Kashmir University of Agricultural Sciences and Technology of Jammu. The most commendable International Conference has been organized recently by the AEDS in joint collaboration with Department & Directorate of Extension Education Uttar Banga Krishi Vishwavidyalaya, Pundibari, West Bengal, ICAR- National Agricultural Higher Education Project (NAHEP) at Kalimpong Science Centre, Deolo, Darjeeling, W.B. The AEDS recently organized one more successful international conference at Kumaun University, Nainital, Uttarakhand during March 01-03, 2024. Till now Society has organized total 12 International Conference and 09 National Training Cum Certificate Course/Winter and Summer School in collaboration Central/State Agricultural University and other government institutions. Furthermore, the Society continuously working for the welfare of rural and land less community of the country and also making people aware for sustainable and profitable agriculture.

About the 13th International Conference (FSTSAED-2026)

Sustainable agricultural and environmental development stand at a critical frontier of modern science and technology, integrating diverse innovations to meet the growing challenges of food security, climate change, biodiversity loss, and resource depletion. Key advances now include precision agriculture using sensors, drones, satellite imaging, and artificial intelligence to optimize inputs like water, fertilizers, and pesticides, thereby boosting yields while reducing waste and environmental harm. Nanotechnology, such as nano-fertilizers or nanoparticle-based disease diagnostics, is enabling new ways to protect crops with reduced chemical load. Biological solutions such as biofertilizers, microbial inoculants, phytobiome engineering, and the use of beneficial fungi or bacteria are gaining strength as sustainable alternatives to synthetic inputs. Soilless farming (hydroponics, aeroponics), Vertical Farming, and Controlled-Environment Agriculture allow cultivation in non-traditional or urban settings, with minimal land and water footprints. At the same time, integrated approaches

like agroforestry, carbon-smart land-use management, crop-residue retention, conservation tillage, and regenerative agriculture are helping restore soil health, sequester carbon, and preserve ecosystems. Interdisciplinary work is also pushing forward, combining ecology, data science, engineering, and social sciences to design resilient food systems that are equitable and climate-adaptive. Policies and institutional frameworks play a crucial role to ensure technology access for smallholder farmers, to align incentives with sustainability goals, and to monitor environmental outcomes. For environmental development to succeed, scientific innovations must be scalable, cost-effective, socially inclusive, and environmentally restorative, not just yield-focused. When properly aligned, advances in science and technology offer promising pathways to sustainable agriculture that preserves natural capital, supports rural livelihoods, and secures nutrition for future generations.

This conference will also bring out the significance of the biological science and forests for sustainable development and food security as forests support sustainable agriculture by stabilizing soils and climate, regulating water flow, providing shade and shelter and providing a habitat for pollinators and natural predators of agricultural pests and when integrated judiciously into agricultural landscapes, trees can increase agricultural productivity. Therefore, the present international conference "***Frontiers in Science and Technology for Sustainable Agricultural and Environmental Development (FSTSAED-2026)***" provides a forum to discuss such emerging issues and advances in the areas of agriculture, biological & applied science to promote the sustainable development of our society. The international conference will be a best amalgamation of eminent scientists, researchers, scholars, and students who will share the latest developments in the relevant fields to promote the sustainable development.

Themes and Subthemes of the Conference:

1. Recent Advances in Agriculture, Horticulture, Food, Veterinary, Animal Husbandry, Fisheries and Allied Sciences

- Agriculture Resource Management: Frontier aspects in agricultural waste management for environmental sustainability
- Livelihood security in agriculture and allied sectors
- Sustainable development through sericulture
- Opportunities of entrepreneurship in horticulture and allied fields
- Advances in animal husbandry and allied fields
- Livelihood security with dairy farming
- Recent research trends in veterinary sciences and animal husbandry
- Emerging employment in fisheries sector for sustainable development
- Current approaches in animal husbandry for increasing livelihood security
- Climate smart agriculture systems: Transforming food systems under a changing climate'
- Sustainable rural livelihood systems and doubling farmers income through the innovative strategies
- Horticulture as growth engine of farming sector and recent advances in horticulture and allied sciences
- Crop production technology and precision agriculture

- Soil health management and conservation of natural resources
- Integrated management of nutrient with special emphasis to micronutrient
- Eco-friendly management of conventional and newly emerging plant disease and insect pests
- Applied aspects of soil and agricultural microbiology
- Food, Nutrition, and Health Security
- Recent advances in dairy, food Science and technology
- Business and marketing in the agricultural sector for increasing livelihood
- Agriculture engineering, soil and water conservation, and food processing
- Recent advances in fisheries and allied sciences
- Emerging and applied aspect of plant and animal sciences in developmental biology
- Application of biotechnology, bioinformatics, enzymology, gene mapping, genetic engineering, molecular and cellular biology, for the development of science and technology
- Importance of medicinal and aromatic plants in the pharmaceutical sector
- Bioresources and technologies used for biofuel production
- Microbial ecology and diversity in different habitats
- Cultivation of useful microbes for agro-environmental sustainability

2. Natural Resource Management and Sustainable Hill farming for Livelihood Security

- Sustainable hill farming for livelihood security
- Management of land, water and human resources for sustainable agriculture, horticulture and forestry
- Climate change adaptation and mitigation strategies for hilly areas
- Diversification and integrated farming system for sustainability and their socio-economic implications
- Bio industrial waste and contaminated soils management and community participation Indigenous traditional knowledge
- Forest protection and management
- Finding synergies between forestry, agriculture, water and energy
- The role of urban forests in fuelling and feeding cities and providing environmental and social services
- Integrating forests and other land uses
- Forest landscape management
- Aquatic bio-diversity conservation and its management
- Livelihood opportunities and security in fish farming and allied sector

- Climate change adaptation and mitigation strategies for hilly areas
- Diversification and integrated farming system for sustainability and their socio-economic implications
- Bio industrial waste and contaminated soils management and community participation
- Indigenous traditional knowledge

3. Climate Resilient Agriculture

- Ecosystem based approaches for climate change adaptation, ecosystem services, integrated farming system models and Land degradation neutrality
- Emerging approaches for biotic and abiotic stress management through big data analytics, precision farming, remote sensing, drone technology, AI, ML, Nanotechnology, modeling
- Sustainable soil management, conservation agriculture, organic farming, INM, soil-microorganisms-plant interactions
- Resilience through land and water management interventions, water management and governance

4. Emerging Issues in Environmental Management

- Frontier aspects in biotic and abiotic stress management
- Aquatic pollution due to industrial waste, problems and mitigation strategies
- Environmental development and biodiversity conservation
- Earth science, land use change,and management
- Advances in environmental microbiology and environmental engineering
- Climate change and its effect on environmental ecology and mitigation strategies
- Environmental chemistry, toxicology, health hazards and solution
- Environmental pollution and management
- Bioremediation of contaminated sites through innovative approaches
- Nanotechnology in water and wastewater treatment

5. Recent Advances in Biological & Applied Sciences

- Emerging and applied aspect of plant and animal sciences in developmental biology
- Application of biotechnology, bioinformatics, enzymology, gene mapping, genetic engineering, molecular and cellular biology, for the development of science and technology
- Applied aspects of microbiology in food, medical, industrial, agricultural and environmental development
- Importance of medicinal and aromatic plants in the pharmaceutical sector
- Bioresources and technologies used for biofuel production
- Applied aspects of microbiology in food, medical, industrial, agricultural and environmental development

- Microbial ecology and diversity in different habitats
- Cultivation of useful microbes for agro-environmental sustainability
- Applied aspects medical and pharmaceutical science in public healthcare
- Application of multidisciplinary knowledge in field of biomedical sciences
- Synthesis and biological screening of synthetic compounds and natural products for discovery of new drug
- Application of intellectual property rights (IPR) in science and technology
- Frontier aspects in computational biology for metagenomics analysis
- Advances in materials science, engineering, and technology
- Applied aspects in pharmacy, chemistry, physics, statistics and nano-science and nano-technology
- Innovative approaches in computer science, mechanical, and electrical engineering
- Role of the computer in the development of bioinformatics and biotechnology

Award and Honors

Interested candidates are requested to submit their duly filled award nomination (nomination form may be downloaded from society website at www.aedsi.org) to claim the respective awards (listed below) through e-mail to **aedsn2018@gmail.com** on or before **February 26, 2026.** Society contribution for life members INR-4000/- & lifetime membership fee for Non-Members INR-5000/- to be paid by NEFT/Net Banking/ Mobile banking/Online/banking app, Phone pay, Google pay etc. in favor of "Agro Environmental Development Society" payable at Saifni (State Bank of India, Account No. 37836254237, IFSC Code: SBIN0018205). Key contact for award confirmation: **aedsn2018@gmail.com** Mob: +91-6394082801.

Prestigious Awards

Life Time Achievement Award	Eminent Scientist Award	Distinguished Scientist Award
Outstanding Achievement Award	Excellence in Extension Award	Excellence in Teaching Award
Outstanding/Best M.Sc./MVSc/ MHSc/M.Tech./ Ph.D. Thesis Award	Best Research Scholar Award	Best Academician Award
Young Scientist Award	Young KVK Scientist Award	Best KVK Scientist Award
Scientist of the Year Award	Young Agriculture Engineer Award	Young Biotechnologist Award
Young Woman Scientist Award	Best Scientist Award in Livestock Management	Excellence in Research Award
Best Fisheries Scientist Award	Best Teacher Award	Young Fisheries Scientist Award
Young Plant Pathologist Award	Young Microbiologist Award	Young Agriculturist Award
Young Horticulturist Award	Young Scientist Award in Forestry	Young Scientist Award in Biological Science
Young Professional Award	Young Scientist Award in Agrometeorology	Young Entomologist Award
Young Scientist Award in Plant Pathology	Young Scientist Award in Agriculture Science	Young/Best Scientist Award in Animal Husbandry
Young Scientist Award in Fisheries Sciences	Young Scientist Award in Plant Science	Young Scientist Award in Animal Science
Young Scientist Award in Agriculture Extension	Young Scientist Award in Agriculture Research	Best Scientist Award in Animal Science
Young Scientist Award in Food Science and Technology	Young Scientist Award Floriculture	Young Scientist Award in Soil Science and Agricultural Chemistry
Young Scientist Award in Vegetable Science	Young Scientist Award in Fruit Science	Young Scientist Award in Home Science
Young Scientist Award in Biotechnology	Young Scientist Award in Floriculture	Young Scientist Award in Agronomy
Young Scientist Award in Extension Education	Best Field Veterinarian Award	Young Scientist Award in Veterinary Science
Best Scientist Award	Best Scientist Award in Plant Pathology	Young Environmental Scientist Award
Young Scientist Award in Chemistry	Best Scientist Award in Veterinary Science	Young Scientist Award in Life Science
Best Scientist Award in Agricultural Statistics	Best Scientist Award in Agronomy	Best Scientist Award in Agricultural Science
Best Scientist Award in Horticulture	Best Scientist Award in Fruit Science	Best Scientist Award in Forestry
Best Scientist Award in Soil Science & Ag. Chemistry	Best Scientist Award in Plant Breeding and Genetics	Best Scientist Award in Seed Science
Best Scientist Award in Crop Physiology	Best Scientist Award in Plant Protection	Best Scientist Award in Entomology
Best Scientist Award in Agriculture Economics	Best Scientist Award in Food Science and Technology	Best Scientist Award in Land and Water Management
Best Teacher Award in Engineering	Best Veterinary Clinician Award	Young Scientist Award in Engineering
Young Scientist Award in Sericulture	Best Scientist Award in Sericulture	Best Agriculture Engineer Award
Best Scientist Award in Home Science	Best Scientist Award in Food & Nutrition	Best Scientist Award in Dairy Science & Technology
Young Scientist Award in Crop Physiology	Best Scientist Award in Crop Physiology	Best Scientist Award in Plant Protection
Young Scientist Award in Plant Protection	Best Scientist Award in Engineering	Best Scientist Award in Livestock Management
Best Veterinary Extension Specialist Award	Young Scientist in Dairy Science and Technology	Best Animal Biotechnologist Award

AEDS-2025 Special Award: Prof. K.C. Mehta Memorial Award (In the field of Plant Pathology)

Award Application Form

Application for the Award……

Title of the Applicant (Mr./Ms./Mrs./ Er./Dr./Prof.) ……

Full Name (Capitalize each word)……

Designation……. Discipline……

Name of Department

Complete Institutional Address with Pin Code ……

……

Photographs

Correspondence Address with Pin Code……

……

Contact. No……Whatsapp No……..E -mail……Nationality……

Date of Birth…….....Sex (M/F)… ……

Academic Profile (Education Qualification) Graduation Onwards

Degree	College/University/Institute	Year of Passing	Subject	% /Division/ CGPA

Title of thesis (Only for thesis award)……

Experience in Teaching/Ressearch (yrs.)…….Outstanding Achievement……

No. of Research Papers…....Book Chapters……..Books……..Book Reviews……Magazine Articles……

Total Impact Factor/NAAS Rating…….. ……..Research Project Undertaken: PI……Co-PI…….....

No. of Patents/Technology Transfer/Variety Released /Any Other (If any)…….....

No. of Poster/Oral Presentations…….No. of Invited Lecture…….No. of Training Programme Attended……..

No. Seminars/Conferences/Workshops Organized…….....

Any Previous Award Received……No. of M.Sc/Ph.D Students Supervised……..

Administrative Responsibilities (HOD/Dean/Principle/In-Charge/Registrar/Member of Any Board/Other)……

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Any Fellow Member of Scientific Society……

Any Other Relevant Information……

Declaration: The information given in this form is true and correct to the best of my knowledge and belief. In case any information proves to be false or incorrect. I shall be responsible for the consequences .

Date……Place……Signature of Candidates……

Note: Candidates are requested to send a MS Word file of duly filled and signed nomination form on aedsn2018@gmail.com (MS Word file of award nomination form may be downloaded from the Society website: www.aedsi.org)

Call for Abstracts/Full-Length Papers

Participants are invited to submit abstracts on their original and unpublished research work (maximum 300 words & 06 keywords) that should be written in Times New Roman font, double line spacing with 12 font size using Microsoft word. Corresponding authors must be highlighted by asterisk (*) with complete mailing address. Authors are also requested to submit their own research work in the form of research and review papers on the diverse field of agricultural, environmental and biological sciences, not exceeding 4500 words for publishing in the International Journal. Papers/abstract to be submitted online along with registration form and fee details on **aedsn2018@gmail.com**

Publication Fee Details

Name of Journal/ Publisher	NAAS Rating	Full length Paper Publishing Charges (INR)
International Journal of Agricultural Sciences (ISSN: 0973 1-30X) (Indexed in Scientific Indexing Service, Google Scholar, Advanced Science Index, **NAAS Rating: 4.03)** ***Paper should be sent in a proper format (Download sample paper *via*: http://researchjournal.co.in/IJAS.htm**	**4.03**	**3500**
International Journal of Plant Sciences (ISSN: 0973-1547) (Indexed in Scientific Indexing Service, Google Scholar, Advanced Science Index, **NAAS Rating: 3.43)** ***Paper should be sent in a proper format (Download sample paper via: http://researchjournal.co.in/IJAS.htm**	**3.43**	**3000**

Note: TA & DA facilities will not be borne by the University or AEDS Society and no Abstract/ paper will be published without registration in the conference souvenir.

Conference Session

The conference session covering all the themes and subthemes will be supported by the Lead Lecture, Oral Presentation and Poster Presentation by Eminent and Leading Scientists, Teaching Faculties, Research Scholars and Students from India and abroad on the relevant topics of the International Conference through physical/virtual mode. Good quality/original research work will be appreciated by **Best Oral Presentation Award** in each thematic area.

Poster Presentation

All the participants are requested to prepare their posters that should not exceed the dimension 1.4 × 1.2 m (length × width) and furnished with the title, Authors Name, Affiliation, Introduction, Material and Methods, Results and Discussion and Conclusion. Clear pictures, diagrams, graphs and short tables are highly encouraged to use in posters to win the **Best Poster Presentation Award** in each thematic area.

Conference Registration Fee

Categories	Indian Participants/SAARC Countries (INR)			Others Participants (USD)
	Before the Due Date Registration Fee		On Spot Registration Fee at the Venue	Registration Fee
	Physical/Offline Mode	Virtual/Online Mode		
Students (Diploma, UG & PG)	2500	1500	3000	100
Ph.D. Scholar, JRF& SRF	3000	2000	3500	150
Delegates/Scientist/ Faculties/ Teachers Professionals, RA PDF& Others	4500	2500	5000	170
Accompanying Person (Spouses/Guests)	3000	.....	3500	100

Note: Without paying the accompanying fee no guests/spouses will be allowed in the conference.

Note: All the Lifetime member of AEDS will be given a discount of 500/-in the registration fee.

Note: Conference Registration/Accommodation/Publication/Society Lifetime Membership/Society Contribution Fee is Non-Refundable/Non-Transferable and registration fee covers only hospitality and conference kit; it does not include accommodation charges. Fee to be paid by NEFT/Net Banking/ Mobile banking/Online/banking app, Phone pay, Google pay etc. For further queries and assistance, please contact to Organizing Secretary, Dr. Chhatarpal Singh, E-mail: aedsn2018@gmail.com Mob: +91-6394082801.

Accommodation

Accommodation for all the participants will be arranged near the conference venue/University guest house on prior request and pre-payment basis or participants may arrange theirown accomodation themselves. No spot accommodation facility will be provided by the accommodation/conference committee at the time of conference. Kindly confirm your accommodation on or before **February 27, 2026.**

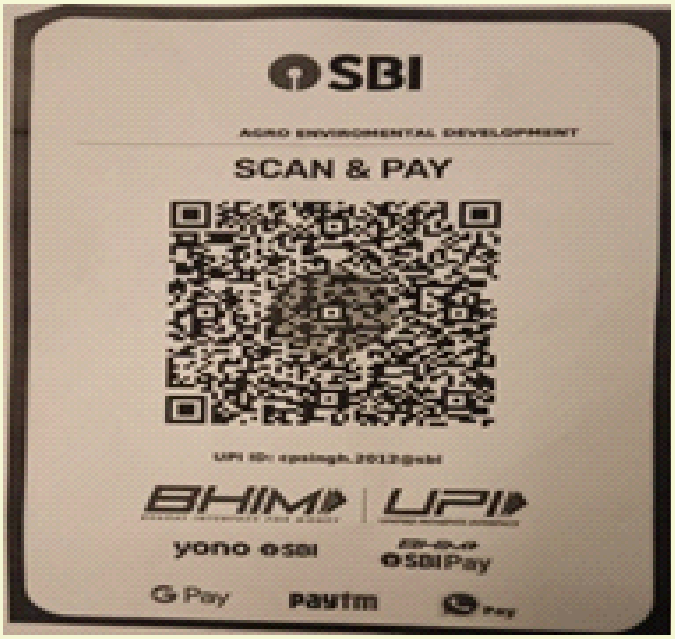
Accommodation Categories	Pay/Day (Individuals Non-Sharing) (INR)	Pay/Day (Double Sharing) (INR)
Normal Guest House	1500	1000
Deluxe Guest House	2500	2000

***Note:** Accommodation will be done only after receipt of advance payment through NEFT/Net Banking/ Mobile banking/Online/banking app, Phone pay, Google pay etc.

Mode of Payment & Account Details

Name of Account	Agro Environmental Development Society
Name of the Bank	State Bank of India
Bank Address	SBI, Saifni Shahabad, Bilari Road, Saifni, Rampur-244922, UP
Type of Account	Current
Account Number	37836254237
IFSC Code	SBIN0018205
MICR Code	244002161
Swift Code	SBININBB782

QR Payment: Candidates may also submit their fee by scanning QR code



Important Dates

Last Date of Registration & Fee Submission	February 27, 2026
Last Date of Award Application	February 26, 2026
Last Date of Abstract Submission	February 26, 2026
Last Date of Accommodation Confirmation	February 27, 2026

Conference Committee

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Prof. Rajive Mohan Pant, Hon'ble Vice-Chancellor, Assam University, Silchar, Assam, India

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Dr. Ashutosh Gautam, Scientist-C & Officers I/C, Spices Board, Regional Office, Srinagar,

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Central Silk Board, Government of India, Hosur Krishnagiri District, Tamil Nadu, India

Dr. Jay Shankar Singh, Associate Professor, Dept. of Microbiology, BBAU, Lucknow, U.P.

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Dr. A Ameeta Devi, Sr Scientist cum Head, KVK, Chandel, Imphal East, Manipur

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Sample of Abstract

The effect of rice husk biochar on soil nutrient status, microbial biomass and paddy productivity of nutrient poor agriculture soils

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Abstract

The study related to the effects of rice husk biochar (RHB) application on soil microbial aspects and paddy productivity in field condition is scare. Therefore, present study provides fresh insight into the effects of RHB on rice production in field conditions, with some updated information on soil microbial aspects. To study the impact of RHB and CSR-BIO (commercialized bio-formulation), on soil physico-chemical properties, soil microbial biomass (SMB) quantity and paddy productivity, four treatments were set up: control, RHB, CSR-BIO and RHB+CSR-BIO. The RHB with CSR-BIO both the amendments were applied at a rate of 10 t ha−1. Across treatments, the water holding capacity, total -C, -N, -P concentrations and soil moisture content were statistically higher in RHB and CSR-BIO treated soils over the control. The highest SMB-C, -N and -P (408.66 ± 0.57, 83.33 ± 2.08 and 25.66 ± 1.52 μg g−1 dry soil, respectively) was recorded in RHB+CSR-BIO treated soil. Across the sampling dates, SMB-C, -N, -P and inorganic-N (ammonium- and nitrate-N) concentrations were minimum on 35 day after transplantation (DAT) (tillering stage-active growth period), and maximum on 105 DAT (maturity stage). The paddy plant growth variables (panicle length, tiller number, rice grain and paddy straw yields) were found higher in treated plots compared to untreated (control) plots, and varied significantly ($P \leqslant 0.001$) due to treatments. Among the various selected paddy agronomic variables, the application of RHB and CSR-BIO treatment was more pronounced to the yield of rice grains. Results indicate that an increase in the quantity of SMB due to RHB+CSR-BIO addition, improves the soil nutrient status and hence, paddy productivity in nutrient poor agriculture soils. It is suggested that RHB generation from rice husk biochar could be a sustainable crop residues waste management option to enhance the nutrient status, microbial biomass and paddy productivity of disturbed agriculture soils.

***Keywords*:** Ammonium-N, Soil microbial biomass, Nutrient poor soil, Paddy, Rice husk biocha

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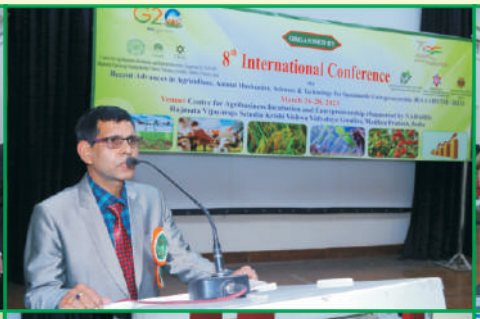
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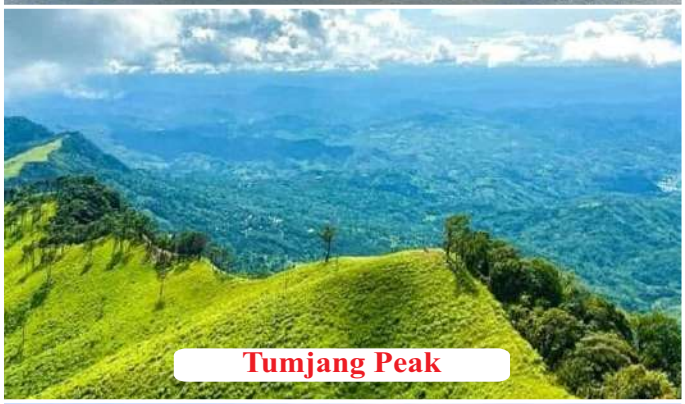
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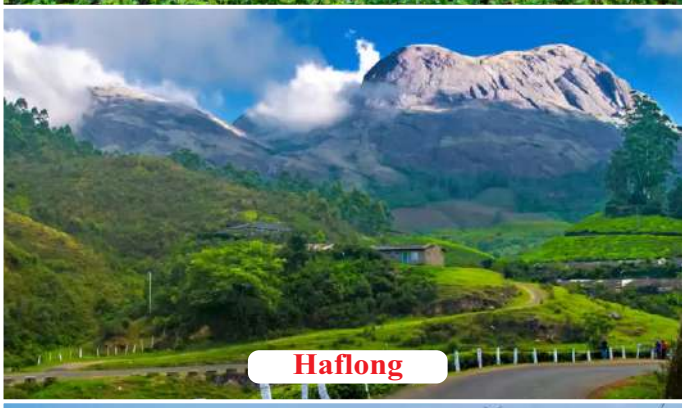
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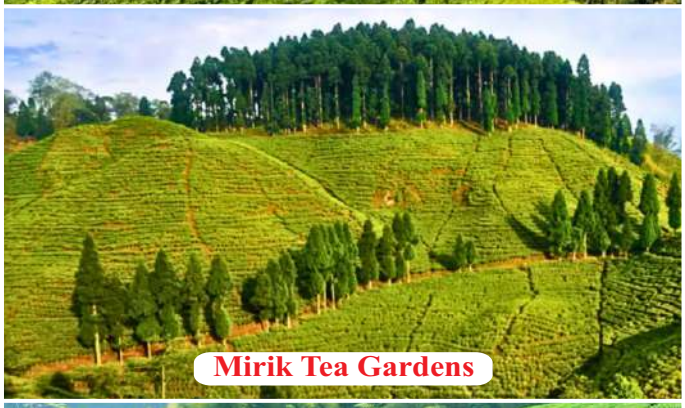
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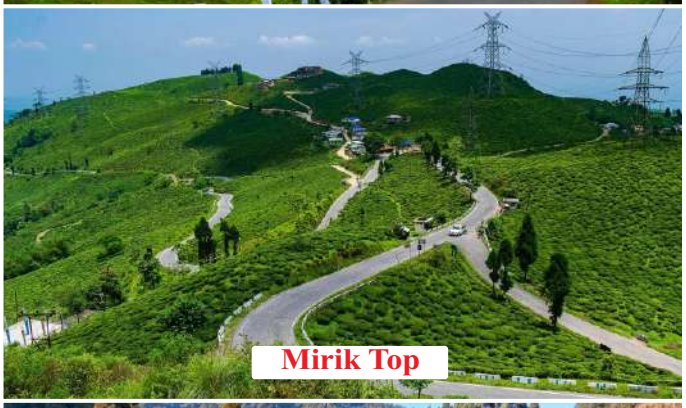
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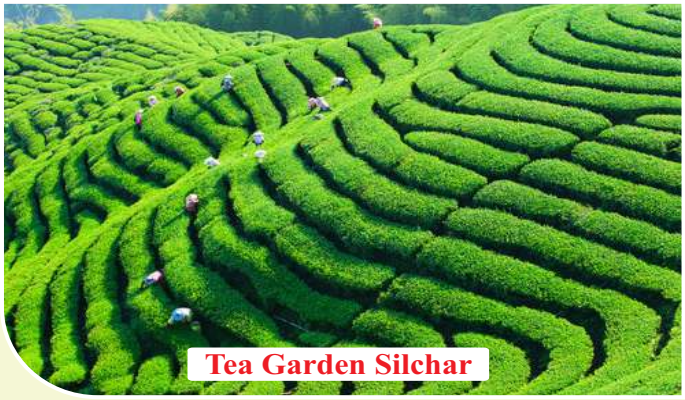
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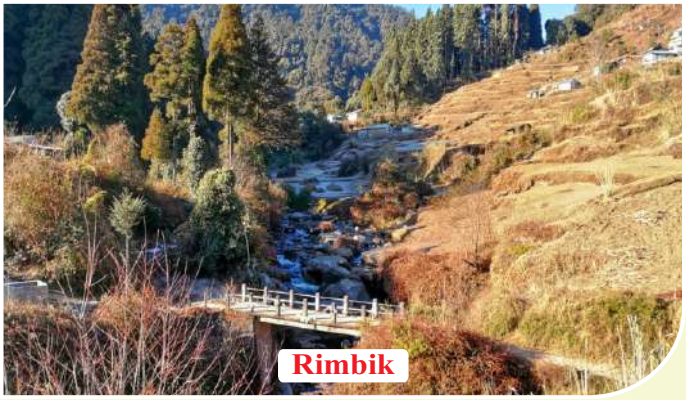
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