

# 14<sup>th</sup> International Conference On

## Recent Innovations and Sustainable Approaches in Agricultural, Biological and Applied Sciences for Livelihood Security (RISAABASLS-2026)

**June 18-20, 2026**

**Venue:** Uttar Banga Krishi Vishwavidyalaya, Pundibari, Cooch Behar, West Bengal, India

**Mode of Participation:** Hybrid (Physical/Virtual)

**Organized by**



Department & Directorate of Extension Education,  
Uttar Banga Krishi Vishwavidyalaya (UBKV),  
Pundibari, Cooch Behar, West Bengal, India  
([www.ubkv.ac.in](http://www.ubkv.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](http://www.aedsi.org))



Cooch Behar Association for Cultivation of Agricultural Sciences  
(COBACAS), UBKV, Pundibari, Cooch Behar, West Bengal, India  
(<https://cobacas.org.in>)



**For Further Details Contact**

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## Our Previous/Current Collaboration



### Weather of Pundibari (Cooch Behar)

Weather of Pundibari (Cooch Behar) during the conference (June) will be very pleasant and enjoyable due to light rain and average day and night temperature range from 25-28°C and 20-22°C, respectively

### About Department & Directorate of Extension Education, Uttar Banga Krishi Vishwavidyalaya (UBKV), Pundibari, Cooch Behar, West Bengal

The Department has been come into existence in 2001 with the inception of this University from the parent university Bidhan Chandra Krishi Viswavidyalaya. Previously the Department was delineated as an extension wing of North Bengal Campus under Bidhan Chandra Krishi Viswavidyalaya to carry out teaching and research activities in Extension Education besides undertaking field extension activities in the adopted villages of North Bengal. Thereafter the Department grew leaps and bounds under the dynamic leadership of well known personalities in the discipline of Extension Education. The Department is shouldering the very responsibility of teaching, research and extension on agricultural extension approaches till date with a scarcity of man power and offers UG, PG and Ph.D. programmes.

Directorate of Extension Education is the application window of the of Uttar Banga Krishi Viswavidyalaya (UBKV), the Directorate is undertaking various extension activities through different Krishi Vigyan Kendras (KVKs) under its supervision and control. Different new technological innovations and flagship programmes are undertaken by these KVKs to improve the livelihood of the farmers and other marginal populations of North Bengal through the Directorate. Uttar Banga Krishi Viswavidyalaya with full support of ICAR is running five KVKs for the districts of Cooch Behar, Darjeeling, Dakshin Dinajpur, Uttar Dinajpur and Malda. These five KVKs one each for the northern districts of West Bengal under the jurisdiction of the university have been engaged in transfer of technologies for boosting up the present productivity level of food grains and other commercial crops/ livestock as well as improve and sustain the contribution of agriculture to GDP, continuous efforts to take newer and tested technologies to the farming communities of the northern part of West Bengal.

## **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 Cooch Behar Association for Cultivation of Agricultural Sciences**

Cooch Behar Association for Cultivation of Agricultural Sciences is concerned in promoting, disseminating and mutual exchanges of scientific information of agricultural science among the scientific diaspora and stakeholders. Being an agriculture NGO in India, Cooch Behar Association for Cultivation of Agricultural Sciences arranges and organizes lectures, debates, discussions, seminars, symposia, conferences and excursions for the dissemination of knowledge.

We organize and arrange social welfare activities including awareness campaigns, conservation of nature, conservation of plant genetic resources, and other developmental works for the welfare of the local people.

### **About the 14<sup>th</sup> International Conference (RISAABASLS-2026)**

Recent decades have witnessed transformative innovations in agricultural, biological, and applied sciences, aimed at addressing the pressing challenges of food security, climate change, and sustainable livelihood development. Advanced biotechnological tools, precision farming techniques, and climate-resilient crop varieties are revolutionizing agricultural practices, ensuring higher productivity with minimal environmental impact. Similarly, biological sciences have paved the way for eco-friendly pest management, soil health restoration, biodiversity conservation, and value addition through bio-based products. The integration of applied sciences has further strengthened these efforts by introducing smart technologies, renewable energy solutions, and efficient resource management systems that enhance productivity while conserving natural ecosystems.

Sustainable approaches are now at the core of research and development strategies, emphasizing resilience, inclusivity, and equity in livelihood security. From promoting organic and regenerative agriculture to harnessing the potential of artificial intelligence, drones, and data analytics in farming systems, these innovations empower rural communities and reduce dependence on unsustainable practices. Moreover, the convergence of agricultural, biological, and applied sciences fosters interdisciplinary solutions that not only enhance income opportunities but also safeguard environmental health for future generations. By bridging scientific advancements with practical applications, these approaches hold the key to achieving long-term livelihood security, contributing to global goals of sustainability, food sovereignty, and socio-economic development.

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 “**Recent Innovations and Sustainable Approaches in Agricultural, Biological and Applied Sciences for Livelihood Security (RISAABASLS-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

### Awards and Honors

Interested candidates are requested to submit their duly filled award nomination (nomination form may be downloaded from the society website at [www.aedsi.org](http://www.aedsi.org)) to claim the respective awards (listed below) through e-mail to [aedsi2020@gmail.com](mailto:aedsi2020@gmail.com) on or before June 01, 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: [aedsi2020@gmail.com](mailto:aedsi2020@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-2026 Special Award: Prof. K.C. Mehta Memorial Award (In the field of Plant Pathology)

## Award Application Form

Application for the Award.....				Photographs
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 .....				
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 ).....				
Any Fellow Member of Scientific Society.....				
Any Other Relevant Information.....				
<b>Declaration:</b> 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.....				
<b>Note: Candidates are requested to send a MS Word file of duly filled and signed nomination form on <a href="mailto:aedsi2020@gmail.com">aedsi2020@gmail.com</a> (MS Word file of award nomination form may be downloaded from the Society website: <a href="http://www.aedsi.org">www.aedsi.org</a>)</b>				

## Call for Abstracts

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. Abstract to be submitted online along with registration form and fee details on [aedsi2020@gmail.com](mailto:aedsi2020@gmail.com)

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  $1.4 \times 1.2$  m (length  $\times$  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:** 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: aedsi2020@gmail.com Mob: +91-6394082801.

### Accommodation

Accommodation for all the participants will be arranged near the conference venue on prior request and pre-payment basis or participants may arrange their own accommodation 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 **June 04, 2026**.

Accommodation Categories	Pay/Day (Individuals Non-Sharing) (INR)	Pay/Day (Double Sharing) (INR)
Normal Guest House	1700	1200
Deluxe Guest House	2500	2000
Dormitory		700

**\*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

## Important Dates

<b>Last Date of Registration &amp; Fee Submission</b>	June 04, 2026
<b>Last Date of Award Application</b>	June 03, 2026
<b>Last Date of Abstract Submission</b>	June 03, 2026
<b>Last Date of Accommodation Confirmation</b>	June 04, 2026

## Conference Committee

### Chief Patron

Prof. D. Basu, Hon'ble Vice-Chancellor, Uttar Banga Krishi Viswavidyalaya (UBKV), Pundibari  
Cooch Behar, West Bengal, India

### Patrons

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West Bengal, India

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Prof. Prabhat Kumar Pal, Head (Agril. Extension) and Director of Extension Education, Uttar Banga Krishi  
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### Convener

Dr. Sanjay Kumar Jha, Professor, Central Dept. of Botany, Tribhuvan University, Kathmandu, Nepal

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### Joint Organizing Secretary

Dr. Ravi Dutt, Assistant Professor, Department of Veterinary Gynaecology & Obstetrics,  
College of Veterinary Sciences, LUVAS, Hisar, Haryana, India

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Mr. Arnab Ghosh, In-Charge, Comptroller's Department, Uttar Banga Krishi Viswavidyalaya, Pundibari, Cooch Behar, West Bengal, India

### Local Organizing Committee from UBKV

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Dr. Nonigopal Shit, Assistant Professor, Uttar Banga Krishi Viswavidyalaya, Pundibari, Cooch Behar, West Bengal, India

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Dr. G. Senthil Kumar, Associate Professor and Head, Department of Veterinary Medicine, Veterinary College and Research Institute (Tamilnadu Veterinary and Animal Sciences University) Udumalpet, Tiruppur (District), Tamil Nadu

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Dr. Santosh Kumar, Associate Professor, DMPP, IAS, Banaras Hindu University, Varanasi (UP)

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Dr. N. Sakthivel, Scientist -D, Central Sericultural Germplasm Research Centre (CSGRC) Central Silk Board, Government of India, Hosur Krishnagiri District, Tamil Nadu, India

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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 scarce. 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<sup>-1</sup>. 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<sup>-1</sup> 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 ( $P \leq 0.001$ ) 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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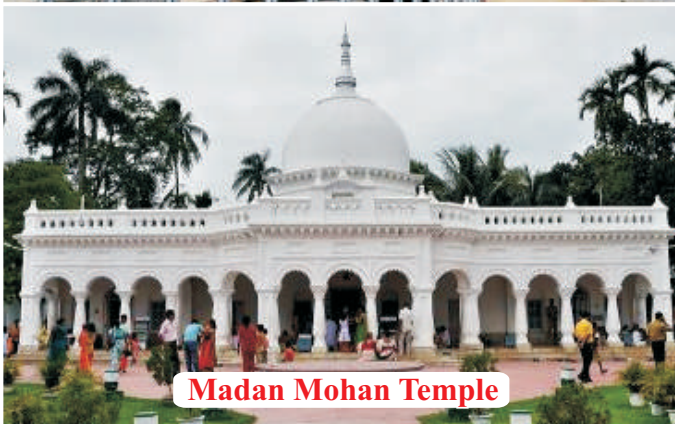
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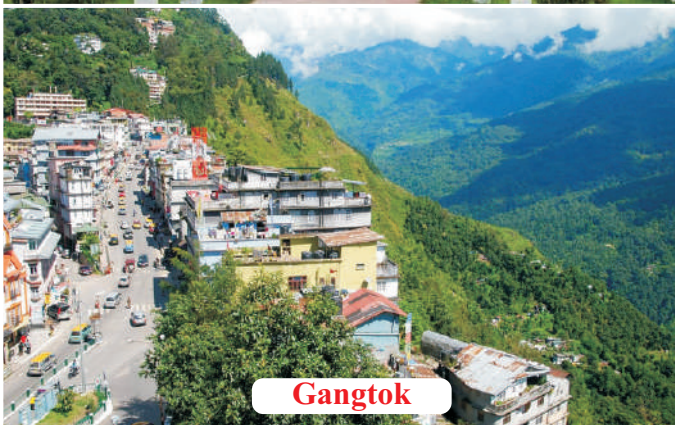
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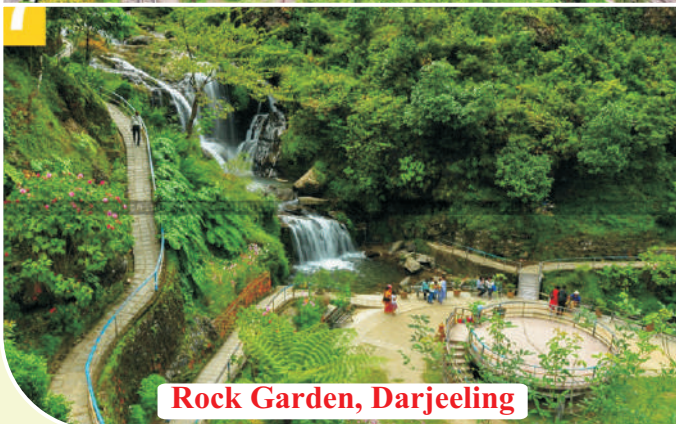
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