



SHINE

(Sustainable Hill Agriculture Information Network for Excellence)



ICAR- ATARI Umiam Newsletter

Volume 02 / Issue 02

July -September , 2023

Director's Desk



I am really overwhelmed to know that ICAR -ATARI Umiam, along with its KVK families commemorated the Hindi Pakhwada 2023 starting from 14 - 29 September, 2023 with lots of enthusiasm and patriotic feelings. I feel pleasure in putting before you the second issue (July-September, 2023) of ICAR-ATARI, Umiam Newsletter, where I could find Hindi Pakhwada celebration as more interesting news for this region as it highlighted overwhelming responses of the office staff in embracing Hindi amidst the diversity irrespective of language, culture and religion across the state. Actually, Hindi plays a prominent role to bind the North Eastern Hill (NEH) region to the mainland of the Country, for which equiproportional development have been possible across the country.

If we ponder over the significance of celebration of Hindi Diwas, it is considered as a red-letter day in Indian history. In a country like India with lots of diversity with respect to religion, culture, language, customs; Hindi acts as a bond to bring national cohesion and integration in fostering unity in diversity in our country. Being the most widely spoken language in India, dominated by more than 40% of Indian population, Hindi serves as a language for bridging the communication gap among the people of different regional language. Hence Hindi language was adopted as the official language of India by the constituent assembly on 14 September, 1949. Since then, Hindi Diwas is being celebrated by every organization on 14th September of each year as a mark of honour to our national language.

I am very happy to know that North Eastern states of the country have really taken an ardent step to respect our national language 'Hindi' as a common medium of conversation with the people of other parts of the country. Many events, competitions were organized among the office staff and school students to promote Hindi in their day-to-day work, which promoted and honoured the rich cultural heritage of Hindi. I must express my whole hearted gratitude to all my KVK family members for their sincere effort in celebrating Hindi Diwas or Pakhwada with a true spirit of patriotism fostering a deep sense of appreciation and understanding among the non-Hindi speaking people as their primary means of communication for a strong and united India.


(Amulya Kumar Mohanty)
Director

Inside this Issue

ICAR ATARI hosts AZW of KVKs-2023 in Collaboration With ICAR-NRC, Mithun, Medziphema
ICAR- ATARI Celebrates 77 th Independence Day
Hindi Pakhwada Organised by ATARI, Umiam
KVK, West Tripura celebrates 95th ICAR Foundation Day
KVK Dimapur participates in the exhibition during Independence Day celebration by Nagaland Government
PM- Kisan (Live Telecast) organized by KVK
Review of KVK Activities at Khowai, Tripura
KVK Sepahijhala conducts Parthenium Awareness week
Awareness Programme on Millet production for additional farm
Millet Recipe Contest Organized by KVK
Special Guest Shri. Shri. Mathung Lotha, Advisor (Agriculture) to Government of Nagaland visits KVK, Wokha.
General Manager, NABARD lauds KVK West Tripura
Shri Binay Bhusan Das, MLA Panisagar Inaugurates STRY on Mushroom Cultivation
District Magistrate visits Natural Farming Unit of KVK Unakoti, Tripura
KVK Kiphire organizes awareness program under Viksit Bharat Sankalp Yatra (VBSY)
KVK North Tripura Conducts training on Safe and Judicious Use of Glyphosate for Pest Control Operator
Training Cum Method Demonstration of Fruit Fly Trap and Installation of Traps Under FLD by KVK North Tripura
West Tripura conducts training on onion production technology
Awards and Citations
Seminar/ symposium /Training attended
Talks/Lectures delivered in External programme
MoU signed
Publications

भा कृ अनु प-कृषि प्रौद्योगिकी अनुप्रयोग अनुसंधान संस्थान, क्षेत्र-VII, उमियाम, मेघालय
ICAR-Agricultural Technology Application Research Institute, Zone-VII
Umiam, Meghalaya

ICAR- ATARI, Umiam hosts Annual Zonal Workshop of KVKs-2023, at Medziphema, Nagaland



Inaugural Function of AZW of ICAR-ATARI, Umiam



Delegates visiting exhibition Stall

ICAR-Agriculture Technology Application Research Institute (ATARI), Zone VII, Umiam, Meghalaya organized Annual Zonal Workshop of KVKs for the year 2023 at Nagaland in collaboration with ICAR-National Research Centre on Mithun, Medziphema from 20- 22 July 2023. The workshop was organized with a theme “Translating Research to Development for Sustainable Agriculture in North East region” which envisaged in fostering collaborations and partnerships among various allied organizations, providing ample opportunities for the KVK scientists to learn about the appropriate and latest technological options for large scale technology applications in the field and also reviewing the significant accomplishments of Krishi Vigyan Kendras under ICAR-ATARI, Zone VII.

Dr. K. M. Bujarbaruah, former DDG (Animal Science), ICAR & former Vice Chancellor, AAU, Jorhat graced the inaugural programme as Chief Guest in the presence of Dr. Anupam Mishra, Hon'ble Vice Chancellor, Central Agricultural University, Imphal and Dr. B.C Deka , Honourable Vice Chancellor, AAU, Jorhat as the Guest of Honour along with other dignitaries on the dais, namely Dr. Girish Patil, Director NRC Mithun, Medziphema and Dr. A.K Mohanty, Director ICAR-ATARI, Umiam.

In his inaugural address, Dr. K. M. Bujarbaruah highlighted the significance of natural farming and solar power generation in the north-eastern region and urged the KVKs to intervene in these areas following the principle of ‘Local for Vocal’ to promote sustainable agriculture in the region. Addressing the gathering, Dr. Anupam Mishra, Vice Chancellor, CAU, Imphal emphasized upon the importance of incorporating Artificial Intelligence, IoTs, and drone technology in KVKs operations for effective technology application in the field.

Additionally, Dr. Bidyut C. Deka, Vice Chancellor, AAU, Jorhat discussed about the progressive thinking and potential practices of the north-eastern region, which have rejuvenated ideas for sustainable agriculture and are now being adopted by the policy makers in the country. He also accentuated the importance of widespread cultivation of millets and natural farming practices for transformation of north-eastern agriculture.

Gracing the occasion virtually, Dr. U. S. Gautam, Honourable DDG (Agril Extension) spoke about the monitoring and feedback mechanism and emphasized strengthening the linkages with the state line agencies to translate KVK accomplishments for large scale implementation in the farmer's field.

Setting the tone for the programme, Dr. A K Mohanty, Director, ICAR-ATARI, Umiam in his welcome address, mentioned about the perspective plan for strengthening the KVK system in the context of 21st century extension plus era to bring efficiency, quality and productivity. He also provided an overview of the KVK achievements in the region. The vote of thanks was extended by Dr. Girish Patil S, Director, ICAR-NRC Mithun, Nagaland.

On this occasion, more than 20 publications from different KVKs and ICAR-ATARI, Umiam were released by the dignitaries on the dais. An exhibition stall was also inaugurated during the workshop to showcase the technologies from research institutes, unique regional products and accomplishments of the KVKs, which were highly appreciated by the dignitaries and delegates attending the workshop. The Annual Zonal Workshop was attended by 43 Heads of KVKs representing five different states, namely Meghalaya, Manipur, Mizoram, Nagaland and Tripura under Zone VII , along with scientists, and extension professionals from various line organizations.



Participants of AZW,2023 at NRC Mithun

ICAR- ATARI Celebrates 77th Independence Day

ICAR-ATARI, Umiam celebrated the 77th Independence Day of India on 15 August, 2023 with pomp and splendour. Dr. A.K Mohanty, Director of the Institute unfurled the National Flag. In his address to the gathering he remembered the sacrifices made by the great freedom fighters of our nation including Shri U Tirot Sing from Meghalaya and urged the staff of the institute and others to work for the growth and progress of the Country. The program was concluded by planting saplings in the office premises followed by distribution of sweets among the participants.



Flag hoisting by Director, ICAR- ATARI, Umiam during 77th Independence Day

Hindi Pakhwada Organised by ICAR-ATARI, Umiam

ICAR ATARI Umiam, celebrated Hindi Pakhwada from 14- 29 September, 2023. During this programme, various competitions such as Hindi translation, spelling test, poetry reading, extempore- speech, essay writing, etc. were conducted to promote Hindi among the staffs. All the administrative and technical staff of the institute actively participated in the events. Winners among the participants were felicitated with prizes.



Director, ICAR-ATARI Umiam addresses the staff during the inaugural function of Hindi Pakhwada



Prize distribution during Hindi Pakhwada



Staff of ICAR-ATARI Umiam participating in Hindi Pakhwada

● IMPORTANT EVENT ORGANIZED ●

Celebration of 95th ICAR Foundation Day by the KVKs of ATARI, Umiam

The foundation Day of ICAR was celebrated by all 43 Krishi Vigyan Kendra's with great pomp and show. A special program was organized by Krishi Vigyan Kendra, West Tripura at its campus, Belbari from 16 - 18 July, 2023. This programme was inaugurated by Smt. Krishnamala Debbarma, Vice chairman of Rashadasharathnagar Panchayat of West Tripura district in the presence of Mr. Pradyut Debbarma, CEO of Hatai Kothor FPO and Mr. Surendra Debbarma, Social worker. Promising technologies pertaining to agriculture and allied sector developed by various ICAR institutes were showcased during the programme. Around one hundred and twenty farmers from different villages of the district participated in the programme. Various farm inputs like water pump, knapsack sprayer etc. were also distributed among the farmers.



95th ICAR Foundation Day celebration at KVK, West Tripura



Technology showcasing by KVK, Dimapur



Interaction with the Chief Guest during visit to stall

KVK, Dimapur participates in the exhibition during Independence Day celebration of Nagaland Government

KVK, Dimapur participated in the exhibition during the 77th Independence Day Celebration function of Govt. of Nagaland on 15 August, 2023, by putting an exhibition stall at DDSC Stadium, Dimapur. The Chief Guest Mrs. Hekani Jakhalu, Advisor (Industries and Commerce) Govt. of Nagaland, inaugurated the exhibition and paid a visit to the stalls along with other dignitaries and they were apprised of the potential technologies showcased in the exhibition which are useful for the concerned stakeholders especially, the farming community. Various government departments, Self-Help Groups (SHGs), Agricultural and allied departments also participated in the exhibition. More than 5000 visitors comprising of students, farmers, govt. officials and general public visited the exhibition and they were made aware about the activities of KVK.

Live Webcasting of PM- KISAN Samman Nidhi Programme at KVK West Tripura

The On campus live telecast program on release of 14th Installment of PM KISAN was organised by all KVKs under ICAR -ATARI, Umiam. However, a live telecast of the PM-KISAN program was organized by KVK, West Tripura on July 27, 2023 at its campus in Belbari. Which was inaugurated by the Chief Guest, Smt. Krishnamala Debbarma, Vice Chairman of Rashadasharathnagar Panchayat, West Tripura district in the presence of Mr. Surendra Debbarma, Secretary of Hatai Kothor FPO.

A total of 135 farmers from various villages across the district attended the event. Welcoming the guests, Dr. Mandira Chakraborty, Head (In-Charge) of KVK West Tripura, discussed about various government schemes available for farmers, followed by watching of live telecast of PM KISAN programme, which was graced by Honourable PM Shri Narendra Modi and Honourable Agriculture Minister Shri Narendra Singh Tomar. The programme was telecasted from Sikar, Rajasthan.



Live streaming of PM KISAN programme at KVK, West Tripura

Performance review of KVK, Khowai, Tripura by ATARI Team

The review of KVK Khowai was conducted by a team of ATARI, Umiam led by Dr. Rajumoni Bordoloi, Principal Scientist (AE) and Shri J. Wahlang, ACTO on 9 August, 2023. Dr. Manoj Singh Sachan, Senior Scientist & Head of KVK, Khowai, Tripura gave a succinct presentation of the last five years' activities and accomplishments. The team interacted with all staffs of the KVK and satisfied with KVK's performance.

Thereafter, various official records, documents, registers were verified and suggestions were given for further improvement of the functioning pattern of the KVK. The team along with staffs of KVK also visited various demonstration units viz., poultry units, IFS units, crop demonstration plots, mushroom spawn production laboratory, Agri-Clinic etc along with the infrastructure created by KVK. The team expressed satisfaction over effective utilization of KVKs' revolving funds for different income generation activities.



Interaction with staffs of KVK, Khowai



ICAR-ATARI, Umiam Team with KVK, Khowai staff



Inspection of documents related to finance



Visit to Agri Clinic by ATARI Team

KVK Sepahijhala observes Parthenium Awareness week



Awareness programme on Parthenium at Latiacherra High School.



Cleanliness drive, on Parthenium on at Sangkuma VC.



Training programme on integrated management on Parthenium at Golaghati GP



Awareness programme on Utilization of parthenium for compost making on 17 August, 2023 at Rangmala VC.

KVK, Sepahijhala observed a Parthenium Awareness Week from 16 - 22, August, 2023 in various locations across the Sepahijhala district. The program aimed to educate farmers, farm women, and students about the menace of *Parthenium hysterophorus*, an invasive and aggressive weed species and its management strategies. During the week-long awareness programme, a total of 135 participants were sensitized about the negative & positive impacts of Parthenium. Despite its harmful effects on agriculture, human health, and livestock, the weed can be utilized as a nutrient-rich fertilizer, herbicide, insecticide, and phytoremediation. However, it is considered as one of the world's worst invasive weed species that can cause a range of health issues like skin rashes, diarrhoea and respiratory problems and also reduces agricultural production leading to biodiversity loss, which requires a multi-pronged approach, including mechanical, chemical, cultural, and biological control methods, for effective management.

KVK, Sepahijhala, Tripura conducts Awareness Programme on Millet production



Awareness programme on Millet Production

KVK, Sepahijhala, Tripura hosted an awareness program on Millet production for additional farm income on 26 July, 2023, at Latiacherra, for celebration of the International Year of Millets. The programme emphasized the significance of millets for nutritional benefits to human being, food security, market demand, and the variety of value-added products that can be developed from millets.

There was a discussion on the prospects of millet cultivation which can enhance farmers' financial stability. Farmers were encouraged to grow millets alongside other crops to mitigate risks associated with monoculture. The resource scientist highlighted the increasing global interest in millets due to their nutritional value and climate resilience, suggesting that farmers could foresee a rising demand for their millet products in the future.

Millet Based Recipe Contest Organized by KVK, Lawngtlai

In order to promote awareness on the importance of millets and their nutritional values Krishi Vigyan Kendra Lawngtlai, Mizoram organized Millet Recipe Contests in three blocks of Lawngtlai district namely Lawngtlai , Chawngte and Bungtlang South block. Many recipes of indigenous millets such as Bajra, Jowar, and Ragi were prepared by women self-help groups and showcased during the contest. During these contests, the importance and nutritional properties of millets were highlighted by showcasing various millet-based products to the public. This initiative generated interest among consumers in millet-based preparations.



Millet Recipe Contest conducted by KVK Lawngtlai at Chawnhu Village



Millet Recipe Contest conducted by KVK Lawngtlai at Vaseikai Village



Millet Recipe Contest conducted by KVK Lawngtlai at West Saizawh Village

● VISIT OF IMPORTANT DIGNITARIES ●

Shri. Mathung Lotha, Advisor (Agriculture) to Government of Nagaland visits KVK, Wokha

Shri Mhathung Yanthan, Hon'ble Advisor for Agriculture and Chairman, Wokha District Planning & Development Board (DPDB) visited KVK, Wokha on 15 September, 2023. Along with Shri Y.M. Humtsoe, MLA of the 38th Wokha A/C, Shri Achumbemo Kikon, MLA of the 40th Bhandari A/C, Dr Ajit Kumar Ranjan, DC, Wokha. Dr. Moakum Pongen, Senior Scientist and Head (i/c) of KVK Wokha, gave an overview of KVK Wokha.

Dr. Mahek Singh, Scientist, ICAR Research Complex, Nagaland centre, Medziphema, emphasized the center's focus on research and development in agriculture to promote a sustainable economy for rural farmers through advanced training. The DPDB Chairman appreciated the activities of KVK, Wokha and assured all possible support in the future.



DPDB Advisor Shri. Mhathung Yanthan, MLA along with other dignitaries releasing booklet on Compendium of Activities under ETF



Delegates during DPDB meeting at ICAR-KVK, Wokha Campus

KVK West Tripura, conducts training program on Baby Corn cultivation

A one-day training program on baby corn cultivation was conducted on 31 August, 2023, at KVK West Tripura, in collaboration with the College of Agriculture, Tripura, and NABARD, Agartala. Shri Loken Das, GM of NABARD, graced the occasion as the Chief Guest.

The program featured scientific presentations by several resource persons, including Dr. Abhijit Saha, Assistant Professor, (Agronomy), Dr. Niren Majumder, Assistant Professor (Plant Pathology), Dr. N. Nair Assistant Professor, (Entomology), Dr. Mandira Chakraborti, SMS, (Agronomy), and Mr. Debashis Datta, SMS (Agricultural Extension).

A total of 50 tribal farmers participated in the programme focusing on baby corn cultivation techniques, disease and pest management and marketing of baby corn. At the end of the programme, Dr. Loken Das emphasized the need to increase collaborative programmes between KVK West Tripura, NABARD, Agartala and relevant departments for the benefit of the farming community.



Training programme conducted on Baby corn cultivation at KVK West Tripura

Secretary (Agriculture), Govt of Mizoram visits KVK, Lunglei

On 14 September, 2023, the Secretary to the Department of Agriculture, Government of Mizoram, Dr. H. Lianzela, paid a visit to KVK Lunglei with the objective to assess and discuss on agricultural development initiatives taken by the KVK, Lunglei. The purpose of the visit was to foster collaboration and strategize for the improvement of prevailing farming practices. A brief interaction programme was organized with the KVK staff, for fostering dialogue and cooperation toward agricultural advancement in the region.



Visit by Secretary, Department of Agriculture, Government of Mizoram

Hon'ble MLA Panisagar Inaugurates STRY training program at KVK, North Tripura



Krishi Vigyan Kendra, North Tripura, Panisagar, conducted a six-day training program on "Scientific Mushroom Cultivation" under the Skill Training of Rural Youth (STRY) Scheme from 6- 13 December, 2023. The program was inaugurated by Shri Binay Bhushan Das, Hon'ble MLA of the 58 Panisagar Constituency, Govt of Tripura with the presence of 28 Women farmers from nearby villages.



The training included both theoretical and practical sessions, providing hands-on experience in oyster mushroom cultivation and pickle preparation. The initiative aimed to empower women farmers by equipping them with skills and knowledge that could enhance their livelihoods and improve nutrition and health outcomes.

Hon'ble MLA Shri Binay Bhusan Das of Panisagar inaugurates STRY Training at KVK North Tripura

District Magistrate visits Natural Farming Unit of KVK Unakoti, Tripura

On, 8 June, 2023, the District Magistrate of Unakoti, Tripura, visited Krishi Vigyan Kendra (KVK) Unakoti for the first time. During his visit, he inspected various demonstration units, including the vermicompost, cattle, piggery, and natural farming units, followed by a tour of the administrative block.

T.K Chakma, DM, Unakoti had a comprehensive interaction session with scientists and staff of KVK where the senior scientist highlighted various activities of KVK such as On-Farm Testing (OFT), Front Line Demonstrations (FLD) on high-density plantation, fodder resource development, varietal evaluation of agri-horti crops, integrated pest management, natural farming, climate-resilient agriculture, and technologies related to animal husbandry and fisheries along with skill development programs taken up by the KVK.

The DM expressed satisfaction over the KVK's activities and lauded the efforts of KVK, particularly for natural farming demonstration. He suggested that KVK should emphasize on Integrated Farming Systems (IFS) at farmers' fields, production of planting materials, and value addition of mushrooms.



Visit of DM Unakoti to Natural Farming demo unit of KVK Unakoti



DM Unakoti visits Piggery unit of KVK Unakoti

KVK, Kiphire organizes awareness programme on Natural Farming and Soil Health Card during Viksit Bharat Sankalp Yatra (VBSY)



Awareness program on Natural Farming and Soil Health Card under VBSY

KVK, Kiphire, Nagaland actively participated in the Viksit Bharat Sankalp Yatra (VBSY) programme since its launching from Kiphire village. Capitalizing on the gathering of numerous farmers and rural residents, KVK Kiphire raised awareness about the benefits and importance of Natural Farming and the Soil Health Card. During the VBSY program, farmers were educated on the principles and practices of Natural Farming, particularly in input-scarce areas like Kiphire. They were also encouraged to have their soil tested through KVK Kiphire to receive tailored recommendations via the Soil Health Card. With the presence of scientists, district line department heads, BDO, ADC, and SDO (Civil), farmers responded positively to the awareness campaigns, eagerly registering for upcoming training and demonstration programs. A total of 1,256 farmers registered across 14 campaigns held during the VBSY period.



VBSY launched at Kiphire



Participation of farmer in Awareness programme

KVK South Tripura conducts Swachh Bharat Campaign

A programme on Swachh Bharat Campaign was conducted on 4 September, 2023 by KVK South Tripura, to spread awareness about cleanliness and its importance among the public. Under this programme, special activities like cleaning of office premises, cutting and cleaning of jungles and digging waste disposal pits were done. All staff of the office participated whole heartedly in the programme to make the Swachh Bharat Campaign successful.



Cleaning of KVK South Tripura Premises on the occasion of Swachta Campaign

Krishi Vigyan Kendra Gomati conducts FLD on Induced Breeding of IMC using Hapa Methods

A front line demonstration programme on Induced breeding of IMC using hapa methods was conducted by Ms. Alish Debbarma, SMS, Fishery Science in farmers field at Twidu Gantek para, Tripura with the participation of 20 numbers of progressive fish farmers. Induced breeding is a technique used in aquaculture and fisheries to encourage fish to spawn under controlled conditions. In this process, sexually mature male and female fish are stimulated to breed in confined water at a desired time. The goal of this programme is to increase the chances of successful reproduction and produce a higher number of fish spawn by fish farmers in their field. This FLD programme enriched farmers to produce fish spawn in their field. Out of 20 farmers 15 farmers adopted this technology.



Demonstration of Induce breeding technology in farmer's field

Training cum Demonstration programme on Production and application of panchgavya by KVK, Sepahijala Tripura

There was a training cum demonstration program on "Production and application of Panchgavya" by KVK Sepahijala at Sankumabari VC, Jampuijala block of Sepahijala during 21 – 23 August, 2023. Panchagavya is a liquid biostimulant for all types of crops. The word Panchagavya originated from Sanskrit which is a mixture of five products obtained from cow viz., cow dung, urine, milk, curd and ghee. For foliar spray, 30 ml of this solution is diluted in 1 litre of water. It contains several micro and macro nutrients and beneficial microorganisms like bacteria and fungi which promote plant growth. It stimulates the growth of crop and boosts the immunity system. It is an effective pest repellent and is used for rejuvenation treatment in orchards. More than 20 farmers and farm women participated in the training and were convinced about the production



Demonstration on preparation of panchgavya

Training cum Demonstration on Pheromone Traps by KVK, North Tripura

Krishi Vigyan Kendra, North Tripura conducted a training cum demonstration programme on "Pheromone Traps for the management of fruit flies" on 11 September, 2023 at Damcherra under the Front Line Demonstration (FLD) programme titled "Eco-Friendly Management of Fruit Fly in Pumpkin." The demonstration highlighted the importance of fruit fly traps, which attract and capture adult fruit flies before they can lay eggs in crops. This method helped to monitor and reduce crop damage while controlling the fruit fly population. In fact, pheromone traps may be an effective and non-toxic solution for managing fruit fly infestations in pumpkins.



Installation of Fruit Fly Traps by Farmer at Damcherra

KVK, West Tripura conducts training on onion production technology

Krishi Vigyan Kendra, West Tripura conducted a one-day training program on onion cultivation in collaboration with the ICAR Research Complex, Tripura center on August 16, 2023. The event featured Dr. Biswajit Das, Principal Scientist (Horticulture), as the Chief Guest, along with resource persons Dr. Lembisana Devi, Dr. Mandira Chakraborti, and Mr. Debashis Datta. Dr. Das emphasized the importance of onion cultivation and encouraged farmers to include this crop. The training covered various aspects of onion cultivation, and Mr. Datta discussed about the marketing strategies. A total of 50 farmers from different villages in West Tripura participated, and high-yielding onion seeds were distributed at the end of the program.



Training programme on 'Onion cultivation' at KVK, West Tripura

● AWARDS AND CITATIONS ●

- With the guidance of Dr. Nurul Islam, SMS (Animal Science) KVK Khowai ; Mr. Ajit Das, an adopted farmer of South Ghilatali , Khowai , Tripura, received 2nd Best Poster Presentation Award on "Diversified IFS enabled to become entrepreneurs through organic & natural farming approach" held during 10 – 11 July, 2023 at College of Fisheries, Lembuchera, Tripura.
- Mr. Wapangtoshi Longkumer, SMS(CTO), KVK, Zunheboto Nagaland University received KVK Scientist Award for excellent contribution in the field of Agri and allied sector on the occasion of Scientist Award ceremony 2023 at University of Lucknow, Uttar Pradesh, India on 18 September, 2023
- Mr. Adelbert Thangkhiew under KVK, RiBhoi district was conferred with the Millionaire Farmer of India Award, 2023
- Dr. C. Lalremruata, SMS (Animal Science), KVK, Serchhip received 3rd Best presentation during First National Seminar of the Society of Krishi Vigyan Kendra"organized (online) during 27- 28 October, 2023
- Dr. Biswajit Debnath, SMS (Fisheries), KVK, South Tripura received the Best Oral Presentation award in National Conference on "Transforming Rural Poverty to prosperity Through Sustainable Fisheries at CoF (BASU) Kishanganj during 19 -21 July, 2023
- Dr. Rakesh Kumar Chaurasia, Principal Scientist and Head received Distinguished Scientist Award 2023 from **Society of Recent Development in Agriculture** during National Seminar on Sustainable Emerging Approach in Agri-Business Development held at Nagaland University, Medziphema Campus from 1-3 November, 2023.

SEMINAR/ SYMPOSIUM /TRAINING ATTENDED

- Dr. Amulya Kumar Mohanty, Director and Dr. Rajumoni Bordoloi, Principal Scientists (AE), ICAR-ATARI Umiam participated in the Global Symposium on Farmers' Rights organized by ITPGRFA, FAO and PPV&FRA and hosted by Ministry of Agriculture and Farmers' Welfare, Govt of India at NASC Complex, New Delhi during 12-15 September, 2023
- Dr. Biswajit Debnath, SMS (Fisheries) attended the National Conference on Transforming rural poverty to prosperity through sustainable Fisheries from 19 - 21 July, 2023 at College of Fisheries (BASU), Kishanganj



Director, ICAR-ATARI Umiam along with team participating in the Global Symposium at NASC, New Delhi

TALKS/LECTURES DELIVERED IN EXTERNAL PROGRAMME

- Dr. N. Muhindro Singh, SMS (Animal Sc.), KVK Senapati and Mr. K. Homen Singh, Farm Manager, KVK Senapati delivered a lecture on SHG Bank Linkage programme & JLG financing during One day sensitization meet of Stockholders and NGOs on 24 August 2023 sponsored by NABARD, Manipur Region.
- Dr. Jotish Nongthombam, SMS (Agril. Engg.) of KVK Aizawl delivered a lecture on Farm Mechanization for NE State organized by Extension Education Institute, AAU, Jorhat at Khanapara on 26 September, 2023



- Mrs Lalrohlupuii, SMS (Home Science) KVK Aizawl delivered a lecture on "Post-Harvest Processing and value addition of Nutri cereals for rural youths" during a skill development training program organized by SIRD & PR during 29 - 31 August, 2023



MOU SIGNED

- KVK Khowai, Tripura signed MoU with TRLM Khowai in the presence of District Magistrate, Khowai and his team on 3 July, 2023 for Women Empowerment and livelihood Security at Household level.
- KVK, Mon, Nagaland inked MoU with Skill Tree Consulting Pvt. Ltd on 17 August, 2023 for the purpose of promoting Vocational Education and Providing opportunities for holistic experience and advancement of knowledge and skills.

A. Research Articles

- Subhra, S.; Adhikari, P. and Sachan, M. S, 2023. Seaweed Extract Application in Indian Agriculture: A Review. *Frontiers in Crop Improvement*, 11(1): 521- 525.
- Chaurasia R K, Longkumer W and Sehgal M. 2023 Effect of IPM practices for Fall Army Worm Management. *J Krishi Vigyan* 2023, 11 (Supple): 255-257
- Singh, L.K., Devi, S.R., Singh, P.C., Singh, H.J., Ningombam, A., Singh, T.B. and Devi, M.T. 2023 Evaluation of crop irrigation requirement of French bean (*Phaseolus vulgaris* L.) under varying meteorological conditions in Imphal West-district of Manipur, North east India. *Indian Journal of Hill Farming*. Volume 36, (Issue 1):114-121, 2023
- Ningthoukhongjam Soranganba, L. Somendro Singh, N. Johnson Singh, Ph. Chandramani Singh, R. Laha and V.K. Mishra 2023. Assessment of Rural Awareness Work Experience Programme (RAWES) Programme Implemented through KrishiVigyan Kendra. *Biological Forum – An International Journal* 15(7): 55-58
- Singh. Th. A, Sarangi. P.K, Singh. L.K, Devi, S.R. and Manngaihkim 2023. Nutritional and microbial composition of Situ, a traditional fermented sesame seed of Kuki-Chin-Mizo tribes of Manipur, India. *Indian Journal of Hill Farming*. Volume 36: 1-6
- N. Johnson Singh, L. Somendro Singh, Ph. Chandramani Singh, N. Soranganba, and Ramgopal Laha. 2023. Efficacy of non-conventional insecticides on the incidence of major insect pests of cabbage. *Biological Forum – An International Journal*. 15(10): 93-97
- N Johnson Singh, L Somendro Singh, Ph. Chandramani Singh, N Soranganba, S Roma Devi, Bs. Hmannihring Anal and Ramgopal Laha. 2023. Impact of Organic Fungicides against False Smut Disease of Rice Caused by *Ustilaginoidea virens*. *Journal of KrishiVigyan*. 11 (Supplement) : 101-104

B. Popular Article

- Y. Sanatombi Devi, Umakanta N. T. Basanta Singh, Ch. Sonia, S.S. Roy, Kh. Rishikanta Singh, Ch. Tania, Philanim W.S., Ch. Premabati Devi, Ph. Chandramani Singh and Ramgopal Laha. 2023. Impact and management of drought stress on Tomato (*Solanum lycopersicum*) management of drought. *The Agriculture Magazine*. E-ISSN:2583-1755, Volume-2, Issue-9, July 2023

- Ph. Chandramani Singh, L. Somendro Singh N. Johnson Singh, N. Soranganba S. Roma Devi Bs. Hmannihring Anal L. Basil Umakanta N., Ch. Tania, Ch. Premabati Devi, H. Naresh Singh, Ramgopal Laha. 2023. Importance of Passion Fruit in the North Eastern Hill Region of India. *Just Agriculture*, e- Newsletter. Vol. 4 Issue- 2, October 2023, (e-ISSN: 2582-8223)
- Ph. Chandramani Singh, L. Basil L Somendro Singh N. Johnson Singh, N. Soranganba S. Roma Devi P. Bijaya Devi, Umakanta N., T. Basanta Singh, Ch. Premabati Devi, Ramgopal Laha. 2023. Nutritional Importance of Dragon Fruit. *Agritech Today*. Volume 1, Special Issue (October, 2023)
- Devi. S. R, Singh .L.K , Zimik. L, Singh. L.S, Soranganba. N, Singh. Ph.C, Singh. N.J, Anal. Bs. H, Basil. L and Laha. 2023. Nutrition and Health Benefit of Millets. *The Agriculture Magazine*. E-ISSN:2583-1755. Volume-3, Issue-1, October 2023, P 338-341
- Devi. S. R, Singh .L.K and Zimik. 2023. Innovative Extension models for Reaching out to Farmers in the Interest of Nutritional Security and Empowerment. *The Agriculture Magazine*. E-ISSN:2583-1755. Volume-3, Issue-1, October 2023, P342-346
- Success Story on Participatory Seed production of paddy, R.S. Telem, N. Jyotsna, Deepak Kumar, 2023 *Biotica Research Today*, 5(7):483-485
- IFS Model: An emerging vocation for income generation in the hills, R.S. Telem, N. Jyotsna, Deepak Kumar, 2023 *AgriGate*, 3 (7):50-54
- Success Story On Piglets Production: A Lucrative Enterprise, R.S. Telem, N. Muhindro Singh, N. Jyotsna, Deepak Kumar and Y. Kennedy, 2023 *AgriGate*, 3(8) :88-90

C. Technical Bulletin

- Amrutha, T., C. Gowda, H.R., Mohanty, A.K., Singha, A.K., Bordoloi, R., Das, S. and Ravi, S.C. 2023. Village Social Accounting Matrix: An Impact Assessment Tool to Study the Effect of Programme/Policy Interventions on Village Economy Dynamics. p.4
- Nongthombam. J; S. Kumar; Chaudhary. K.P; Khangembam. J and Devi L. N. 2023. Quality Based Drip Irrigation System, Its component and guide. p.4
- Khangembam, J; Nongthombam; Chaudhary, K.P. 2023 Fishery Based Integrated Farming Systems in perspective to NEH Region. p.10

D. Book Chapter

- Ph. Chandramani Singh, S. Roma Devi and L. Somendro Singh, 2023. Important Practice of Mulching in *Chilli published by Scripown publications, North West Delhi-110086, India, 1st Edition. ISBN: 978-93-94375-02-4, Page: 81-92.*
- N. Johnson Singh, S. Roma Devi, Ph. Chandramani Singh, L. Somendro Singh and Bs. Hmannihring Anal, 2023. Beekeeping Equipments *published by ICAR Research Complex for NEH Region Umiam, Meghalaya. ISBN 978-93-95581-69-1 (India)*
- N. Johnson Singh, S. Roma Devi, Ph. Chandramani Singh, L. Somendro Singh and Bs. Hmannihring Anal Honey, 2023. Properties, uses, quality control and marketing *published by ICAR Research Complex for NEH Region Umiam, Meghalaya. ISBN 978-93-95581-69-1*
- N. Soranganba. 2023 Biofloc: A component for climate-resilient sustainable agriculture *published by Ruby Press & Co. 3834/XI, Shanti Niketan Building, New Delhi 110002. ISBN : 978-81-941226-3-0*
- Ingudam Bhupenchandra, Chongtham Tania, Shaon Kumar Das, N. Soranganba, Amit Kumar, Ayam Gangarani. 2023, Site specific nutrient management for sustaining agricultural production, *published by Parmar Publication, Dhanbad Jharkhand 828109. ISBN: 981-81-896021-5-7*

EXTENSION ACTIVITIES CARRIED OUT BY KRISHI VIGYAN KENDRAS



Millet recipe contest by KVK Lawngtlai



Farmer Visit at KVK Churachandpur



Training Program on Beekeeping by KVK Gomati



Training Program on floriculture by KVK Khowai



Janajatiya Gaurav Divas by KVK Kiphire



Training on Soil Health Card by KVK Lawngtlai

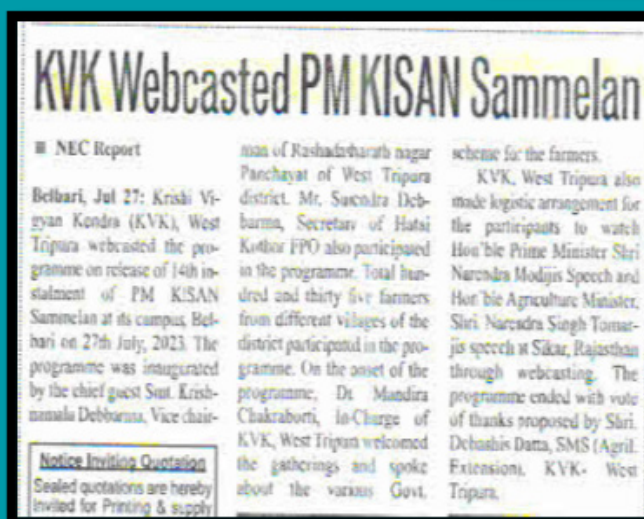
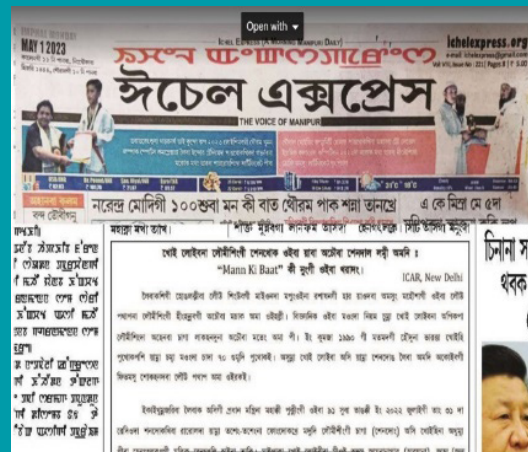


Input Distribution of HYV Potato seeds by KVK North Tripura



Distribution of fingerlings by KVK Ribhoi

MEDIA COVERAGE



Chief Editor : Dr. A.K Mohanty
Associate Editors : Dr. A.K Singha & Dr. Amrutha T
Compilation : Hejbina Mehjabin Hussain

Published by
The Director
ICAR-Agricultural Technology Application Research Institute
Zone VII, Umiam, Meghalaya-793103
Phone : 91-364-2950033
Email: icarzcu3@gmail.com/director.atariumiam@gmail.com
URL: <http://www.atariumiam.icar.gov.in>