

SOUVENIR

International Conference on
**“Agricultural Innovations for Sustainable Development
Goals with Special Focus on Natural Farming”**
(AISDGONF-2023)



Crop and Weed Science Society (CWSS)

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ADDRESS: B 2/422, Kalyani-741235, Nadia, West Bengal, INDIA

Website: <http://www.cwss.in>



*International Conference on
“Agricultural Innovations for Sustainable
Development Goals with Special Focus on
Natural Farming”
(AISDGONF-2023)*



Organizer:

Crop and Weed Science Society (CWSS)

B-2/442, Kalyani-741235, Nadia, West Bengal, India

Website: <http://www.cwss.in>

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By

Prof. Dr. R.K. Ghosh,
President CWSS and
President,
AISDGONF 2023

Prof. Dr. A.K. Basu,
Secretary, CWSS and
Organizing Secretary
AISDGONF 2023

Dr. Kusal Roy,
Executive Editor,
J. Crop and Weed
Convener, Technical
Committee
AISDGONF 2023

Dr. Malay K. Bhowmick
Joint Secretary, CWSS
and Member, Technical
Committee, AISDGONF 23

International Conference on “Agricultural Innovations for Sustainable Development Goals with Special Focus on Natural Farming”

Crop and Weed Science Society (CWSS) is delighted to announce that the 6th CWSS International Conference on “Agricultural Innovations for Sustainable Development Goals with Special Focus on Natural Farming” (AISDGONF-2023) will be held at Kalyani, Nadia, West Bengal, India with generous support and cooperation from the University, ICAR, NABARD, Government and other organizations. Academics, researchers, professionals, and stakeholders will discuss and exchange knowledge in the areas of agriculture and allied sciences on a special platform made available by CWSS. In order to achieve the Sustainable Development Goals, the conference will showcase the cutting-edge technologies, highlight promising research and extension opportunities and outcomes, especially the natural farming and regenerative practices. The conference will focus on broad thematic areas such as crop production, crop improvement, biotic and abiotic stress management, natural resource management, natural farming, agri-horti engineering, biotechnology, ITK, economics, data and its management, agricultural extension, fisheries, animal science, sericulture, secondary agriculture and all other related fields as an engine of growth for sustainable food and nutritional security and income generation. The possibility of networking chances for you to connect with colleagues from across the world may be increased. Moreover, we've also planned for more targeted sessions with cutting-edge presentations, unique panel discussions, and lively engagement with industry leaders, policy makers and experts. Hence, we cordially invite you to attend the AISDGONF-2023 to network with your colleagues from various related fields, share knowledge and insights, and equip yourself with the most recent information to advance your expertise. We are eager to personally welcome you at Kalyani, West Bengal, India.

The estimated world population of 10 billion by 2050 will require food, fuel, fibre, flowers, livestock, fish and dairy products, production of which must be ensured. Additionally, the climatic risks and weather unpredictability are being intensified, making the situation more troublesome for crop production. The biosphere is becoming fragile due to the ethical and sustainability trade-offs present in today's livelihood options in agriculture and related businesses. Therefore, there is a need for increasing production, lowering costs, and ensuring better use of energy and natural resources, besides achieving Sustainable Development Goals (SDGs) and augmenting farm income. Natural Farming (NF) is a chemical-free agroecology based diversified farming system which integrates crops, trees, and livestock with functional biodiversity. NF in recent years is being aimed at promoting traditional indigenous practices which reduces externally purchased inputs. Farmers across the globe are already practicing regenerative agriculture in the form of either organic or natural farming. NF, being a cost-effective and ecologically compatible alternative, would be a catalyst in achieving the SDGs. The NF would ensure food security and zero hunger through better yield, diversity in cropping and access to nutritional sources and income-generating crops throughout the year. The water-conservation and ecological preservation aspects of NF contribute to the availability and sustainable management of water and reduction of CO₂ emissions in various stages of agriculture. NF would ensure good health in the community through prevention of land degradation, reduction of ocean acidification and marine pollution from land-based activities. Although innovations are in progress and industry is working to increase profits through agriculture and related activities, research still holds potential, and farmers are unable to adopt an entrepreneurial mindset due to their current level of expertise. Agriculture no longer enjoys the same level of credit it once did, and this is due to industry enjoying less convergence with the present farm produce. This is due to countries signing global reforms and poorer nations experiencing subsidy withdrawals. Increasing employment opportunities and opening the market are additional ways to find credit solutions. The main problem is attitude and enterprise composition, which can only be solved by enhancing farmers' ability to create a more sustainable, lucrative agricultural product basket that will be appealing to the market. In the new era of skillfulness, there is a need for more collaboration among industry, government and educational institutions. The academic community has a new responsibility to support this scenario by recognizing prospective advances in various arenas pertaining to agriculture from their research repositories that will make the entire process easier. In this backdrop, the Crop & Weed Science Society is going to host the International Conference on "Agricultural Innovations for Sustainable Development Goals with Special Focus on Natural Farming" (AISDGONF-2023) in order to fulfill this responsibility and provide an appropriate response to the future.

Theme:

- A. Technology outreach and agri-trade for convergence of farm with institute, industries and policy makers
- B. Frontier areas in crop production and natural resource management with special reference to Natural Farming
- C. Horticulture as a growth engine in achieving sustainable developmental goals
- D. Advances in crop improvement, biotechnological approaches and biotic & abiotic stress management
- E. Role of farm mechanization, IT, bioinformatics, postharvest technology and big data management in agriculture/ livestock farming/ fisheries/sericulture/ apiculture in achieving sustainable developmental goal.



Bidhan Chandra Krishi Viswavidyalaya

P.O. Krishi Viswavidyalaya, Mohanpur 741252

District: Nadia, West Bengal, India

Website: www.bckv.edu.in

☎: 033-25879772

03473-222666

Fax: 03473-222275

Email: bckvvc@gmail.com

sahaclimate@gmail.com

Cell : + 91-9830071278/

9433263882

Prof. Gautam Saha,
Vice Chancellor

No. VC/BCKV/114/101
Date : 18.09.2023



MESSAGE

It is a matter of immense pleasure that the **6th International Conference on "Agricultural Innovations for Sustainable Development Goals with Special Focus on Natural Farming (AISDGONF-2023)"** is being organized by **Crop and Weed Science Society (CWSS)** during September 30 - October 02, 2023 at Farmers' Academy and Convention Centre (FACC), Bidhan Chandra Krishi Viswavidyalaya, Kalyani, Nadia, West Bengal.

Agriculture is facing a big challenge to enhance food and nutritional security to meet the ever increasing human population. One of the major falling factors for productivity and degradation is emergence of various biotic and abiotic stress. Intervention of modern agricultural technologies like application of drone technology, GIS, Artificial Intelligence, etc. may sustain crop production significantly to meet out the demand of burgeoning population.

The symposium will provide a platform for the exchange of knowledge, expertise, innovative ideas, development and views among scientists and academia related to the main topic of the symposium.

I extend my cordial welcome and best wishes to all the delegates and the organizers for the grand success of this symposium.



(Gautam Saha)



উত্তরবঙ্গ কৃষি বিশ্ববিদ্যালয়

পুণ্ডিবাড়ী, কোচবিহার, পশ্চিমবঙ্গ-৭৩৬১৬৫

UTTAR BANGA KRISHI VISWAVIDYALAYA

P.O. PUNDIBARI, DIST. COOCH BEHAR, WEST BENGAL- 736165

প্রফেসর দেবব্রত বসু

উপাচার্য

Prof. Debabrata Basu

M.Sc. (Ag.), Ph.D., DDE

Vice-Chancellor

মো./Mob: +91-9434748016

ইমেল/E-mail: vc@ubkv.ac.in

vcubkv@gmail.com

ওয়েবসাইট/ Website: www.ubkv.ac.in



Message

I extend my heartfelt wishes for the resounding success of the "Agricultural Innovations for Sustainable Development Goals with a Special Emphasis on Natural Farming" (AISDGONF-2023) conference. organized by Crop and Weed Science Society (CWSS) during September 30-October 02, 2023 at FACC, Kalyani, Nadia, West Bengal, India.

In these tumultuous times, the significance of this conference cannot be overstated, given the critical importance of sustainable agriculture and natural farming in today's global landscape. As we confront formidable environmental challenges and the need to ensure food security, innovative and eco-friendly farming practices have become paramount.

AISDGONF-2023 serves as a beacon of knowledge exchange and collaboration. It offers a unique opportunity for experts, researchers, and visionaries to come together, discuss cutting-edge solutions, and shape the future of agriculture aligned with the UN Sustainable Development Goals.

I am confident that your collective efforts will not only enhance agricultural practices but also inspire a global movement towards sustainability. I bespeak my sincerest wishes for a fruitful and impactful conference.

Warm regards,

Debabrata Basu

Vice-Chancellor

Uttar Banga Krishi Viswavidyalaya (UBKV)



Samunder Singh, PhD (UK), PDF (USA)
Retd. Professor & Head, Agronomy Department
CCS Haryana Agricultural University, Hisar, India
President, International Weed Science Society
President, Haryana Agronomists Society
Director (Agronomy) Micro-Irrigation in Command Area
Development Authority, Panchkula, 134109, Haryana

Phone :+91 940160 07242 (M)
E-mail: sam4884@gmail.com;
Director.agronomy.micada@gmail.com
Web site: <http://www.iwss.info>

Bays 39-40, Sector 4, Panchkula (O)
242/15A, Hisar 125001, India (R)

30 August 2023

MESSAGE from the President

It gives me immense pleasure to know that Crop and Weed Science Society (CWSS) is organizing the 6th International Conference on Agricultural Innovations for Sustainable Development Goals with Special Focus on Natural Farming (AISDGONF-2023) at Kalyani, West Bengal (INDIA) from 30th September to 2nd October 2023. India has made great strides in Agriculture from begging bowl to net exporter of agricultural commodities. As per latest statistics, Indian agricultural export stands at USD \$60.29 bn in 2023 and hope to attain a target of \$100 bn by 2025. The major commodities include marine products (where West Bengal is the main producer), basmati and non-basmati rice, sugar, spices, meat, wheat, castor oil, other cereals, coffee, fruits and vegetables (including juice), groundnut, tobacco, tea and cotton to name a few. However, this also has a cost associated in the form of decreased system productivity due to land degradation, small land holding causing restrictions in mechanization, inadequate irrigation facilities combined with global heating, inadequate finance and market availability, poor education of farmers relying on old practices and limited access to modern technologies. The organic content of Indian soils has gone down to 0.2% making the soil less productive coupled with unbalanced use of fertilizers and pesticides that affect soil flora and fauna. Natural farming is synonymous to harnessing the potential of soil microbes where ecology has a major role to play. Soil reclamation is required to make it fertile; however, going by the pressure of 1.5 bn Indian population, it is a Herculean task to achieve without producing enough to feed every mouth from the same land area. A sustainable approach is needed where some area can be shifted to natural farming in rotation enabling its rejuvenation and at the same time producing sufficiently to meet demand of the day. To meet the demand of 2050, we need to double total food production, triple crop yields per hectare and do it on less land with much less water for sustainability.

I am sure the 6th International Conference on innovations for sustainability will have brain storming sessions to address the future challenges facing Indian Agriculture. My best wishes to the organizers.

Sincerely,

Prof. Samunder Singh



Prof. (Dr.) Nilotpal Ghosh
Professor & Head (LPM) and Former Dean
Faculty of Veterinary & Animal Sciences
West Bengal University of Animal & Fishery Sciences
37 K B Sarani, Kolkata 700037

MESSAGE

It is a matter of pride for me to share with you all that the Crop and Weed Science Society (CWSS) is organizing the 6th CWSS International Conference on 'Agricultural Innovations for Sustainable Development Goals with Special Focus on Natural Farming' during September 30 – October 02, 2023 at Farmers' Academy and Convention Centre, Bidhan Chandra Krishi Viswavidyalaya, Kalyani, Dist. Nadia, West Bengal.

It is said that India lives in villages, and the impact of agriculture on the lives of rural India is enormous. This country is a leading producer of several food commodities and food grain produces, but Indian agricultural methodology is still a high-chemical and high-irrigation based, and thus damages soil health, ecological balance, food quality and agricultural sustainability in the long run. Moreover, unfavourable climatic conditions, crop loss due to biotic and abiotic stresses, reducing land resources as well as water availability, and increase in the input cost lead to major challenges to achieve and sustain agricultural production, productivity and nutritional security. So, need of the hour is to rethink on the choice of technologies, practices, policies and strategies for innovations in sustainable crop production. This conference is nicely structured into five major themes to address the issues for sustainable food and nutritional security, income generation and better environment for all. Besides, conventional agri-horti practices with special reference to natural resource management and natural farming, it will also focus on biotechnological approaches, biotic & abiotic stress, farm mechanization, ICT & bioinformatics, big data management, post-harvest technology, cold chain management, food safety, AI, IoT & automation, climate modelling alongwith several subsectors of agriculture like livestock farming, fisheries, sericulture and apiculture. I hope this conference would provide a very good opportunity to the subject matter experts, policy makers, promoters, researchers and young scientific minds to exchange their views in their respective fields and networking with colleagues from across the globe.

I convey my best wishes and heart-felt greetings to the organizers and participants of the conference, and wish the event a grand success.

Dated, the 1st September, 2023
Kolkata

(Nilotpal Ghosh)



VIRENDER KUMAR, Ph.D.
Deputy Head - Sustainable Impact Department
Research Leader - Climate-Resilient Farming Systems
Principal Scientist- Weed Science/Systems Agronomy
International Rice Research Institute (IRRI)
Los Baños, Laguna, Philippines
Phone: +63 (2) 580-5600 ext 2704 (O)
Email: virender.kumar@irri.org

Message

I am much happy to learn that the Crop and Weed Science Society (CWSS) is going to organize the 6th International Conference on Agricultural Innovations for Sustainable Development Goals (SDGs) with Special Focus on Natural Farming (AISDGONF-2023) at Lake Hall, Kalyani, Nadia, West Bengal, India during 30 September-02 October, 2023.

Conventional production practices in the agri-food production systems lead to a several challenges and risks, which are being intensified due to climate change. There is an urgent need to address the emerging challenges and reduce the climatic risks in agriculture and allied sectors with a view to secure healthy, safe, and nutritious food for all. In Asia, where rice is a staple for the majority of the population including the region's 560 million hungry people, biofortification of rice and diversification of diets represent key strategies to improve the food security and the nutritional status of malnourished people. Similar interventions on diversified and prospective crops are required for sustainable intensification of the agri-food systems. This conference will be an excellent platform to discuss and develop strategies for promoting sustainable agricultural practices towards achieving the SDGs.

I sincerely hope that all the deliberations and discussions in the conference will come out with newer innovations, best possible interventions, and effective recommendations for bringing resilience and sustainability in the agri-food systems across different landscapes and geographies in a world challenged by climate change.

I wish the conference a grand success.

(Virender Kumar)

Dated, The Philippines
The 28 August 2023

IRRI aims to improve livelihoods and nutrition, abolishing poverty, hunger, and malnutrition among those who depend on rice-based agri-food systems. In doing so, IRRI's work protects the health of rice farmers and consumers, and the environmental sustainability of rice farming in a world challenged by climate change. IRRI's work promotes the empowerment of women and supports opportunities for youth in an equitable agri-food system.

INTERNATIONAL RICE RESEARCH INSTITUTE
IRRI is a member of the CGIAR Consortium

Mailing address PO BOX 34499, UPLB Post Office, Los Baños, Laguna 4031, Philippines
Headquarters at Los Baños Tel. +63 2 8580 5600, +63 2 8845 0563; Fax. ++63 2 8580 5699, +63 2 8845 0606
Email: info@irri.org



DR. SUDHANSHU SINGH
Director, International Rice Research
Institute-South Asia Regional Centre (ISARC)
NSRTC Campus, G. T. Road
Collectory Farm, P.O. Industrial Estate
Varanasi 221 106, Uttar Pradesh, India
Telephone: +91-542-2518900
Email: sud.singh@irri.org

MESSAGE

I congratulate the Crop and Weed Science Society (CWSS) for organizing the 6th International Conference on “Agricultural Innovations for Sustainable Development Goals with Special Focus on Natural Farming” (AISDGONF-2023) at Farmers’ Academy and Convention Centre (FACC), Lake Hall, Kalyani, Nadia, West Bengal, India during 30 September-02 October, 2023.

It’s an excellent opportunity for scientists, researchers, academicians, scholars, students, farmers, extension workers, private agencies, and entrepreneurs to discuss various aspects of scientific accomplishments and research advancements in agriculture and allied sectors. Frontier technologies and innovations are required to optimize productivity, profitability, and resilience through sustainable intensification of agri-food production systems. Moreover, we must focus on addressing the emerging challenges due to yield gaps, postharvest losses, climatic vulnerabilities, malnutrition, depleting natural resources, and declining profit margins.

I hope that the conference will deliberate on the emerging issues, challenges, and opportunities in agriculture and allied sectors and develop appropriate recommendations and strategies for achieving the SDGs whilst shaping a better future through transformative agriculture.

I wish the conference a grand success!

(Sudhanshu Singh)

Dated, Varanasi,
16 September 2023.

IRRI aims to improve livelihoods and nutrition, abolishing poverty, hunger, and malnutrition among those who rely on rice-based agri-food systems. In doing so, IRRI’s work protects the health of rice farmers and consumers, and the environmental sustainability of rice farming in a world challenged by climate change. IRRI’s work promotes the empowerment of women and supports opportunities for youth in an equitable agri-food system.

INTERNATIONAL RICE RESEARCH INSTITUTE
IRRI is a member of the CGIAR Consortium



MISSISSIPPI STATE
UNIVERSITY™

**DEPARTMENT OF PLANT
AND SOIL SCIENCES**

P.O. Box 9555
Mississippi State, MS 39762
P. 662.325.2311 F. 662.325.8742
www.pss.msstate.edu



Te-Ming Paul Tseng, Ph.D.
Associate Professor, Weed Physiology
Treasurer, International Weed Science Society
Editor, Southern Weed Science Society, USA
President-Elect, Gamma Sigma Delta International, USA

Email: t.tseng@msstate.edu

Office: 1-662-325-4725

Fax: 1-662-325-8742

Department of Plant and Soil Sciences

Mississippi State University

Box 9555

Mississippi State, MS 39762

Message

I'm truly honored and excited to accept your gracious invitation to the 6th CWSS International Conference AISDGONF-2023 in Kalyani, Nadia, West Bengal. Thank you for considering me as a Special Guest, Session Chair, and Plenary Speaker for this important event.

Participating in the "6th International Conference on Agricultural Innovations for Sustainable Development Goals (SDGs) with Special Focus on Natural Farming" offers a great opportunity to share important insights. Presenting our paper titled "Enhanced Selectivity of Herbicides in Tomato through the Safening Effects of Melatonin and 2,4,6-Trichlorophenoxyacetic Acid" adds a valuable dimension to the discussions. This study explores how adding substances like melatonin and 2,4,6-T to tomato plants can help them handle herbicides better. The study found that these substances not only reduce damage to the plants and help them grow better but also activate enzymes that detoxify harmful compounds. Our findings show that these safeners could play a key role in protecting crops from the negative effects of herbicides. This conference provides a platform for meaningful conversations and collaboration that can contribute to more sustainable farming practices and the achievement of development goals in agriculture.

I'm looking forward to engaging with fellow experts and sharing insights on agricultural innovations and sustainable development goals.

With gratitude,

Te-Ming Paul Tseng,
Associate Professor of Weed/Herbicide Physiology
662-325-4725
t.tseng@msstate.edu
(August 28, 2023)



MISSISSIPPI STATE
UNIVERSITY



COLLEGE OF AGRICULTURE AND LIFE SCIENCES
Department of Plant and Soil Sciences

P.O. Box 9555
32 Creelman Street
Mississippi State, MS 39762

P. 662.325.2598
www.pss.msstate.edu

Message

Dear Esteemed Participants of the 6th International Conference on Agricultural Innovations for Sustainable Development Goals (SDGs). I am both excited and eagerly anticipating my participation in the keynote address at the upcoming event. My presentation will delve into the exciting topic of "Advances and Challenges in the Application of RNAi for Weed Management." In this address, I aim to discuss the fascinating realm of RNA interference (RNAi) and its potential to bring about a paradigm shift in weed management within modern agriculture.

RNAi, a groundbreaking technique, leverages natural gene regulation mechanisms to silence target genes in weeds selectively. This approach promises precise and environmentally friendly weed management strategies, especially in the face of herbicide-resistant weeds.

However, the implementation of RNAi-based weed management is not without its complexities. During my talk, I will explore the challenges in developing effective sprayable RNAi solutions that maintain stability, penetrate plant cuticles, and ensure efficient absorption and translocation within plant systems. I will also discuss the importance of minimizing off-target effects to protect crops and address concerns about potential unintended ecological consequences. My goal is to address challenges and opportunities of RNAi technology in weed management.

I strongly encourage all conference participants to join us in this enlightening event. Your active engagement and contributions to the subsequent discussions will undoubtedly enhance the depth and breadth of our exploration. I eagerly await the opportunity to meet each one of you at AISDGONF-2023, which will be held at the Lake Hall in Kalyani, Nadia, West Bengal, India, from September 30th to October 2nd, 2023.

The conference has so many important topics, and it will be a stage of great discussions and scientific advances. Together, we will embark on a journey to discover the vast potential of agricultural innovations and natural farming.

Best regards,

Luis Avila

Associate Professor and Dr. Glover B. Triplett Endowed Chair

Professor in Weed Science,
Department of Export Agriculture,
Faculty of Animal Science and Export Agriculture,
Uva Wellassa University,
Badulla (90000),
Sri Lanka
Email: kapilagamini@gmail.com



MESSAGE

It is with great pleasure that I deliver this message for the 6th Crop and Weed Science Society International Conference on “Agricultural Innovations for Sustainable Development Goals with Special Focus on Natural Farming”(AISDGONF-2023) AISDGONF-2023.

It is really a wise decision making in the selection of this timely important topic in Agriculture field particularly for the Asian region. Agricultural innovations focusing on natural farming is going to be another ‘*paradigm shift*’ in agriculture after many years lapsed, in the face of current scenarios of climate change, Covid 19 pandemic, which was spread over many countries, civil wars etc. Adding insult to the injury, economic crisis has also come to the front coupled with all these vagaries affecting many countries, simultaneously. The ordinary farmer has thus been in trouble as he has to incur high cost for agro-chemicals mainly fertilizers and pesticides and as a result he gradually does away with such high cost inputs in his farming activities, ending up with a very low economic returns for his produce. Moreover, there is a tendency of moving some countries towards a culture in search of pesticide-free food commodities viz organically produced crop foods. With ever increasing population in the globe food productions activities are to be enhanced and expedited through introduction of novel technologies, with adoption of frugal water saving strategies introducing climate Smart agricultural practices and soil fertility improvement making more use of natural resources while maintaining sustainability and enhancing an ecological resilience. Furthermore, as far as the economy of farmer communities is concerned, the mind sets of rural farmer has to be changed to move towards commercial agriculture rather than remaining as a subsidiary farmer or otherwise to come them to a track, where a few of them at least can be emerged as small entrepreneurs.

It is my firm belief that the young authors will make their valuable presentations at this forum encompassing their vast knowledge and experiences on this natural farming coupled with modern technologies in Agriculture. I take this opportunity to congratulate to all of them.

At last, I wish to express my sincere thanks to the all symposium organizers for inviting me to present at this great occasion as a Special Guest, Session Chair and Deliver Plenary address.



***Asian-Pacific Weed Science Society
(APWSS)***



It is indeed a matter of great pleasure that Crop and Weed Science Society (CWSS) is organizing the International Conference from September 30 – October 02 at FACC (Lake Hall), Kalyani, Nadia, West Bengal, India. The Conference theme “Agricultural Innovations for Sustainable Development Goals with Special Focus on Natural Farming (AISDGONF-2023)” is appropriate since our country is trying to increase farm productivity in perpetuity and double the farmers’ income while maintaining ecological balance. It is an opportune time that the galaxy of scientists from around India and abroad are going to meet and deliberate on emerging challenges in improving livelihood of farmers through Agriskills convergence at various stages of crop and weed management, farming and farming based food processing and marketing. I hope outcome of this conference would benefit not only the farming community but also other stakeholders in developing effective collaborations and linkages amongst farmers, scientists, research institutions and industry.

I am confident that the Conference will provide a road map for the needed Sustainable Development Goals with Special Focus on Natural Farming of our country by attaining the desired goal of doubling farmers’ income and ensuring food and nutrient security for all.

I convey my best wishes to all the participants and organizers of the Conference with a strong hope that this conference turns out to be a productive one.

I wish the Conference great success.

Dr. Adusumilli Narayana Rao (A.N. Rao)
General Secretary, APWSS
Consultant Scientist (Weed Science)
Former Agronomist (Weed Scientist), IRRI, Egypt; IRRI, Philippines;
Former Consultant Scientist, IRRI/ICRISAT, Hyderabad
Hyderabad - 500033, India
Email: Adusumilli.narayanarao@gmail.

Shri Partha Sengupta

Director of Agriculture & ex officio Secretary

Agriculture Department
Government of West Bengal
Jessop Building, 63, N.S. Road,
Kolkata - 700 027

Phone : 033 2262-7713
Fax : 033 2262-7714
E-mail : wbdar.agri@gmail.com



শ্রী পার্থ সেনগুপ্ত

কৃষি অধিকর্তা ও পদাধিকার বলে সচিব
কৃষি বিভাগ
পশ্চিমবঙ্গ সরকার
জেসপ বিল্ডিং
৬৩, এন. এস. রোড
কোলকাতা - ৭০০০০১
দূরভাষ : ০৩৩ ২২৬২-৭৭১৩
ফ্যাক্স : ০৩৩ ২২৬২-৭৭১৪

Memo / D.O. No. 949/PSJ

স্মারক / ব্যক্তিগত স্মারক সংখ্যা

Date 22-09-2023

তারিখ ২০২৩

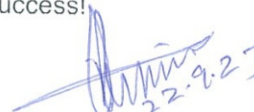
MESSAGE

It brings me immense pleasure to learn that the Crop and Weed Science Society (CWSS) is going to organize the 6th International Conference on "Agricultural Innovations for Sustainable Development Goals with Special Focus on Natural Farming" (AISDGONF-2023) at Farmers' Academy and Convention Centre, Lake Hall, Kalyani, Nadia, West Bengal from 30th September to 02nd October, 2023.

Agriculture plays a pivotal role in creating job opportunities and generating income for the rural population. Nevertheless, the farming sector faces numerous risks and challenges, including unpredictable weather conditions, limited access to credit, a shortage of market prospects, and a lack of necessary skills.

It's a great opportunity after COVID-19 pandemic for research and extension professionals, scientists, students, farmers, and other stakeholders to engage themselves in profound discussions and valuable deliberations on recent advances, innovations and interventions for addressing the emerging risks and challenges in agriculture and allied sectors, which will emerge with novel insights and strategies.

I extend my best wishes for the Conference a grand success!


(Partha Sengupta)

Director of Agriculture &
Ex-Officio Secretary
West Bengal



Dr. B. K. Chakraborty
Visiting Prof.: Shobhit Institute of
Engineering & Technology, Meerut, UP,
India; Former Project Director/Director,
Department of Fisheries, Bangladesh &
Supervisor, Bangladesh Agricultural
University; Cell phone: +8801715470855
Email: bboroty@gmail.com
Orcid ID: <https://orcid.org/0000-0002-3493-0260>



Executive Director
Mud eel, Mud crab, Aquaculture
and management Centre
6/1, Momen Tower, Chuto Bazar,
Mymensingh.
Reg. No.:2020-00058
Cell phone: +8801715470855
Email: bboroty@gmail.com



Date: 27.07.2023

MESSAGE

I am extremely delighted and privileged that 6th International Conference on “Agricultural Innovations for Sustainable Development Goals with Special Focus on Natural Farming (ALSDGONE-2023)” is going to organise by Crop and Weed Science Society (CWSS) and Bidhan Chandra Krishi Viswavidyalya (VCKB) West Bengal, India from September 30 - October 2, 2023 at Kalyani, Nadia, West Bengal, India.

According to the projected 09 billion population by 2050 (FAO 2010), it should not be easy to meet the demand for food, fodder, fuel, flower, fiber, fishery, livestock and dairy. Hunger, malnutrition, poor health and loss of biodiversity are such severe challenges which humanity and nature are going to face in the coming future. These challenges are the bottle marks in the process of human development as well. The themes of the conference are very important to mitigate the demand for ideal food, fodder, fuel, flower, fiber, fishery, livestock and dairy.

This conference will provide a platform for the research of relevant fields to contemplate and present their research papers along with the opportunity to interact with fellow researchers and academicians of their area of research. I am sure that the delegates and speakers will get a forum to exchange their ideas and come to a concrete conclusion for future developmental planning and conservation of nature and natural resources.

I congratulate the organizing President, Prof. R. K. Ghosh and organizing Secretary, Prof. A. K. Basu, CWSS and entire team for taking up this challenging but momentous initiative. I am, therefore, confident that the three days conference would witness intense academic discourse and discussions which in turn would throw up tentative solutions to the issues in consideration. With the warm welcome of distinguished scientists and delegates, I wish the conference a grand success in its objective and mission.

(DR. B.K. CHAKRABORTY)



Crop and Weed Science Society (CWSS)

Registered under West Bengal Act XXVI of 1961

B-2/442, Kalyani, Nadia, West Bengal - 741235

Registration No S/IL/24559 of 2004-2005



Message From the President 6th CWSS INTERNATIONAL CONFERENCE ON “Agricultural Innovations for Sustainable Development Goals with Special Focus on Natural Farming” (AISDGONF-2023) and President & Founder Secretary, CWSS

India ranks second worldwide in farm outputs and as per the Indian economic survey 2018, agriculture employed more than 50% of the Indian workforce and contributed 17–18% to the country's GDP. In 2016, agriculture and allied sectors accounted for 17.5% of the GDP with about 41.49% of the workforce in 2020. India ranks first in the world with highest net cropped area followed by US and China. The economic contribution of agriculture to India's GDP is steadily declining with the country's broad-based economic growth. This is mainly due to late adopting of LEISA in lieu of HEIA that adopted during different revolution period from our original LEIA. Still, agriculture is demographically the broadest economic sector and plays a significant role in the overall socio-economic fabric of India. The total agriculture commodities export was US\$3.50 billion in March - June 2020. India exported \$38 billion worth of agricultural products making it the seventh-largest agricultural exporter worldwide and the sixth largest net exporter. Indian agricultural/horticultural and processed foods are exported to more than 120 countries.

The Second Advance Estimate 2021-22 (Production of Major Crops Ministry of Agriculture & Farmers Welfare India –16th February, 2022) showed that the Total food grain production – 316.06 mt (Record) - Cereals: Paddy- 127.93 mt (Record); Wheat- 111.32 mt (Record) ; Maize- 32.42 mt (Record) ; Nutri-cereals: (Jowar, Bajra, Ragi): 49.86 mt; Pulses: 26.96 mt (Record); Oilseeds: 37.15 mt; Sugar crops: Sugarcane- 414.04 mt (Record) ; Fibre crops: Cotton -34.06 m bales (1 bale = 170 kg); Jute & Mesta – 9.57 m bales (1 bale= 180 kg). Tuber crops: Potato 53.69 mt; Bulb Crops: Onion 27 mt; Spices: 3 mt; Vegetables: 196 mt ; and Fruits: 102 mt. The Livestock sector contributes 11% GDP and 25.6% of total Agriculture GDP. The Value of Output from Livestock sector was Rs.12,60,167 crores according to National Accounts Statistics-2018. All these benchmarks are because of the hard work of agricultural scientists and farmers inspite of Covid incidents during the last three years.

In India the population is around 1.39 billion and unfortunately India still stands 124th in the developmental index (Poor Nutrition) and 126th in the list of 137 countries (World Happiness). The Food and Agriculture Organization (FAO) of the United Nations and many scientists also indicated that because of soil degradation (unnecessary use of toxic chemicals) only 60 harvesting years are left. The Earth's average land and ocean surface Temperature in 2022 was 1.55 degrees F (0.860 C) above the 20th century average of 57.0 degrees F (13.90 C) — the 6th highest among all years in the 1880-2022 (Record).

In this context, the Crop and Weed Science Society after emerging in India since 2005, conducted 30 various programmes including six international conferences till date to find out solutions at different crucial stages and now the prospects of use of green sustainable agriculture in India. A fruitful solution will definitely be outcome from this conference and this will help to adopt LEISA in India in a much better way with cooperation of all agricultural scientists of institutions & corporates and farmer friends.

I wish every success of this 6th International Conference on Agricultural Innovations for Sustainable Development Goals with Special Focus on Natural Farming (AISDGONF-2023).

29/09/2023

(Prof. R. K. Ghosh)
Message Secretary, CWSS



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Ref. CWSS/2023/24

Date: Sept. 24, 2023

**From: Prof. Asit Kumar Basu, FISST, CWSS Gold Medal
Organising Secretary, AISDGONF &
General Secretary, CWSS,**



We are proud enough to observe the consistent and effective activities of our society since its inception for the betterment of mankind especially for our dear members of farming community, the strongest component of our society. Still we, all the members of CWSS, should remain engaged with acts of attaining higher and better quality crop production through different crop improvement technologies, incorporation of well accepted newly developed types into the seed chains and its better management, and sustenance of continued fruitful relation with the farmers so that challenges can be made to overcome the deleterious effect of changing climatic condition and feed the ever increasing population with higher satisfactory level.

Considering such constraints, the 6th CWSS International Conference on "Agricultural Innovations for Sustainable Development Goals with Special Focus on Natural Farming" (AISDGONF-2023) has been scheduled to organize during September 30 to October 02, 2023 by our beloved society. We are well experienced with such huge gatherings of eminent scientists and researchers engaged in Universities in India and abroad, ICAR institutes and other research organizations, Policy makers, corporate sectors including our beloved farmers for these noble causes. We have grateful to receive the overwhelming response from different constituent sections in spite of holding a good number of similar mega events across the world by various organisers. It's our pleasure to mention that presently the Journal of Crop and Weed Science publishing by CWSS is maintaining the NAAS rating as 5.46 and continuous efforts are there to achieve the higher rate, for which every sorts of involvement and cooperation are needed from every sectors.

I, on behalf of CWSS and Organising Committee, AISDGONF, express our sincere gratitude to all members of different components of this august gathering during this mega event. Organising this programme has been made possible with generous help, cooperation and active support of different corners, especially the Honorable Vice Chancellor and his office, both state and central Government establishments, ICAR, the Sponsors, the participants and the members of the society.

Threadbare discussion and interaction among the participants during this International conference will lead to emerge out some significant outcome, I strongly believe, which will be helpful in policy making for the betterment of farming community and mankind as a whole. Hope, active involvement with positive suggestion of the participants of all corners will lead the AISDGONF a grand success.

(Asit Kumar Basu)



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CWSS Activities

The Crop and Weed Science Society (CWSS) is an Organization of Scientists, Teachers, Researchers, Students, Farmers, Corporates, NGOs and Other Individuals or Organizations willing to participate in the development of agriculture and allied fields. Since its inception, the CWSS is engaged for the betterment of agriculture and allied sectors. The main activities of this Society encompass promoting new, ongoing and fundamental agricultural research and technologies through Publications, Demonstrations, Awareness cum Training programmes, recognizing commendable works in the field of agriculture and allied sectors through Awards and Felicitations. The Society is gaining popularity day by day as evident from its membership details and the circulation of its publications in CABI, ICAR, AGRICOLA etc. The Journal is available both Online (ISSN 2349 9400) and Print (ISSN 0974 6315) version. Online version of the Journal is available at www.cropandweed.com. The *Journal of Crop and Weed* is ranked in 2020 by NAAS (5.46), Index Copernicus International (ICV- 74.54), International Scientific Indexing (ISI) (Impact Factor 1.437), Infobase Index (2.93) and Cosmos Impact Factor (5.963). The Journal has received the CODEN code: JCWOAT and has been added to the data base of Electronic Journals Library, National Science Library (NSL), New Delhi, FAO database AGRIS, abstracted in AGRICOLA, USA and also other many abstracting and indexing authorities, whereas the Crop and Weed Science News is being published biannually, covering crop and weed related happenings and updates across different geographies.

Any interested Individual or Organization in the above goal of the Society are welcomed to become a member of the Society as Individual Member / Institutional Member / Corporate Member etc. with a view to achieve the goal of developing agriculture around the world.

LINKAGES OF CWSS

MEMBERSHIP:

- Life Membership: India, Australia, USA, Spain, Bulgaria, Indonesia, Malaysia, Philippines, Sri Lanka Bangladesh etc.
- Teachers, Research Scientists and Students from Universities of West Bengal (BCKV, UBKV, WBUAFS, VB, PU, CU, KU, BU, NBU, IIT, Vivekananda, SNU, GIET, SUSRIJO) etc.
- Teachers, Research Scientists and Students from Universities of other States of India – Arunachal Pradesh, Assam, Bihar, Haryana, Himachal Pradesh, Jammu & Kashmir, Jharkhand, Karnataka, Kerala, Madhya Pradesh, Manipur, Nagaland, Odisha, Punjab, Tamil Nadu, Tripura, Sikkim, Uttar Pradesh, Uttaranchal, Maharashtra, Chhatisgarh, Andhra Pradesh, Telengana, Rajasthan etc.
- Research Scientists and Officers from ICAR organizations like Central Research Centre for Jute & Allied Fibres (CRIJAF), Kolkata, West Bengal; Directorate of Weed Research (DWR), Jabalpur, MP; NRC Orchids, Sikkim; Central Sericulture Research and Training Institute (CSR&TI), Berhampur, WB; National Rice Research Institute (NRI), Cuttack, Odisha; Central Textiles Institute; KVK under BCKV, OUAT, UBKV etc.
- Directors and Research Scientists of Department of Agriculture, Horticulture and Allied sectors, Government of West Bengal and Government of India
- Institutional Membership: Various SAUs of India and National Research Institutions; Fertilizer, Bank and Pesticides Industries including from Abroad Japan and NGO's
- Member in Editorial Advisory Board of the Society Published Journal of Crop and Weed: National and International Renowned Scientists
- Farmer Member: Farmers engaged in agriculture and allied sectors in INDIA.

CWSS PUBLICATION

Journal of Crop and Weed: The Crop and Weed Science Society (CWSS), erstwhile West Bengal Weed Science Society (WBWSS), has been engaging since 2005 in bringing out the Indian Council of Agricultural Research (ICAR), New Delhi funded **Journal of Crop and Weed**. The Journal is available both Online (ISSN 2349 9400) and Print (ISSN 0974 6315). Online version of the Journal is available at www.cropandweed.com. The *Journal of Crop and Weed* is ranked in 2020 by NAAS (5.46), Index Copernicus International (ICI- 74.54), International Scientific Indexing (ISI) (Impact Factor 1.437). The Journal has received the CODEN code: JCWOAT and has been added to the data base of the Electronic Journals Library, National Science Library (NSL), New Delhi.

Newsletter: Crop and Weed Science News (CWSS Newsletter) has been published in a regular manner since 2004.

CWSS activities and accomplishments are being highlighted in IWSS, APWSS, ISWS & EPPO NEWSLETTER, ISCA JOURNAL, SRI GOOGLE, BCKV NEWS, INDIAN NEWS PAPERS and many other Newsletters.



CWSS AWARDS AND FELICITATIONS

CWSS LIFE TIME ACHIEVEMENT AWARD		
2008	Prof. S. Sankaran	Former Vice-Chancellor, Tamil Nadu, India
2014	Prof. Prasanta C Bhowmik	University of Massachusetts, Amherst, USA
2017	Dr. S. Ayyappan	Former Director General, ICAR, New Delhi, India
	Dr. Arun Vishnu Dhuri	Vice- President, Excel Crop Care Ltd, Mumbai, India
	Mr. Atul Churiwal	MD and Head, Krishi Rasayan Group, India
CWSS GOLD MEDAL AWARD		
2006	Dr. M. Rai,	DARE, Ministry of Agriculture and DG, ICAR, India
	Mr. P. Mazumdar	President Crop Life India and CMD, M/S Syngenta India Ltd.
2007	Prof. Prasanta C Bhowmik	Professor, University of Massachusetts, Amherst, USA
	Dr. N. T. Yaduraju	Former Director, NRCWS, ICAR, Jabalpur, MP and National Coordinator, NAIP, ICAR, New Delhi, India
	Dr. A. K. Gogoi	ADG (Agronomy), ICAR, New Delhi, India
	Dr. D. Konar	Director of Agriculture, Government of West Bengal, India
	Mr. S. Singhal	CMD, M/S PI Industries, Gurgaon, Haryana, India
2008	Prof. J. G. Varshney	Director, NRCWS, ICAR, Jabalpur, MP, India
	Prof. B. B. Mandal	Former Head, Department of Agronomy, BCKV and Founder President, CWSS, BCKV, West Bengal, India
2009	Prof. T.V. R. Prasad	Professor, Department of Agronomy, UAS, Bangalore, India
	Prof. S. Maiti	Former Head, Department of Agronomy, BCKV, India and Founder Chief Editor, Journal of Crop and Weed, CWSS, BCKV
	Dr. O.P. Singh	CMD, M/S Dhanuka Agrotech, India
2010	Dr. T.P. Rajendran	ADG (Plant Protection), ICAR, New Delhi, India
	Dr. Ajit Kumar	Vice President, M/S United Phosphorus, India
	Prof. J. Rammohan	PJNCA&RI, Puducherry, TNAU, India
2011	Prof. N. N. Angiras	Professor of Agronomy, CSKHPKV, Himachal Pradesh, India
	Prof. A.P. Patra	Professor of Agronomy, BCKV, West Bengal, India
2012	Prof. A. Bhattacharyya	Former Head, Department of Agricultural Chemicals, BCKV, India and President, CWSS, BCKV
	Dr. A. G. Powar	Senior Vice President (T&D) M/S Indofil Chemicals Company, Mumbai, India

	Dr. V.D. V. N.H. Kumar	Zone Development Manager (SW Asia, Middle East & SE Africa), Bangkok, M/S FMC Agricultural Products
2013	Prof. Avijit Sen	Professor of Agronomy, Institute of Agricultural Sciences, BHU, UP
	Dr. Arun Vishnu Dhuri	Vice President, BD, Excel Crop Care Limited, Mumbai, India
	Dr. Sajal Kumar Biswas	GM, Technical & Registration, Indofil Industries Limited, Mumbai
2014	Prof. Rati Kanta Ghosh	Professor of Agronomy and Founder Secretary, CWSS, BCKV
	Prof. C.T. Abraham,	Professor of Agronomy (Agriculture), KAU, India
	Prof. C. Chinnusamy	Professor of Agronomy (Agriculture), TNAU, India
2016	Prof. K. Sengupta	Head, Department of Agronomy, BCKV, West Bengal, India
	Prof. J Tarafder	Professor of Plant Pathology, BCKV, Nadia, West Bengal
2017	Prof. Asit Kumar Basu	Professor of Seed Science and Technology (Agriculture), BCKV
	Dr. Mayank Yadav	R&D Leader (Crop Protection), Dow Agro Sciences India Pvt. Ltd. Mumbai, India
	Mr. Sanjay Chaudhary	Director, Sinochem India Pvt. Ltd., New Delhi
	Dr. Bineet Kumar Sharma	Sr. Manager- Regulatory Biology ADAMA (Formerly known as Makhteshim-Agan) India Pvt. Ltd), Hyderabad, Telangana, India
	Dr. M. Muralikrishna	GM Registration & PD, Biostadt India Pvt Ltd
	Mr. Govind Sawant	General Manager (Agro Marketing), Hikal Ltd., Mumbai, India
2018	Prof. Dr. Narayan Chattopadhyay	Professor & Former Head, Department of Plantation, Spices, Medicinal and Aromatic Crops, F/ Horticulture, BCKV, India
2019	Prof. Apurba Ratan Ghosh	Head, ES, University of Burdwan, West Bengal, India
	Dr. Bineet Kumar Sharma	GM, Adama India Pvt. Ltd., Hyderabad, India
	Mr. Jayanta Chakraborty	GM, Indofil Industries Ltd., India
2020	Mr. Ravi Hegde	GM, UPL Ltd., India
	Mr. Sushil Mishra	GM, Crystal Crop Protection Pvt. Ltd., India
	Dr. Sanjay Singh	GM, Sinochem India Co. Pvt. Ltd., New Delhi
2021	Dr. Sudhanshu Singh	Director and Principal Scientist (Agronomy), IRRI South Asia Regional Centre, Varanasi 221106, Uttar Pradesh, India
	Dr. Mritunjay Ghosh	Professor of Agronomy, BCKV, West Bengal
2022	Dr. Virender Kumar	Principal Scientist (Weed Science / Systems Agronomy) and Deputy Platform Leader (Sustainable Impact, International Rice Research Institute, (IRRI); Los Banos, Laguna, Philippines
2023	Dr. Binay. K. Chakraborty	Professor Binay Kr. Chakraborty, Consultant and Researcher, Department of Fisheries, Bangladesh
	Dr. Sanjay Saha	Head, Division of Crop Production, ICAR-CRIJAF, Barrackpore, Kolkata, West Bengal
CWSS FELLOW AWARD		
2006	Dr. Prafulla Kumar Mandal	Additional Director of Agriculture (Commercial Crops), Directorate of Agriculture, Government of West Bengal Kolkata, India
	Dr. Arun Vishnu Dhuri	GM (R&D), M/S Excel Crop Care Ltd., Mumbai, India
2008	Prof. C. T. Abraham	Head, Department of Agronomy, KAU, India
	Mr. Prabir Kumar Ghosh	GM (R&D), M/S Krishi Rasayan, Kolkata, West Bengal, India
	Mr. Satish Tiwari	RM (East), M/S Nagarjuna Chemicals, West Bengal, India
2009	Dr. Pradip Kumar Sahu,	AP, Department of Agricultural Statistics (Agriculture), BCKV, India
	Mr. Jayanta Chakraborty	RGM (R&D), M/S Indofil Chemicals Company, Kolkata, India
2010	Dr. Binay K. Chakraborty	Fisheries Officer, Govt. of People's Republic of Bangladesh
	Dr. Subrata G. Chaudhuri	Central Agriculture Research Institute, Andaman, ICAR, India
	Dr. P. Raha	Professor, Institute of Agricultural Sciences, BHU, Varanasi, UP
	Dr. Viswanath Gade	GM (R&D), M/S PI Industries, Gurgaon, India
	Dr. Sanjoy Saha	Sr. Scientist, CRRI, Cuttack, Orissa, India
	Dr. Anup Gupta	RM, PI Industries Ltd., Kolkata, West Bengal, India
2012	Mr. Soumen Majumdar	President, CCF (East) and GM (East), Cheminova India Ltd., India
	Dr. Debesh Pal	Associate Professor of Agronomy (Agriculture), BCKV, India

	Dr. Sitangshu Sarkar	In-Charge, Sisal Research Station, CRIJAF, ICAR, Orissa, India
	Dr. Mrs. Arpita Roy	Manager (Registration & Regularity Affairs), M/S Makhteshim Agan India Limited, Hyderabad, India
	Dr. Sanjay Chaudhary	Manager (Registration & Regularity Affairs), M/S Sinochem India Company Pvt. Ltd., New Delhi, India
2013	Prof. Protit Bandyopadhyay	Professor of Agronomy (Agriculture), BCKV, West Bengal, India
	Prof. Jitesh Kumar Hore	Professor, Department of Spices and Plantation Crops (Horticulture), BCKV, West Bengal, India
	Dr. Anand Jha	DGM, Product Development & Regulatory Affairs, UPL, New Delhi
	Dr. Rajeev Goel	DGM, Registration, Crystal Crop Protection Private Ltd., New Delhi
2014	Prof. Pintoo Bandopadhyay	Professor of Agronomy (Agriculture), BCKV, India
	Prof. Koushik Brahmachari	Professor of Agronomy (Agriculture), BCKV, India
	Dr. Suresh Kumar	Principal Agronomist, DEE, CSKHPKV, Palampur, HP, India
	Dr. Sanjay Singh	Assistant Manager, Product Development and Regulatory, M/S Sinochem India Company Pvt. Ltd., New Delhi, India
	Dr. B. Ananda Krishnan	Product Development Manager, FMC AS, Bangalore, India
	Mr. Prajwal P. Nalavade	DGM, Registration & Regulatory Affairs, Excel Crop Care, Mumbai,
2015	Prof. Mrityunjay Ghosh	Professor of Agronomy (Agriculture), BCKV, West Bengal, India
	Dr. D. Barman	Principal Scientist, ICAR-NRC Orchid, Pakyang, Sikkim
	Dr. B. Duary	Associated Professor ASEPAN, PSB, Visva Bharati, Sriniketan
2016	Dr. Soumitra Chatterjee	Assistant Professor in Agricultural Economics, BCKV, India
	Prof. Dhananjoy Dutta	Professor of Agronomy (Agriculture), BCKV, West Bengal, India
	Prof. Narayan Chattopadhyay	Professor & Former Head, Department of Spices and Plantation Crops (Horticulture), BCKV, West Bengal, India
2017	Prof. Sukanta Pal	Professor of Agronomy (Agriculture), BCKV, India
	Prof. Arup Chattopadhyay	Professor, AICRP on Vegetable crops, BCKV, India
	Prof. C. Jayanthi	Director, Directorate of Crop Management, Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu, India
2018	Dr Hirak Banerjee	Associate Professor in Agronomy, Regional Research Station (Coastal Saline Zone), BCKV, Kakdwip, West Bengal, India
	Prof. Siddhartha S Mukhopadhyay	Senior Pedologist, Dept. of Soil Science and Director of Electron Microscopy & Nanoscience Laboratory, Punjab Agricultural University, Ludhiana
	Dr. Surajit Mitra	Professor and Head, Department of Post Harvest Technology Faculty of Horticulture, BCKV, West Bengal, India
2019	Dr. Amitava Rakshit	Assistant Professor, Banaras Hindu University, UP, India
	Dr. Pijush Kanti Mukherjee	Principal Scientist, ICAR-IVRI, Izatnagar, India
	Dr. Md. Nasim Ali	Associate Professor, BCKV, West Bengal, India
	Mr. Laltu Mandal	GM, PI Industries Ltd., India
2020	Dr. Manas Kumar Bag	Principal Scientist, ICAR-NRRI, Cuttack, Odisha, India
	Dr. Kusal Roy	Assistant Professor, Department of Agril. Entomology, BCKV India
	Dr. Malay Kumar Bhowmick	Assistant Agronomist, WBAS (Research), Govt. of West Bengal
	Dr. Mrs. Sabita Nath	GM, Crystal Crop Protection Pvt. Ltd., India
	Mr. Sajal Biswas	GM, Adama India Pvt. Ltd.
	Dr. Suhrid Ranjan Barik	GM, Corteva Agriscience, India
2021	Dr. Y. S. Shivay	Principal Scientist, ICAR-IARI, New Delhi
	Dr. S. K. Bordolui	Assistant Professor, Department of Seed Science and Technology, BCKV, Nadia, West Bengal
2022	Dr. Biplab Mitra	Professor and Head, Department of Agronomy, UBKV, India

	Dr. Indrani Dana	Joint Director of Agriculture (Rice Dev.), Rice Research Station, Chinsurah, DOA, Govt. of West Bengal
	Dr. Debasish Borah	Senior Scientist and Head, KVK Udalguri District, P.O.-Lalpool-784 514, BTAD, AAU, Assam, India
2023	Dr. Arup Ghosh	Senior Principal Scientist, Divisional Chair (Head), Applied Phycology and Biotechnology Division, CSIR- CSMCRI, Bhavnagar, G.B. Marg, Bhavnagar, India
	Dr. J. Suresh Kumar	Sr. Scientist, Horticulture (Vegetable Science), Division of Crop Production, ICAR - Central Tuber Crops Research Institute (CTCRI), Sreekariyam-695017, Thiruvananthapuram Kerala, India
	Dr. Abhijit Saha	Assistant Professor, Agriculture, Lembucherra, West Tripura
	Dr. Pradeep Mishra	Assistant Professor (Statistics), Rewa, JNKVV, MP
CWSS YOUNG SCIENTIST AWARD		
2008	Dr. B. Duary	Lecturer, Agronomy, ASEPAN, PSB, Visva-Bharati, India
2009	Mr. M. K. Bhowmick	RRS, Chinsurah, Directorate of Agriculture, West Bengal, India
2010	Dr. P. K. Mukherjee	Department of Agronomy, UBKV, Cooch Behar, West Bengal, India
	Dr. Manojit Ghosh	Manager (PR&D), M/S Makhteshim- Agan India Ltd., Hyderabad
2011	Dr. Sankar Saha	Jr. Scientist, KVK, Balurghat, West Dinajpur UBKV, India
2012	Dr. Dhiman Mukherjee	Agronomist, Kalimpong, UBKV, West Bengal, India
	Dr. Bidhan Roy	Department of Seed Science, UBKV, Cooch Behar, West Bengal
	Dr. Manoj Mukherjee	Product Development Officer, M/S FMC India, Bangalore, India
2013	Dr. Kalipada Pramanik	Assistant Professor, Agronomy, ASEPAN, Visva-Bharati, India
	Dr. Hiral Banerjee	Assistant Professor Agronomy (Agriculture) BCKV, India
	Dr. Kusal Roy	Assistant Professor, Agricultural Entomology (Agriculture), BCKV
	Mr. Milan Biswas	Sr. FDE, Development and Regulatory Affairs, Bayer Crop Science
2014	Dr. Subhra Saikat Roy	Scientist, ICAR Research Complex for NEH region, Manipur
	Dr. Amalendu Ghosh	ICAR IARI Research Station, Kalimpong, Darjeeling, West Bengal
	Dr. Suhrid Ranjan Barik	Sr. Technical Executive (Eastern India), Indofil Industries, Kolkata
2015	Dr. Asis Mukherjee	Assistant Professor, AICRP on Agro Meteorology, BCKV, India
	Dr. Kironmay Barui	SMS (Agronomy), Hooghly KVK - ICAR, BCKV, India
	Dr Sandip Patra	Scientist, ICAR Research Complex, NEH, Umiam, Meghalaya
	Dr S S Gantait	Assistant Professor, Floriculture and Landscaping, BCKV, India
2016	Dr. Sanjoy Kumar Bordolui	Assistant Professor, Seed Science and Technology, BCKV, India
	Dr. Md. Nasim Ali	Associate Professor, Agricultural Biotechnology BCKV, India
	Dr. Lakshman C. Patel	College of Agriculture (Burdwan campus), BCKV, India
	Dr. Suresh Chatterjee	Assistant Entomologist, RRS, Chinsurah, Govt. of West Bengal
2017	Dr Chiranjit Kundu	Product Development Manager (East), ADAMA India, Hyderabad
	Dr. (Mrs.) Amrita Banerjee	ICAR_NRRI, CRURRS, Hazaribag, Jharkhand. (ICAR, NEHU)
	Dr. Sanjib Kumar Das	Assistant Professor, Agronomy BCKV, West Bengal, India
	Dr. Mrs. Sunita Mahapatra	Assistant Professor, Plant Pathology, BCKV, West Bengal, India
2018	Dr. Utpal Giri	Department of Agronomy, West Tripura, Lembucherra, Tripura
	Dr. Joydeep Banerjee	Assistant Professor, Genetics and Plant Breeding (SSMP), BCKV
	Dr. Pritam Ganguly	Assistant Professor-cum-Junior Scientist, BAU, Sabour, Bihar
2020	Dr. Debashis Mandal	Assistant Professor, Department of Horticulture, Aromatic & Medicinal Plants, Mizoram University, Aizawl, Mizoram, India
CWSS Young Scientist Award list for the year 2021-22 and 2022-23 will be enlisted in website after completion of the 6 th International Conference (in November 2023).		

CWSS FELICITATION		
2007	Prof. D. K. Bagchi	Vice-Chancellor, BCKV, Mohanpur, Nadia, West Bengal, India
	Prof. S.K. Sanyal	Director of Research, BCKV, Nadia, West Bengal, India
2008	Dr. R. K. Samanta	Vice-Chancellor, BCKV, Mohanpur, Nadia, West Bengal, India
2009	Prof. S.K.T. Nasar	Former Director of Research, BCKV, Nadia, West Bengal, India
	Prof. Iswandi Anas	Professotr, Bogor University, Indonesia
	Prof. M. M. Adhikary	Dean, Faculty of Agriculture, BCKV, Nadia, West Bengal, India
	Mr. P. S. Lahiri	CMD, M/S Isagro (Asia) Agrochemicals, Mumbai, India
2010	Prof. G. G. Maity	University of Kalyani, West Bengal, India
	Prof. B. Sinha Mahapatra	Director, CRIJAF, ICAR, Barrackpure, Kolkata, India
	Prof. S. N. Ghosh	Dean, Faculty of Horticulture, BCKV, Nadia, West Bengal, India
	Mr. S. K. Biswas	MD, M/S Indofil Chemicals Company, Mumbai, India
2011	Prof. Norman Uphoff	Father of SRI, CIIFAD, Cornell, USA
	Prof. Sisir Kumar Mukhopadhyay,	Former Vice-Chancellor, Visva-Bharati, Bolpur, Birbhum, India
	Prof. S. K. Sanyal	Vice-Chancellor, BCKV, India (Special Felicitation, INS 11)
	Prof. S. K. Datta,	DDG, Crop Science, ICAR, India (Special Felicitation, INS 11)
	Dr. Jay G. Varshney	Director, DWSR, ICAR, India (Special Felicitation, INS 11)
	Dr. John R. Leeper	RiceCo, LLC, USA (Special Felicitation, INS 11)
	Prof. Nimal Chandrasena	ALS Water Sciences Group, Australia
	Prof. Ranjit Kumar Biswas	Dean, Faculty of Agricultural Engineering, BCKV, India
2012	Dr. Bernhard Grimmig	Head, Project Management and Technical Development, M/S Bayer Crop Science Ltd., Mumbai
2013	Mr. Pradip Mazumdar	Advisor- Agriculture and Allied Sectors to Honorable CM, Govt. of West Bengal; Former Chairman, CLI & MD (Rtd.), Syngenta
	Dr. Ravindra Kumar	ADG (Coord.), ICAR, Krishi Bhavan, New Delhi, India
	Dr. D. S. Rana	Principal Scientist, IARI and Secretary, ISA, Pusa, New Delhi
	Dr. B. Gangwar	Project Director, Directorate of Farming System Research Indian Council of Agricultural Research (ICAR), Modipuram, UP
2014	Prof. Chittaranjan Kole	Vice-Chancellor, BCKV Mohanpur, West Bengal, India
	Prof. Biswapati Mandal	Pro Vice-Chancellor, BCKV, Mohanpur, West Bengal, India
2015	Prof Asit Kumar Chakravarti	Vice-Chancellor, BCKV, Mohanpur, Nadia, West Bengal
2016	Dr. Dharani Dhar Patra	Vice-Chancellor, BCKV, Mohanpur, Nadia, West Bengal
	Prof. Tapan Kumar Maity	Dean, Faculty of Horticulture, BCKV, Nadia, West Bengal, India
2017	Prof. Purnendu Biswas	Vice-Chancellor, WBUFAS, West Bengal, India
	Dr. Chirantan Chattopadhyay	Vice-Chancellor, UBKV, Cooch Behar, West Bengal, India
	Prof. Sankar Kumar Ghosh	Vice-Chancellor, University of Kalyani, West Bengal, India
	Prof. Steve Adkins	School of Agriculture and Food Science, University of Queensland Brisbane, Australia
	Prof. Hisashi Kato-Noguchi	Kagawa University, Miki, Kagawa, 761-0795, Japan and Vice-President of Asian Allelopathy Society
	Prof. Shekhar Sharma	Former Head of Department of Plant Health & Environmental Protection, Agri-Food and Biosciences Institute, Queens University, Belfast, UK
	Prof. Ahmet Uludag	Interim Dean, Faculty of Agriculture and Nature Sciences, Duzce University, Duzce, Turkey
	Prof. Tapas Biswas	Senior Academic (Adjunct), Fenner School of Environment and Society, College of Medicine, Biology and Environment, Australian National University, Canberra ACT 2601, Australia
	Dr. P. Bhattacharyya	OSD & Ex-Officio Director of Agriculture, Government of WB
	Dr. A K Mukhopadhyay	Chief General Manager, NABARD, Kolkata, West Bengal, India
2018	Dr. Yashbir Singh Shivay	Principal Scientist & Professor (Agronomy) (FNAAS & FISA)
2019	Mr. Subrata Mandal	Chief General Manager, NABARD, Kolkata, West Bengal
	Dr. V. Sivaprasad	Director, CSR&TI, Central Silk Board, Ministry of Textiles, India

	Dr. Vandna Gupta	General manager, PD, UPL Ltd, India
2023	Prof. Dr. Samunder Singh President, International Weed Science Society, USA, Haryana Agricultural University, Haryana, India	President, International Weed Science Society, USA Haryana Agricultural University, Haryana, India
	Prof. Dr. Luis Avila Secretary, International Weed Science Society, Mississippi State University, Starkville, Mississippi, USA	Secretary, International Weed Science Society, Mississippi State University, Starkville, Mississippi, USA
	Prof. Dr. Te Ming Tseng	Department of Plant and Soil Sciences, Mississippi State University, 32 Creelman St., Mississippi State, MS, 39762, US
	Prof. Dr. K.G. Prematilake	Professor in Weed Science, Department of Export Agriculture, Faculty of Animal Science and Export Agriculture, UVA Wellassa University, Passara Road, 90000 Badulla, Sri Lanka
CWSS RECOGNITION AWARD		
2012	Dr. John R. Leeper	Rice Technology Leader, RiceCo International, Inc., USA
	Dr. Provash Chandra Das	Former Teacher, Barabainan Union Samabay Krishi Samity Sikshaniketan (Higher Secondary), Raina, Burdwan, West Bengal
	Prof. S.P. Bhattacharya	Professor (Rtd.), Agronomy & Founder Member CWSS, BCKV
	Prof. B. K. Mandal	Professor (Rtd.), Former Head, Agronomy; Former Working President and Founder Member, CWSS, BCKV, West Bengal
	Prof. D. Mukherjee	Professor (Rtd.), Soil Science and Ag. Chemistry BCKV, WB
	Prof. G. Sounda	Professor (Rtd.), Agronomy; Former Director of Farms & Dean, Students' Welfare, BCKV & Former Secretary, CWSS, BCKV
2012	Prof. S.S. Mandal	Former Head, Agronomy (Agriculture), BCKV, West Bengal, India
	Prof. Md. Mahasin	Professor (Rtd.); Former Head, Entomology, BCKV, West Bengal
2014	Prof. R. C. Samui	Professor (Rtd.) Agronomy (Agriculture), BCKV, West Bengal, India and Former Principal, College of Agriculture, Tripura
	Prof. A. L. Kundu	Professor (Rtd.) Agronomy (Agriculture) and Former Dean, Students' Welfare, BCKV, West Bengal, India
	Prof. A. K. Mukherjee	Professor (Rtd.) and Former Head, Agronomy (Agriculture), BCKV and Founder Member, CWSS, BCKV, India
	Prof. Dilip Kumar Khan	Professor, Department of Environmental Science, University of Kalyani, Kalyani, West Bengal, India
2015	Prof. Anil C. Pradhan	Professor (Rtd.) Agronomy (Agriculture) BCKV, India
	Prof. P. S. Bera	Professor (Rtd.) and Former Head, Agronomy, BCKV
2020	Prof. Ricardo E. Labrada	Professor, Agriculture (Weed Science), Valencia, Spain
	Prof. Tapas K. Biswas	Professor, Water Management, Canberra, Australia
	Prof. A. N. Rao	General Secretary, APWSS and Professor, Agriculture,
	Prof. Samunder Singh	Professor, Agriculture, HAU and Secretary, IWSS, USA
	Dr. Sampad Ranjan Patra	Director of Agriculture and Ex-Officio Secretary, Govt. of WB
	Prof. Asit Kumar Sarkar	Professor in Agronomy, Agriculture, BCKV, West Bengal
	Prof. R. K. Sarkar	Professor, Agriculture, University of Calcutta, West Bengal
	Dr. Anand Jha	General Manager, UPL Ltd., New Delhi
	Dr. Mayank Yadav	General manager, Corteva Agriscience, Hyderabad
CWSS FARMER RECOGNITION AWARD		
2014	Sri Manash Kumar Roy	Progressive Farmer & Secretary, Pragati Farmers' Club, Fulkalmi, Krishnanagar, Nadia, West Bengal

2015	Sri. Tushar Kanti Roy	Progressive Farmer and Secretary, Bisalaxmi Farmers Club, Bhobla, PO. Sultanpur, Chandrakona, Paschim Medinipur, India
2016	Sri Sukdev Nath	Krishnanagar, P.O. Sagar Krishnanagar, Dist.: South 24 Parganas, West Bengal, India
2017	Sri Krishanu Simlai	Progressive Farmer, Village: Dosghora, P.O. Dhaniakhali Hooghly, West Bengal, India
	Sri Koushik Sarkar	Progressive Farmer, Amta, Howrah, West Bengal
2018	Sri Tapan Kumar Senapati	Progressive farmer, Sankarkara, Phandar, West Midnapur, WB
2020	Sri Kenaram Ghosh	Panchkahania, Bara Jaguli, Dist. Nadia, West Bengal.
2021	Sri Rahidul Mondal	Uttar Panchpota, Chakdaha -741222, Nadia, WB Ph: 09836866732, 06296425495, E-mail: rahidul.bckv@gmail.com
2022	Sri Saibal Roy	Captain House, Gobrapota, P.O.- Gobrapota – 741103, Mob: 09332372792, E-mail: saibal.bckv@gmail.com
2023	Sri Sukhdeb Nath	Sagar, South 24 Parganas, West Bengal

PROGRAMMES UNDERTAKEN BY CWSS, INDIA

Sl. No.	Program	Topic	Date and Venue
1.	Training programme	Advance weed management	FTC (Lake Hall), BCKV, Kalyani on March, 2004
2.	Farmers' day	Demonstration on, Important Pests in NAZ region	Rajberia, Nadia, on April 2004
3.	First International Weed Science Seminar	Innovative approaches for eco-safety weed management	Hotel Peerless Inn, Kolkata, West Bengal, on January 21-24, 2005
4.	1 st Annual Conference and Training Programme	Advanced Nutrient and Pest Management	FTC (Lake Hall), BCKV, Kalyani, West Bengal on May 11, 2005
5.	Awareness programme	<i>Parthenium</i> Awareness Day	Chandamari, Nadia, West Bengal on September 3, 2005
6.	2 nd Annual (1 st Biennial) Conference and Training programme	SRI and Organic Rice Agriculture"	FTC (Lake Hall), BCKV, West Bengal on May 24, 2006
7.	Awareness programme	<i>Parthenium</i> Awareness Day	Goragacha, Nadia, West Bengal on September 11, 2006
8.	3 rd Annual Conference of CWSS and National Seminar	Ecorestoration of soil and water resources towards efficient crop production	FTC (Lake Hall), BCKV, West Bengal on June 6-7, 2007
9.	4 th Annual (2 nd Biennial) Conference and Training Programme	BMP on Agricultural Inputs	FTC (Lake Hall), BCKV, West Bengal on 21-22 May, 2008
10.	Awareness programme	Invasive Weed Awareness	Sati Mata Mandir Prangyan, West Bengal on March 3, 2009
11.	5 th Annual Conference and National Symposium	Agriculture in the Paradigm of Intergenerational Equity	FTC (Lake Hall), BCKV, West Bengal on May 22-23, 2009
12.	6 th Annual (3 rd Biennial) Conference and Workshop	ITK in Modern Agriculture	FTC (Lake Hall), BCKV, Kalyani, West Bengal on June 11, 2010
13.	Second International Symposium in Collaboration with NABARD, Kolkata	System Intensification towards Food & Environmental Security	FTC Lake Hall), BCKV, West Bengal on February 24-27, 2011
14.	7 th Annual Conference and Workshop	Environment pollution effect of the disposed Container of food and Chemicals	FTC (Lake Hall), BCKV, Kalyani, West Bengal on December 26, 2011
15.	8 th Annual (4 th Biennial)	Lecture on Rice Improvement	FTC(Lake Hall), BCKV, Kalyani,

	Conference		West Bengal on June 29, 2012
16.	9 th Annual Conference and Workshop	Second Green Revolution	FTC (Lake Hall), BCKV, Kalyani, West Bengal on September 30, 2013
17.	10 th Annual (5 th Biennial) Conference of CWSS and Third International Symposium	International Seminar on "Integrating Agriculture & Allied Research: Prioritizing Future Potentials for Secure Livelihoods" (ISIAAR)	Centre for Human Resource Development (CHRD), BCKV, Kalyani, West Bengal on November 6-9, 2014
18	11 th Annual Conference	Farmers training programme on Innovative Agriculture	FACC, BCKV, Kalyani, West Bengal on December 11, 2015
19	12 th Annual (6 th Biennial) Conference	Farmers –Scientist Meet	Directorate of Extension Building, BCKV, West Bengal September 29, 2016
20	Fourth International Symposium	Eco–efficiency in Agriculture and Allied Research (EEAAR17)	FACC, BCKV, Kalyani, West Bengal on January20-23,2017
21	13 th Annual Conference	Farmers Scientists Interaction	Directorate of Extension Seminar Hall, Mohanpur, Nadia, West Bengal, 11 th August 2017
22	14 th Annual (7 th Biennial) Conference	Farmers Scientists Interaction on Present State of Agriculture	FACC, BCKV, Kalyani, West Bengal on June 30, 2018
23	Parthenium Awareness Day National Parthenium Awareness Programme	Farmers Scientists Interaction on Parthenium Awareness Programme	FACC, BCKV, Kalyani, West Bengal on August 21, 2018
24	National Parthenium Awareness Day	Farmers Scientists Interaction on Parthenium Awareness Programme	Gurukul Edutech, Baniban, Uluberia, Howrah on 30.08.2018
25	15 th Annual General Body Meeting & Farmers- Scientists Interaction programme	Farmers Scientists Interaction on Present State of Agriculture	Directorate of Extension, BCKV, Mohanpur, West Bengal during June 26,2019
26	Fifth International Seminar	Agriskills for Convergence in Research, Industry and Livelihood (ACRIL)	Farmers Academy and Convention Centre (FACC), BCKV, WB during December 28- November 1, 2019
27	16 th Annual General Body Meeting	Webinar with Late Professor Anjan Bhattacharyya, Former President, CWSS Memorial Lecture and	CWSS Annual Conference 2020 on October 01, 2020 (Details in website- http://www.cwssbckv.org/ / www.cropandweed.com).
28	17 th Annual General Body Meeting	Farmers Scientists Interaction on Present State of Agriculture	Seminar Hall of the Directorate of Extension Education Building BCKV, Mohanpur 28th July 2022
29	18 th Annual General Body Meeting	Formation of New EC, finalisation of date of deferred 6 th International Conference and others	Netaji Subhash Regional Institute of Cooperative Management, Kalyani on 23 rd April, 2023
30	Sixth International Conference	Agricultural Innovations for Sustainable Development Goals with Special Focus on Natural Farming (AISDGONF-2023)	Farmers' Academy & Convention Centre (FACC-Lake Hall), Kalyani, West Bengal, India on September 30 -October 02, 2023

All the Proceedings and the Recommendations of the International / National Seminar / Symposium / Workshop / CWSS Conference are communicated to State and National Agriculture Directorates (ICAR, Ministry of Agriculture and Corporation, Government of India and Directorate of Agriculture, Government of West Bengal)

PROGRAMME SCHEDULE

6th CWSS INTERNATIONAL CONFERENCE ON

**“Agricultural Innovations for Sustainable Development Goals with Special Focus on
Natural Farming” (AISDGONF-2023)**

Organized by the Crop and Weed Science Society (CWSS)

at

Farmers' Academy & Convention Centre (FACC), Kalyani, Nadia, West Bengal, India

September 30 – October 02, 2023

Registration: Prof. C. K. Kundu (M: 09433252351) Convener, Registration Committee

➤ **September 29, 2023 at FACC BCKV: 5.00 pm 9.00 pm**

➤ **September 30, 2023 at FACC BCKV: 8.00 am 10.00 am**

Date: September 30, 2023

Inaugural Function: 10:00 AM - 11:45 AM at FACC Auditorium Hall

- 10:00 – 10.10 am : Invocation Song by Prof. Anupam Pariari and Dr. Anannya Ghosh**
10:10 – 10.20 am : Lamp Lightening Ceremony by the dignitaries
10:20– 10.30 am : Welcome address by Prof. R. K. Ghosh, President, CWSS and Organizing President AISDGONF-2023
10:30 - 10:35 am : Address by Guest of Honour Prof. Samunder Singh, President, IWSS, USA
10:35 - 10:40 am : Address by Guest of Honour Prof. Luis Avila, Secretary, IWSS, Mississippi, USA
10:40 - 10:45 am : Address by Guest of Honour Prof. Te-Ming Paul Tseng, MSU, Mississippi, USA
10:45 - 10:50 am : Address by Guest of Honour Prof. K. G. Prematilake, UVA Wellassa University, Sri Lanka
10:50 - 10:55 am : Address by Guest of Honour Dr. Sudhanshu Singh, Director, IRRI-SARC, Philippines
10:55 – 11:00 am : Address by Guest of Honour Dr. Virender Kumar, Deputy Platform Leader, Philippines
11:00 - 11.05 am : Address by Guest of Honour Shri Partha Sengupta, Director of Agriculture & Ex-Officio Secretary, Dept. of Agriculture, Govt. of West Bengal
11:05 - 11.15 am : Address by Chief Guest Prof. D. Basu, Vice-Chancellor, UBKV, SAU, WB, India
11:15- 11:25 am : Presidential Address by Prof. G. Saha, Vice-Chancellor, BCKV, SAU, WB, India
11.25– 11.50 am : Release of the *Journal of Crop and Weed* , Crop and Weed Science News, Book of Abstracts – AISDGONF-23
Presentation of CWSS Awards and Felicitation
11.50 -11.55 am : Vote of Thanks by Prof. A. K. Basu, Secretary, CWSS and Organizing Sec., AISDGONF-23
- Plenary : Chairpersons: Prof. Samunder Singh, President, IWSS, USA and**
Lecture Prof. Dr. D. Basu, Vice-Chancellor, UBKV, SAU, WB, India
12.00 – 12.20 pm Programme coordinator: Dr. Kusal Roy, Convener, Technical Committee, AISDGONF-2023
Rapporteurs: Prof. Mrityunjoy Ghosh, BCKV and Dr. M. K. Bhowmick, IRRI-SARC, UP
Plenary Lecture by Dr. Sudhanshu Singh, Director, IRRI-SARC, IRRI- Philippines
12.30- 2.30 pm : Lunch at FACC Dinning Hall
- For Sightseeing at Kolkata on 02.10. 2023 and Sundarban, West Bengal on 03.10.2023**
Contact Person: Mr. D. Roychoudhury, World Link Tour and Travels, Kolkata Tel: 91-7042785190

TECHNICAL SESSIONS

Date: 30.09.2023 (Oral Presentation)

Time: 2:30 – 5:30 pm

Venue: Conference Room 1

Theme- A: Technology outreach and agri-trade for convergence of farm with institute, industries and policy makers

Chairpersons: Prof. T. K. Maity, Principal, Tripura University &

Dr. Jayanta Chakraborty, President, BCC & BSED

Programme Coordinator: Prof. Pintoo Bandyopadhyay, DEE, BCKV

Rapporteurs: Prof. Biplab Mitra, UBKV; **Dr Hiralal Jana**, COA-Burdwan, BCKV &

Dr. Priyankar Mondal, Corteva Agriscience

Sl No.	Title	Speaker	Time	Presentation
1.	Increase in farmers' income through FPO-led marketing of maize in Davanagere district of Karnataka	Anbukkani Perumal	2:30-2:37 pm	Oral (7 min)
2.	Reform in agri-market in the context of APMC, national agriculture market (e-NAM) and MSP in India: A general perspective	Banani Das	2:38-2:45 pm	Oral (7 min)
3.	Effectiveness of cash transfers in benefitting the small and marginal farmers by providing income support: A special reference to PM-KISAN Scheme	Bhaskar Ghosh	2:46-2:53 pm	Oral (7 min)
4.	Extension approach for revival of Darjeeling mandarin cultivation	Sujit Sarkar	2:54-3:01 pm	Oral (7 min)
5.	Harvesting Sustainability: Empowering small farmers through pond-based integrated farming system	Sourav Pore	3:02-3:09 pm	Oral (7 min)
6.	Diffusion of NRI varieties in eastern and north-eastern parts of India: A micro-level assessment	Sudipta Paul	3:10-3:17 pm	Oral (7 min)
7.	Innovative mycoherbicides application against alien invasive weeds parthenium, lantana and water hyacinth: Commercialization perspectives	Ajay Kumar Singh	3:18-3:28 pm	Corporate Presentation (10 min)

Stakeholders' Meet & Panel Discussion Conference Room 1	:	Panel Speakers: Dr. Suhrid Barik, Corteva Agriscience; Dr. Sajal Biswas, Adama India Pvt. Ltd.; Dr. Pardeep Sagwal, Bayer Crop Science; Dr. Nilanjan Sanyal, BASF; Mr. Ranadip Das; CEO InGreens & representatives of the Dhanuka, Syngenta, UPL, PI Industries, Sumitomo and other corporates.
2:30 – 5:00 pm Conference Room 2	:	CWSS Young Scientist Award Selection Programme Coordinators: Dr. Kusal Roy , Convener, Technical Committee, AISDGONF-23 Time allotted for each presentation: 10 min
2:30 – 6:00 pm Poster Session	:	Theme: D Poster Presentation Venue: Auditorium Hall
6:00 – 7:00 pm	:	General Body Meeting, CWSS; Convener- Prof. A. K. Basu, Secretary, CWSS
7:00 - 8:30 pm	:	Cultural Programme Programme Convener: Dr. Sujit Adhikary, ISI, Kolkata
8:30 – 9:30 pm	:	Dinner at FACC Dinning Hall

TECHNICAL SESSIONS

Date: 01.10.2023 (Oral Presentation)

Time: 10:00am – 4:00 pm (Tea Break: 12:31-12:45 PM; Lunch Break: 2:00 PM - 3:30 PM)

Venue: Conference Room 1

Theme- D: Advances in crop improvement, biotechnological approaches and biotic & abiotic stress management

Chairpersons: Prof. Dr. Luis Avila, Secretary, IWSS, Mississippi, USA & Prof. Dr. Te-Ming Paul Tseng, MSU, Mississippi, USA

Programme Coordinator: Prof. Dr. R. K. Ghosh, Organizing President, AISDGONF-23

Rapporteurs: Dr. Indrani Dana, DRR, Chinsurah, Govt. of WB and Dr Nilima Karmakar, Navsari, Gujarat

Sl No.	Title	Speaker	Time	Presentation
1.	Enhanced selectivity of herbicides in tomato through the safening effects of melatonin and 2,4,6-trichlorophenoxyacetic acid	Prof. Te Ming Tseng	10:00-10:15 am	Plenary Lecture (15 min)
2.	Advances and challenges in the use of RNAi as a tool for weed management	Prof. Luis Avila	10:16-10:31 am	Plenary Lecture (15 min)
3.	Futuristic weed management in natural farming	Prof. Samunder Singh	10:32-10:47 am	Plenary Lecture (15 min)
4.	Weed biology and ecology : The important science to understand behaviour of weeds in agro-ecosystems	P. K. Mukherjee	10:48-10:58 am	Lead Lecture (10 min)
5.	Weeds are not enemies always – their role in ecosystem services for ecological restoration	Sanjoy Saha	10:59-11:09 am	Lead Lecture (10 min)
6.	Potential rice genotypes for drought-affected areas of West Bengal	Indrani Dana	11:10-11:15 am	Lead Lecture (10 min)
7.	Herbicide tolerant crops as an option of biotechnological approaches for weed management in Indian agriculture	C. Chinnusamy	11:15-11:25 am	Lead Lecture (10 min)
8.	Intellectual property rights for rice in West Bengal: Scope and achievements	Mrityunjay Ghosh	11:26-11:36 am	Lead Lecture (10 min)
9.	Environmental concern of herbicides and role of phytochemicals as source of bio-herbicides in natural farming	Shobha Sondhia	11:37-11:47 am	Lead Lecture (10 min)
10.	Search for fungal pathogens as mycoherbicides against the invasive aquatic plant waterhyacinth	Puja Ray	11:48-11:58 am	Invited (10 min)
11.	Chemical and non-chemical weed management options for transplanted finger millet in coastal deltaic ecosystem of Puducherry UT	P. Saravanane	11:59 am - 12:09 pm	Invited (10 min)
12.	Baseline sensitivity of <i>Ustilaginoidea virens</i> , a pathogen causing rice false smut disease, to EBI and QoI fungicides in India	M. K. Bag	12:10- 12:20 pm	Invited (10 min)
13.	Integrated weed management in taro at different agro-climatic conditions of India	J. Suresh Kumar	12:21- 12:31 pm Tea Break	Invited (10 min)
Tea Break 12.31 -12.45 pm				

14.	Evaluation of infrared thermometry based stress indices for monitoring water stress of potato (<i>Solanum tuberosum</i> L.) under irrigation and graded dose of potassium in New Alluvial Zone of West Bengal	Trisha Manna	12:45 - 12:52 pm	Oral (7 min)
15.	Exploring natural resistance alleles and fruit colour mutants in tomato through marker assisted breeding	T. Chattopadhyay	12:53-1:00 pm	Oral (7 min)
16.	Field efficacy of novel formulated emulsifiable concentrate of essential oil and azadirachtin against insect-pests on <i>kharif</i> rice	S. Chatterjee	1:01-1:08 pm	Oral (7 min)
17.	Assessment of different weed management practices for increasing the yield of groundnut in farmer's field of Howrah district of West Bengal	K. Barui	1:09-1:16 pm	Oral (7 min)
18.	Characterization of CAMTA gene family members from rice (<i>Oryza sativa</i> L.)	J. Banerjee	1:17-1:24 pm	Oral (7 min)
19.	Haploid embryogenesis from in vitro cultured anther of limonium misty blue	Priyanka Raha	1:25-1:32 pm	Oral (7 min)
20.	Enhancing plant growth by restricting chromium translocation through organic manure application	D. Ghosh	1:33-1:40 pm	Oral (7 min)
21.	Multiple stress gene pyramiding for abiotic and biotic stress in rice through marker-assisted backcross breeding	H. Swain	1:41-1:48 pm	Oral (7 min)
22.	Elytral polymorphism of <i>Cheilomenes sexmaculata</i> (Fabricius), <i>Harmonia octomaculata</i> (Fabricius) and <i>Coccinella septempunctata</i> (Linnaeus) (Coccinellidae: Coleoptera)	T. Majumder	1:49-1:56 pm	Oral (7 min)
Lunch Break (2:00-3:30 pm)				
23.	An evolutionary 'footprint' developed at vascular sap in million years' of plant-aphid interaction biology	H. A. Mondal	3:30-3:37 pm	Oral (7 min)
24.	Identifications of brinjal genotypes for mosaic disease tolerance in the <i>Gangetic</i> plains of West Bengal	Sanjay Bairagi	3:38-3:45 pm	Oral (7 min)
25.	Silicon amendment in rice for enhanced plant defense against yellow stem borer, <i>Scirpophaga incertulas</i> (Walker) and increased grain yield	Surabhika Panda	3:46-3:53 pm	Oral (7 min)

Date: 01.10.2023 (Oral Presentation)

Time: 10:00am – 2:00 pm (Tea Break: 12:01-12:16 PM; Lunch Break: 1:00 PM - 2:30 PM)

Venue: Conference Room 2

Theme- B: Frontier areas in crop production and natural resource management with special reference to Natural Farming

Chairpersons: Prof. K. G. Prematilake, UVA Wellassa University, Sri Lanka &

Dr. Virender Kumar, Senior Scientist, IRRI, Philippines

Programme Coordinator: Prof. Kajal Sengupta, RKMVERI, Narendrapur

Rapporteurs: Dr. Asis Mukherjee, BCKV and Dr Amitava Banerjee, BCKV

Sl No.	Title	Speaker	Time	Presentation
1.	Sustainable rice production for improving food and nutrition security, environmental sustainability, and smallholders' income	Virender Kumar	10:00-10:15 am	Plenary Lecture (15 min)
2.	Evaluation of non-chemical approaches of weed management in brinjal (<i>Solanum melongena</i>) under organic farming	S. Radhamani	10:16-10:26 am	Lead Lecture (10 min)
3.	Tapping the potentials of weed-competitive rice cultivars under direct-seeded conditions	M. K. Bhowmick	10:27-10:37 am	Lead Lecture (10 min)
4.	A land use system for natural resource management in Nagaland through traditional knowledge	D. Nongmaithem	10:38-10:48 am	Lead Lecture (10 min)
5.	Bringing seed inoculations to smallholder farms for improved crop performance, nutritional security, and agricultural sustainability	Amitava Rakshit	10:49-10:59 am	Lead Lecture (10 min)
6.	Significance of living mulch for sustainable crop production- a review	R. R. Upasani	11:00-11:10 am	Lead Lecture (10 min)
7.	Conservation agriculture for bringing sustainability in intensive agricultural systems	Biplab Mitra	11:11-11:21 am	Lead Lecture (10 min)
8.	Effect of seaweed extract based growth promoter on crop productivity and soil health	Abir Dey	11:22-11:29 am	Oral (7 min)
9.	Evaluating the effect of nano-urea and herbicide mixtures on weeds along with growth and yield of wheat	Ayan Sarkar	11:30-11:37 am	Oral (7 min)
10.	Effect of sowing time, tillage and variety management on growth, yield parameters, nitrogen uptake and economics of lentil after <i>kharif</i> rice in New Alluvial Zone of West Bengal	Bishal Mukherjee	11:38-11:45 am	Oral (7 min)
11.	The disparity in soil organic carbon under short-term conservation agriculture in a clayey soil	Jayashree Dey Sarkar	11:46-11:53 am	Oral (7 min)
12.	Weed management in wet direct seeded rice	Sheela Barla	11:54 am -12:01 pm	Oral (7 min)
Tea Break (12:01-12:16 PM)				
13.	Maize based intercropping system under deficit irrigation management for higher crop and water productivity	R. Poddar	12:16-12:23 pm	Oral (7 min)
14.	Root characterization of rice genotypes in drought prone rainfed environment	Biswajit Karmakar	12:23-12:30 pm	Oral (7 min)
15.	Growth and yield of sisal (<i>Agave sisalana</i>) as affected by planting materials and fertilizer levels	Sitangshu Sarkar	12:31-12:38 pm	Oral (7 min)
16.	Land shaping for improving yield and economics of low land rice-rice system of New Alluvial Zone of West Bengal	Manabendra Ray	12:39-12:46 pm	Oral (7 min)
17.	GIS -based evaluation of soil irrigability and land capability for agricultural sustainability affected by fly ash	Subhas Adak	12:46-12:53 pm	Oral (7 min)
18.	Enhanced corm yield, water and energy productivity in elephant foot yam (<i>Amorphophallus paeoniifolius</i>) (Dennst.) Nicolson through water smart practices	Sunitha S.	12:54-1:01 pm	Oral (7 min)
Lunch Break (1:00 PM - 2:30 PM)				

Date: 01.10.2023 (Oral Presentation)

Time: 4:30 – 6:30 pm (Tea Break: 5:35-5:50 PM)

Venue: Conference Room 1

Theme- C: Horticulture as a growth engine in achieving sustainable developmental goals

Chairpersons: Prof. Pranab Kumar Hazra, BCKV; Dr Hilloljyoti Singha, Bodoland, Assam

Programme Coordinator: Dr. Abhijit Ghoshal, Joint Secretary, CWSS

Rapporteurs: Dr. Ashim Kr Dolui, CU, Kolkata and Dr Saikat Gantait, BCKV

Sl No.	Title	Speaker	Time	Presentation
1.	Underutilized vegetable crops vis-à-vis food and nutritional security of Tripura	Prof. T. K. Maity	4:30-4:40 pm	Lead Lecture (10 min)
2.	Growth and yield of potato (<i>Solanum tuberosum</i> L.) as influenced by biostimulant under soilless culture system	Prof. Umesh Thapa	4:41-4:51 pm	Invited (10 min)
3.	Potential of commercial cultivation of tropical orchids and way forward	Dr. Dwijendra Barman	4:52-5:02 pm	Invited (10 min)
4.	Pollen biology and pollen-pistil interaction following pollination of tuberose cultivars	Rosalind Lallawmzuali	5:03-5:10 pm	Oral (7 min)
5.	Response of new brinjal varieties to varied doses of nitrogenous and potassic fertilizers	Shirin Akhtar	5:11-5:18 pm	Oral (7 min)
6.	Efficacy of packaging material, ventilation and storage condition on shelf life and quality of mint (<i>Mentha arvensis</i> L.)	A. K. Banik	5:19-5:26 pm	Oral (7 min)
7.	Studies on the effects of different developmental stages on biochemical composition of the rhizome reserves in <i>Curcuma caesia</i> Roxb.	Jayoti Majumder	5:27-5:34 pm	Oral (7 min)
Tea Break (5:35-5:50 PM)				
8.	Integrated nutrient management of ginger grown as inter crop with curry leaf	D. K. Ghosh	5:50-5:57 pm	Oral (7 min)
9.	Induction of in vitro microrhizome formation of <i>Aloe vera</i> and its application in micropropagation	Ishita Khatua	5:58-6:05 pm	Oral (7 min)
10.	Effect of different growing media on early seedling growth of lettuce and pakchoi in hydroponics	Dinkar Gaikwad	6:06-6:13 pm	Oral (7 min)
11.	Introducing organic/ natural farming in schools	Ekadashi Nandi	6:14-6:21 pm	Oral (7 min)

Date: 01.10.2023 (Oral Presentation)

Time: 3:00 – 6:30 pm (Tea Break: 5:00-5:15 PM)

Venue: Conference Room 2

Theme- E: Role of farm mechanization, IT, bioinformatics, postharvest technology, big data management in agriculture, livestock farming, fisheries, sericulture, apiculture etc.

Chairpersons: Prof. Nilotpal Ghosh, WBUFS, Kolkata; Prof. B. K. Chakraborty, Former Director, Department of Fisheries, Bangladesh

Programme Coordinator: Dr. Malay Kumar Bhowmick, IRRI-SARC, Varanasi, UP

Rapporteurs: Dr. Sheela Barla, BAU, Ranchi and Dr Tirthartha Chatterjee, BAU, Sabour, Bihar

Sl No.	Title	Speaker	Time	Presentation
1.	Potentialities for natural farming	K. G. Prematilake	3:00-3:15 pm	Plenary Lecture (15 min)
2.	Effects of pesticide and heavy metal toxicants on fish and human health	B. K. Chakraborty	3:16-3:31 pm	Plenary Lecture (15 min)
3.	Livestock production and productivity in Indian context	Nilotpal Ghosh	3:32-3:47 pm	Plenary Lecture (15 min)
4.	Implementing of ecological restoration and achieving ecosystem services in traditional way: A case study	Hilloljyoti Singha	3:48-3:58 pm	Lead Lecture (10 min)
5.	Hunger-poverty-silence: The lethal combination that keeps adding entropy to agrarian ecosystem	S. K. Acharya	3:59-4:09 pm	Lead Lecture (10 min)
6.	Sustainable utilization of fishery byproducts: A promising post-harvest management	Priyanka Halder Mallick	4:10-4:20 pm	Invited (10 min)
7.	Technology assessment of pulses and oilseeds in eastern India over last decade	Adrita Dam	4:21-4:28 pm	Oral (7 min)
8.	Forecasting onion price volatility in the presence of long memory using the FIGARCH model	Chiranjit Mazumder	4:29-4:36 pm	Oral (7 min)
9.	Measuring instability in production of major pulses in India	Sh. Herojit Singh	4:37-4:44 pm	Oral (7 min)
10.	Block-wise potato crop acreage estimation of Purba Bardhaman, West Bengal using Sentinel-2 satellite data	Debolina Sarkar	4:45-4:52 pm	Oral (7 min)
11.	Accuracy assessment among different machine learning algorithms for estimating <i>boro</i> rice growing areas of Haringhata CD Block of Nadia district	Aloy Adak	4:53-5:00 pm	Oral (7 min)
Tea Break (5:00-5:15 PM)				
Sl No.	Title	Speaker	Time	Presentation
12.	CNN_FunBAR: deep learning technique for fungi taxonomic classification based on DNA barcode sequences	Ritwika Das	5:15-5:22 pm	Oral (7 min)
13.	Prediction map of soil organic carbon created by an advanced geostatistical technique using remote sensing and terrain data	Santanu Mallik	5:23-5:30 pm	Oral (7 min)
14.	<u>Geographically weighted regression based model - calibration approach under two stage sampling design</u>	Ankur Biswas	5:31-5:38 pm	Oral (7 min)
15.	Waste valorization: catalyst and traditional soda from post harvested agricultural waste	Biswajit Nath	5:39-5:46 pm	Oral (7 min)
16.	Agriculture waste-based nanostructure for sustainable development	Manasi Buzar Baruah	5:47-5:54 pm	Oral (7 min)
17.	Selection of best performing climate models from 37-CMIP6 GCMs over Indian Sundarban for projecting bias corrected future rainfall scenarios	Ratul Roy Choudhury	5:55-6:02 pm	Oral (7 min)
18.	Assessing bottlenecks in the rice-straw value chains and markets in Punjab region	Suryakanta Khandai	6:03-6:10 pm	Oral (7 min)

Dinner: 8:30-9:30 pm

Poster Presentation

Date: 30.09.2023

Time: 2:30 – 6:00 pm

Venue: FACC Auditorium Hall

Theme- D: Advances in crop improvement, biotechnological approaches and biotic & abiotic stress management

Date: 01.10.2023

Time: 10:00am – 2:00 pm

Venue: FACC Auditorium Hall

Theme- B: Frontier areas in crop production and natural resource management with special reference to Natural Farming

Date: 01.10.2023

Time: 2:30 – 4:30 pm

Venue: FACC Auditorium Hall

Theme-A: Technology outreach and agri-trade for convergence of farm with institute, industries and policy makers

Theme- C: Horticulture as a growth engine in achieving sustainable developmental goals

Time: 4:30 – 6:30 pm

Venue: FACC Auditorium Hall

Theme-E: Role of farm mechanization, IT, bioinformatics, postharvest technology, big data management in agriculture, livestock farming, fisheries, sericulture, apiculture etc.

Valedictory Function

Date: 02.10.2023

Time: 10:30 am – 1:00 pm

Venue: Conference Hall-1

Chairpersons: Prof. Gautam Saha, VC, BCKV

Prof. Debabrata Basu, VC, UBKV

Prof. Samunder Singh, President, IWSS, USA

Prof. Dr. Luis Avila, Secretary, IWSS, Mississippi, USA &

Prof. Dr. Te-Ming Paul Tseng, MSU, Mississippi, USA

Programme Coordinator: Prof. A. K. Basu, Organizing Secretary, AISDGONF-23

Rapporteur: Prof. Pintoo Bandyopadhyay, DEE, BCKV and Prof. A. K. Nandi, BCKV

Vote of Thanks: Prof. R. K. Ghosh, Organizing President, AISDGONF-23

Conference Closing Declaration by Prof. Goutam Saha, VC, BCKV

Lunch Time: 1:00 – 3:00 pm

For Sightseeing at Kolkata on 02.10. 2023 and Sundarban, West Bengal on 03.10.2023

Contact Person: Mr. D. Roychoudhury, World Link Tour and Travels, Kolkata

Tel: 91-7042785190

LIST OF LIFE MEMBERS (UPTO 31 MARCH 2023)

Sl. No.	Honour	Name	Address
1.	Dr.	Rati Kanta Ghosh	Founder Secretary, CWSS; Former Professor, Department of Agronomy, BCKV, (Resi:B-4/10, Kalyani 741235, Nadia, West Bengal); Email: drajr1956@gmail.com
2.	Dr.	Debesh Pal	Assoc. Professor, Department of Agronomy, BCKV, Mohanpur, Nadia, West Bengal
3.	Dr.	Pratit Bandyopadhyay	Professor, Department of Agronomy, BCKV, WB
4.	Dr.	Sankar Prasad Bhattacharya	Former Professor, Department of Agronomy, BCKV, Mohanpur, Nadia, West Bengal
5.	Dr.	Subhash Chandra Mahapatra	Professor, Rural Development Centre, IIT, Kharagpur, West Midnapore, PIN 721302, West Bengal
6.	Dr.	Arunabha Chakravarty	Professor & Head, Department of Agricultural Biochemistry, BCKV, West Bengal
7.	Dr.	Dilip Kumar Khan	Professor, Department of Environmental Science, University of Kalyani, Kalyani-741235, West Bengal
8.	Dr.	Koushik Brahmachari	Professor, Department of Agronomy, BCKV, West Bengal
9.	Dr.	Bikas Chandra Patra	Professor, Department of Agronomy, BCKV, West Bengal
10.	Dr.	Paramita Banerjee	ADA, Directorate of Agriculture, Govt. of West Bengal
11.	Dr.	B. K. Mandal	Former Professor & Head, Agronomy, BCKV, Mohanpur, Nadia, West Bengal (B-2/134, Kalyani, Nadia, 741235
12.	Dr.	Arun Kumar Mukherjee	Former Professor and Head, Department of Agronomy, BCKV, Mohanpur, West Bengal
13.	Dr.	Sunirmal Maiti	Former Professor and Head, Department of Agronomy, BCKV, Mohanpur, Nadia, West Bengal
14.	Dr.	R. C. Samui	Former Professor, Department of Agronomy, BCKV, West Bengal and Former Principal, Tripura College, Tripura
15.	Dr.	S. S. Mondol	Former Professor and Head, Department of Agronomy, BCKV, Mohanpur, West Bengal
16.	Dr.	A. L. Kundu	Former Professor, Department of Agronomy, and Former DSW, BCKV, Mohanpur, West Bengal
17.	Dr.	G. Sounda	Former Professor, Department of Agronomy, and Former DSW, BCKV, Mohanpur, West Bengal
18.	Dr.	A. P. Patra	Former Professor, Department of Agronomy, BCKV, Mohanpur, West Bengal
19.	Dr.	Anjan Bhattacharya	Professor, Department of Agricultural Chemicals, BCKV, Mohanpur, West Bengal
20.	Dr.	Asit Kumar Basu	Professor, Department of Seed Science & Technology, BCKV, Mohanpur, West Bengal
21.	Dr.	Jayanta Kumar Das	Professor, Department of Agril. Extension, BCKV Mohanpur, West Bengal
22.	Dr.	Purnendu Sekhar Bera	Professor, Department of Agronomy, BCKV, West Bengal
23.	Dr.	Debatosh Mukherjee	Former Professor, Department of Agril. Chemistry and Soil Science, BCKV, Mohanpur, West Bengal
24.	Dr.	Tapan Kumar Maity	Professor, Department of Vegetable Crops, Faculty of Horticulture, BCKV, West Bengal
25.	Dr.	S. C. Poi	Professor, Department of Agril. Chemistry & Soil Science, Mohanpur, BCKV, West Bengal
26.	Dr.	A. M. Puste	Professor, Department of Agronomy, BCKV, West Bengal
27.	Dr.	Swapan Kumar Mandal	Professor, Entomology, BCKV, West Bengal
28.	Dr.	Amaresh Khuntia	Reader in Agronomy, OUAT, Orissa 751003, Regional Research & Technology Transfer Station (RRTTS) OUAT, Ranital, Bhadrak 756111
29.	Dr.	Anil Chandra Pradhan	Former Professor of Agronomy, BCKV, West Bengal
30.	Dr.	Gurupada Sarkar	Former Professor, Department of Genetics & Former Incharge, RRS(NAZ) Gayespur, BCKV
31.	Dr.	Jayanta Tarafdar	Reader & Incharge AICRP on Tuber Crops, Department of

32.	Dr. Rita Majumdar	Plant Pathology, BCKV, West Bengal ADA (Admn.), DOA, Govt., WB (B-15/90, Kalyani, Nadia-741235, West Bengal
33.	Dr. Sankar Saha	Reader, Agronomy & In-Charge, KVK, Dakshin Dinajpur, UBKV, West Bengal
34.	Dr. Pijush Kanti Sarkar	Professor, Department of Agril. Entomology, BCKV, Mohanpur, West Bengal
35.	Dr. Ashim Chandra Sinha	Former Vice-Chancellor, UBKV & Professor, Agronomy, UBKV, Pundibari - 736165, Cooch Behar, West Bengal
36.	Dr. Paramita Mitra (Maiti)	ADA, Kshinaganj Block, Nadia (Resi. Vill. Bhatshala, Simhat, Nadia, PIN 741249, West Bengal
37.	Mr. Kalyan Mitra	M/S. Mitra Enterprises (172, B. B. Ganguly Street, Kolkata 700012), West Bengal
38.	Mr. Kalam Uddin Sheikh	Fertilizer, Pesticides & Seeds Dealer, 16/1, D. L. Roy Road (Bow Bazar), Krishnagar 741101, West Bengal.
39.	Dr. Krishna Karmakar	Reader, Department of Agril. Entomology, BCKV Mohanpur, Nadia, West Bengal
40.	Dr. W. Ingo Meitei	Professor and Head, Department of Horticulture, Cohima, CAU-1, PIN 795001.
41.	Dr. Karuna Sindhu Karmakar	Former Reader, Department of Plant Breeding, BCKV, Mohanpur, Nadia, West Bengal
42.	Dr. A. Zaman	Professor, Department of Agronomy, BCKV, West Bengal
43.	Dr. Nitai Charan Das	Professor, Department of Soil & Water Conservation, BCKV, Mohanpur, West Bengal
44.	Dr. Tapan Kumar Basu	Former Professor, Department of Agronomy, BCKV, Mohanpur, West Bengal
45.	Dr. Ashis Kumar Singha Roy	Former Dean, F/Ag, Professor, Department of Agronomy, UBKV, Pundibari, Cooch Behar 736165, West Bengal
46.	Dr. Hemanta Banerjee	Professor, Department of Agril. Chemicals, BCKV, Mohanpur, West Bengal
47.	Dr. Gouranga Charan Mishra	Professor, Department of Agronomy, College of Agriculture, OUAT, Bhubaneswar-751003, Odisha
48.	Dr. Ramen Kumar Kole	Professor and Head, Department of Agricultural Chemicals, BCKV, Mohanpur, West Bengal
49.	Dr. Debabrata Basu	Professor, Department of Agril. Extension, BCKV, Mohanpur, West Bengal
50.	Mr. T. K. Sinha	Director, Business Strategy & Dev. Dwidt Delcer Bio Science (P) Ltd. 164/1 Prince Anwar Shah Road, Lake Gardens, Kolkata-700045, West Bengal
51.	Dr. Buddhadeb Duary	Reader, Department of Agronomy, Institute of Agriculture, Visva-Bhavarti, Sriniketan-731236, Birbhum, West Bengal
52.	Mr. Samindra Nath Mukhopadhyay	Former Assistant Comptroller, BCKV (Resi.) Gurap, Hooghly, West Bengal
53.	Dr. Malay Kumar Bhowmick	Agronomist, ISARC, Varanasi and Directorate of Agriculture, Govt. of West Bengal, Email:, bhowmickmk@gmail.com
54.	Dr. Sudhibrata Mitra	Director of Farms, BCKV, Nadia, West Bengal
55.	Dr. Mohammed Mohasin	Former Professor in Agril. Entomology, BCKV, Mohanpur, B-2/91, Kalyani, Nadia, 741235, West Bengal
56.	Mrs. Dipali Mondal	ADA, DOA, Government of West Bengal Email: dipali_mondal2001@yahoo.co.in
57.	Dr. Sankar Kumar Acharya	Professor, Department of Agril. Extension, BCKV, Mohanpur, West Bengal, Email: dr_sacharya2005@yahoo.com
58.	Mrs. Shyamali Das	Department of Agronomy, BCKV, Mohanpur, WB
59.	Dr. Mahadev Pramanick	Professor, Department of Agronomy, Mohanpur, Nadia, West Bengal, Email mahadevpramanick@gmail.com
60.	Dr. Sukanta Pal	Professor, Department of Agronomy, Faculty of Agriculture, BCKV, Mohanpur, Nadia, West Bengal
61.	Dr. Asit Baran Mandal	Professor, Department of Plant Breeding, Faculty of Agriculture, BCKV, Mohanpur, Nadia, West Bengal

62.	Dr. Bikash Chandra Das	Professor, Department of Fruits & Orchards Management, Faculty of Horticulture, BCKV, Mohanpur, West Bengal
63.	Dr. Amal Chandra Das	Professor, Department of Agril. Chem. & Soil Science, Faculty of Agriculture, BCKV, West Bengal
64.	Dr. Kironmay Barui	SMS(Agronomy), KVK, ICAR, Hooghly, BCKV, Email: kironmaybckv@gmail.com
65.	Dr. Abhijit Kumar Nandi	Professor and Head, Department in Agril. Economics, BCKV, Mohanpur, West Bengal
66.	Dr. Parthendu Poddar	Asst. Professor, Department of Agronomy UBKV, Pundibari, Cooch Behar-736165, West Bengal
67.	Dr. Gouranga Mazumder	Professor, Department of Agril. Extension, BCKV, Mohanpur, West Bengal
68.	Dr. Kamal Kumar Mandal	Professor, Department of Fruits & Orchard Management, Faculty of Horticulture, BCKV, West Bengal
69.	Dr. K. M. Durga Devi	Asstt. Prof. (Sr. Scale), Department Soil Science & Agril. Chemistry, AICRP on weed control, College of Horticulture, Kerala Agril. University (P.O) Thrissur, Kerala, PIN 680656, Email: durgadevikm@rediffmail.com
70.	Dr. Partha Sarathi Nath	Professor, Department of Plant Pathology, BCKV, Mohanpur, West Bengal
71.	Dr. Lalmohan Mandal	Professor, Department of Animal Science & Fishery, BCKV, West Bengal, Email: lalmohan2006@yahoo.co.in
72.	Dr. Pintoo Bandopadhyay	Professor, Department of Agronomy & Former Incharge Director of Extension Education, BCKV, West Bengal
73.	Dr. C. T. Abraham	Professor & Head, Department of Agronomy, College of Horticulture, Kerala Agril. University, P.O. KAU, Thrissur
74.	Dr. Rajib Nath	Professor, Department of Agronomy, BCKV, West Bengal
75.	Dr. Dhananjay Dutta	Professor, Agronomy, BCKV, West Bengal.
76.	Dr. Sitangshu Sarkar	Principal Scientist (Agronomy), Crop Production Division, ICAR-CRIJAF, Barrackpore-700120, West Bengal, Email: sarkaragro@gmail.com
77.	Dr. Manoj Kumar Nanda	Professor, Department of Agril. Meteorology & Physics, BCKV, Mohanpur, West Bengal
78.	Mr. Joydeep Mukherjee	ADA, Govt. of W.B., Vill+P.O. Gourangachak-711410, Dist. Howrah, West Bengal
79.	Dr. Gokul Benode Roy	Professor, Department of Soil & Water Conservation, BCKV, Mohanpur, West Bengal
80.	Dr. Pranab Kumar Tarafder	Professor, Department of Soil & Water Conservation, BCKV, Mohanpur, West Bengal
81.	Dr. Sanmay Kumar Patra	Professor, Department of Ag. Chemistry and Soil Science, BCKV, Mohanpur, West Bengal
82.	Mr. Priyanka Raha	Professor, Department of Soil science & Agril Sciences, Institute of Agril Sciences, Banaras Hindu University, Varanasi-221005, Uttar Pradesh
83.	Dr. Mrs. Banjul Bhattacharyya	Associate Professor, Department of Ag. Statistics, BCKV, Mohanpur, West Bengal
84.	Dr. Amit Baran Sharangi	Professor & Head, Department of Spices & Plantation Crops, Faculty of Horticulture, BCKV, West Bengal
85.	Dr. Nirmal Mandal	Reader & Head, Department of Biotechnology, Instrumentation and Environmental Science, BCKV, Mohanpur, Nadia, West Bengal
86.	Dr. Sanjay Kumar Bordolui	Assistant Professor, Department Seed Science & Technology, BCKV, Mohanpur, West Bengal sanjoy_bordolui@rediffmail.com
87.	Dr. Sadhan Chandra Ray	Professor in Fabric Manufacture, Institute of Jute Technology, 35 Ballygunge Circular Road, Kolkata-700019, West Bengal, Email: sadhan53@yahoo.co.in
88.	Dr. Gautam Saha	Professor, Department of Agrometeorology & Physics, F/Ag., BCKV, Mohanpur, West Bengal Resi: B-6/221, Kalyani, Nadia, West Bengal,

		Email: gsagmet@yahoo.co.in
89.	Mr. Provash Chandra Das	Teacher of Agriculture (Retd), Aarya Palli (North). Baranilpur, P.O Sripally 713103, Dist. Burdwan, WB
90.	Dr. Subodh Kumar Das	DDA (Soil Survey), Govt. of W.B., B-14/15 Kalyani, Nadia, PIN 741235, West Bengal
91.	Dr. T. V. Ramachandra Prasad	Professor of Agronomy University of Agricultural Sciences, Main Research Station, Hebbal, Bangalore-560024, Karnataka, Email: tvramachandradas@yahoo.co.in
92.	Dr. Vishwanath Gade	General Manager, P.I. Industries, 5 th Floor, Tower – A Gurgaon-122002, Millennium Plaza Sector 27, Haryana, Email: g.vishwanath@piinol.com
93.	Dr. S. B. Goswami	Professor, Department of Agronomy, BCKV, Mohanpur, West Bengal, Email: sbg_bakv05@rediffmail.com
94.	Mr. Chitta Ranjan Das	#149, Adarsha pally, P.O. B.D. Sopan, Khardaha, 24 North Pgs. Kolkata-700017, West Bengal
95.	Dr. Apurba Ratan Ghosh	Professor & Head Department of Environmental Science, University of Burdwan, Burdwan-713104, West Bengal, Email: buase@rediffmail.com
96.	Dr. Swapan Kumar Mukhopadhyay	Professor, Department of Agronomy, Faculty of Agriculture, BCKV, Mohanpur, West Bengal
97.	Dr. Kajal Sengupta	Professor, Department of Agronomy, BCKV, West Bengal
98.	Dr. Ranajit Kumar Biswas	Former PG Dean and Professor, Department of Soil and Water Engineering & Dean P. G. Studies, BCKV Mohanpur, Nadia, West Bengal
99.	Dr. Ruhidas Ghatak	Teacher, Vocational Stream, Govt. Sr. Sec. School Rhenock, East. Sikkim 737133, Resi. Vill. Gabarkuli (Adarsha Para), P.O. T. B. Hospital, Dist. Nadia, WB
100.	Dr. Hirak Banerjee	Associate Professor, Department of Agronomy, BCKV, Mohanpur, West Bengal, Email: banhirak@rediffmail.com
101.	Mr Suman Saha	Research Associate, Department of Ag. Chemicals, BCKV, Mohanpur, West Bengal
102.	Dr. Bhagbat Chandra Banik	Former Dean, F/Ag & Professor, Dept. of Fruits & Orchard Management and Dean, Faculty of Horticulture., BCKV, Mohanpur, West Bengal Email: drbcbatik@yahoo.co.in
103.	Dr. Kisor Kumar Sarkar	Professor, Department of Plant Breeding, BCKV, Mohanpur, West Bengal
104.	Dr. Prasant Kumar Patra	Professor, Department of Agricultural Chemistry and Soil Science, Bidhan Chandra Krishi Viswavidyalaya, Mohanpur, Nadia, West Bengal
105.	Dr. Pradip Kumar Sahu	Associate Professor & Head, Department of Agricultural Statistics, BCKV, Mohanpur, West Bengal E mail: pksbckv@gmail.com
106.	Dr. Binay Kumar Chakraborty	Project Director (DOF), 7, Umed Ali Road, Dhupakhola, Mymensingh 2200, Bangladesh, Email: binay_bonty@yahoo.com
107.	Dr. Anup Kumar Gupta	Sr. Product Dev. Manager, P.I. Industries Ltd, Jindal Tower, Room No. 208, 21/3 Darga Road, Park Circus, Kolkata-700017, West Bengal, Email: g.anup@piind.com
108.	Dr. Pritam Ghosh	Assistant Professor of Agronomy, Deptt. of Agronomy, Palli Siksha Bhavan, Visva-Bharati, West Bengal
109.	Dr. Subrata Kumar Ghosh	ADA. DOA, Govt. of WB, Nandigram, Medinipur, WB
110.	Dr. Santi Ranjan Bandyopadhyay	Former Professor, Department of Plant Pathology, BCKV, Mohanpur, West Bengal
111.	Dr. Bijay Kumar Mohapatra	Subject Matter Specialist (Agronomy), OUAT, Cuttack -753004, Orissa E-mail: bejoy.mohapatra@rediffmail.com
112.	Dr. Champak Kumar Kundu	Professor, Department of Agronomy, BCKV, West Bengal
113.	Dr. Dhiman Mukherjee	Associate Professor, Department of Agronomy, BCKV, Mohanpur, Nadia, West Bengal

114.	Dr. Dima Petkova	Institute of Agriculture and Seed Science Obraztsov chiflik, 7007 Rousse, Bulgaria Email: dimapetkova@abv.bg
115.	Dr. Dinesh Chandra Khatua	Former Professor, Department of Plant Pathology, BCKV, Mohanpur, West Bengal
116.	Dr. G. R. Denesh	Agronomist, UAS, Dharwad, Karnataka, 3682, A- 24/A, Near Rice Mill, Taralabalu Extension, Davangiri 577005, Email: grdenesh@rediffmail.com
117.	Dr. G. K. Koutu	Department of Plant Breeding and Genetics, J.N. Agriculture University, Jabalpur, Madhya Pradesh
118.	Dr. Indrabrata Bhattacharya	Professor, Department of Plant Pathology, BCKV, Mohanpur, West Bengal
119.	Dr. Kalyan Kanti Das	Department of Agril. Economics, UBKV, Pundibari, PIN 726165, Cooch Behar Email: kkdas_ubkv@yahoo.com
120.	Dr. Malay Kumar Samanta	Subject Matter Specialist, Nadia Krishi Vigyan Kendra, BCKV, Gayeshpur, Nadia West Bengal
121.	Dr. Md. Nasim Ali	Assistant Professor, IRDM Faculty Centre, Ramkrishna Mission Ashrama, Narendrapur, Kolkata-700103, WB
122.	Dr. P. C. Singh	Training Organiser, KVK, Vaishali, Rajendra Agricultural University, Hariharpur, Hajipur 844101, Vaishali, Bihar
123.	Dr. Pijush Kanti Mukherjee	Reader, Department of Agronomy, UBKV, Pundibari, Cooch Behar-736165, West Bengal
124.	Dr. N. Ravisankar	Scientist SS (Agronomy), Division of Natural Resource Management, CARI, Port Blair-744101, A & N Islands, E-mail: agrosankar@yahoo.com
125.	Dr. R. Raja, Scientist (Agronomy)	NRM Division, Central Agricultural Research Institute (CARI), Port Blair-744101, A & N Islands, E-mail: rajatnau@gmail.com
126.	Dr. Sushil Kumar Rana	Former Professor, Department of Agronomy, Faculty of Agriculture, BCKV, Mohanpur, Nadia, West Bengal
127.	Dr. Aswini Kumar Karan	ADA (Soil Conservation), KRVP Manbazar, Purulia, Vill. Jambari, P.O. Kiyakhali 721646, Dist. East Midnapore, WB
128.	Dr. Pabitra Kumar Biswas	Reader in Soil Science, Institute of Agriculture, Visva- Bharati, Sriniketan-731 236, Birbhum, West Bengal, Email: ppabitra07@rediffmail.com
129.	Dr. Bimal Kumar Bera	Professor, Department of Agril.Economics, BCKV, Mohanpur, West Bengal; B-9/242, Kalyani, Nadia, West Bengal, E-mail: bkb_eco@rediffmail.com
130.	Dr. Birendra Nath Panja	Professor, Department of Plant pathology, Mohanpur, A- 11/192, P.O.+P.S. Kalyani, Dist. Nadia, West Bengal
131.	Dr. Pradip Kr. Chakraborty	Dean, F/Ag & Professor, Department of Agril. Meteorology and Physics, BCKV, Mohanpur, Resi: B- 1/182, Kalyani, Nadia, West Bengal, E-mail: pkc_bckv@rediffmail.com
132.	Dr. Aniruddha Pramanik	Professor & EX Officer-In-Charge, AICRP on Nematodes, Department of Agril. Entomology, BCKV, Mohanpur, B-12/225, Kalyani, Nadia, West Bengal Email: pramanik04@yahoo.com/apramanik04@gmail.com
133.	Dr. S. Ghoshal Chaudhuri	Head of the Division, Natural Resource Management Division, CARI, Port Blair, P.O. 181, E-mail: sgc6@rediffmail.com
134.	Dr. Tapas Biswas	Lecturer, Department of Agril. Chemistry & Soil Science, BCKV, West Bengal, Email: tapas_bckv@rediffmail.com
135.	Mr. Kishore Chandra Sahoo	Farm Manager, Krishi Vigyan Kendra, Mayurbhanj (OUAT), Shamakhanta, Orissa, PIN 757049
136.	Dr. Debasis Panda	Subject Matter Specialist (Plant Protection), Krishi Vigyan Kendra, Bhadrak (OUAT), Ranital, Orissa, PIN 756111
137.	Dr. Subhendu Bandyopadhyay	Lecturer, Department of Agronomy, Uttar Banga Krishi Viswavidyalaya, P.O. Pundibari, Dist. Cooch Behar, PIN 736165, West Bengal,

- Email: subhendu_ubkv@indiatimes.com
138. Dr. Susanta Kumar Pal Professor, Department of Ag. Chemistry and Soil Science, BCKV, Mohanpur, Nadia, West Bengal
139. Dr. Mrinal Dasgupta Reader, Research in Fishery, RRS (NAZ), BCKV, West Bengal, Email: dasgupta_mrinal129@rediffmail.com
140. Dr. Pranab Kumar Bandopadhyay Former Professor, Department of Plant Physiology, BCKV, Mohanpur, West Bengal
141. Dr. Sanjay Saha Sr Scientist, Agronomy Crop Production Division, CRRI, Cuttack-6, Orissa
142. Dr. Jitesh Kumar Hore Professor, Department of Spices and Plantation Crops, Faculty of Horticulture, BCKV, Mohanpur, West Bengal, Email: jkhore31@rediffmail.com
143. Dr. Pranab Hazra Professor, Department of Vegetable Crops, Faculty of Horticulture, BCKV, Mohanpur, West Bengal, Email: hazrap@rediffmail.com
144. Mr. Swapan Kumar Barman Vill. Patna, P.O. Pashim Patna, Tamluk, Purba Midnapur-721659, West Bengal, Email: swapanbarman@yahoo.com
145. Dr. Manabendra Ray Associate Professor, Department of Agronomy, BCKV, Mohanpur, Nadia, Cropping System Research, Directorate of Research, BCKV, West Bengal, Email: manabbckv@gmail.com
146. Dr. Sankhendu Bikash Chattopadhyay Professor and Head, Department of Vegetable Crops, Faculty of Horticulture, BCKV, Amen Co-operative Housing Society Ltd., B-6/225, Flat No. 6, Kalyani, WB
147. Mr. Tanmoy Pandey Proprietor, T P Seed Farm, C / O Pandey Krishi Bhandar, Chakdah New Market, Lal pur, Nadia, West Bengal, Email: pandeykrishi_bhandar@yahoo.co.in
148. Mr. Tapan Kumar Jana Annapurna Hybrid Seeds Pvt Ltd. Stall No 170, Super Market, Contai, Midnapur (E) 721401, West Bengal
149. Dr. Narayan Chattopadhyay Professor and Former Head, Department of Spices and Plantation Crops, Faculty of Horticulture, BCKV, Mohanpur, West Bengal
dr_nchorticulturist@yahoo.co.in/dr_ncspc@rediffmail.com
Resi. Sushil Bhavan, Nr.PG Bagan, Nabapalli, Barasat, Kolkata-700126, West Bengal
150. Dr. Arup Chattopadhyay Professor, AICRP on Vegetable Crops, Department of Vegetables, Faculty of Horticulture, BCKV, Mohanpur
151. Dr. Nabaneeta Basak (Mrs.) Scientist, Crop Physiology and Biochemistry Division, ICAR-NRRI, Cuttack-3, Odisha
152. Dr. Biswajit Bhattacharya Asst. Director of Farms, BCKV, Mohanpur, West Bengal; Flat No 9, Nabanil Co-operative Housing Society Ltd., A-2/78 Kalyani, West Bengal
153. Mr. Subhasis Chattopadhyay Teacher, Duttafulia Union Academy (HS), Vill. and P.O. Duttafulia, Nadia, West Bengal
154. Dr. Amit Ranjan Mandal Professor, Department of Vegetable Crops, Faculty of Horticulture, BCKV, Mohanpur, West Bengal
155. Dr. C. A. Agasimani Former PI and Head, AICRP-WC, UAS, Dharwad 580003 Sri Somnath Krupa, Sreenagar, CITB Layout Dharwad.
156. Mr. Nikhilesh Pandey Deputy Director of Agriculture, Mayurakshi CADA, SURI, Birbhum Residence: Chaldhunipara (Near Kalitala), Rampurhat, Birbhum-731224, West Bengal
157. Dr. Mrinal Kanti Ghosh Scientist C, Central Sericultural Research and Training Institute, Central Silk Board, Ministry of Textiles, GOI, Berhampore-742101, West Bengal, Email: drmrinalghosh@gmail.com
158. Dr. Meera V Menon Associate Professor (Agronomy), College of Horticulture, Vellonikhav, Kau Thrissur-680656, Kerala, Email: m_vmenon@yahoo.com
159. Dr. P. Prameela Assistant Professor of Agronomy, College of Horticulture, Vellonikhav, Kerala Agril. University, Thrissur-680656, Kerala,

160. Dr. T. Girija Email: prameela.padathupalazhy@gmail.com
Professor in Plant Physiology, AICRP on Weed Control,
College of Horticulture, Vellonikhav, Kerala Agril. University,
Thrissur-680656, Kerala,
Email: girijavijai@gmail.com
161. Dr. Raghunath Sadhukhan Reader in Genetics, BCKV, Mohanpur, West Bengal, Email:
sadhukhan_pors@yahoo.co.in
162. Dr. Nityanand Angiras Professor and Head Agronomy (Retired), Angiras Abode
Friends Colony Holta, P.O.: HPAU, Palampur-176062,
Himachal Pradesh, Email: angirasnsk@gmail.com
163. Dr. Ranabir Chatterjee Former Dean, F/Horti & Professor, Department of Spices and
Plantation Crops, Faculty of Horticulture, BCKV, Mohanpur,
West Bengal,
Email: chatterjeeranabir@yahoo.co.in
164. Dr. Sukhen Roy Chowdhury Scientist C, Central Sericultural Research and Training
Institute, Central Silk Board, Ministry of Textiles, Govt. of India,
Berhampore, West Bengal
165. Mr. Sirajul Islam Technician (T3), Ramie research Station, CRIJAF (ICAR), P.O.
Sorbhog, Barpeta District, PIN 781317, Assam, Email:
sirajul_2005@rediffmail.com
166. Dr. Prakash Chandra Bose Former Deputy Director, Central Sericultural Research and
Training Institute, Central Silk Board, Ministry of Textiles, Govt.
of India, Berhampore, West Bengal
167. Dr. S. A. Khan Dean PG Studies & Professor, Department of
Agrometeorology, BCKV, Mohanpur, West Bengal, Email:
sakhan_bckv@sify.com
168. Dr. K. Nandini Devi Agroinmist, Directorate of Research, Central Agriculture
University, Imphal-795004, Manipur,
Email: nandini_devi2000@yahoo.com
169. Mr. L. Nabachandra Singh Professor and Head, Department of Agronomy, College of
Agriculture, Central Agriculture University, Imphal -795004,
Manipur, Email: ibomchalitam@yahoo.com
170. Dr. Kalipada Pramanik Lecturer in Agronomy, Department of ASEPAN, Palli Siksha
Bhavana, Visva-Bharati, Sriniketan 731236, Birbhum, West
Bengal
171. Dr. Manas Kumar Bag Assistant Plant Pathologist, Rice Research Station, Chinsurah
(RS) PIN 712102, West Bengal
172. Dr. Md.Wasim Aktar Krish Biotech Research Pvt. Ltd. (Upcoming OECD GLP Lab,
Permanent Address: Vill.: Namaz Gram (West), P.O.+P.S.:
Pandua 712149, Hooghly, West Bengal
173. Dr. Madhuparni Sen Department of Plant Breeding, BCKV, LH 4 Mohanpur Nadia,
West Bengal
174. Dr. Asim Kumar Maiti Reader, Department of Agril Entomology, BCKV, B-1/260
Kalyani Nadia, West Bengal
175. Dr. Ashutosh Das Sr. Lecturer, ATC, State Agril. Management and Extension
Training Institute, R K Mission Asram, Narendrapur, Kol-103
Email: adas1155@yahoo.com/adas1155@gmail.com
176. Dr. Bijan Adhikari Asst. Botanist, Rice Research Station, Chinsurah (R.S) Email:
ibijan@hotmail.com, adhikaribijan@gmail.com,
177. Dr. Dilip Kumar Das Professor, Department of Ag Chemicals and Soil Science,
BCKV, Mohanpur, West Bengal,
Email: dkdas1231@rediffmail.com
178. Dr. Birendra Prasad Assistant Professor, Seed Science and Technology, GB Pant
University of Agriculture and Technology, Hill Campus,
Ranichuri, Tehari Garhwal, Uttarakhand, PIN 249199, Email:
bprasadsst@yahoo.co.in
179. Dr. Anurup Majumder Professor, Department of Agril.Statistics, BCKV, Mohanpur-
741252, West Bengal
180. Dr. M. T. Sanjay Jr. Agronomist, Directorate of Weed Science Ressearch
Centre, UAS, Hebbal, Bangalore, 560024, Karnataka, Email:

181.	Dr. Pratap Kumar Dhara	mt.sanjay@gmail.com Reader, SWC, BCKV, 3/6 Thana Road Ghosh Para, Khardaha, Kolkata-700116, West Bengal Email: dr_pratap_dhara@yahoo.co.in
182.	Dr. Ashish Chakraborty	Professor, Department of Agronomy, BCKV, West Bengal Email: ashis_chak@rediffmail.com
183.	Dr. Joydev Ghosh	Department of Agril Entomology, Faculty of Agriculture. UBKV, Pundibari, Cooch Behar, West Bengal
184.	Dr. Kusal Roy	Associate Professor, Department of Agril Entomology, BCKV, Mohanpur, Nadia, West Bengal, Email: roynema@gmail.com
185.	Dr. Partha Sarathi Medda	Department of Plantation Crop and Processing, Faculty of Horticulture, UBKV, Pundibari, West Bengal
186.	Dr. Subhra Mukherjee	Professor, Department of Plant Breeding, BCKV, Nadia, West Bengal E mail: subhrabckv@rediffmail.com
187.	Dr. Debsankar Gupta	Department of Agril. Statistics, UBKV, Pundibari, West Bengal, Email: gupta_ubkv@rediffmail.com
188.	Dr. Samsul Haque Ansary	Subject Matter Specialist, Hooghly KVK, Chinsurah - 712102, West Bengal Email: Samshaque@rediffmail.com
189.	Dr. Surajit Mitra	Reader, Department of Post Harvest technology, Faculty of Horticulture, BCKV, West Bengal, Email: drsurajitmitra@yahoo.co.in
190.	Dr. J. Rammohan	Professor of Agronomy, PJN College of Agriculture and Resewarch Institute, Serumavilangai, Nedungadu, Karaikal 609603, Puducherry, E mail: rammohan_jayaram@yahoo.com
191.	Dr. Mrs. Manoja Pattanaik (Mohanty)	Scientist C, CSR&TI, CSB, Berhampore 742101, Email: manoja-ctp@rediffmail.com
192.	Dr. Saikat Das	Department of Plant Breeding, UBKV Pundibari, Cooch Behar, West Bengal
193.	Dr. Surajit Khalko	Department of Plant Pathology, UBKV Pundibari Cooch Behar, West Bengal
194.	Dr. Nongthombam S. Devi	Assistant Professor, Department of Soil Science & Agricultural Chemistry, College of Agriculture, Central Agricultural University, Imphal-795 004, Manipur
195.	Dr. Paritush Kumar Ghosh	Scientist C, CSR&TI, CSB, Berhampore 742101, Email: paritush.ghosh@rediffmail.com
196.	Dr. Manas Kumar Pandit	Professor, Department of Vegetable crops, Faculty of Horticulture, BCKV, West Bengal
197.	Mr. Sitesh Chatterjee	ADO (Res). Rice Research Station, Govt of West Bengal, Chinsurah, Hooghly, PIN 712102
198.	Dr. Sunil Kumar Gunri	Assoc. Prof., Department of Agronomy, BCKV, Mohanpur, Nadia, West Bengal
199.	Dr. Avijit Sen	Professor of Agronomy, Department of Agronomy, Institute of Agricultural Sciences, BHU, Varanasi, UP Email: avijitbhu@hotmail.com
200.	Ms. Debika Nongmaithem	Tera Sapam Leirak, Imphal West 795001, Manipur
201.	Dr. Gunadhar Dey	Reader, Department of Agril Economics, BCKV, West Bengal, Email: gddey@rediffmail.com,
202.	Md. Fazlul Haque	Asst Director of Agriculture, Soil Survey, Govt of West Bengal, 172/7 Rabindra Sarani., 2nd Lane Nutun Pukur, Bolpore, Birbhum- 731204, West Bengal
203.	Dr. D. Ramamoorthy	Reader, Department of Ecology and Environmental Science, Pondicherry University, Puducherry - 605014 E mail: hosiramin@yahoo.co.uk
204.	Dr. Sanjib Kumar Das	Asst. Prof., Department of Agronomy, BCKV, Mohanpur, West Bengal Email: sanjibag@gmail.com
205.	Dr. Bijoy Kumar Senapati	Associate Professor and Head, Department of Plant Breeding, BCKV Mohanpur, West Bengal Email: bksbckv@yahoo.co.in

206.	Dr. Dalim Kumar Sengupta	Reader, Department of Spices and Plantation Crops, Faculty of Horticulture, BCKV, West Bengal
207.	Dr. Rajib Kundu	Lecturer, Department of Agronomy, BCKV, West Bengal Email: rajibagro2007@gmail.com
208.	Dr. Dilip Kumar De	Associate Dean & Professor, Department of Plant Breeding Faculty of Agriculture, Mohanpur, West Bengal Email: dilipde.bckv@gmail.com
209.	Dr. Amrita Bhattacharyya	Department of Spices and Plantation Crops, Faculty of Horticulture, BCKV, WB
210.	Dr. Annie Poonam	Scientis C (Agronomy), Crop Production Division, CRRRI, Cuttack 753006, Orissa
211.	Dr. Sutanu Maji	Department of Applied Plant Science (Horticulture) Babasaheb Bhimrao Ambedkar University (A Central University) Vidya-Vihar, Rae Bareilly Road, Lucknow-226025 (U.P.), India, Email- majisutanu@gmail.com
212.	Dr. Sudhansu Sekhar Misra	Agronomist, AICRP on Weed Control, Directorate of Research, OUAT, Bhubaneswar-3 Email: msudhansu2005@yahoo.co.in
213.	Dr. Madhumita Mitra (Sarkar)	Department of Floriculture, Faculty of Horticulture, BCKV, Mohanpur, West Bengal, Email: mmitra@yahoo.com
214.	Dr. Satyanarayan Ghosh	Former Dean & Professor, Department of Fruits and Orchard Management, Faculty of Horticulture, BCKV.
215.	Dr. Madhab Chandra Dhara	Jt. Director, Rice Research Station, Chinsurah, PIN 712102, DOA, Govt. of WB
216.	Dr. Swaraj Kumar Dutta	Former Research Scholar, Department of Agronomy, BCKV, Mohanpur, West Bengal
217.	Dr. Uday Sankar Banerjee	Department of Environmental Science, Burdwan University, Burdwan, West Bengal
218.	Mr. Kashinath Mandal	Economic Botanist VII, B-15/11 Akankha-1, 2nd Floor, Lake Road, Kalyani, Nadia, PIN 741235, West Bengal
219.	Dr. Kalyan Chakraborti	Department of Fruits and Orchard Management, Faculty of Horticulture, BCKV Email: chakraborti.kalyan@rediffmail.com
220.	Mr. Prabir Kumar Ghosh	General Manager (MRKG & PROD. DIV.) Krishi Rasayan, A/11, 4th Floor, FMC Fortuna, 234/3A, AJC Bose Rd. 700020 Email: pkgghosh@krishirasayan.com
221.	Dr. Kalyan Jana	Asst Agronomist, WBAS(Res), Rice Research Station, Bankura, Nutan Chati, PO+Dist: Bankura, PIN-722101
222.	Dr. Ms. Lanonolqa Tzudir	Lecturer in Agronomy, Nagaland, Email: lanunola@gmail.com
223.	Dr. Rajib Goel	General Manager, Crystal Crop Protection Ltd. Azadpur, New Delhi
224.	Dr. Ms. Sarika Jena	Lecturer, Department of Agronomy, OUAT, Orissa; Email: sarika_bckvv@uahoo.co.in
225.	Dr. Tapan Kumar Mandal	Associate Professor, Department of Agricultural Extension, BCKV, Mohanpur, Nadia
226.	Mr. Nandan Saha	Student, Sir J. C. Bose Hall, BCKV, Mohanpur Permanent Address: South Akhanagar, Ward No. 10. Kaliyaganj Municipality. P.O. and P.S. Kaliyaganj Dist.Uttar Dinajpur W.B. PIN 733129
227.	Dr. Saikat Gantait	PhD (BCKV, India), Post-Doc (UPM, Malaysia) Assistant Professor (Genetics & Plant Breeding) Bidhan Chandra Krishi Viswavidyalaya [State Agricultural University] Mohanpur, Nadia, West Bengal 741252, India
228.	Dr. Fatik Kumar Bauri	Professor, Department of Fruits & Orchard Management, BCKV, West Bengal; B-2/306, Kalyani, Nadia, PIN-741235 Email: fkb_aicrp@rediffmail.com
229.	Dr. Dulal Chandra Ghosh	Professor in Agronomy, Institute of Agriculture, Visva-Bharati, P.O. Sriniketan-731236 Birbhum

230.	Dr. Pranab Dutta	Email: deghosh@rediffmail.com Programme Coordinator, Divyodaya Krishi Vigyan Kendra. P.O. Chebri, West Tripura Pin- 799207 Dibananda Palli, Tripura, Email: kvkwesttripura@yahoo.com
231.	Dr. Anil Dixit	Senior officer, Soil Science, DWSR (Directorate of Weed Science Research), ICAR, Jabalpur, Adhartal- 482004, MP
232.	Dr. Suvendu Kumar Roy	Leaturer, Department of Genetics & Plant Breeding, AINP on Jute & Allied Fibres. UBKV, P.O. Pundibari, Dist. Cooch Behar, W.B-736165
233.	Dr. Monilal Chatterjee	Former Professor, Department of Agril Entomology, BCKV, Mohanpur, West Bengal Email: cahtterjee_monilal@rediffmail.com
234.	Dr Wahengbam Purnima Devi	Subject Matter Specialist (Agronomy) Krishi Vigyan Kendra, Upper Subansiri, Arunachal Pradesh-791122 Email: wpuina@yahoo.co.in
235.	Dr. Arun Krishna Pal	Professor, Department of Agronomy, BCKV. Mohanpur, Nadia, West Bengal; A-10/376, P.O. Kalyani - 741235, Dt. Nadia, WB
236.	Dr. Manas Mohan Adhikary	Former Dean & Professor, Department of Agricultural Extension, BCKV, Mohanpur, Nadia, West Bengal- 741252, Email: dradhikary @gmail.com
237.	Dr C. Chinnusamy	Dean & Professor in Agronomy, DWSRC, Directorate of Crop Management, TNAU, Coimbatore-641003, Tamil Nadu Email: chinnusami@gmail.com
238.	Dr Jayadeva K. M.	Associate Professor of Agronomy, Main Research station, Hebbal, UAS, Bangalore-560024, Email: Jayadeva98@rediffmail.com
239.	Ms. Shirin Akhtar	Research Scholar, Dept. pf Vegetable crops. F/Hort., BCKV. Vill. and P.O. Chandamari, Dt. Nadia, Pin-741245 W.B. Email: shirin.0410@gmail.com
240.	Dr. Susanta Kumar Sarkar	Professor, Department of Fruits and Orchard Management, Faculty of Horticulture, BCKV, Mohanpur, Nadia, West Bengal
241.	Dr. Sanjit Debnath	Assistant Professor, Department of Fruits and Orchard Management, Faculty of Horticulture, BCKV, West Bengal Email: sdbckv@gmail.com
242.	Dr Jayanta Dutta	RRS, OAZ, UBKV, Majhian, Patiram, South Dinajpur, Email: jdeco@rediffmail.com
243.	Dr. Amitava Paul	Associate Professor, Department of Genetics and Plant Breeding, Palli Siksha Bhavan, Institute of Agriculture, Visva Bharati, Sriniketan, Birbhum-731236, Email: amitava_paul@rediffmail.com
244.	Dr. Ratneswar Roy	Associate Professor, Department of Soil and water Conservation, BCKV, Mohanpur, WB
245.	Dr. Sudarshan Chakraborti	Associate Professor, Department of Agricultural Entomology, BCKV, Mohanpur, Nadia, West Bengal E mail: cssento@gmail.com
246.	Dr. Asis Kumar Banik	Professor, Department of Post Harvest Technology of Horticultural Crops, Faculty of Horticulture, BCKV, Mohanpur, West Bengal E mail: banikasis@hotmail.com
247.	Dr. Partha Deb Ghosh	Professor, Department of Botany, Plant Biotechnology Research Unit, University of Kalyani, Email: pdggene@rediffmail.com
248.	Dr. Amitava Dutta	Assoc. Prof., Dept. of Seed Sci. & Tech.BCKV., Mohanpur, Nadia, Email: amitavapors@gmail.com
249.	Dr. Anupam Pariari	Professor, Department of Spices and Plantation Crops, Faculty of Horticulture, BCKV, Mohanpur, West Bengal Email: dranupariari@yahoo.co.in
250.	Dr Nilesh Bhowmick	Reader, Department of Pomology and Post Harvest Technology, Faculty of Horticulture, UBKV. Pundibari, Cooch Behar-736165 Email: nileshbhowmick@gmail.com
251.	Dr Debasis Mazumdar	Former Vice-Chancellor, UBKV, West Bengal

252.	Dr Prabir Chakraborti	Email: debstat@gmail.com Assoc.Prof., Department of Seed Science and Technology, BCKV, Mohanpur, West Bengal, Email: prab_c@rediffmail.com
253.	Dr Soumen Bera	Assistant Professor, Burdwan College of Agriculture, BCKV, West Bengal, Email: soumen.bckv@gmail.com
254.	Dr Umesh Thapa	Professor, Department of Vegetable Crops, Faculty of Horticulture, BCKV, Mohanpur, West Bengal, Email: drumesh.thapa@gmail.com
255.	Dr. Srikanta Das	Former Dean & Professor, Department of Plant Pathology & Dean, Faculty of Agriculture, BCKV, Mohanpur, Nadia, West Bengal Email: sridas_bckv@rediffmail.com
256.	Dr Arun Kumar Pal	Associate Professor, Department of Floriculture & Landscaping, Faculty of Horticulture, BCKV, Mohanpur, West Bengal, Email: drpal_bckv@rediffmail.com
257.	Dr Soumitra Chatterjee	Lecturer (Res.) in Agril Economics, BCKV, AICRP on Integrated Farming Systems, Directorate of Research, BCKV, Kalyani-741235 Email: soumitrasoum123123@gmail.com
258.	Dr Amitava Biswas	Associate Professor, Agril. Extension, BCKV, West Bengal Email: biswasamitava20631@gmail.com
259.	Dr Goutam Mondal	Associate Professor, Plant Pathology, UBKV, RRS(OAZ), Vill. Majhian P.O. Patiram-733133, Dist.Daskshin Dinajpur Email: gm_rrsubkv@yahoo.co.in
260.	Dr. MD.Hedaye Tullah	Asst. Prof. (Agronomy), AICRP on Chickpea, Directorate of Res., BCKV, Kalyani, Nadia , WB . Email: hedaye.bckv@gmail.com
261.	Dr. Mrityunjay Ghosh	Professor, Department of Agronomy, BCKV, Mohanpur, 741252, West Bengal; 60 Punnyananda Sarani, Mission Para, P.O. Rahara 700118, Dist.North 24 Paraganas, W.B. Email: mghoshbckv@rediffmail.com
262.	Dr. Mrs. Rakhee Banerjee	Lecturer in Business Management Holdia Institute of Technology, Holdia, W.B.
263.	Dr. Samumul Islam	Joint Director of Agriculture (Entomology), B-9/227, Kalyani Nadia-741235, Email: sislam@rediffmail.com
264.	Dr. Sanchita Mondal (Ghosh)	Technical Officer AMFU, RRS, OAZ, MAJHIAN, UBKV, Jambuni(south) Bolpur, Birbhum, Pin-731204, W.B. Email: sanm04@gmail.com
265.	Dr. Mrs. Soma Giri	SMS in Horticulture, Murshidabad Krishi Vigyan Kendra, WBUFAS, Kolkata. Vill-Milebasa P.O. Kalukhali P.O. Bhagwangola, Dist. Murshidabad Email: soma_veg23@rediffmail.com
266.	Dr. Subhasis Kundu	Professor, Department of Fruits & Orchard Management, Faculty of Horticulture, BCKV, Mohanpur, West Bengal Email:skundubckv@rediffmail.com
267.	Dr. Subhra Saikat Roy	Scientist (Horticulturist) Division of Horticulture, ICAR Research Complex ZORNEH Region, Manipur Centre, Lamphelpat, Imphol-795004, Manipur. Email: subrasaikat@gmail.com
268.	Dr. Suchand Dutta	Assoc. Prof., Dept. of Vegetable and Spice crops, UBKV, P.O. Pundibari, Cooch Behar Pin-736165, W.B. Email: suchanddutta@rediffmail.com
269.	Dr. Tapas Mandal	MP, Professor, Department of Floriculture and Landscaping, Faculty of Horticulture, BCKV Mohanpur, West Bengal
270.	Dr. Utpal Giri	Vill. and P.O. Mohati, P.S. Khejuri Subdivision-Contai, Purba Medinipur Pin-721430 Email: utpalagro84@gmail.com
271.	Dr. Bikash Ghosh	Professor, Department of Fruits and Orchard Management, Faculty of Horticulture, BCKV, Mohanpur, Nadia, W.B, Email: bikash1957@gmail.com

272.	Mr. Avijit Halder	Ph. D. Studnet Dept. of Soil and Water Conservation, BCKV. Netaji Hall, Kalyani, Nadia, W.B.-741235 Email: avijit.halder@gmail.com
273.	Dr. A. K. Misra	CSIR & TI, West Bengal, India
274.	Dr. Pranab Chattopadhyay	Former Professor, Department of Seed Science and Technology, BCKV, Mohanpur, Nadia
275.	Dr. Sushanta Kumar Dash	Senior Scientist, Department of Plant Breeding, Crop Production Division, CRRRI, Cuttack-6, Odisha
276.	Dr. Arunava Ghosh	UBKV, Pundibari, Cooch Behar -736 165, West Bengal
277.	Dr. Bholanath Mondal	Department of ASEPAN, Palli Siksha Bhavan, Sriniketan, Viswa-Bharati, West Bengal, India
278.	Dr. Binoy Kumar Saren	Department of ASEPAN, Palli Siksha Bhavan, Sriniketan- 731 236, Viswa-Bharati, West Bengal
279.	Dr. Debojit Das	CSIR & TI, West Bengal, India
280.	Dr. Ranjan Nath	UBKV, P.O. Pundibari, Cooch Behar Pin-736165
281.	Dr. Chaitan Soren	Assistant Professor in Agronomy, BCKV, West Bengal
282.	Dr. (Mrs.). Judy Fisher	University of Western Australia, Australia
283.	Dr. Arup Sarkar	Department of Genetics, UBKV, P.O. Pundibari, Cooch Behar Pin-736165
284.	Dr. Bidhan Roy	Department of Genetics and Plant Breeding, UBKV, P.O. Pundibari, Cooch Behar-736165
285.	Dr. Kausik Pradhan	Department of Agril. Extn. UBKV, P.O. Pundibari, Cooch Behar Pin-736165
286.	Dr. Binoy Kumar Soren	Department of ASEPAN, Palli Siksha Bhavan, Sriniketan, Viswa-Bharati, West Bengal, PIN 731 236
287.	Dr. Bijan Kumar Das	Professor, Entomology, BCKV, West Bengal, India
288.	Dr. Chandan Kumar Mondal	SMS, KVK, West Bengal, India
289.	Dr. Pradyumna Tripathy	OUAT, Odisha, India
290.	Dr. Pritam Kumar Jama	P.O. and Vill. Sidampur P.S. Moyna, Dist. Purba Medinipur-741644 Email: pritamkumarjama@gmail.com
291.	Dr. Ms. Sujaya Das	Former Research Scholar, Department of Plant Breeding, BCKV, West Bengal; Email: suji-diya2005@rediffmail.com
292.	Dr. A. Singh	Assistant Professor in Soil and water Conservation, UBKV, RRS, Majhian-733133, Dakshin Dinajpur, WB
293.	Dr. Gautam Chakraborty	Assoc. Professor in Agril. Entomology, Bidhan Chandra Krishi Viswavidyalaya, Mohanpur, Nadia, WB Email: entogautam@gmail.com
294.	Dr. Chiranjit Kundu	Research Associate, Department of Ag. Chemical, BCKV, 319, Swami Vivekananda Road, Birati, Kolokata-51, West Bengal Email: chirukundu@gmail.com
295.	Dr. D. A. Prasetya	Joglo Tari Association, Yogyakarta, Indonesia, Faculty of Agriculture, University of Gadjah Mada, Indonesia, da_prasetya@yahoo.co.in
296.	Dr. I. M. Ferichani	Sebelas Maret University, Central Java Province, Indonesia
297.	Dr. S. K. Swain	Regional Research Technology Transfer Station, OUAT, Chiplima Orissa, Email: swainsangram@yahoo.co.in
298.	Dr. Ajay Veer Singh	Asst. Professor, Microbiology, GBPUAT, India
299.	Dr. Mrs. Mousumi Parya	Former Sr Res. Fellow, BCKV Email: moushumi.parya@yahoo.com
300.	Dr. Ranjit Kar	Scientist C, Agricultural Chemistry and Soil Science, CSR&TI, Berhampore, WB, Email: ranjitkr4@gmail.com
301.	Md. Riton Chowdhury	SRF, Department of Agronomy, BCKV, WB Email: md.riton@gmail.com
302.	Dr. Mrs. Sunita Mukherjee	Scientist C, Entomology, CSR&TI, Berhampore, WB, Email: sunita57p@yahoo.in
303.	Mr. Paritosh Patra	Research Scholar, Department of Soil Science and Agricultural Chemistry, ASEPAN, Palli Siksha Sadan, Viswa-Bharati, Sriniketan,

304.	Mr. Mohinur Rahaman Biswas	Email: paritoshpatra@gmail.com Research Scholar, Department of Spices and Plantation Crop, F/Hort, BCKV, West Bengal
305.	Dr. Biswajit Karmakar	Email: biswas.mahinoor08@gmail.com Senior Scientific Officer, Bangladesh Rice Research Institute, Regional Station, Adaptive Research Division Bangladesh Rice Research Institute (BRRI) Joydevpur, Gazipur-1701, Bangladesh Email: biswajitbrri@gmail.com
306.	Dr. Anirban Maji	Assistant Professor (GPB) GPB) AICWr. BIP, BCKV, Kalyani, Nadia, WB Email: anigpbr@gmail.com
307.	Dr. D.Rajkhowa	Agronomist, ICAR, Meghalaya, India
308.	Mr. Salauddin Khan	Department of Spices and Plantation Crops, Faculty of Horticulture, Mohanpur, West Bengal; Email: skhan.bckv@gmail.com
309.	Dr. Rambilash Mallick	Professor in Agronomy, Institute of Agricultural Science, Calcutta University, B. C. Road, Kolkata
310.	Dr. Ashim Chakraborty	Department of Botany, Sripat Singh college, Murshidabad, Residence: 55/25/2 Purbasintee, Road, Fakir Ghosh Lane, Kolkata -30, Email: ashimbot@gmail.com
311.	Ms. Toijam Sunanda Devi	Research Scholar, Department of Agronomy LH-4, BCKV, Mohanpur, Nadia, W.B. Pin- 741252 Email:sunandabckv@gmail.com
312.	Dr. A. Sasmal	College of Horticulture, Chiplima, Sambalpur, OUAT
313.	Dr. Debasish Panda	Assistant Professor, Department in Plant Physiology, Palli Siksha Bhavan, Visva Bharati, Sriniketan, Birbhum - 731236, Email: debasishpanda007@gmail.com
314.	Dr. Ganesh Chandra Malik	Reader in Agronomy, Institute of Agriculture, Palli Siksha Bhavan, Visva Bharati, Birbhum- 731236, Email: ganeshmalik_2004@rediffmail.com
315.	Dr. Goutam Kumar Ghosh	Professor, Department of Agronomy, Palli Siksha Bhavan, Institute of Agriculture, Visva Bharati, Sriniketan, Birbhum - 731236, Email: ghoshgk@rediffmail.com
316.	Dr. Mrs. Mahua Banerjee	Lecturer, Department of Agronomy, Palli Siksha Bhavan, Institute of Agriculture, Visva Bharati, Sriniketan, Birbhum - 731236, E mail : mabanerjee16@rediffmail.com
317.	Dr. Mrs. Suchhanda Mondal	Lecturer(Sr Scale), Department of Soil Science and Agril Chemistry, Palli Siksha Bhavan, Institute of Agriculture, Visva Bharati, Sriniketan, Birbhum Email: suchhandamondal@rediffmail.com
318.	Dr. Soumitra Koley	Department of Floriculture and Land Scaping, Faculty of Horticulture, BCKV, Email: 2soumitra@gmail.com
319.	Dr. Abhijit Debnath	Associate Professor, Department of Ag. Chemistry and Soil Science, BCKV, Email: adebnathbckv@yahoo.com
320.	Dr. Hari Ram	Wheat Agronomist, Department of Plant Breeding and Genetics, Punjab Agriculture University, Ludhiana- 141004, Punjab, Email: hr_saharan@yahoo.com
321.	Dr. Navneet Agarwal	Assistant Agronomist (Pulses) Department of Plant Breeding and Genetics, Ludhiana - 141004, Punjab, Email: navneetpulsespau@yahoo.com
322.	Dr. Lakshmi Hijam	Assistant Professor, Department of Genetics and Plant Breeding, Uttar Banga Krishi Viswavidyalaya, Pundibari, New CoochBehar, West Bengal, India 736165
323.	Dr. Mrs. Mini Poduval	Associate Professor, Department of Spices and Plantation Crop, Faculty of Horticulture, BCKV, Mohanpur, Nadia, West Bengal, Email: poduvalmini@gmail.com
324.	Ms. Anannya ghosh	Research scholar, Department of Agronomy, BCKV, Mohanpur, Nadia, West Bengal (Resi. -B- 4/10, Kalyani- 741235, Nadia, West Bengal) Email: ghosh1991@gmail.com

325. Mr. Tamal Mondal Asst. Professor in Botany, Medical Botany and Pharmacognosy. S/O B N Mondal, Indirapalli (Shivmandir), P.O Kadamtala, Siliguri, Darjeeling, PIN-734011, Email: tamalmondal1@gmail.com
326. Ms. S. Sentharagai Ph.D. Scholar, Department of Agronomy, BCKV, Mohanpur; Email: doosen19@gmail.com
327. Dr. Tamal Kanti Jana Agricultural Chemist, SARI, Tollygunje, Flat No IIL, A9 Multiplex, Kalyani, Nadia, PIN-741235, Email: tamal.jana@gmail.com
328. Dr. Siripala Subasinghe Professor, Department of Crop Science, Faculty of Agriculture, University of Ruhuna, Mapalana, Kamburupitiya, Sri Lanka Email: subasinghe@crop.ruh.ac.lk,
329. Mr. Biswajit Bera MPS Farm, Jhargram
330. Mr. G. Satyanarayana Reddy Ph.D. Scholar, Department of Agronomy, BCKV, Email: satishreddyagrico@gmail.com
331. Dr. Mrs. Indrani Dana Joint Director of Agriculture (Rice Dev.), Rice Research Station, Chinsurah, B-1/35, Kalyani 741235, Nadia, West Bengal, Email: indranidana@yahoo.co.in
332. Mr. S. Roy MPS Farm, Jhargram
333. Dr. Mrs. A. Sumathi Research Associate, E mail: sumaarjunan@yahoo.co.in
334. Dr. Mrs. R. Kavimani Professor and Head, Department of Agronomy, TNAU, Email: r_kavimani@yahoo.co.in
335. Ms. Shrabani Basu Ph.D. Scholar, Department of Agronomy, BCKV, Email : shrabanibasus.ag@gmail.com
336. Dr. Tuhin Narayan Roy Department of Ag economics, UBKV, Pundibari, Cooch Behar, Email: tuhinroy@rediffmail.com
337. Dr. V. Chellamuthu Dean, Pandit Jawaharlal Nehru College of Agriculture and Research Institute, YNAU, P O Nedungadu, Karaikal, 609603, Puduchery Email: drvcimuthu@yahoo.co.in
338. Dr. Mrs. V. Sridevi Assistant Professor, Department of Agronomy, Pandit Jawaharlal Nehru College of Agriculture and Research Institute, Karaikal -603 609, Puduchery
339. Mr. Akhil Chandra Mahata Research Scholar, Department of Seed Science and Technology, BCKV, Mohanpur Email: akhilseed@gmail.com
340. Dr. Shiv Shankar Mahesh SRF, Department of Ag Biochemistry, BCKV, Mohanpur, Email : shivmahesh0@gmail.com
341. Dr. Pabitra Banik Associate Professor, Agricultural and Ecological Research Unit, ISI, Kolkata-108
342. Mr. Masedul Rakib Research Scholar, Department of Agronomy, BCKV, Mohanpur, Nadia, West Bengal E mail: masedulbckv@gmail.com
343. Dr. Suresh Kumar Professor, Weed Science, Department of Agronomy, College of Agriculture, CSKHPKV, Palampur, H.P.
344. Ms. Amita Sharma Department of Genetics and Plant Breeding, Institute of Agricultural Sciences, BHU, Varanasi, UP, E mail: drhlsharma_jnkvv@rediffmail.com
345. Mr. Bhupesh Chandulal Nandeswar Research Scholar, Deptt. Plant Breeding, BCKV Email: bhupesh_nandeswar@rediffmail.com
346. Dr. Samir Kumar Samanta Former Joint Director of Research, BCKV, Kalyani, Nadia. Resi- 118A/1 Sarat Ghosh Garden Road, Flat No-B4, Geeta Bhavan, Kolkata-700 031
347. Ms. Shubhomita Chattopadhyay Research Scholar, Faculty of Horticulture, BCKV, Mohanpur, Nadia, West Bengal
348. Mr. Atanu Seni Research Scholar, Department of Entomology, Faculty of Agriculture, BCKV, Mohanpur, Nadia,
349. Dr. Asis Mukherjee Reader, Department of Agricultural Meteorology, BCKV, Mohanpur, Nadia, West Bengal

350.	Dr. Narayan Chandra Banik	Former RS, Department of Agronomy, Faculty of Agriculture, BCKV, Mohanpur, Nadia
351.	Dr. Debashis Manna	Department of Vegetable Crops, Faculty of Horticulture, BCKV, Mohanpur
352.	Ms. Amrita Sengupta	Research Scholar, Department of Agronomy, Faculty of Agriculture, BCKV, Mohanpur, Nadia
353.	Dr. Kallol Bhattacharyya	Assoc.Prof., Department of Ag. Chemistry and Soil Science, BCKV, Mohanpur, Nadia
354.	Mr. Samsul Haque	Field Assistant, Department of Agronomy, Faculty of Agriculture, BCKV, Mohanpur, Nadia
355.	Dr. Sankhajit Roy	Assoc.Prof., Department of Ag. Chemicals, Faculty of Agriculture, BCKV, Mohanpur, Nadia
356.	Ms. Priyanka Biswas	Research Scholar, Department of Vegetable Crops, Faculty of Horticulture, BCKV, Mohanpur
357.	Mr. L. C. Patel	Ramkrishna Ashram Krishi Vigyan Kendra, Nimpith Ashram-743338 Email: lakshman_patel@rediffmail.com
358.	Mr. Malay K. Mandal	Research Scholar, Vill- Dhanara, P.O.- Pirargoria, Dist- Purulia, Pin- 723 131, Email: malaymandal86@gmail.com
359.	Mr. Amal Kumar Bera	Research Scholar, Department of Agronomy, BCKV, Mohanpur, Nadia
360.	Ms. Anita Hansda	Assistant Professor, Department of Agronomy, BCKV, Mohanpur, Nadia
361.	Mr. Aniruddha Sarkar	Senior Development Officer, Biostadt India Ltd., Hooghly
362.	Dr. B.B. Bindroo	Director, Central Sericultural Research and Training Institute, Mysore
363.	Mrs. Banani Das	Agricultural Officer, Town Bordowali, Agartala, Tripura (West), PIN 799001
364.	Dr. Bibhuti Bhusan Sahoo	Scientist(Horticulture), RRTTS(OUAT), Semiliguda. Post Box No. 10, Sunabeda, Koraput-763002(Odisha)
365.	Mr. Bijay Kumar	Horticulture Advisor, Uttar Pradesh
366.	Mr. Bimal Das	Deptt. of Genetics and Plant Breeding, BCKV, Mohanpur, Email: bimal.das987@gmail.com
367.	Dr. Biman De	Town Bordowali, R.K. Mission Road, Agartala, Tripura(W), Pin: 799 001, Email: biman_de@rediffmail.com
368.	Mr. Biplab Mitra	UBKV, Pundibari, Coochbehar, West Bengal
369.	Dr. Dilip Kumar Bastia	Associate Directorate of Research, Associate Professor, Department of Agronomy, OUAT, Bhubaneswar, Odisha
370.	Mr. Diwash Tamang	Research Scholar Department of Agronomy, Faculty of agriculture, BCKV, Mohanpur, Nadia
371.	Dr. Dulal Ch. Roy	Assistant Professor, (Agronomy), Deptt. of ILFC, F/VAS, WBUAFS, Belgachia, Kol-37, Email: dcroy09@gmail.com
372.	Dr. Dwijendra Barman	Principal Scientist (Horticulture), NRC for Orchids, Pakyong, E. Sikkim 737106, Email: dbarmannrco@gmail.com
373.	Mrs. Jayashree Ugalat	Assitant Professor, UHS, Bagalkot.
374.	Dr. K. Mohanta	AICRP on IFS, Assam Agri. University, Jorhat- 785 013
375.	Mr. Kalyani Mishra	Retired Chief Engineer, Irrigation and Water Way Department, Kol-8
376.	Dr. Krishna Kishore Goswami	KVK, Gayeshpur, BCKV, Mohanpur, Nadia, West Bengal
377.	Mr. More Kiran Annasaheb	Research Scholar Department of Entomology, Faculty of agriculture, BCKV, Mohanpur, Nadia
378.	Dr. Namburi Hari Satyanarayana	Scientist (Breeding), F. No. G-4, Sri Sai Nath Apartments, Opp. Employment Office, Bondilipuram, Srikakulam -532001, Andhra Pradesh, India, Email: namburihari@ymail.com . M: 09440518085
379.	Mr. Pabitra Adhikary	Lecturer, KVK, WBUAHFS, Kolkata
380.	Dr. Pallab Dutta	Department of Fruits and Orchard Management, Faculty of Horticulture, BCKV, Mohanpur, Nadia

381.	Mr. Sahuji Bandyopadhyaya	Research Scholar Department of Agronomy, Faculty of agriculture, BCKV, Mohanpur, Nadia
382.	Ms. Salma Begum	Research Scholar, Department of Plant Pathology, BCKV, Email: salmabegumsalmabegum@gmail.com,
383.	Ms. Shweta Das	Research Scholar, Department of Agronomy, Faculty of Agriculture, BCKV, Mohanpur, Nadia
384.	Ms. Srijani Maji	Research Scholar, Department of Agronomy, BCKV, Mohanpur, Nadia
385.	Dr. Mrs. Suchismita Tripathy	Associate Professor, Department of Agronomy, OUAT, Bhubaneswar, Odisha
386.	Dr. Sujit Adhikary	AERU, ISI, Kokata, Email: drsujitadhikary@yahoo.com
387.	Mr. Swapan Kumar Dutta	Research Scholar, Department of Agronomy, Faculty of Agriculture, BCKV, Mohanpur, Nadia
388.	Dr. Teena Rani	HAU, Hisar, Haryana
389.	Dr. Varupula Visalakshmi	Scientist (Entomology), Agricultural Research Station, Ragolu, Srikakulam District, AP-532 484, Email: visalakshmi.v@gmail.com
390.	Mr. Vinay Kumar Singh	Assistant Professor, SMS, Horticulture, Uttar Pradesh
391.	Ms. Vivel D. Shira	ASCO, TURA, Meghalaya, Ringre Gittim, Tura, West Garo Hills, Meghalaya, Email: malionsira@yahoo.in
392.	Dr. A. Narayana Rao	Visiting Scientist, ICRISAT, Plot No-1294A, Road No-63 A, Jubilee Hills, Hyderabad-500033
393.	Mr. Asok Kumar Chakraborty	Retired Forest Officer, M.Phil in Environmental Science, Soil Water Conservation, Kol - 50
394.	Mr. Subhankar Ghatak	Student, IRDM, Faculty Centre, R.K.Mission Ashrama, Narendrapur, Kol-700103
395.	Mr. T. Ragul	Student, IRDM, Faculty centre, R.K.Mission Ashrama, Narendrapur, Kol-700103
396.	Mr. Jajati Mandal	Asstt. Professor cum Jr. scientist, Deptt. Of Soil Science & Ag. Chemistry, BAU, Sabour, Email: jajatibau@gmail.com,
397.	Mr. Ratneswar Poddar	Assistant Professor (Agronomy), AICRP on Water Management, Directorate of Research, BCKV, Gayeshpur, Nadia-741234, West Bengal, India Email: rpoddar.bckv@rediffmail.com
398.	Ms. Soulima Das	Research Scholar, Agronomy, BCKV, Mohanpur, Nadia, Email: agrosoulima@rediffmail.com
399.	Ms. Diana Shamurailatpam	Research Scholar, Deptt. of Agronomy, BCKV, Email: dia_bie@yahoo.com
400.	Mr. Prabhat Kumar Singh	Ph.D Scholar, Rishi Aurobindo Hall, BCKV, Mohanpur, Nadia, West Bengal Email: singhpk.gpb@gmail.com
401.	Ms. Deepa Roy	Assistant Professor, Dept of Agril. Extn., UBKV, West Bengal Email: roydeepa87@gmail.com
402.	Dr. Dilip Kumar Dash	Associate Dean, College of Horticulture, Chiplima, Sambalpur, Odisha, Resi.: Plot No- 1114/1109, Lane-9, Satabdi Nagar, Baramunda, P.O.- Bhubaneswar-751003, Odisha, Email: dilip_palms@yahoo.co.in
403.	Dr. Dilip Kumar Murmu	Asstt. Professor in Vegetable and Spice Crops, RRS Old Alluvial Zone, UBKV, Majhian, Dakshin Dinajpur, Email: dipakmurmu1983@gmail.com
404.	Dr. S. Manivannan	Associate Professor and Head, Dept. of Hort. Sikkim University, 6th Mile, Samdur, Gangtok, Email: mani@gardener.com
405.	Dr. Kanu Murmu	Assistant Professor, Department of Agronomy, BCKV, Mohanpur, Nadia, West Bengal Email: kanumurmu@gmail.com
406.	Dr. Jayoti Majumder	Assistant Professor, Department of Floriculture, Faculty of Horticulture, BCKV, West Bengal Resi., 47/1 Ranipark, Belgharia, Kolkata -56 Email: jayotisarkar1@gmail.com
407.	Dr. Ajaya Kumar Trivedi	Senior Scientist (Plant Physiology), NBPGR, Regional Station

408.	Ms. Athopkam Kalpana	Bhawali 263132, Nainital, Uttarkhand, Email: jayakumartrivedi@gmail.com Student, Room No-AG-6, Ladies Hostel-2, BCKV, Mohanpur, Nadia-741252 Email: kalpanaathokpam@gmail.com
409.	Mr. Devhade Prameshwar Gopala	Research Scholar Hostel, BCKV, Kalyani, West Bengal- 741252, Email: pgdevhade@gmail.com
410.	Mr. Anindya Kumar Hembram	Asst. Prof., Dept. of seed Sci.& Tech , Instituite of Agricultural Science, University of Calcutta , Kol-19 Anindya.hembram@gmail.com
411.	Dr. Subrata Karmakar	Associate Professor, Faculty of Agril. Engineering, BCKV, Mohanpur, West Bengal Email: skarmakar.bckv@gmail.com
412.	Dr. Dipak Kumar Ghosh	Professor, A/4/4/8, KMDA Housing, Kalyani-741235, West Bengal Email: drdipakghosh08@gmail.com
413.	Mrs. Aritri Laha	RA, Dept of Genetics and Plant breeding, BCKV, Mohanpur- 741252Nadia, West Bengal, Email: lahaaritri@gmail.com
414.	Mr. Himangshu Das	Research Scholar, C/O Dr. C.K. Kundu, AICRP on Forage Crops, Directorate of Research, BCKV, P.O- Kalyani-741235, E.Mail: hdubkv@gmail.com
415.	Dr. Shanowly Mondal (Mrs.) (Ghosh)	Assistant Professor, Agril.Entomology, B.C.K.V, Mohanpur, Nadia, West Bengal.
416.	Mr. Subhrajit Mukherjee	SRF, Viswa Bharati, Diganta Pally, Santiniketan, 731 235, Email: subhrajitmukherjee@gmail.com
417.	Mr. Subhadeep Mukherjee	Research Fellow, Calcutta University, Vill+P.O.- Bhatar, Burdwan, 713 125, babai.mukherjee10@gmail.com
418.	Ms. Arijita Bhattacharyya	Research Associate, Vill+P.O.- Tehatta, Dist- Nadia, Pin- 741160, Email: arijitamam@gmail.com
419.	Mr. Bappa Ghosh	Research Associate, Vill- Sonakhali, P.O.- Birohi, Dist- Nadia, West Bengal, Pin- 741245, Email: ghosh.bappa3@gmail.com
420.	Mr. Abhishek Kundu	SRF, 57 Bandh Road, Mokdumpur, P.O.- Mokdumpur, Malda- 732103, Email: abhishekundu47@gmail.com
421.	Ms. Sambrita Majumder	SRF, 8/3 B.C. Roy Path, Ganguly Para, Shyamnagar, 24 Pgs(N), Email: msambrita@gmail.com
422.	Dr. Agniswar Jha Chakraborty	Research Associate, Room No 1/12, Rishi Aurobinda Hall, Research Scholar Hostel, BCKV, Kalyani, Nadia- 741 235, Email: agninomics@gmail.com
423.	Mr. Sayan Ghosh	SRF, 113, Goaltuli Road, Post+District- Hooghly, Pin- 712103, Email: ghoshsayan.ghosh@gmail.com
424.	Ms. Zehra Salma	Student, 1-11, Ground Floor, Harijan Basti, Madhapur, Hyderabad
425.	Dr. Arup Kumar Bandyopadhyay	Professor, Department of Agril. Extension, BCKV, Mohanpur, Nadia, West Bengal 22, Rishi Bankim Road, Kolkata-700049, Email: bandyopadhyay.arupkumar@gmail.com
426.	Dr. Rishu Sharma	Assistant Professor, Department of Plant Pathology, BCKV, Mohanpur, Nadia, West Bengal Email: rishu.sharma90@gmail.com
427.	Dr. Nirmal Kumar Tudu	SMS (Animal Science), KVK Gayeshpur, Nadia, Email: drnktudu@gmail.com
428.	Mr. Lungkudailu Malangmeih	Research Scholar, BCKV, Mohanpur, Email: lungkudailu.malangmei@gmail.com
429.	Mr. Debjit Roy	Research Fellow, Dept. of Fruits and Orchard Management, BCKV, Email: debjit.bckv@gmail.com
430.	Dr. Amarpreet Singh	Scientist (Agronomy), ICAR - Central Institute for Cotton Research (ICAR-CICR, Regional station, Sirsa, Haryana 125055
431.	Mr. Yumnam Santosh Singh	Research Scholar, Ag. Eco., F/Ag., BCKV Email: yumnam1989@gmail.com
432.	Ms. Debosree Dutta Mudi	Ph.D student, Agronomy, BCKV, Debendraganj, P.O.- Bolpur,

		Birbhum- 731 204, Email: ddmudi.bckv@gmail.com
433.	Mr. Anuttam Pariari	Research Scholar, Visva-Bharati, Dariapur, Dist- Midnapore(East), E mail: anuttampariari.ag@gmail.com
434.	Ms. Priyanka Nandi	Research Scholar, Vill- Dighapara, Haringhata, Nadia-741 221, Email: paromitanandi20@gmail.com
435.	Mr. Kh. Chandrakumar Singh	Research Scholar, BCKV, Mohanpur, Email: chandrakumarkh@gmail.com
436.	Mr. Jadunath Hembram	Research Scholar, AICRP on Forage Crops, Dir. of Res., BCKV, Kalyani, Email: jadunathhembram@gmail.com
437.	Mr. Rajib Das	Research Scholar, Agronomy, BCKV, Mohanpur, Nadia, Email: rajbidasagro@gmail.com
438.	Ms. Priyadarshani P. Mohapatra	Ph.D Student, FTC, BCKV, Mohanpur, Email: lipi.pragati@gmail.com
439.	Ms. Ipsita Das	Ph.D scholar, Dept. of Veg. Crops, BCKV, B-5/94, Kalyani, Nadia, Email: ipsita24890@gmail.com
440.	Ms. Reva Mondal	Ph. D Student, FTC, BCKV Email: revamondal1@gmail.com
441.	Mr. Soumen Pal	Scientist (ARS), Division of Computer Applications, IASRI, New Delhi Email: soumen.4345@gmail.com
442.	Ms Ipsita Mondal	Research Scholar, BCKV, Mohanpur, Nadia Email: ipsita.89@gmail.com
443.	Dr. Jahangir Kabir	Professor, Faculty of Horticulture, B-7/162, Kalyani, Nadia, Email: j_kabir@rediffmail.com
444.	Dr. Nitai Mudi	SMS(Plant Protection), Hooghly, KVK, Chinsurah, Email: nitaimudi@yahoo.co.in
445.	Ms. Soumitra Karmakar	Research Scholar, Vill+P.O.= Mayapur (Madhyapara), P.S.- Arambagh, Email: ts.karmakar007@gmail.com
446.	Mr. Adyant Kumar	Research Scholar, Department of Agronomy, BCKV, Mohanpur Email: adyant.pusa@gmail.com
447.	Ms. Bibhuti B. Rizal	Research Scholar, BCKV, Mohanpur Email: bibhutirizal@gmail.com
448.	Mr. Suren Murmu	Research Scholar, Dharampur Mansatala BCKV, Mohanpur, Nadia
449.	Ms. Anitha Maji	Ph. D Student, Horticulture, BCKV, Mohanpur, Email: anithamajji01@gmail.com
450.	Ms. Tulasi Lakshmi Thendu	Research Scholar, Department of Agronomy, BCKV, Mohanpur, Email: tulasiagric0318@gmail.com
451.	Mr. L. Jeebit Singh	Ph. D Scholar, Department of Post Harvest Technology, Faculty of Horticulture, BCKV, Mohanpur, WB Email: jeebitsingh@gmail.com
452.	Ms. Gayatri Khangjarakpam	Ph. D Scholar, Department of Post Harvest Technology, Faculty of Horticulture, BCKV, Mohanpur, WB Email: gayatriflori@gmail.com
453.	Ms. Koyel Dey	J. Biswas Lane, C.M.S., Christian Para, Patra Bazar, P.O. Krishnagar, P.S. Kotwali, Dist. Nadia, Pin741101 Email: koyeldey02@gmail.com
454.	Mr. Arkendu Ghosh	M.Sc. Student, Vill- Parul, P.O.+ P.S.= Arambagh, 712601, Email: ghoshranasonai@gmail.com
455.	Mr. Amit Karmakar	Research Scholar, BCKV, Mohanpur, Nadia Email: myselfamit1991@gmail.com
456.	Ms. Satarupa Acharjee	Research Scholar, Department of Agronomy, BCKV, Moahnpur, WB Email: satarupa.cat@gmail.com
457.	Dr. Sukhen Chandra Dhang	Farm Manager, Hooghly KVK, ICAR Email: sukhendhang@gmail.com
458.	Ms. Ratnamala Thokchom	Research Scholar, Department of Agril. Extension, BCKV, Mohanpur, WB Email: ratnairom@gmail.com
459.	Mr. Rocky Thokchom	SRF, Department of Floriculture, UBKV, Cooch Behar, Email: rockythokchomaau@gmail.com,
460.	Ms. Punabati Heisnam	Ph.D Scholar, Department of Agronomy, UBKV,

461.	Ms. Rupali Mondal	Email: imphalanuheisnam@gmail.com Ph. D Scholar, Department of Vegetable Crops, Faculty of Horticulture, BCKV, Mohanpur, West Bengal Email: rupali.mondalhorti@gmail.com,
462.	Mr. Milan Kanti Kundu	Research Scholar, Department of Agronomy, BCKV, Mohanpur, West Bengal Email: milankantikundu@gmail.com
463.	Mr. Venkata Satish Kuchi	Research Scholar, Department of Post Harvest Technology, Faculty of Horticulture, BCKV, Mohanpur, WB Email: newmoon_9@gmail.com
464.	Ms. Saikhom Zimisai Devi	Research Scholar, Department of Agril. Economics, UBKV, Cooch Behar, Email: zimisaikhom@gmail.com,
465.	Dr. Antara Seal (Bera)	Inhana Organic Research Foundation, 168 Jodhpore Park, Kolkata-68
466.	Ms. B.S. Dekhele	Reaearch Scholar, Department of Ag. Statistics, BCKV, Mohanpur, West Bengal
467.	Mr. Vishwajith K.P.	Reaearch Scholar, Department of Ag. Statistics, BCKV, Mohanpur, West Bengal, Email: vishwajithkp@gmail.com
468.	Md. Noman	Reaearch Scholar, Department of Ag. Statistics, BCKV, Mohanpur, West Bengal
469.	Ms. Jui Ray	SRF, Department of Agril. Economics, BCKV, Mohanpur, West Bengal Email: juirayndri@gmail.com
470.	Mr. Dibyendu Mondal	Research Scholar, Department of Agronomy, BCKV Email: dibyendumondal.agri@yahoo.com
471.	Dr. Jyotshna Mishra	Senior Horticulture Development Officer, Directorate of Horticulture, Ambikapur, Chhattishgarh, 497 001, Email: jyotsna_207@rediffmail.com,
472.	Dr. Chirasree Gangopadhyay	Scientist, Chinsurah Rice Research Station, DOA, Govt. WB, Email: chirasree123@rediffmail.com,
473.	Dr. Amitava Rakshit	Assistant Professor, Department of Soil Science and Ag. Chemistry, Institute of Ag. Sci, BHU, Varanasi, Email: amitavar@bhu.ac.in
474.	Dr. Chandan Karak	Assistant Professor, Department of Vegetable Crops, Faculty of Horticulture, BCKV Email: chandangarden@gmail.com
475.	Mr. Rounak Ghosh	Student, NIT (Engineering), B 4/10, Kalyani- 741235, Nadia, West Bengal, Email: rowyounak@gmail.com
476.	Dr. Ashish Chakroborty	Associate Professor, Dept. of Plant Pathology, Director of research building, BCKV, Kalyani, Email: ashis21chakroborty@yahoo.co.in
477.	Mr. Pritam Kumar Jana	Research Scholar, Department of Agronomy, Faculty of Agriculture, BCKV, Mohanpur, Nadia
478.	Mrs. Dolpriya Devi M.	D/o M. Tomba Sharma, Kwakeithel Moirang Purel Leikai, Imphal- West Manipur, Pin- 795001. Email: dopriya.ag@gmail.com
479.	Mr. FMC Pvt. Ltd.	FMC Pvt. Ltd.
480.	Dr. Susanta De	Associate Professor, Department of soil and water conservation, BCKV, Mohanpur Naida, West Bengal
481.	Dr. Shambhunath Karmakar	Professor, Deapartment of Agronomy, BAU, Jarkhand
482.	Dr. Tirthankar Benerjee	Assitant Professor, Department of Ag. Chemicals, IARI, New Delhi, Email:banerjeetirthankar@rediffmail.com
483.	Ms. Sudeshna Kar	Research Scholar, Department of Agronomy, BCKV, Mohanpur, Nadia, West Bengal
484.	Ms. Samima Sultana	RS, Dept of Spices & Plantation Crops, BCKV (Agricultural University) Mohanpur-741252,Nadia,WB,INDIA
485.	Ms. Srabani Das	Department of Floriculture and Landscaping, Faculty of Horticulture, Bidhan Chandra Krishi Viswavidyalaya (Agricultural University), Mohanpur-741252, West Bengal, INDIA, Email: srabani.das.1989@gmail.com
486.	Ms. Ananya Mukherjee	Research Scholar, F/Horti, BCKV, Mohanpur

487.	Ms. Hrisita Mohanta	Department of Spices and Plantation Crops, Faculty of Horticulture Bidhan Chandra KrishiViswavidyalaya, Mohanpur, Nadia, West Bengal
488.	Dr. Ivi Chakraborty (Mrs.)	Professor & Head, Faculty of Horticulture, F/Hort., BCKV, Mohanpur, Nadia
489.	Ms. Swathi Kolkunde	Assistant Professor, dept. of Floriculture, F/Hort., UBKV. Email: kswathi006@gmail.com
490.	Dr. Hasrat Ali	Associate Professor, Department of Ag. Economics, BCKV, Mohanpur, Nadia. Email: alihassrat366@yahoo.co.in
491.	Mr. Nation Chamling	Department of Seed Science and Technology, Bidhan Chandra Krishi Viswavidyalaya, Mohanpur, Dist. Nadia, West Bengal. PIN No. 741 252, Email: nationchamling@gmail.com
492.	Mr. Kaushik Roy	Not Available
493.	Mr. Arnab Pain	Not Available
494.	Mr. Amit Phonglude	Not Available
495.	Mr. Srimoyee Das	Not Available
496.	Mr. Ramen Das	Not Available
497.	Mrs. Debasree Saha	Not Available
498.	Mrs. Sheela Barla	Dept. of Agronomy, Birsa Agril. University, Kanke, Ranchi-834006, Jharkhand. Email: sheela.barla123@gmail.com
499.	Dr. Soumen Maitra	Associate Professor and Head, Dept. of Floriculture, Medicinal and Aromatic Plants, Faculty of Hort. UBKV, Pundibari, Coochbehar- 736165. Email: soumenmaitra@rediffmail.com
500.	Dr. Goutam Kumar Pandit	Associate professor, Dept of Biochemistry, UBKV, Pundibari, Coochbehar, Pin- 736165. Email: gkpandit@yahoo.co.in/ gpandit.ubkv@gmail.com
501.	Mrs. Mousumi Dutta Biswas	B-5/12, Kalyani, Nadia, Pin- 741235
502.	Mr. Vasant P. Surya Vanshi	Assistant Professor, Department of Agronomy, College of Agriculture, Nanded Road, Latur-413512 (M.S.). Email: vasant.suryavanshi@gmail.com
503.	Mr. Sanjay Halder	Department of Agricultural Chemistry & Soil Science BCKV, Mohanpur, Nadia, West Bengal-741252. Email:sanjay4mplassey@gmail.com
504.	Mr. Srikant Singh	Programme Coordinator, KVK, Dumka
505.	Dr. Uma Rani Sinniah (Mrs.)	Department of Crop Science , Faculty of Agriculture , University Putra Malaysia ,43400 UPM Serdang, Selangor D.E. Malaysia. Email: umarani@upm.edu.my
506.	Mr. Kiran Tukaram Jala	Not Available
507.	Mr. Prahlad Deb	Dept. of CIHAB, Division of Horticulture, Institute of Agriculture, Viswa Bharati, Sriniketan-731236. Email:debprld@yahoo.com
508.	Mr. Charan Teeja V.	Ph.D Scholar Address: Department of ASEPAN, PSB, Visva-Bharati,Sriniketan, Email: charan.visvabharati@gmail.com
509.	Mr. Rakesh Kumar	Scientist & Officer, Tea Board, Darjeeling Tea Research & Development Centre, A-B Path, Kurseong,- 734903,.Email: rk.jayantdtrdc@yahoo.com
510.	Mr. Bindoo J.S.	Asstt. Prefessor, (Agron), Sivakripa, PLRA-39A, Panachimoodu Lane, Pathom, Trivandum-695004. Email: jsbindhu@gmail.com
511.	Dr. L. Girija Devi	Associate Professor, (Agronomy), College of Agriculture, Vellayani- 695522, Kerala, Res: NGRA-76, Nambi Gardens 7th Stree Manacand, P.O.- Kamaleswaram, Trivandum, Kerala. Email: lgirijadevi@gmail.com
512.	Mrs. Amena M.	Assistant Professor, Agronomy, College of Agriculture, Vellayani, Trivandum-695522.

513.	Mr. Sunil Kr. Dash	Email: drameenaubaid@gmail.com Asstt. Professor (Vegetable Science), College of Horticulture, OUAT, Chiplima. Email: sunildash23@gmail.com
514.	Dr. Palash Mondal	Associate Professor, Entomology, Dept. of Plant Protection, Palli Siksha Bhavan, Viswa Bharati, Sriniketan- 731236, Birbhum
515.	Mr. Surajit Sarkar	SMS (Horticulture), Coochbehar, KVK, UBKV, Pundibari- 736165. Email: drsurajitskr@gmail.com
516.	Mr. Ajay Kumar	Senior Scientist, (SWCE), ICAR Research Complex Eastern Region, P.O. BV College, Patna- 800014, Bihar. Email: ajaykumar1001@gmail.com
517.	Mr. Telim Ratan Singh	SMS, Plant Breeding & Genetics, KVK Serapati, P.O.- Kangpakpi-795129, Manipur
518.	Dr.. Athokpam Haribhusan	SMS (Soil Sci.), KVK, P.O.-Kangpokpi Kangpekpi, 795129, Manipur
519.	Mrs. Mayuri Sahu	Asst. Professor, Genetics & Plant Breeding. Email: mayuri_pbg@rediffmail.com
520.	Dr. Suhrid Ranjan Barik	Vill+ P.O. Shibnagar Abad, P.S.- Namkhana, 24Pgs(S), Pin- 743357
521.	Mr. Surajit Halder	College of Horticulture (OUAT), Chiplima, Sambalpur, Odisha- 768025
522.	Mr. Abhijit Ghosal	SMS (Pl. Protection), Sasya Shyamala Krishi Vigyan Kendra, Integrated Rural Development & Management Faculty Centre, Narendrapur, 24Pgs(S), Pin-700103
523.	Mr. Shibnath Basfore	Asstt. Prof. Veg. & Spice Crops, F/Hort, UBKV, Pundibari, Cooch Behar, Pin- 736165, Email: shibnathbckv@gmail.com
524.	Mr. Shuja K. Roy	Not Available
525.	Dr.. Sunil Kumar Ghosh	Assoc.Prof. Agril.Entomology, BCKV. Email: Mail-sunil_kr16@rediffmail.com
526.	Mr. Mahabur Ahmed	Not Available
527.	Mrs. Soma Biswas	Assitant Professor, Department of Ag. Extension, BCKV, Mohanpur, Nadia, West Bengal.
528.	Dr. Raju Das	Asst. Prof., dept. of Plant Pathology , BCKV. S/o Ramapada Das, Vill- Matiari, P.O.- Banpur, Dist- Nadia, Pin- 741235. Email: rajudas05@gmail.com
529.	Mrs. Malabika Debnath	530, KBM, P.O.- Chakdaha, Dist- Nadia, Pin- 741222
530.	Mr. Biswajit Goswami	Subject Matter Specialist, Majhian KVK, UBKV, Coochbehar.
531.	Mr. Dilip Hazra	Asstt. Professor, Animal Science, UBKV
532.	Mrs. Sanchita Garai	Scientist, Vety. Extn. Education, Eastern Regional Station, ICAR, NDRI, Kalyani-741235. Email: sanchita.bckv@gmail.com
533.	Dr. Indrani Mukherjee (Mrs.)	Professor & Principal Scientist, Division of Agricultural Chemicals, Indian Agricultural Research Institute, New Delhi- 110012. Email: mukrj_irani@yahoo.com
534.	Dr. Sashi Bala Singh (Mrs.)	Principal Scientist, Division of Agricultural Chemicals, Indian Agricultural Research Institute, New Delhi-110012. Email: sbs_agch@yahoo.com
535.	Dr. Sukanta Biswas	SMS (Animal Science), Dakhin Dinajpur KVK, Mashian, Patiram, W.B. Pin- 733101,
536.	Dr. Ashok P.	Asstt. Professor and Head, Agricultural Research Station, Karnataka. Email: ashokap@uasd.in/ashokapuas@gmail.com
537.	Mrs. Minakshi Mishra	Research Scholar, Dept. of Agril. Statistics, BCKV, Mohanpur. Email: mmishra02sep@gmail.com
538.	Ms. Jessica Sten	Department of Plant Pathology, BCKV, Mohanpur, Nadia
539.	Mrs. Sananda Mondal	Department of ASEPAN, Institute of Agriculture, Visva-Bharati, Sriniketan-731236, WB. Email: mondalsananda@gmail.com
540.	Dr. Teekam Singh	Senior Scientist, Agronomy, Regional Rainfed Lowland Rice Research Station Pin- 781102, Dist- Kamrup (Assam).

		Email: tikuagron@gmail.com/tiku_agron@yahoo.co.in
541.	Mrs. Khwairakpam L. Devi	Not Available
542.	Ms. Dipannita Chakraborty	Not Available
543.	Mr. Sandip Hembram	Not Available
544.	Mr. Prosenjit Kundu	Not Available
545.	Mr. Manik Ch. Kundu	Not Available
546.	Mrs. Anindita Sahu	Not Available
547.	Mrs. Swarnali Bhattacharjee	Not Available
548.	Mr. D.K. Ghosh	Not Available
549.	Dr. Tankeswar Gorain	Department of Agronomy, School of Agricultural Science & Rural Development, Nagaland University, Pin- 797106.Email: tankeswar1968@gmail.com
550.	Dr. Ashutosh Sarkar	Associate Professor, Agril-Economics, UBKV, Vill- Tenganmari, P.O.- Rajarhat, Dist- Coochbehar, Pin- 736165.Email: sarkar.ashutosh@rediffmail.com
551.	Mr. Dinesh Chauhan	Senior Scientist, Cattle Cross Breeding Project, VNMKY, Parbhani-431402, CMSS.Email: dscahds@gmail.com
552.	Dr. T.B. Bagchi	Scientist, Dept of Crop Physiology and Biochemistry, ICAR, CRRI, Cuttack, Odisha-753 006. Email: torit.crijaf09@gmail.com
553.	Dr. Lilymoony Tripathy (Mrs.)	Floriculturist, AICRP on Floriculture, College of Horticulture, Chiplima, Res Address: Plot No 1068, Infront of ISKON Temple, Nayapalli, Bhubaneswar- 751012
554.	Dr. Krishendu Chakraborty	Sr Scientist, Dept. of Crop Imp., ICAR, CRRI, Cuttack, Odisha-753006
555.	Ms. Duba Hassan	Pugmil Road, Hazaribag- 825301, Jharkhand
556.	Mrs. Arpita Das	Charsarati, Dist- Nadia, P.S.- Chakdaha, Pin- 741235.Email: arpitadasrdm@gmail.com
557.	Mr. Arbind Kumar Gupta	Ph.D Scholar, Room No- G/6, Rishi Aurobindo Hall, BCKV, Kalyani, Nadia, W.B.- 741235
558.	Dr. Dhurabajyoti Sarkar	Scientist, Div., Agril. Chemicals, LBS Building, IARI, New Delhi-110012.Email: dhruba1813@gmail.com
559.	Dr. Kiran Kumar R Patil	Assistant Professor, Department of Agril. Economics, College of Agriculture, UAHS, Shimoga, Email: kiranecon@gmail.com
560.	Mr. Manjunatha G. R	Research Scholar, Department of Agril. Statistics, BCKV, Mohanpur, Nadia, West Bengal. Email: mgr.dvg@gmail.com
561.	Dr. Sandip Patra	Scientist (Agril. Entomology), Division of Crop Protection, ICAR RC for NEH Region, Meghalaya-793103, Email: sandippatra47@gmail.com
562.	Dr. Subhendu Shekhar Gantait	Associate Professor, 2/124. Vidyasagar, Kolkata-700047. Email: ssgflori@gmail.com
563.	Dr. Pabitra Kumar Mani	Associate Professor, Dept of Agril. Chemistry and Soil Science, BCKV. Email: pabitramani@gmail.com
564.	Dr. Subhajit Mallic	Department of Agronomy, BCKV, Nadia
565.	Dr. Triveni Ungata (Mrs.)	Scientist (Agronomy) ARS, Virianayaram, ANGRAU, Hyderabad.
566.	Dr. Golam Moinuddin	Assistant Professor, RRS, Jhargram.
567.	Dr Amrita Banerji (Mrs)	Scientist (Plant Pathology),ICAR-NRRI-CRURRS, Hazaribag, Jharkhand-825301
568.	Dr. Sunita Mahapatra (Mrs.)	Department of Plant Pathology, BCKV, Mohanpur-741252, Nadia, West Bengal
569.	Dr. Rajeeb Lochan Moharana	Deptt Seed Science and Technology, College of Agriculture, OUAT, Bhawanipatna, P O = Bhawanopatna-766001, Kalahandi, Odissa
570.	Prof. Somnath Bhattacharyya	Department of Genetics and Plant Breeding, Faculty of Agriculture, BCKV, Mohanpur, Nadia, West Bengal
571.	Dr. Arpita Das (Ms)	Department of Genetics and Plant Breeding, BCKV, Mohanpur, West Bengal
572.	Dr. Biswapati Sinha	Mahisbathan, Coochbehar, West Bengal – 736176

573.	Dr. Joydeep Banerjee	Asst. Professor, Genetics and Plant Breeding, BCKV, Mohanpur, Nadia, West Bengal
574.	Dr. Asif Tanveer	Professor, Department of Agronomy, University of Agriculture, Faisalabad, Pakistan
575.	Dr. Smritikana Sarkar (Mrs.)	Assistant Professor, AICRP on Agroforestry, RRS, Jhargram, BCKV
576.	Dr. Prabir Kumar Bhattacharyya	Associate Professor, Department of Genetics and Plant Breeding, BCKV
577.	Mr. Utpal Biswas	Department of Agronomy, BCKV
578.	Mr. Madhab Kumar Dutta	Department of Agronomy, BCKV
579.	Dr. Sonali Biswas (Mrs.)	Asst Professor, Department of Agronomy, BCKV
580.	Mr. Abhijit Saha	Asst Professor, College of Agriculture, Lembuchera, Tripura
581.	Ms. Kasturi Ghosh	Student BCKV
582.	Mr. Amitava Ghosh	WBUAFS, Simhat, Nadia-741249
583.	Mr. Korla Aditya Chowdary	Old NH5 Road, Haripuram, Mandas(MD), Srikakulam, Andhra Pradesh-532243
584.	Dr. Sanat Kumar Dwibedi	Orissa University of Agriculture and Technology, Bhubaneswar, Odisha
585.	Dr. Ashim Kr. Dolai	Department of Agronomy, Institute of Agricultural Science, University of Calcutta, 51/2, Hazra Road, Kolkata – 700 019, West Bengal, India.
586.	Dr. Riasen Mondal	Department of Agronomy, Bidhan Chandra Krishi Viswavidyalaya, Mohanpur, West Bengal, India, 741252
587.	Dr. Pran Krishna Thakur	Department of Post Harvest Technology of Horticultural Crops, Bidhan Chandra Krishi Viswavidyalaya, Mohanpur 741252, Nadia, India
588.	Mr. Sandipta Kumar Sarkar	Ph.D Scholar, Department of Agronomy, Faculty of Agriculture, Department of Agricultural Statistics Bidhan Chandra Krishi Viswavidyalaya, Mohanpur, Nadia, 741252, West Bengal
589.	Dr. Ayana Chakraborty	Basirhat college, Basirhat
590.	Dr. S. C. Bala	AINP on Agril. Acarology, Director of Research, B.C.K.V., Kalyani, Nadia, West Bengal-741235, India.
591.	Mr. Dipak Kumar Hazra	AINP on Pesticide Residues, Directorate of Research, BCKV, Kalyani, Nadia
592.	Mr. Rajib Karmakar	AINP on Pesticide Residues, Directorate of Research, BCKV, Kalyani, Nadia
593.	Dr. Dhananjay Prasad Mishra	Department of Botany Sabour College, Sabour – 813210
594.	Dr. Arunava Samanta	Associate Prof. Department of Agricultural Entomology F/Ag., Bidhan Chandra Krishi Viswavidyalaya, Mohanpur, Nadia, PIN-741252
595.	Dr. Sanjoy Shil	College of Agriculture, Bidhan Chandra Krishi Viswavidyalaya (Extd. Campus), Chhatna, Bankura 722 132, West Bengal
596.	Dr. Jagriti Borkar	Scientist, (Home Science), Krishi Vigyan Kendra, Harda(M.P)
597.	Mr. Kaushik Das	Department of Fruits and Orchard Management Faculty of Horticulture Bidhan Chandra Krishi Viswavidyalaya Mohanpur, Nadia, West Bengal
598.	Dr. Anirban Sarkar	AICRP on Potato, Kalyani, BCKV
599.	Dr. Anita Roy	AINP on Jute, GPB Department, BCKV, Kalyani
600.	Mr. Sanjay Kumar	Not Available
601.	Dr. Subhendu Jash	Associate Professor, BCKV, RRS, Jhargram
602.	Dr. H.K Chourasia	T.M Bhagalpur University, Bhagalpur
603.	Mr. Shyam Sundar Lakshmn	Not Available
604.	Dr. Dilip Kumar Misra	Not Available
605.	Dr. Shivani Uniyal	Department of Botany, BHU, Varanasi
606.	Mr. Sibajee Banerjee	Department of Agronomy, Faculty of Agriculture, BCKV
607.	Mr. Sushovan Das	Student, Department of Ag.Chemicals, BCKV, Mohanpur, Nadia, West Bengal

608.	Mr. Swarup Nanda Mandal	College of Agriculture, BCKV, Burdwan
609.	Mr. Anjan Kumar Chowdary	Hooghly, KVK
610.	Dr. Animesh Sarkar	Assistant Professor, Department of Horticulture, SASRD, Nagaland University
611.	Mr. Bappa Paramanick	Subject Matter Specialist, Soil Science and Agricultural Chemistry, D.Dinajpur Krishi Vigyan Kendra, UBKV, Majhian
612.	Mr. Ankan Das	Assistant Professor, Department of Horticulture, Institute of Agricultural Science, University of Calcutta, 51/2 Hazra Road, Kolkata-700019
613.	Dr. Surajit Kundu	Assistant Professor, Department of Agronomy, UBKV, Majhian
614.	Dr. Benurkar Biswas	Associate Professor, Department of Agronomy, BCKV
615.	Dr. Md. Shamsul Haque Prodhan	Associate Professor, Department of Genetic Engineering and Biotechnology, Shahjalal University of Science and Technology, Sylhet-3114, Bangladesh
616.	Dr. R. B. Hile	Associate Professor, Department of Agricultural Economics, MPKV, Rahuri, Maharashtra
617.	Dr. Devaranjan Thangadurai	Assistant Professor, Department of Botany, Karnataka University, Dharwad, Karnataka-580003
618.	Dr. Puja Ray	Assistant Professor, Department of Life Science, Presidency University, Kolkata-73
619.	(Mrs) Dr. Jamkhogin Lungdim	Assistant Professor, Department of Agronomy, College of Agriculture, Central Agricultural University, Iroisemba, Imphal-795004, Manipur, India
620.	Prof. Siddhartha S. (Dr.) Mukhopadhyay	Senior Pedologist (Retd.), Dept. of Soil Science Formerly Director (Feb 2010 - July 2014), Electron Microscopy & Nanoscience Lab Punjab Agricultural University Ludhiana 141004, India
621.	Dr. Pritam Ganguly	Assistant Professor-cum-Junior Scientist, Bihar Agricultural University, Sabour, Bhagalpur
622.	Mr. A. VIJAYAPRABHAKAR	Research scholar (Agronomy) Department of agronomy School of Post Graduate Studies Tamil Nadu Agricultural University Coimbatore – 3
623.	Dr. Partha Choudhuri	Assoc. Prof. Dept of Vegetable Science, Mail-partha 2909@rediffmail.com
624.	Dr. Keya Banerjee	Asst. Agromomist, Gayetri Apartment, B-2 / 361, Kalyani , mail keyasrs21oct@rediffmail.com
625.	Dr. Snehasish Das	Assistant Agronomist, WBAS (Research)
626.	Mr. Arka Samanta	Research Scholar, Department of Agricultural Entomology, BCKV
627.	Mr. Koushik Sen	Resaerch Scholar, Department of Agricultural Entomology, BCKV
628.	Mr. A Vijayaprabhakar	Research Scholar, No 18B, Anna Sreet, Kakuppamm Villupuram-605103, Tamil Nadi, India
629.	Mr. Pramiti Kumar Chakraborti	Research Scholar, Department Agricultural Meteorolgy, BCKV
630.	Er. Kingshuk Dhali	Department of Post Harvest Engineering, Faculty of Ag Engineering, BCKV
631.	Mr. Abnijit Saha	Hospital Para, Islampur, Uttar Dinajpur
632.	Mr. Jayanta Mandal	Research Scholar, Department of Seed Science and Technology, F/Ag, BCKV
633.	Dr. Biswajit Lahiri	Dept of Extension and Communication Management, College of Home Science, CAU Imphal, Tura- 794005, Meghalaya
634.	Dr. Sukanta Kumar Sahoo	Scientist(Horticulture) KVK, Deogarh, Odisha
635.	Dr. Laba Soren	Scientist(Plant Protection) KVK, Deogarh Odisha-768119
636.	Dr. Chinmoy Mishra	Programme Assistant (Soil Science), KVK, Deogarh, Odisha-768119
637.	Dr. Tapas Ranjan Das	Head, IARI, RS, PUSA, Bihar
638.	Mr. Arindam Sarkar	Assistant Professor in Soil Science, Regional research Station, R&L Zone, Bidhan Chandra Krishi Viswavidyalaya,

639.	Dr. Subhasis Samanta	Kadamkanan, Jhargram-721507 Assistant Professor, Department of Genetics and Plant Breeding, RRS, Kakdwip, BCKV
640.	Mr. Ram Nath Maurya	Room No 53, Patel Hostel, C. S. Azad University of Agriculture and Technology, Kanpur-208002
641.	Dr. Anil Kumar	Principal Scientist, Department of Agronomy, CSKHPKV, Palampur-176062
642.	Dr. S S Rana	Department of Agronomy, CSKHPKV, Palampur-176062,
643.	Ms. Sweta Kumari	Research Scholar, Department of Floriculture and Landscape Architecture, BCKV, West Bengal
644.	Ms. Moulita Chatterjee	BCKV, West Bengal
645.	Dr. Sutanu Sarkar	Asst Professor, Department of Genetics and plant Breeding, BCKV, Mohanpur, Nadia-741252
646.	Dr. Yashbir Singh Shivay	Principal Scientist and Professor, Division of Agronomy, ICAR-IARI, New Delhi-110012
647.	Mr. Goutam Mahata	Asst.Botanist(Breeder), Sugarcane Research Station, Department of Agriculture, Govt. of West Bengal, Bethuadahari-741126, Nadia, West Bengal
648.	Mr. Sayan Majumde	Research Scholar, Department of Ag Chemistry and Soil Science, Bidhan Chandra Krishi Viswavidyalaya, Mohanpur, Nadia, West Bengal-741252
649.	Dr. Paramita Biswas (Mrs.)	Asst. Prof., RRSS (OAZ), UBKV, Mathurapur, Malda
650.	Mr. Gulzar Ahmed Khan	Scientist B, Central Sericultural Research and Training Institute, Pampore, Central Silk Board, Ministry of Textiles, Pulwama, Jammu and Kashmir, PIN-192121
651.	Mr. Bharath Kumar Neelaboina	Scientist B, Central Sericultural Research and Training Institute, Pampore, Central Silk Board, Ministry of Textiles, Galandar, Jammu and Kashmir, PIN-192121
652.	Dr. Manpreet Singh	Assistant Agronomist Punjab Agricultural University Regional Research Station, Abohar, Punjab-152 116, Email: agrimanpreet@pau.edu
653.	Dr. P. K. Pathak	Krishi Vigyan Kendra, Murshidabad, West Bengal University of Animal and Fishery Sciences, Milebasa, Kalukhali, Murshidabad, West Bengal
654.	Dr. M. C. Rana	Professor, Dept of Agronomy, CSKHPKV, Plampur, HP 176062
655.	Mr. Souvick Banik	Student, PSMA, F/ Hort., Kedia Bagan, Jonepur, Kanchrapara, West Bengal
656.	Mr. Tapas Kumar Hembram	Assistant Professor in Agricultural Entomology, Regional Research Station (Old Alluvial Zone), Uttar Banga Krishi Viswavidyalaya, Majhian, P.O. Patram-733133, Dakshin Dinajpur District, West Bengal
657.	Dr. Tapas Kumar Pandit	Asst. Prof., RRS (OAZ), UBKV, Mahian Dakshin Dinajpur 733133
658.	Dr. Mohammed Wasim Siddiqui	Department of Food Science and Post Harvest Technology, Bihar Agriculture University, Sabour, Bhagalpur, Bihar-813210
659.	Dr. Anil Pappachan	Scientist B, CSB, Berhampur, WB, Anakkadan(H)Kalady P.O., Dist- Ernakulam, Kerala-683574
660.	Dr. Debashis Saren	Assistant Professor, Department of Genetics and Plant Breeding, BCKV
661.	Dr. C. Bharathi	Assistant Professor (SS&AC) Department of Agronomy Tamil Nadu Agricultural University Coimbatore.
662.	Mr. Desetty Jmnsk Sri Veda	Department of Seed Science and Technology, BCKV
663.	Mr. Aninda Chakraborty	Research Scholar, Ward No 4, Town Loupala, Post Subarnapur, Harighata, 741249
664.	Dr. Amitava Banerjee	Asst. Professor, Agril. Entomology, BCKV
665.	Mr. Triptesh Mondal	Research Scholar DEpartment of Agronomy, UBKV
666.	Dr. Puspendu Dutta	Asst. Professor, Dept. Seed Science and Technology, UBKV
667.	Dr. Aparna Baruah	Field Scientist, East India, DOW Agrosience India, C/ J K

668.	Ms. Purabi Banerjee	Baruah, Bamparbatia, P.O. Tezpur, Assam-784001
669.	Mr. Krishnendu Mondal	Research Scholar, Dept. Agronomy, BCKV
670.	Ms. Jui Ray	Research Scholar, Vill+Po=Hatkirtinagar, Purba Bardhaman-713128
671.	Mr. Saikat Biswas	Research Scholar, Deptt of Seed Science and Technology, BCKV
672.	Mr. Sudip Senguota	Research Scholar, Deptt. of Agronomy, BCKV
673.	Mr. Subhajit Pal	Research Scholar, Deptt of Agril Chemistry and Soil Science, BCKV
674.	Dr. Asit Kimar Mandal	Rajendra Prasad Central Ag. University, B5/97, Kalyani, Nadia-741235
675.	Ms. Madhusri Pramanik	Asst Prof. Deptt. of PLant Pathology, BCKV
676.	Dr. Dipak Kumar Ghosh (LKN)	Research Scholar, Deptt. of Agronomy, BCKV
677.	Dr. Gouranga Sundar Mandal	Asso. Prof. Deptt. of PLantation, Spices, medicinal and Aromatic crops, BCKV
678.	Ms. Anupa Biswas	Asso. Prof., Department of Genetics and Plant Breeding, BCKV
679.	Dr. Sanjoy Bairagi	RRSS, Raghunathpur, Purulia
680.	Dr. Jhuma Datta	Asst Prof, College of Agriculture, Susunia, BCKV
681.	Dr. Himadri Saha	Asst. Prof. College of Agriculture, Burdwan, BCKV
682.	Dr. Swapan Kumar Paul	Dept. of Ag Chemistry and Soil Science, BCKV
683.	Dr. Md Abdur Rahaman Sarkar	Asst. Professor, BAU, Maymensingha, Bangladesh
684.	Dr. Md Moshir Rahman	BAU, Maymensingha, Department of Agronomy, Bangladesh
685.	Dr. Md Mehedi Masood	Department of Agronomy, BAU, Maymensingh, Bangladesh
686.	Dr. Md Abdul Fazal Mollah	Addl.Deputy Director, BAU, Maymensingh, Bangladesh
687.	Dr. Taslima Jahan	Sr Scientific Officer, BJRI Regional Station, Mahiganj, Rangpur, Bangladesh
688.	Dr. Meinam Chanchan	Scientific Officer, Bangladesh Agril. Res. Institute, On Farm Division, BAU, Gazipur
689.	Dr. Priyambada Pradhan	Asst. Professor, PFE Department, Asst. Professor (Horticulture), School of Agriculture, GIET University, Gunupur, P.O. Gotisahi, Dist. Nayagarh, Odissa-752070,
690.	Dr. Lalita Rana	Assistant Professor, Department of Agronomy, Sugarcane Research Institute, Dr Rajendraprasad Central Agricultural University, Pusa, Samastipur, Bihar-8481250
691.	Dr. Ajay Kumar Singh	Principal Scientist & Head R&D AG Bio Systems Private Limited Telangana, Hyderabad
692.	Mr. Shagolsem Herojit Singh	Research Scholar, Department of Agricultural Statistics, Bidhan Chandra Krishi Viswavidyalaya, Mohanpur, Nadia 741252, West Bengal
693.	Dr. Jacob D	Asst. Prof (Agronomy) and Head On-Farm Research Centre, Kerala Agriculture University
694.	Dr. Sk Mahidur Rahman	Assistant Professor-cum-Junior Scientist Department of Agricultural Economics (PG) Bihar Agricultural University, Sabour Bhagalpur, Bihar-813210
695.	Dr. Sandeep Kumar	Assistant Professor-cum-Junior Scientist Department of Agricultural Economics (PG) Bihar Agricultural University, Sabour, Bhagalpur, Bihar-813210
696.	Dr. Naorem Meena Devi	Kakching Wairi Senapati Leikai, Leihaothabam Pareng, Kakching-795103
697.	Dr. Natasha Gurung,	Scientist (Horticulture-Fruit Science), IARI RS Kalimpong, West Bengal-734301
698.	Dr. Jyotirmay Karforma	Scientist
699.	Dr. Tirthartha Chattopadhyay	Assistant Professor-cum-Junior Scientist Department of Plant Breeding and Genetics Bihar Agricultural University Sabour, Bhagalpur, Bihar-813210
700.	Mr. Chijina K	Research Scholar, Department of Agronomy, College of

701.	Dr. V. Visha Kumari	Horticulture, Kerala Agricultural University, Thrissur
702.	Dr. Sudhanshu Singh	Scientist (Agronomy), Division of Crop Science, Central Research Institute for Dryland Agriculture (CRIDA), Santoshnagar, Hyderabad -500079, Telangana
703.	Dr. Mirza Hasanuzzaman	Director & Principal Scientist (Agronomy), IRRI South Asia Regional Centre (ISARC), NSRTC Campus, G.T. Road, Collectry Farm, P.O. Industrial Estate, Varanasi-221006, Uttar Pradesh
704.	Dr. Nikhil Gayen	Department of Agronomy, Sher-e-Bangla Agricultural University, Dhaka-1207, Bangladesh
705.	Dr. Shalini Pillai P	SMS, Hooghly KVK, BCKV, West Bengal
706.	Dr. Malay Kumar Adak	Professor and Head, Department of Agronomy, Kerala Agricultural University, College of Agriculture, Vellayani, Kerala-695522
707.	Dr. Pranay Rai	Associate Professor in Botany Plant Physiology and Plant Molecular Biology Research Unit Department of Botany University of Kalyani, Kalyani-741235, West Bengal
708.	Dr. Syryakanta Khandai	Asst. Professor (Agril. Entomology), College of Agriculture, Susunia, Bankura, West Bengal
709.	Dr. C. Sudhalakshmi	Senior Associate Scientist-I, SIPC Office, 5 th Floor, Nayantara Building, Sixth mile, Guwahati, Assam-781022
710.	Dr. Siddikul Islam	Assistant Proessor (Soil Science), CRS, Aliannagar-642101, 9/11B Chinna Mill Street, Angalakuchi, Polachi-642007
711.	Dr. Arnab Roychowdhury	SMS (Horticulture), Dakshin Dinajpur KVK, UBKV, Majhian-733133, West Bengal
712.	Dr. Pradeep Sagwal	Asst.Professor cum Junior Scientist, Department of Agronomy, Bihar Agriculture University, Sabur, Bhagapur- 813210
713.	Dr. Virender Kumar	Bayer Crop Science, New Delhi
714.	Dr. Arnab RoyChowdhury	Principal Scientist (Weed Science/ Systems Agronomy) International Rice Research Institute (IRRI), Los Banos, Laguna, Phillipines
715.	Ms. Naorem Meena Devi	Assistant Professor cum Junior Scientist, Department of Agronomy, Bihar Agriculture College, Bihar Agriculture University, Sabour, Bhagalpur- 813210
716.	Dr. Y S Parameswari	PhD Scholar, Kakching Wairi Senapati Leikai, Leihaothabam Pareng, Kakching Pin- 795103
717.	Dr. Aditi Chakraborty	Asst.Professor, College of Agriculture, College Farm,, Rajendra nagar, PJTSAU,Hyderabad, Telengana
718.	Dr. Suhrita Chakrabarty (Das)	Asst.Professor, Department of Pomology and Post Harvest Technology,UBKV,Pundibari,Cooch Behar, West Bengal
719.	Dr. Paramita Bhowmik	Professor and Head, BCKV, West Bengal
720.	Dr. Suman Debntah	SMS (Plant Protection) Malda KVK, UBKV Ratua, Malda, West Bengal
721.	Dr. Prof. Jagadish Chandra Jana	Asstt. Botanist, Rice Research Station, Chinsurah, Hooghly, West Bengal
722.	Dr. Suman Saha	Department of Vegetables and Spices Crops, UBKV, Pundibari, Cooch Behar, PIN 736165, West Bengal
723.	Dr. Nilima Karmakar	Sr. Research Fellow, Department of Ag. Extension, UBKV, Pundibari, Cooch Behar, West Bengal
724.	Ms. Naorem Meena devi	Assistant Professor, Department of Soil Science and Ag. Chemistry, N M College of Agriculture, NAU, Navsari
725.	Mr. Sayandan Sinha Ray	PhD Scholar, Bidhan Chandra Krishi Viswavidyalaya Kakching Wairi Senapati, Leihaothabam Pareng, P.O. & P.S. Kakching-795103
		Teaching cum Laboratory Assistant, Narendrapur Campus, Ramakrishna Mission Vivekananda Educational and Research Institute, Kolkata 700103, West Bengal

726.	Dr. Sultan Md Manwarul Islam	Department of Agronomy, BAU, Mymensingh, Bangladesh
727.	Dr. Pranab Debnath	Department of Agricultural Entomology, Faculty of Agriculture, Bidhan Chandra Krishi Viswavidyalaya, Mohanpur, Nadia, West Bengal
728.	Ms. Debjani Dutta	Sriratipur, Sheakhala, Hooghly, PIN-712706, West Bengal
729.	Mr. Soumik Pal	Student, Vill. Moulpur, P.O. Seherakuri, Md Bazar, Birbhum, PIN-731127, West Bengal
730.	Dr. S Sunitha	Principal Scientist (Agronomy), Division of Crop Production, ICAR-CTCRI, Thiruvananthapuram, Kerala
731.	Dr. J Suresh Kumar	Scientist (Vegetable Science), ICAR-CTCRI, Sreekaryam, Thiruvananthapuram, Kerala
732.	Dr. Trisha Manna	Teaching Associate, School of Agriculture and Allied Sciences, The Neotia University, Sarisa, PIN 743368, West Bengal
733.	Ms. Manimala Mahato	Research Scholar, Department of Agronomy, Bidhan Chandra Krishi Viswavidyalaya, Mohanpur, Nadia, West Bengal-741252
734.	Dr. Bishal Mukherjee	Asst. Professor, Department of Agronomy, The Neotia University, Sarisa, South 24 Parganas, West Bengal-743368

LIST OF FARMER LIFE MEMBERS (UPTO 31 MARCH 2023)

Sl. No.	Honour	Name	Address
1	Mr.	Jasimuddin Mondal	Chandamari, Kalyani, Nadia, West Bengal
2	Mr.	Manas Kumar Roy	Fulkalmi, Padmamala, Chhapra, Nadia, West Bengal
3	Mr.	Rafikul Haque	Chandamari, Kalyani, Nadia, West Bengal
4	Mr.	Aritra Ghosh	Kalyani, Nadia, West Bengal
5	Mr.	Jamsad Ali Mondal	Chandamari, Kalyani, Nadia, West Bengal
6	Mr.	Ananda Biswas	Majdia, Madanour, Kalyani, Nadia, West Bengal
7	Mr.	Manab Chakraborty	Alaipur, Kalyani, Nadia, West Bengal
8	Mr.	Dulal Khan	Majdia, Madanpur, Nadia, West Bengal
9	Mr.	Suman Mondal	Muratipur, Chasarhati, Nadia, West Bengal
10	Mr.	Jiban Krishna Biswas	Muratipur, Kalyani, Nadia, West Bengal
11	Mr.	Subal Mondal	Muratipur, Kalyani, Nadia, West Bengal
12	Mr.	Eunus Ali Mondal	Tarinipur, Kalipur, Chakdah, Nadia, West Bengal
13	Mr.	Damodar Tudu	Bir Sidhu Nagar, A-5, Kalyani, Nadia, West Bengal
14	Mr.	Sujoy Mondal	Muratipur, Chasarhati, Nadia, West Bengal
15	Mr.	Karia Murmu	Bir Sidhu Nagar, A-5, Kalyani, Nadia, West Bengal
16	Mr.	Sahidul Mondal	Chandamari, Kalyani, Nadia, West Bengal
17	Mr.	Manindra Basak	Muratipur, Chasarhati, Nadia, West Bengal
18	Mr.	Saral Mandal	Muratipur, Chasarhati, Nadia, West Bengal
19	Mr.	Kalyan De	Vill + P.O.: Goghat, District Hooghly, West Bengal
20	Mr.	Bijoy Krishna Majhi	Muratipur, Kalyani-741235, Nadia, West Bengal
21	Mr.	Surabuddin Gharami	Uttar Chandamari, Kalyani-741235, Nadia, West Bengal
22	Mr.	Rivina Gharami	Uttar Chandamari, Kalyani-741235, Nadia, West Bengal
23	Mr.	Rejual Haque	Uttar Chandamari, Kalyani-741235, Nadia, West Bengal
24	Mr.	Ambrish Kumar	Kamtaulia, Balukaram-844113, Vaishali, Hajipur
25	Mr.	Kanailal Paul	Uttar Chandamari, Kalyani-741235, Nadia, West Bengal
26	Mr.	Ripan Sikdar	Priyanagar, Kalyani-741235, Nadia, West Bengal
27	Mr.	Khokon Mondal	Maheswarpur, Kalyani-741235, Nadia, West Bengal
28	Mr.	Shyamal Karmakar	Mohanpur-741252, Nadia, West Bengal
29	Mr.	Amit Majumder	Dighapara, Barajaguli-741221, Nadia, West Bengal
30	Mr.	Santu Datta	Dharampur Hostel, Majhipara-743145, 24 Paraganas (North), West Bengal
31	Mr.	Surajit Biswas	Baikanthapur, Masunda-743411, 24 Paraganas (North), West Bengal
32	Mr.	Sandip Ballav	Shyamaprasad Pally, Palasi-743195, 24 Parganas (North), West Bengal

33	Mr.	Sadhan Malakar	Sundarban, Gosaba, 24 Parganas (South), West Bengal
34	Mr.	Ram Chandra Ghosh	Borobainan-713421, Raina, Burdwan, West Bengal
35	Mr.	Naba Kumar Mondal	Borobainan-713421, Raina, Burdwan, West Bengal
36	Mr.	Shyamal Karak	Subandaha, Barabainan-713421, Raina, Burdwan, West Bengal
37	Mr.	Sujit Mondal	Borobainan-713421, Raina, Burdwan, West Bengal
38	Mr.	Ranjit Mondal	Borobainan-713421, Raina, Burdwan, West Bengal
39	Mr.	Sovon Ghosh	Borobainan-713421, Raina, Burdwan, West Bengal
40	Mr.	Arup Kumar Mondal	Borobainan-713421, Raina, Burdwan, West Bengal
41	Mr.	Sanjoy Mondal	Borobainan-713421, Raina, Burdwan, West Bengal
42	Mr.	Ujjawal Mondal	Borobainan-713421, Raina, Burdwan, West Bengal
43	Mr.	Sahadev Mondal	Khandra, Satgechia, Purulia, West Bengal
44	Mr.	Avijit Dawn	Dhamachia, Mongalpur-713422, Monteswar, West Bengal
45	Mr.	Sampad Mahanta	Dewania, Mongalpur-713422, Monteswar, West Bengal
46	Mr.	Sanjib Ghosh	19, Kajipara, Taldunga, Chinsurah-712101, Hooghly, West Bengal
47	Mr.	Kalyan Konar	Radhanagar, Dwarhatta-721403, Jangipara PS, Hooghly, West Bengal
48	Mr.	Tusar Kanti Roy	Bhobla, Paschim Medinipur, West Bengal
49	Mr.	Dipak Bera	Khanru Radhanagar, Purba Medinipur, West Bengal
50	Mr.	Tarun Bera	Khanru Radhanagar, Purba Medinipur, West Bengal
51	Mr.	Pravas Kumar Jana	Usatpur, Purba Medinipur, West Bengal
52	Mr.	Gopal Maity	Khanru Radhanagar, Purba Medinipur, West Bengal
53	Mr.	Manas Kumar Dhara	Bakhrabaj, Purba Medinipur, West Bengal
54	Mr.	Sukhdeb Nath	Krishnanagar, P.O-Sagor Krishnanagar, P.S. Sagor, South 24 Parganas, Pin-743373, West Bengal
55	Mr.	Rahidul Mondal	Vill- Uttar Panchpota, P.O. Chakdaha, Nadia, PIN 741222, West Bengal
56	Mr.	Saibal Roy	Captain House, P.O. Gobrapota, Krishnagar, Nadia, PIN 741103, West Bengal
57	Mr.	Jyotirmoy Ghosh	Vill- Santosha, P.O. Mangalganj, West Bengal
58	Mr.	Tapan Senapati	Vill-Sankarkara, P.O. Phandar, P.S. Beld, West Midnapur, West Bengal
59	Mr.	Mohan Chandra Mondal	Vill. and P.O. Dangapara, P.S. and Dist. Murshidabad, 742302, West Bengal
60	Mr.	Krishanu Simlai	Vill. and P.O. Dasghora, Block: Dhaniakhali, PIN: 712402, Dist. Hooghly, West Bengal
61	Mr.	Kenaram Ghosh	Vill. Panchkahania, P.O. Bara Jaguli, Nadia, 741221, West Bengal
62	Mr.	Jakir Hossain Mondal	Chandanmari, Kalyani, Nadia, West Bengal
63	Mr.	Kripasindhu Panja	KrishnaNagar, P S Sagar, South 24 Paraganas, PIN 743373, West Bengal

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Mode of Presentation of Abstracts
Theme-A

SI No.	Submitted Abstract	Mode of Presentation
1.	AISDGONF/ABS/TA/1	Poster
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Mode of Presentation of Abstracts
Theme-B

SI No.	Submitted Abstract	Mode of Presentation
1.	AISDGONF /ABS/TB/4	Oral
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138.	AISDGONF/ABS/TB/501	Poster
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140.	AISDGONF/ABS/TB/503	Plenary Lecture
141.	AISDGONF/ABS/TB/513	Poster
142.	AISDGONF/ABS/TB/515	Invited Oral
143.	AISDGONF/ABS/TB/516	Lead Lecture
144.	AISDGONF/ABS/TB/517	Poster
145.	AISDGONF/ABS/TB/518	Poster
146.	AISDGONF/ABS/TB/519	Poster
147.	AISDGONF/ABS/TB/521	Poster
148.	AISDGONF/ABS/TB/522	Poster
149.	AISDGONF/ABS/TB/524	Poster
150.	AISDGONF/ABS/TB/536	Oral
151.	AISDGONF/ABS/TB/539	Poster
152.	AISDGONF/ABS/TB/541	Lead Lecture
153.	AISDGONF/ABS/TB/545	Lead Lecture
154.	AISDGONF/ABS/TB/549	Invited Oral

155.	AISDGONF/ABS/TB/550	Poster
156.	AISDGONF/ABS/TB/551	Poster
157.	AISDGONF/ABS/TB/552	Poster
158.	AISDGONF/ABS/TB/553	Poster

Old Abstract Reference No	New Abstract Reference No
AISDGONF/ABS/TB/ 373	AISDGONF/ABS/TB/491
AISDGONF/ABS/TB/ 374	AISDGONF/INV/ABS/TD/286
AISDGONF/ABS/TB/ 375	AISDGONF/ABS/TB/494
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1.	AISDGONF /ABS/TC/9	Poster
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77.	AISDGONF/ABS/TC/537	Lead Lecture

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AISDGONF/ABS/TC/334	AISDGONF/ABS/TC/424
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133.	AISDGONF/ABS/TD/447	Poster
134.	AISDGONF/ABS/TD/448	Lead Lecture
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138.	AISDGONF/ABS/TD/453	Poster
139.	AISDGONF/ABS/TD/454	Poster
140.	AISDGONF/ABS/TD/455	Oral
141.	AISDGONF/INV/ABS/TD/456	Invited Oral
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143.	AISDGONF/ABS/TD/458	Poster
144.	AISDGONF/ABS/TD/459	Oral
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148.	AISDGONF/ABS/TD/463	Poster
149.	AISDGONF/ABS/TD/464	Lead Lecture
50.	AISDGONF/ABS/TD/465	Plenary Lecture

151.	AISDGONF/ABS/TD/466	Plenary Lecture
152.	AISDGONF/ABS/TD/514	Poster
153.	AISDGONF/ABS/TD/520	Invited Oral
154.	AISDGONF/ABS/TD/523	Poster
155.	AISDGONF/ABS/TD/525	Poster
156.	AISDGONF/ABS/TD/526	Plenary Lecture
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158.	AISDGONF/ABS/TD/529	Lead Lecture
159.	AISDGONF/ABS/TD/531	Poster
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163.	AISDGONF/ABS/TD/543	Lead Lecture
164.	AISDGONF/ABS/TD/546	Poster
165.	AISDGONF/ABS/TD/547	Poster

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23.	AISDGONF/ABS/TE/182	Oral
24.	AISDGONF/ABS/TE/183	Oral
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49.	AISDGONF/ABS/TE/342	Poster
50.	AISDGONF/ABS/TE/467	Poster
51.	AISDGONF/ABS/TE/468	Lead Lecture
52.	AISDGONF/ABS/TE/469	Oral
53.	AISDGONF/ABS/TE/470	Oral
54.	AISDGONF/ABS/TE/471	Plenary Lecture
55.	AISDGONF/ABS/TE/472	Plenary Lecture
56.	AISDGONF/ABS/TE/473	Poster
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59.	AISDGONF/ABS/TE/477	Poster
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61.	AISDGONF/ABS/TE/479	Oral
62.	AISDGONF/ABS/TE/480	Poster
63.	AISDGONF/ABS/TE/527	Plenary Lecture
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65.	AISDGONF/ABS/TE/533	Plenary Lecture
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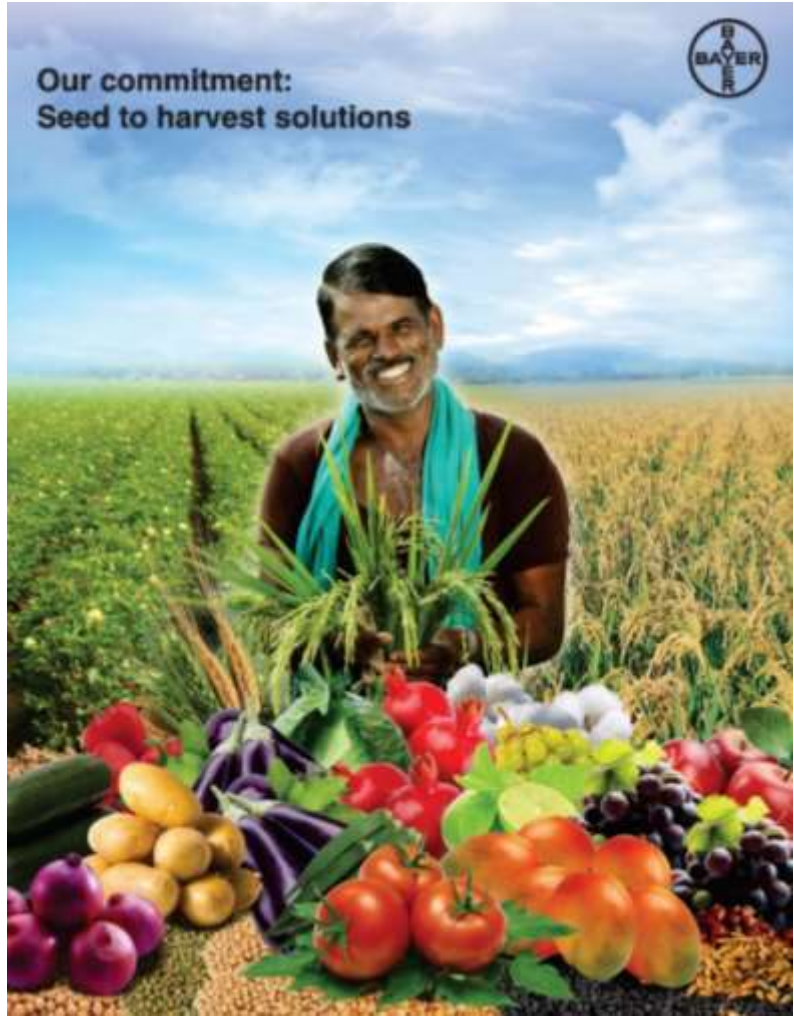
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Specialist
Trustworthy
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The advertisement features a central image of a BASF Facet herbicide container, which is yellow and white, being held by two hands. The background is a lush green field under a blue sky. To the left of the container, there are three circular icons with the labels 'Specialist', 'Trustworthy', and 'Gelling'. The BASF logo and tagline 'We create chemistry' are in the top right corner. Below the product name, it says 'A True Companion for tough Echinochloa species control'. In the bottom left corner, there is a QR code and the text 'For more information scan QR code'.

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	Name	Mobile	Email
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Secretary	Prof. A.K. Basu	9433826133	asitkumarbasu@gmail.com
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Transport Committee	Dr. Kironmay Barui (Convenor) Dr. Tarun Sarkar Dr. Sanjoy Shil Dr. Pritam Jana	9433376122 7003197901	kironmaybckv@gmail.com
Accommodation Committee	Prof. A. Pramanik (Convenor) Prof. Kamal Mandal Prof. Narayan Chattopadhyay Dr. Sujit Adhikary Dr. Pritam Ghosh	6291928447 9433376115	apramanik04@yahoo.com
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LIST OF EXECUTIVE MEMBERS, CWSS, KALYANI 2023-25			
Sr. No.	Name and Institute	Post	Phone No. & Email address
1.	Prof. Dr. Ratikanta Ghosh (RTD.), Agronomy, BCKV, West Bengal	President	91-9748636946 drajr1956@gmail.com
2.	Prof. Dr. Amrit Lal Kundu (RTD.), Agronomy & Former DSW, BCKV, WB	Working President	91-9477325277 amritalkundu@gmail.com
3.	Prof. Dr. Manilal Chatterjee (RTD.), Ag. Entomology, BCKV, WB	Vice President	91-8731822187 / 9433317536 chatterjee_monilal@rediffmail.com / monilal.c@gmail.com
4.	Dr. Mrs. Indrani Dana Incharge, CRRS, GOVT. of West Bengal	Vice President	91-8420993702 indranidana@gmail.com
5.	Dr Sujit Adhikary, (Rtd.), ISI, Kolkata	Vice President	91-8910262976 drsujitadhikary@yahoo.com
6.	Dr Suhrid Ranjan Barik, FSL, Bangladesh, Mayanmar & TEL – AGL & Asian Countries; Corteva Agriscience	Vice President (Industry)	91-8170062026 suhrid.barik@corteva.com suhrid_chem@rediffmail.com
7.	Prof. Asit Kumar Basu, (RTD.), Former Head, Genetics & PB, BCKV, WB	General Secretary	91-9433512268 asitkumarbasu@gmail.com
8.	Dr. Debesh Pal (RTD.) Agronomy, BCKV, West Bengal	Treasurer	91-9432358650 paldebesh@rediffmail.com / drpal_bckv@rediffmail.com,
9.	Dr. Malay Kumar Bhowmick IRRI, Varanasi, Uttar Pradesh	Joint Secretary	91-6290551339 m.bhowmick@irri.com / bhowmikmk@gmail.com
10.	Dr Abhijit Ghosal, RKM, Kolkata	Joint Secretary	91-9126128877 abhijishu@gmail.com
11.	Prof. Dr. Abhijit Kumar Nandi Ag. Economics, BCKV, West Bengal	Member	aknandibckv@rediffmail.com
12.	Prof. Dr. Aniruddha Pramanik Ag. Entomology, BCKV	Member	apramanik04@yahoo.com,
13.	Prof. Dr. Manas Kumar Pandit Horticulture, BCKV, West Bengal	Member	mkumarpandit@yahoo.com
14.	Dr Sanjoy Sil, AP, Ag. Entomology, Bankura Campus, BCKV, WB	Member	sanjoycrijaf@yahoo.co.in/ sreejashil2010@gmail.com
15.	Dr Dwijen Barman, PS, & SI/C, ICAR- IARI, RS, Kalimpong, WB	Member	dbarmannrco@gmail.com/ dwijendra.barmann@icar.gov.in
16.	Dr Kironmoy Barui, Officer in charge, KVK, Howrah, BCKV	Member	kironmaybckv@gmail.com
17.	Dr Pritam Ghosh, Assistant Professor, PSB, Visva Bharati, Birbhum,	Member	pritambckv@gmail.com
18.	Dr. Pritam Kumar Jana	Member	pritamkumarjana@gmail.com

	ADA, Govt. of West Bengal		
19.	Dr Sitesh Chatterjee CRRC, Govt. of West Bengal	Member	sitesh.chatt@gmail.com
20.	Dr. Ashim Kumar Dolai, Assistant Professor, Ag., BSC, CU, WB	Member	ashim.dolai@gmail.com
21.	Prof. Dr. Tuhin Narayan Roy UBKV, Cooch Bihar, WB	Member	tuhinnroy@rediffmail.com
22.	Dr Nililma Karmakar	Member	nilimanau13@gmail.com
23.	Dr Md. S. Mahidur Rahaman, AP cum JS (PG), Agril. Economics, Sabour, Bihar	Member	rkmvur@gmail.com
24.	Mr. Jayanta Chakraborty Former GM, Indofil Chemical.	Member	jchakraborty@indofil.com / jc.bsed@gmail.com
25.	Dr. Nibedita Borgohain	Member	dr.nibeditaborgohain@yahoo.com
26.	Mr Shaidur Mandal, Kalyani	Member	Progressive Farmer



Crop and Weed Science Society (CWSS)

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