

KVK TIMES

A Window to KVKs of ICAR-ATARI, Zone-XI

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**Empowerment
through
Skilling**



ICAR KRISHI VIGYAN KENDRA KOLLAM
KERALA AGRICULTURAL UNIVERSITY
ICAR-AGRICULTURAL TECHNOLOGY APPLICATION
RESEARCH INSTITUTE

KVK TIMES

A Window to KVKs of ICAR-ATARI, Zone-XI

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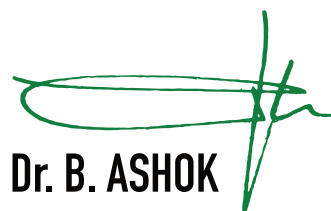


MESSAGE

Krishi Vigyan Kendras (KVKs) are vital to India's agricultural development, linking research institutions with farmers. Their primary goal is to transfer scientific knowledge and innovative practices to the grassroots level. Through training programs, demonstrations, and on-farm trials, KVKs educate farmers on modern farming techniques, pest management, soil health, water conservation, and post-harvest technologies, boosting productivity and sustainability. They promote sustainable practices like organic farming and integrated pest management, conserving natural resources and protecting the environment. KVKs empower women and rural youth with vocational training in mushroom cultivation, nursery management, farm mechanisation and fruit processing, creating new income opportunities and fostering rural development. Additionally, they facilitate the adoption of modern technologies, such as UAVs for spraying and solar fencing for wildlife management, enhancing efficiency and reducing labour costs. Critical interventions by KVKs significantly improve farmer livelihoods, boost agricultural productivity, and support the growth and sustainability of India's agricultural sector.

Recognizing the diverse interventions by KVKs to meet the needs of the farming community, ICAR-ATARI Bengaluru has created a platform to disseminate this invaluable knowledge through publications. A prime example is the fortnightly e-publication "KVK TIMES." The commendable effort by ATARI Zone XI to showcase the activities of the 48 KVKs in the zone is praiseworthy. This initiative not only uplifts KVK staff but also fosters increased exposure and cross-learning among the KVKs. The special issue of "KVK TIMES," focused on ARYA and Skill Development activities and the diverse interventions during the second fortnight of July 2024, has been meticulously prepared by KVK Kollam. I take this opportunity to commend the combined efforts of ATARI Bengaluru, the Directorate of Extension Education, KAU, and the dedicated staff of KVK Kollam in bringing forth this excellent publication.

Thrissur
6-8-2024



Dr. B. ASHOK

Dr. V.VENKATASUBRAMANIAN
Director
ATARI,Bengaluru



MESSAGE

Krishi Vigyan Kendras are playing pivotal role in handholding of farmers through technological backstopping for enhancing the productivity of crops and enterprise keeping in mind profitability and sustainability. 'Believing through seeing' and 'Learning by doing' is most appropriate to the KVKs, as the Scientists and farmers are jointly involved in implementing KVK mandated activities to reach the mission of enhancing the farmers income. KVKs are expanding the horizon from elite extension to innovation, market linkage, FPOs, processing and value addition. 48 KVK's in Zone XI of ATARI placed in states of Kerala, Karnataka and Lakshadweep Union Territory has immensely contributed in enhancing agriculture productivity and farmer income thus ensuring sustainable social and livelihood security of farm families.

A first of its kind virtual platform, KVK TIMES which documents fortnightly activities of each of the 48 KVKs of Zone-XI is gaining a real momentum. The news items covered in issues made an impact that is long lasting. Most of the news items published in the TIMES has got the potential of cross learning among KVKs and worth reading. This should boost the morale of all of us and many such noteworthy efforts of our fraternity in the zone.

I am happy that KVK Kollam is bringing up the 26th issue of second volume of KVK TIMES covering the second fortnight of July 2024. I congratulate the KVK fraternity of Zone XI specially Dr. Bini Sam, Senior Scientist and Head and her team of KVK, Kollam for bringing out this unique edition of KVK Times.

Bengaluru
06-8-2024

A handwritten signature in blue ink, appearing to read 'Dr. V. Venkatasubramanian', written over a white background with a faint grid pattern.

Dr. V. VENKATASUBRAMANIAN

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MESSAGE

Krishi Vigyan Kendras (KVK), as farm science centres, play a crucial role in disseminating agricultural knowledge and technologies to farmers, extension workers, and other stakeholders. Established with the primary objectives of technology assessment and demonstration, capacity development through training, strengthening extension machinery, production of quality inputs viz planting materials, seeds, bioagents etc, and convergence and linkage, KVKs aim to improve crop yields and farm productivity, promote sustainable agricultural practices, enhance water and soil conservation, empower women and rural youth, and adopt modern technologies and innovations. With 731 centres across the country, KVKs serve as a vital link between researchers, extension agents, and farmers, significantly contributing to India's agricultural development.

The initiative of ATARI Bangalore, Zone XI, to produce a fortnightly e-publication highlighting the activities of the KVKs within the zone is highly commendable. This approach ensures that each KVK has the opportunity to showcase its efforts, foster enhanced communication, exposure, and camaraderie among the KVKs. Additionally, it provides a singular platform to display all KVK interventions.

KVK Kollam has demonstrated sincere and dedicated efforts in crafting an exceptionally well-organized edition of KVK Times on ARYA and Skill development activities along with regular activity. I commend the Programme Coordinator and the entire staff of KVK Kollam for their meticulous and comprehensive work in making this 26th issue of KVK Times Volume 2 edition both thorough and exemplary.

Thrissur
6-8-2024

A handwritten signature in blue ink, appearing to read 'Jacob John', with a long horizontal line extending to the right.

Dr. JACOB JOHN

Dr. Bini Sam
Senior Scientist and Head
KVK, Kollam



ACKNOWLEDGMENT

I am extremely pleased to express my deepest gratitude and heartfelt thanks to our Honourable Vice-Chancellor, Dr. B. Ashok, IAS, for his invaluable guidance and encouragement in achieving the mandates of KVK in Kollam district. His constant motivation has inspired us to serve the farming community to the best of our abilities. It is my pleasure to express my sincere thanks to Dr. Jacob John, Director of Extension, KAU, for his moral support and valuable suggestions, which gave us the confidence to successfully execute all our activities.

I am very glad to express my heartfelt gratitude to Dr. Venkatasubramanian, Director, ATARI, Bengaluru, for his exceptional support and inspiration carrying out various activities in successfully. I also extend my sincere thanks to Dr. K. Thimmappa, Principal Scientist and Nodal Officer, KVK Kollam, for his invaluable guidance and timely support.

I would like to formally acknowledge our sincere thanks to ATARI, Bengaluru, for providing us the opportunity to compile "Attracting and Retaining Youth in Agriculture" (ARYA) and Skill development initiative of our zone along with regular activities in second fortnight of July 2024.

I also extend my gratitude to all other KVKs in Zone XI for their timely submission of these important activities. I wholeheartedly thank my entire team at KVK Kollam for their dedication in compiling and editing the KVK Times.

Sadanandapuram
6-8-2024

Dr. BINI SAM



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ICAR foundation day celebration

KVK-Alappuzha celebrated ICAR Foundation Day on 16th July along with tree planting activities as part of the KVK Golden Jubilee celebrations in 2024. Valedictory function for the certificate distribution to participants of DAESI (2022-



23) batch and inaugural function of the DAESI (2024-25) batch was also organized on the same day. Adv. U. Prathibha, MLA, Kayamkulam inaugurated the programme which was presided by Dr. P. Muralidharan, Head KVK. In her inaugural address, Hon. MLA emphasized the role of Agri input dealers in promoting eco friendly practices for crop and environmental health and sustainable agriculture. Certificates and mementos were distributed to forty participants of the DAESI (2022-23) batch who have successfully completed the one year diploma programme coordinated by MANAGE, Hyderabad at national level. Hon. MLA also handed over the kit of five fruit plants each to two diploma holders as part of the KVK Golden Jubilee celebrations. A total of 200 plants were distributed to all those participants of the DAESI course for encouraging environmental responsibility and promoting greenery of the planet. Dr. Joseph Rajkumar, Principal Scientist, CPCRI, Regional station, Kayamkulam; Smt. Anitha James, Project Director, ATMA, Alappuzha and Sri C.K. Venugopal, facilitator of the DAESI programme offered felicitations.. KVK Newsletter for the quarter Jan - March, 2024 also was

released on the occasion.

Representatives of the DAESI pass outs shared their experience to the audience which was a motivation and guidance to the new batch. They narrated their previous and present knowledge in selling of agriculture inputs and how they could effectively identify the technical

problems faced by the farmers and could recommend remedies being a diploma holder. Orientation programme for the new DAESI batch was also conducted on

the day. Dr. T. Sivakumar and Dr. K. Sajnanath, Subject Matter Specialists, KVK coordinated the programme.

Orientation cum training for branding at state level

Orientation cum training on "Standard Operation Procedure for preparation of banana products for branding at state level" for 56 master trainers of Kudumbasree mission (@4 each from all the 14 districts of Kerala) in two batches was conducted at the Agro-Processing Training cum Incubation centre of the KVK on 22nd and 29th July, 24. This is organized as part of the initiative of the Kudumbasree mission, Kerala to market their products in a single brand with uniform specifications, quality and standard packing. Banana chips and banana-jaggery fries prepared uniformly by different units/groups of the mission would be targeted towards the Onam market in September. This would be followed by other products also. State level officials of the mission took part in the planning and conduct of the programme.



ICAR KVK Alappuzha

Sl No	Title and details	Duration	No. of participants	Outcome
1	Friends of coconut tree (Funded by CDBand ASCI)– 2 batches	6 days and 200 hrs	38	Almost all the participants started harvesting of coconut palms and taking up plant protection activities using the climbing device. They earn Rs.40 per palm on an average and Rs.1200-2000/- per day.
2	Smallpoultry farmer (Funded by ASCI)– 2 batches	240 hrs	40	36 farmers qualified for the certificate. Of this, 9 farmers maintain broiler farm and 27 farmers run layer farm. Their income increased by Rs. 10000 – 20000/- per month by adopting the new technologies learned.
3	Dairy, goatary and poultry management (STRY-funded by ATMA) 1 batch	7 days	15	All the participants strengthened their IFS units and by adopting the new technologies learnt in the training programme, enhanced income by Rs.10000 – 20000 per month.
4	Scientific Mushroom cultivation – 10 batches	1 day	197	One Hi – tech unit (Eshamushrooms - 5kg/day) and Two other commercial units – Sidhha and Miya mushrooms were established in addition to homestead individual units.
5	Commercial mushroom cultivation for income generation – 1 batch	4 days	6	Two commercial units - Adwait mushroom and Little Rosemushroom established
6	Low cost mushroom spawn production – 1 batch	4 days	4	Two spawn production units established
7	Value addition of coconut, jackfruit, papaya, banana, rice – 83 batches	1-4 days	1733	45 VCO units, 10 papaya processing units, 32 small scale jackfruit processing units, 21 banana processing units, 18 rice processing units started
8	Value addition of Millets, Passionfruit - 6 batches	1 day	105	14 individuals and FPOMankulam at group level started processing
9	Technology Management Development Programme (Funded by Industries Dept) – 1 batch	10 days	25	18 individuals running their units
10	Skill/Vocational training for B Tech students – 3 batches	5 days	21	Capacity and confidence building of students



Scientists Walk towards Farmers

On 19-07-2024, a campaign was organized at Channal village of Mudhol taluk under the theme of "Scientists Walk towards Farmers". For this campaign programme, nearly 250 farmers and farm women participated. Honorable Vice-Chancellor of UAS, Dharwad, respected Director of Research, Director of Extension, Assistant Director of Research, Assistant Director of

Research, Joint Director of Agriculture, Bagalkot, Deputy Director of Agriculture, Jamkhandi, all technical scientists related to sugarcane and soybean crop were present. Scientists and farmers interaction was done.

On 19-07-2024, at Channal village of Mudhol taluk, millet based food

competition was held where 27 farm women participated in the food competition. Recepties were made using locally available millets such as pearl millet, ragi, jowar, foxtail millet etc., Based on appearance, texture, taste, difficulty level and health aspects judgment was made by women scientists, agriculture officers, anganawadi supervisors.



SKILL DEVELOPMENT ACTIVITIES



ICAR KVK Bengaluru Rural



The ICAR- KrishiVigyan Kendra Bengaluru Rural District has implemented ARYA programme since 2015 and providing skill trainings on Vermicomposting, Coconut Climbing and Bee keeping etc. to rural youths. The skill and knowledge acquired during the different trainings by rural youths will enable them to become an entrepreneur and retain in their villages. The major objectives of the projects: To enable the Farm Youth to establish network groups to take up resource and capital intensive activities like production, processing, value addition and marketing. To establish functional linkages with different institutions and stakeholders for a sustainable supply-chain mechanism on entrepreneurship mode.

Specific Objectives covered:

1. Formation and Registration of Commodity Based Groups and organizing capacity development programmes on production, processing, value addition and marketing of Nutri-milletts and Jackfruit involving research and development organizations.
2. Establishment of processing units of the value added products and to create marketing avenues for each group to

sustain these units as a source of employment and income to the rural youth.

3. Imparted skill oriented capacity building programmes on Value addition, Bee keeping, Coconut climbing and

Vermicomposting.

4. Up scaling the benefits to more number of rural youths in agriculture and its allied sectors in convergence with Development Departments and Financial Institutions

Registration of Three Commodity based Associations under ARYA project

- a. Annapurneshwari Nutri -millet Growers and Processors Association
- b. Mahavruksha Jack Growers and Processors Association
- c. Navashakti Mushroom Growers Association

Skill Development Training program during the month of July 2024 Natural Farming to Krishi Sakhis ICAR- Krishi Vigyan Kendra, Hadonahalli, Bengaluru Rural District organized five days training programme on "Natural Farming for Krishi Sakhis" from 22nd to 26th July 2024, sponsored by MANAGE Hyderabad. The training programme was inaugurated by Dr. B.G. Hanumantharaya, Senior Scientist & Head, ICAR – KVK, Bengaluru Rural District and briefed about the role of Krishi Sakhi's in farming community

SKILL DEVELOPMENT ACTIVITIES



ICAR KVK Bengaluru Rural



Integrated farming system, Dr. Veeranagappa, P., Scientist (Soil Science) delivered lecture on soil health and nutrient management, Dr. Keshava Gowda, Scientist (Plant protection) briefed about the pest and disease management in natural farming. In the technical session Dr. B.G. Hanumantharaya given detailed information about

and they should act like Para extension workers in farming field and they should educate and gain knowledge on Natural Farming. Mr. Vittal Kavale,

water management in natural farming, Dr. Ramegowda, H.V., Scientist (Crop Physiology) explained about the environmental system, services and

natural farming, indigenous and traditional knowledge and models of natural farming. Mrs. Meghana, Scientist (Home Science) elicited about Health and nutrition. Dr. Shwetha, N.V., Scientist (Agril. Extension) explained the roles and responsibilities of Krishi Sakhis in Natural farming, extension methods, services and



Project Director, Zilla Panchayath, Bengaluru Rural District participated in the programme as Chief Guest. During the programme various technical sessions were organized to the participants. Dr. Venkate Gowda, J., Scientist (Agronomy) delivered lecture on introduction to Natural Farming, agronomic systems, role of seed,

qualities of extension workers and also demonstrated the preparation of beejamrutha, jeevamrutha and neemasthra. Totally 35Krishi Sakhis were benefitted from the training programme.



IMPLEMENTATION OF NUTRIGARDEN SPECIAL PROGRAMME BY KVK BELAGAVI-1

ICAR BIRDS Krishi Vigyan Kendra, Tukkanatti, Belagavi-1 implemented a special programme on Nutri Garden at Shirguppi of Kagawad taluka(25demonstrations) and Saundatti (B) of Raibag taluka(25demonstrations). Total 50 farmers and farm women were selected for this demonstration. Under this programme different vegetable seedlings and seeds were provided to the farmers. On this occasion Shri. R M Patil, Chairman, ICAR Krishi Vigyan Kendra Tukkanatti delivered his speech to the participants to get benefit of this Nutri Garden programme and R B Karabhari highlighted that Nutri Garden holds significant importance for farmers and farm women in terms of Nutritional security. It serves as a complementary resource that offers several benefits such as Nutrition and Food Security as it offers fresh and nutritious produce directly to farmers' households. Having a diverse range of fruits and vegetables ensures a balanced diet. During this programme conducted method demonstration on Nutri Garden to farmers. Total 14 type of vegetable seed and 6 types of vegetable seedlings distributed. And total 72 participants attended the programme.

PGPRs conference at Bharathiyar University Coimbtore. Tamil Nadu

On July 29th and 30th, we attended the PGR conference in Coimbatore, which focused on PGPR technologies aimed at enhancing crop yield potential in organic agriculture. The conference emphasized

reducing synthetic fertilizers and pesticides, replacing them with organic alternatives, and advancing safe food production. It successfully brought together academia, researchers, entrepreneurs, policymakers, and government officials to discuss these technologies and form a scientific platform for sustainable agriculture and entrepreneurial opportunities.

The inaugural event featured Hon. Thiru P. Sathasivam, Former Chief Justice of India and Former Governor of Kerala, as the chief guest. He shared his insights and experiences related to organic agriculture. Prof. Dr. M.S. Reddy, Founder & Chairman of the Asian PGPR Society for Sustainable Agriculture, Auburn University, Alabama, USA, led the program, assuring increased research and use of PGPRs in the Indian subcontinent. He also announced that the next PGPR conference will be held in Ladakh, J&K.

The event was well-organized by the PGPR team and committee members, with significant contributions from Dr. P. Ponmurugan, Organizing Secretary of the 9th Asian PGPR National Conference and Associate Professor in the Department of Botany, Bharathiar University, Coimbatore. Our role as a lead sponsor from BIRDS Nagnur was recognized with a token of appreciation from the PGPR society. During the open house discussion, we actively participated alongside other sponsors, students, and researchers, engaging in fruitful discussions on current issues and solutions.



ICAR KVK Belagavi-I



3 Day Vocational training on handling post harvest processing equipments



ICAR- BIRDS KVK conducted 3 day residential training from 11-07-2024 to 13-07-2024 on handling post harvest processing equipment and value addition to the farmers of Belagavi district. Processing and packing of perishable products such as milk, egg

and meat etc. with value addition leads to self sustainability and increase farmers income. Department of agriculture, chikkodi sent 15 farmers for training at KVK, farmers were beneficiary of subsidy on post harvest processing equipments. KVK scientists trained the farmers on processing of milk and making of paneer, khoa, cheese etc. Farmers also visited, progressive dairy farm to know clean milk production. Trainees also visited bakery, roti making machine unit, cold press oil unit, turmeric powder making and packing machine. During training, the trainees were engaged both in theory and practical classes. Farmers will be self reliant and will be able to earn profit by processing and packing value added products was the feed back of trainees. Concluding program was attended by Shri. Adarsh H.S. (Scientist – Fisheries), technical staff and training coordinator Dr. Suraj Koujalagi (Scientist – Animal Science).

Participation in Bi-monthly workshop

KVK participated in bi-monthly workshop organized jointly by Dept. of Agriculture, Belagavi and UAS, Dharwad at Diploma College of Agriculture, Hukkeri on



18.07.2024. During the interaction with officials of agriculture, S.M. Warad, Scientist (Soil Science) of KVK highlighted, the diminishing levels of soil organic carbon in Belagavi district and suggested to grow and incorporate the green manuring crops such as sun hemp and diancha to enhance the soil organic carbon content, in view of reduction in the animal population. He explained deficiency symptoms of micronutrients in sugarcane, green gram, soybean and guava crops and suggested their corrective measures. Besides this, he also explained the priority of Government of India in upscaling of natural farming and its adaptive practices to maintain sustainable soil productivity. G.B. Vishwanath, Scientist (Agronomy) interacted with officials and explained salient features and situations for adopting different varieties of paddy viz., RNR-15048, GNV-1109 and Bengal gram varieties viz., BGD-111-1, NBeG-47, NBeG-47 and Phule Vikram. In addition, the Scientist briefed promising intercropping systems in Sugarcane ecosystem and crop planning for forthcoming rabi season.

Pest Survey and Surveillance visit to farmers fields

ICAR KLE KVK organized pest survey and surveillance in collaboration with University of Agricultural Sciences, Dharwad and Department of Agriculture, Belagavi on 24 to 26th July 2024, in various villages of Katkol, Honnikoll, Murkatnal, Hirekopp, Salhaali of Ramdurga taluk, Murgod, Rainapur, Yadhalli, Sangreshkopp, Karikatti, of Savdatti taluk and Nesargi, Kalkuppi, Murkibhavi, Nayanagar, Dodwad, Belavadi, Kodanpur, Hirendhihalli of Bailhongal taluk. During the survey Dr.S.S.Hiremath scientist (Plant Protection) observed Mung bean Yellow Mosaic Viral disease (MYMV) Apion weevil, black aphids, Powdery mildew, Anthracnose. Leaf spot diseases in green gram, Spodoptera, stem fly, thrips, rust in soybean, sucking pests like jassids, aphids, whiteflies, shoot weevil, Fall armyworm and turcicum blight in maize, White grub, leaf spot, rust incidence was noticed in sugarcane and recommended various Integrated Pest and disease management (IPM) practices for the pest and diseases such as installation of yellow and blue sticky traps for management of sucking pests, followed by spraying of Neem Seed Kernel Extract (NSKE)%, use of pheromone traps and whorl application of *Metarhizium rileyi* 2 gram per liter of water for managing Fall army worm in maize & leaf eating caterpillar in soybean and installation of pheromone traps for Pink boll worm in Bt.cotton, Soil application of *Metarhizium anisoplaea* 5kg per acre along with farm yard manure or vermicompost, installing light traps, catch and kill method during the month of April – May as a prophylactic measures were suggested to overcome the menace of white grub in sugarcane. Krishi Sanjivini field staffs were also trained Agro-Ecosystem Analysis (AESA) based IPM practices and judicious use of chemicals to minimize the damage from pests in a way that minimizes overall economic, health and environmental risks.

ICAR KVK Belagavi-II

Scientist also encouraged all the officials and Krishi sanjivini technical field staffs to promotes bio-intensive strategies against current chemical approaches, while retaining the option to apply chemical pesticides judiciously as a measure of last resort. Further Scientist also took initiation for identification and encouraging to develop beneficial insects at field level. Safety measures of pesticidal spray was also briefed to the gathered farmers. Scientist given much importance on GIS-based pest information, mobile apps, e-SAP and an advisory portal for timely issuance of advisories for pest and disease management for the farming community and extension/field functionaries there by protecting the crop from pest attacks and supporting farming community for their betterment. A press note was released in daily leading news papers in regional language to adopt prophylactic measures by the farming community of the district. Shri G.B.Vishwnath Scientist(Agronomy) briefed about the use and importance of water soluble fertilizers in field and horticulture crops. Various talukas Assistant directors of agriculture were also explained about various schemes available for benefit of farmers.

Off Campus Training Programme

S.M. Warad, Scientist (Soil Science) organized off campus training programme on soil health management in association with Dept. of Agriculture, Belagavi on 23.07.2024 at Bio-centre, Belagavi.

KVK Scientist highlighted components of soil health management such as physical, chemical and biological properties of soil. He emphasized on use of organic manures and minimal use of chemicals in agriculture so that soil health can be achieved due to improvement in physical, chemical and biological properties of soil. He explained importance of soil test, soil sampling method, interpretation of soil health cards and called on farmers to be critical in following the suggestion of scientists with respect to use of different sources of fertilizers like



organic manures, bio-fertilizers and green manures and to use chemical fertilizers based on soil test results to improve soil fertility status and enhance farm production and income of farmers.

Cancer Awareness programme

ICAR-KLE KVK, Mattikopp in association with CBKSSK Sugars, Chikodi organised 77th Birthday of Dr. Prabhakar Koreji, Hon'ble Chairman, KLE Society, Belagavi at Ankali. The theme of the programme was to create awareness on Cancer among the adolescents and farm women as cancer is increasing health challenge in India, impacting lives across diverse socio-economic and geographies of the country. The burden of cancer in the country is on the rise, with an increasing number of cases reported each year. The programme was inaugurated by Smt. Shubangi M Kore.

Dr. Vinchurkar, Oncologist (Surgeon), KLE Cancer Hospital highlighted about various symptoms of different types of cancer and different mode of treatments. Dr. Shweta Goudra, Oncologist addressed on cervical, uterus, breast, prostate and ovaries cancer along with their symptoms. Further she suggested the hygienic practices to be followed and also stated that timely checkup is essential like pap smear and biopsy which is very essential tests to keep check on cancer to avoid advance stages. Mrs. Sridevi B. Angadi, Senior Scientist and Head interacted with gathering on diet



Promoting Sustainable Energy: SAMARTH MISSION's Training on Biomass Utilization in Thermal Power Plants for Farmers and Pellet Manufacturers

On 18th July 2024, ICAR-Krishi Vigyan Kendra, Ballari hosted significant one-day training cum awareness programme organized by SAMARTH MISSION in association with the National Power Training Institute (NPTI), Power System Training Institute (PSTI), Bangalore. The programme focused on the utilization of biomass in coal-based thermal power plants, targeting farmers and pellet manufacturers, with approximately 450 farmers from surrounding villages benefiting from the event.

The event began with an inaugural address by Dr. Sanjay D. Patil, Director of NPTI (PSTI), Bangalore, who emphasized the importance of integrating biomass into thermal power generation to enhance sustainability and reduce environmental impact. Following this, Dr. Manju Mam, Principal Director of NPTI, CO, Faridabad, delivered an insightful speech on the national perspective and policy initiatives supporting biomass usage in power plants.

Dr. G. Ravishankar, Dean of the College of

Agriculture, Hagari, shared his expertise on the agricultural benefits of using biomass and its potential to provide an additional income stream for farmers. Sh. Satish Upadhyay, Mission Director of SAMARTH MISSION, highlighted the mission's objectives and the critical role of stakeholders in achieving a greener energy sector. Dr. Tripti Thakur, Director General of NPTI Bangalore, provided an overview of the technical aspects and advancements in biomass technology.

The technical sessions were particularly enriching, featuring Dr. M.R. Govindappa, Senior Scientist & Head of ICAR-KVK Ballari, who discussed the hazardous effects of stubble burning on the environment and presented alternative solutions. Dr. Ravi S., Soil Scientist at ICAR-KVK Ballari, elaborated on the recycling of crop residues in crop management, offering practical insights for sustainable farming practices. Sh. Lakshminarayan C.V., Executive Engineer at BTPS Ballari, detailed the role of biomass in thermal power plants, providing a comprehensive understanding of its operational benefits and challenges.

All scientists from ICAR-KVK, Ballari actively participated, ensuring the programme was highly informative and engaging for all attendees. The event successfully raised awareness about the ecological and economic advantages of biomass utilization, fostering a collaborative approach towards a sustainable future. The significant turnout and active participation of farmers underscored the growing interest and commitment to adopting sustainable practices in agriculture and energy production.



Organic Farming: Empowering Rural Youths and Farm Women

From July 23rd to July 27th, 2024, ICAR-KVK Bidar hosted a five-day training programme on organic farming. This session saw the participation of 61 rural youths and farm women who were eager to embrace more sustainable and eco-friendly farming methods. The enthusiasm of the trainees was palpable, as they engaged wholeheartedly in both theoretical and practical sessions.



The training curriculum was meticulously crafted to cover various aspects of organic farming. Participants learned about soil health management, organic manure preparation, composting techniques, and pest management without synthetic chemicals. Practical sessions provided hands-on experience in preparing organic fertilizers and pesticides, ensuring that trainees could implement these methods on their farms effectively.

Field visits were a highlight of the programme, allowing participants to witness successful organic farming enterprises first-hand. These visits not only reinforced classroom learning but also inspired trainees by showcasing real-world applications of organic farming principles. By the end of the training, participants felt well-equipped and

motivated to transition to organic farming, confident in their ability to produce healthier, chemical-free crops.

Natural Farming: Strengthening the Role of Krishi Sakhis

Following closely, from July 30th to August 3rd, 2024, another five-day training programme focused on natural farming was conducted for 60 Krishi Sakhis. These community-based female farm advisors play a crucial role in disseminating agricultural knowledge at the grassroots level. The training aimed to enhance their expertise in natural farming practices, thereby empowering them to support local farmers more effectively.

The natural farming training covered a comprehensive range of topics, including soil regeneration, biodiversity enhancement, and the use of natural inputs for crop and livestock management. Practical sessions included demonstrations on preparing bio-fertilizers and bio-pesticides, fostering a deep understanding of sustainable farming techniques.

Field visits were integral to this training as well, with Krishi Sakhis visiting farms that have successfully adopted natural farming practices. These visits provided valuable insights and practical knowledge, inspiring the Krishi Sakhis to advocate for and implement natural farming in their communities.

SKILL DEVELOPMENT ACTIVITIES



ICAR KVK Bidar

CULTIVATING FUTURE FARMERS: ICAR - KVK BIDAR'S SKILL DEVELOPMENT REVOLUTION



In 2024, the Krishi Vigyan Kendra (KVK) Bidar has undertaken a significant initiative to enhance the skills of over 650 rural youths. Recognizing the importance of skill development in promoting sustainable agriculture and improving livelihoods, KVK Bidar has implemented a diverse range of activities aimed at equipping young individuals with the necessary knowledge and practical expertise. These activities encompass various aspects of agriculture, allied sectors, and rural entrepreneurship, ensuring a holistic approach to rural development.

Key Activities and Initiatives:

Agricultural Training Programs:

Crop Management: Hands-on training on advanced crop management techniques, including precision farming, integrated pest management, and organic farming practices.

Horticulture: Workshops on modern horticultural practices, focusing on fruit and vegetable cultivation, nursery management, ODOP Ginger crop and post-harvest handling.

Livestock and Dairy Management:

Dairy Farming: Comprehensive training on dairy farm management, milk production, and value-added dairy products.

Poultry Farming: Practical sessions on poultry rearing, disease management, and feed formulation.

Entrepreneurship Development:

Agri-Business Workshops: Guidance on setting up and managing agri-based businesses, including marketing strategies, financial management, and business planning.

Start-Up Support: Mentorship and support for aspiring entrepreneurs to develop and launch their agribusiness ventures.

Technological Integration:

Digital Agriculture: Training on the use of digital tools and technologies in agriculture, such as mobile apps for crop monitoring, weather forecasting, and market linkages.

Mechanization: Introduction to modern agricultural machinery and equipment, emphasizing efficient and sustainable farming practices.

Sustainable Practices:

Organic Farming: Workshops promoting organic farming techniques, soil health management, and eco-friendly pest control methods.

Water Conservation: Training on water-saving techniques, rainwater harvesting, and efficient irrigation methods.

Impact and Achievements:

Enhanced Employability: The skill development activities significantly improved the employability of rural youths, providing them with practical skills and knowledge relevant to the agricultural sector.

Increased Income Opportunities: Many participants successfully launched their own agri-based businesses, generating additional income and contributing to the local economy.

Community Development: The initiatives fostered a sense of community and collaboration among the rural youths, encouraging them to work together towards common goals and shared success.

KVK Bidar's dedication to skill development has not only transformed the lives of over 1000 rural youths but has also set a benchmark for similar initiatives across Bidar district.

ICAR KVK Chamarajanagara



Ecofriendly Crop Management Practices in Garlic

As a part of implementation of FLD on Ecofriendly crop management practices, off campus training was conducted at Kanchahally village, Hanur taluk. Scientist (Horticulture) Dr.Mohankumar,A.B. highlighted improved cultivation practices emphasizing healthy planting cloves selection, treatment with biofertilizers, integrated nutrient management with special importance to liquid organics and irrigation management. Senior technical officer Dr.B.Pompanagouda provided information on ecofriendly insect pests & diseases management like installation of sticky traps, application of bioproducts like neem cake, neem oil, neem soap, karanj cake, bioagents namely Trichoderma, Pseudomonas, Paecilomyces, Metarhizium. Twenty six participants participated and selected beneficiaries were distributed with critical inputs like neem soap, bioagents and sticky traps. The installation of yellow and blue sticky traps for the management of thrips was demonstrated.

Capacity building programme on Agro Ecological Practices for Community Resource Persons (KrishiSakhis) of farm livelihood - Module II

Six days capacity development programme on Agro Ecological Practices for Community Resource Persons (Krishi Sakhis) of farm livelihood - Module II was

organized by SANJEEVINI- Karnataka State Rural Livelihood Promotion Society, Department of Skill development, Entrepreneurship and Livelihood, GOK in collaboration with UAS, Bangalore, at ICAR KVK, Chamarajanagara from 22.07.2024 to 27.07.2024 for 24 stakeholders.

Different sessions covering the detailed aspects of topics like understanding & analyzing rural livelihood, skills of facilitation, agro-ecology, agri-nutri garden, soil health management, crop selection & practices, seed – sources & seed treatment, agronomic practices, IPDM practices for plant protection and



assessment & planning were deliberated and practically demonstrated with the support of respective KVK scientists, resource persons from AICRPs on Sorghum & Cotton, development departments, NGOs and College of Agriculture. Also, the trainee participants were provided an exposure to model organic farming farmer's field, organic jaggery units and integrated farming system farmer's field at Gundlupete taluk through a visit.

Pre and post evaluations were done in order to assess the change in knowledge of the trainees. The trainees were issued completion certificates while concluding the programme.



ICAR KVK Chamarajanagara



Skill development in agriculture is essential for growth and sustainability. Skill training is aimed at imparting skills to rural youth pertaining to agriculture & allied areas to promote employment and for creation of skilled manpower to perform farm and non-farm operations. The skill based management helps efficient use of resources in agriculture thereby giving advantages of saving in time, labour, cost on agro-inputs like seeds, planting materials, manures, fertilizers, plant protection inputs. These benefit in terms of financial profit and more than that, resources conservation. Different skills pertaining to nursery raising & management, sericulture, seed production, organic farming, livestock management and bio control agents production were imparted to 130 farmers and rural youth through capacity development programmes of duration 6 days and above at KVK from 2021 to 2024. These training programmes helped for development of skills among the stakeholders, enabling them venture into new enterprises like nursery (2 individuals), bee keeping & honey production (26 individuals), seed production in field crops (4 individuals), effective management of agriculture &

horticulture crops in a scientific way and profitable live stock production thereby resulting in better marketing and improvement in income status.

Programmes

- 1.Nursery Worker (ASCI sponsored)
- 2.Scientific Bee Keeping (MANAGE sponsored)
- 3.Sericulturist (ASCI sponsored)
- 4.Seed production technologies
- 5.Scientific Sheep and Goat rearing
- 6.Organic Farming (MANAGE sponsored) 2 nos
- 7.Mass production of bio control agents (MANAGE sponsored)

Impact:

After completion of nursery worker training, Mr. Shashikumar, Doddathuppur village and Mr. Mahadevaswamy, Terakanambi village of Gundlupete taluk started their own nursery on a small scale and are providing quality planting materials, especially major vegetables and coconut. Also, they are visiting the guava and sapota orchards belonging to farmers of surrounding villages on demand basis and are providing



ICAR KVK Chamarajanagara



grafting services and have realized an additional income of ₹ 20,000 to ₹ 25,000 per annum. Further, few youths of Gundlupete taluk who completed organic farming training have started growing organic vegetables & millets, preparation of value added products (millets mix, millets savories, millets recipe mix, organic jaggery flakes & powder, and are involved in doorstep & point marketing of the same at district and taluk headquarters by forming a group. Apart from this, they are sourcing selected vegetables, processed millets and value added millet products to the markets of neighboring Kerala state at Kalpeta & Manadawadi and to vendors at Bangalore and Mysore on weekly/fortnightly intervals. The selected urban residents at Mysore are also being provided with organic produces and value added organic products at doorstep on demand basis for higher prices at regular intervals. By this, they are earning an additional income ranging from 16 to 25 per cent. The CEO of the KVK supported sericulture based FPO successfully completed skill training on mass production and applications of bioagents and after the training the FPO is promoting bio-pesticides viz., Trichoderma, Pseudomonas, Paecilomyces produced at KVK plant health clinic and in a span of 4 months post training, 695 kg of bio-pesticides have been provided to 102

farmers of the district through FPO. Apart from this, the FPO is providing KVK biofuel unit byproducts namely neem cake, neem oil, pongamia oil, IIHR products like AMC, neem soap, pongamia soap through sales to the farmers.

The skill development capacity building programmes directly influenced the stakeholders by way of enhancing their ability to manage the agriculture activities thereby reducing time, cost, manpower requirement and this has helped them realise 16 – 25 % increased income along with judicious use of resources.



ICAR KVK Chikkaballapura



Training programme on Improved Cashew Production Technologies

ICAR-Krishi Vigyan Kendra, Chikkaballapura in collaboration with ICAR-Directorate of Cashew Research, Puttur, University of Horticultural Sciences, Bagalkot organised training programme on Improved Cashew Production Technologies: Farmer-Scientists interaction on 26.07.2024 at Tippenahalli Village of Sidlaghatta taluk. Dr. G.S.K. Swamy, Dean, College of Horticulture, Bengaluru along with other dignitaries inaugurated the programme and emphasised on Cashew production and productivity. Dr. Papireddy, Senior Scientist and Head, KVK, Chikkaballapura highlighted about processing and value addition in cashew. Dr. Eradasappa E, Senior Scientist (Plant Breeding), ICAR-DCR, Puttur explained about different varieties in cashew and their characteristic features. Dr. T.N. Raviprasad, Principal Scientist (Agricultural Entomology) delivered a lecture on integrated management of insect pest in cashew. Dr. Rajashekhara H., Senior Scientist (Plant Pathology) highlighted about integrated disease management practices in cashew. Dr. Itigi Prabhakar, Asst. Professor, Regional office, UHS-B campus enlightened about farmers producers organisations and its role in enhancing the farmer's income. 87 farmers participated in the programme.

Bacterial blight management in pomegranate

Off campus training on wilt and bacterial blight management in pomegranate was organised by ICAR-Krishi Vigyan Kendra, Chikkaballapura in collaboration with Department of Horticulture at Patrenahalli village of Chikkaballapura taluk on 29.07.2024. Dr. Praveenakumar, Scientist (Horticulture) emphasised on use of *Aspergillus niger*, *Pseudomonas* florescence and VAM in management of wilt and bacterial blight management in pomegranate. Dr. Swathi, Scientist (Plant Pathology) explained about symptoms and chemical control measures management of wilt and bacterial blight management in pomegranate. 60 farmers participated in



SKILL DEVELOPMENT ACTIVITIES



ICAR KVK Chikkaballapura

ICAR-Krishi Vigyan Kendra, Chikkaballapura organised two Skill Training for Rural Youth (STRY) sponsored by MANAGE, Hyderabad on Mushroom production and organic farming in which 15 farmers participated in each programme during 2023-24. During 2022-23, two STRY

programmes on Cocoon bio craft and organic farming were organised. During 2021, Skill development training on Bee keeping was organised under ASCI from 02.08.2021 to 26.08.2021. The above said trainings has resulted in establishment of agripreneurship opportunities among farmers.



ICAR KVK Chikkamagaluru



Training programme on “Clonal propagation and top shoot grafting in Robusta coffee”

Keladi Shivappa Nayaka University of Agricultural and Horticultural Sciences, Shivamogga, ICAR - Krushi Vigyan Kendra, Mudigere, Central Coffee Research Institute (CCRI), Balehonnuru and Coffee Board, Mudigere jointly organized one day hands on training programme on 'Clonal propagation and top shoot grafting in Robusta coffee' organized on 16.07.2024.

The programme was organized at Krishi Vigyan Kendra, Mudigere and co-ordinated by Dr. Suresh Kumar, B., Scientist (Horticulture), KVK, Mudigere. The training programme was inaugurated by Mr. Dinesh Devarunda, President, Coffee Board, Karnataka., Mr. Mohan Kumar, President, Karnataka Growers Federation, Mr. D. L. Ashok Kumar, President Mudigere Taluk Krushika Samaja, B. R. Balakrishna, president Mudigere taluk Growers Association and Dr. Shivaprasad, M., Associate Director of Extension, presided the inaugural function.

One hundred thirty farmers from Chikkamagaluru and neighboring districts Hassan, Shivamogga participated in the training programme. Both theoretical and practical sessions were covered, by CCRI Scientist Dr. Jeena Devasia, Divisional Head, Plant breeding and genetics division explained the importance of vegetative

propagation in coffee and their advantages. Dr. Prabhulinga, B. R Research Assistant delivered lecture on on Clonal propagation techniques in robusta coffee and their importance.

The training programme was concluded evening and the certificates were distributed to all the participants. Dr. A. T. Krishnamurthy said that the knowledge gained in the training should be adopted and for any kind of doubts they could contact the scientist any time. The training programme was Anchored by Dr. Suchithra Kumari M.H., Scientist (Plant Protection) and concluded by vote of thanks by Dr. Suresh Kumar B. Scientist (Horticulture).





ICAR KVK Chikkamagaluru



Friends of Coconut

Six days on campus skill training programme on “Friends of Coconut Tree- Plant Protection aspects on coconut including harvesting using the climbing device” was organized at ICAR- Krishi Vigyan Kendra , Mudigere, Chikkamagaluru which was sponsored by Coconut Development Board, Regional Office, Bengaluru. Dr. Sureshkumara B, Scientist (Horticulture) ICAR-Krishi Vigyan Kendra, Mudigere and the Coordinator welcomed the gathering and gave the introductory speech about training programme. Dr. Shivaprasad M, Associate Director of Research, ZAHRS- Mudigere, inaugurated the FoCT training programme and explained about the demand for training on coconut tree climbing and he also suggested that, all trainees to utilize this golden opportunity at this training could become the source of livelihood. Totally Twenty farm youths and women participated in training programme for the six days training programme gave the technical information on coconut tree climbing machine – main parts, working mechanism, how to use the climbing machine, how to fix to coconut tree and how to unfix the machine from the coconut tree, and trial with a practical

session on palm climbing up to 15 feet height. “Coconut Olympics” was organised. In the competition, the trainees who could climb and get down at lesser time was judged best performer. The second and third best trainees were also considered for the award. In competition women also participated. In the valedictory function experience sharing from the trainees was organized and also briefed about the coconut climbers to renew their insurance “Kera Suraksha” which has been facilitated by Coconut Development Board. He briefed the six days training programme activities, mechanical tree reduces the drudgery involved in manual coconut harvesting by using this equipment one can climb 40-50 trees per day and can earn up to Rs. 2000-2500 per day Hence, this training must be effectively utilized by trainees. Finally thanked to Directorate of Extension, KSNUAHS Shivamogga and Coconut Development Board, for all the support extended during the training programme.

ICAR KVK Chitradurga



Six days training programme

A six days training programme for community resource persons (Krishi Sakhi's) of NRLM project on Module III - Environment friendly agricultural practices was organized at KVK, Chitradurga from 22-07-2024 to 29-07-2024 for Hiriyur taluk Krishi Sakhi's (Batch III) in collaboration with K.S.L.P.S.- Sanjeevini, Zilla Panchayath, Chitradurga.

The programme was inaugurated by Dr. O.Kumara, Sr. Scientist and Head, KVK during his inaugural speech discussed in detail about aims of NRLM project and the Module III training programme. Module III is the extension of Module II and the information provided in Module III will be the continuation of topics covered in Module II and he suggested the participants to actively participate in the training and

clarify the doubts with concerned resource persons to get acquainted with the topics.

Dr. S. Onkarappa, Scientist (Plant protection), Dr. D. Ravi Kumar, Scientist (Soil Science), Dr. Saraswathi J.M., Scientist (Home science), Dr. Mahantesh P.S., Scientist (Horticulture) and Mrs. Geetha Kumari B N , Senior Technical Officer and 33 Krishi sakhi's from Hiriyur taluk participated in the programme.



ICAR KVK Chitradurga



A three day skill development training on Coconut tree climbing was organized from 22-07-2024 to 24-07-2024 by KVK, Chitradurga in collaboration with Organic farming research station, Shivamogga.

Dr. P.K. Basavaraj, Hon'ble Member, Board of Management, KSNUAHS, Shivamogga inaugurated the programme and during opined that farmers should practice agriculture as a business, and should make profit out of it. To make agriculture a profitable venture, farmers should adopt scientific methodology and adopt innovative technologies and to get the information on new technologies farmers should be in regular contact with scientists. He also suggested the farmers to participate actively during the training programme and make use of it to the maximum extent.

Dr. Suresh D. Ekabote, Associate Director of Agriculture, ZAHRS, Babbur Farm participated as chief guest in the programme and suggested the farmers to collect and keep the contact numbers of all the scientists and resource persons of KVK and contact them for further information on agriculture related problems.

Dr. Kumara O, Senior Scientist and Head,

KVK, Chitradurga presided over the programme and during his presidential address he briefed that coconut tree climbing skill training is very useful one. If any person learns the skill very well can earn Rs.2000 to Rs.2500 per day. One can



make it as an entrepreneurial activity and make it profitable.

Dr. Mahantesh P.S., Scientist (Horticulture), welcomed all the guests and participants to the programme, Dr. Saraswathi J.M., Scientist (Home Science), delivered vote of thanks and Mrs. Geetha Kumari B N, Senior Technical Officer, KVK hosted the programme. Around 43 farmers from various villages of Chitradurga district have participated in the programme.

ICAR KVK Dakshina Kannada

KVKs Golden Jubilee Torch Receiving Ceremony

KVKs Golden Jubilee Torch Receiving Ceremony was organized at ICAR-Krishi Vigyan Kendra (Dakshina Kannada) Mangaluru to commemorate the Golden Jubilee Celebration of the establishment of KVKs, relay of KVK Golden Jubilee Torch received on 23-07-2024 with a grand welcome. The torch was handed over to Senior Scientist and Head, KVK Dakshina Kannada, Mangalore Dr. T. J. Ramesha from Senior Scientist and Head, KVK, Kasargod



Dr. Manojkumar T.S. Dean College of Fisheries, Mangalore, Dr. H.N. Anjeaneyappa presided over the function.

On the eve of Golden Jubilee organized capacity development programme on Udupi jasmine cultivation for the SHG members of Shri Kshetra Dharmastala Rural Development, BC trust. Dr. Rashmi R., Scientist (Horticulture) participated as a resource person and delivered a lecture covering aspects on importance of Udupi Jasmine, its cultivation, methods, and time of pruning for off season flowering, Integrated pests, and disease management. The Heads of both the KVKs spoke on the occasion highlighting the journeys of KVKs in India. DFI farmer was felicitated and Jasmine plant samplings were distributed to the participant farmers and farm women. Scientists of KVK, Mangaluru and Kasargod, staff, farmers, farm women and students of fisheries college graced the occasion.

SCSP Programme on Scientific Coconut cultivation

ICAR-Krishi Vigyan Kendra, Dakshina Kannada in collaboration with ICAR-Central Plantation Crop Research Institute, Kasargod organized Capacity Development Programme on 26-07-2024 at Taluk Panchayath Office, Sulia on Scientific cultivation practices of Coconut for SC Farmers under SCSP Programme of CPCRI, Kasargod. The programme was inaugurated by Mr. K. E. Jayaram, Project Director and Deputy Secretary, Zilla

Panchayath. Mr. Rajanna, Executive Officer, Taluk Panchayath, Sulia presided over the function. Mr. Sreeshyla R.H., District Manager, Farm Livelihood, NRLM provided information about livelihood avenues in agri and allied sectors. Dr. Rajkumar M. Senior Scientist & Nodal Officer of SCSP and Dr. Surekha Scientist-Agronomy from ICAR-CPCRI Kasargod participated as resource persons and provided information about coconut cultivation and pest-disease management. Smti. Suhana, Senior Assistant Director of Horticulture provided information about departmental schemes and programmes. The programme was coordinated by Dr. T.J. Ramesha Senior Scientist and Head, ICAR-Krishi Vigyan Kendra, Dakshina Kannada. Krishi sakhis and SC Farmers participated in the programme. A total of 1100 coconut saplings were provided to 304 SC Farmers selected from 25 remote villages of the taluk.



Field visit to NICRA

Conducted the Frontline Demonstration of Direct Seeded Rice (DSR) at Halvarthy and Doddabathi of Davangere taluk, Guttidurga, Bisthuvahalli and Medaganakere of Jagalur taluk and Belludi of Harihara taluk. The sowing completed and crop is 25-30 days after sowing. Mr Mallikarjuna B.O SMS (Agronomy) provided information on spraying of post emergent herbicide Bispyribac Sodium 10% WP (Bispyribac-sodium is the organic sodium salt of bispyribac) @ 100ml per acre/ Fenoxaprop-p-ethyl 6.9 EC @ 350 ml /acre for effective control of grasses, sedges and broadleaf weeds in rice crops followed by hand weeding. Provided the information on the micronutrient deficiency of Zinc and Iron in DSR and suggested for application of micronutrient @ 10 kg per acre and. Fe deficiency is severe we can go for foliar application of Fe (3% FeSO₄) solution, thrice at 40, 60, and 75 days after sowing of rice, i.e., 18 kg /acre).

Method demonstration on installation of Pheromone traps

Conducted the Frontline Demonstration of Intercropping of Redgram in Hybrid maize (1:8) at Guttidurga, Jagalur taluk. Maize crop due to the dry spell at early stages of the crop growth Fall army Worm incidence was observed in the plots. Mr Mallikarjuna B.O SMS (Agronomy) gave information on the integrated Pest Management of FAW to the FLD farmers. Conducted the method demonstration on installation of pheromone traps in the field and provided the 5 traps/acre to the farmers. Suggested for the chemical spray if the incidence is severe and can go for spraying of Emmactin Benzoate + profenofos @ 1.5 g/l and later stages spray with Spinetorom @ 0.5 ml/l. Dr Devaraja T.N SSH provided information on the crop rotation for management of weeds and pests in field crops.

SKILL DEVELOPMENT ACTIVITIES



ICAR KVK Davanagere



ICAR-Taralabalu Krishi Vigyan Kendra, Davanagere organised 84 skill training programmes since 2005 for 3956 farmers, farm women and rural youth. The key areas of skill impact are dairy, fisheries, rural self-employment for youth in Coconut climbing, nursery management. The skill trainings are sponsored by external agencies like

Zilla Panchayath, Davanagere Development departments, ICAR, CDB, NFDB, NRLM scheme etc. These trainings helped in starting entrepreneurship, inculcating science in existing practices and resulted in increased income to rural masses.



ICAR KVK Dharwad



Trainings on Natural Farming for Krishi Sakhis

ICAR-Krishi Vigyan Kendra, Dharwad, in association with KSRLPS Skill Development, Entrepreneurship and Livelihood Department, Government of Karnataka, and sponsored by MANAGE, Hyderabad, organized two training programmes on Natural Farming for Krishi Sakhis from 9th to 13th March 2024. The programmes covered various topics, including the principles of natural farming, soil health management, integrated farming systems, crop and livestock integration, nutrient management, pest control, and seed conservation. Practical sessions included the preparation of natural farming inputs like Jeevamruta and Beejamruta, as well as demonstrations on multi-cropping models and seed treatment

methods. The training was coordinated by Smt. Kalavathi K. Kambali, Scientist (Plant Protection), and Dr. Airadevi P. Angadi, Scientist (Horticulture), with 30 selected Krishi Sakhis from different talukas of Dharwad district participating. The programme concluded with a post-evaluation to assess the knowledge gained, followed by the distribution of online certificates.

Felicitation programme for DFI farmers

Felicitation programme for DFI farmers was arranged on 11.08.2024. Hon'ble vice chancellor, Dr. P. L. Patil, UAS, Dharwad and Director of Extension, Dr. S. S. Angadi distributed the certificates to DFI farmers. The farmers adopted integrated farming system (IFS) which played an importance role in doubling their income.



SKILL DEVELOPMENT ACTIVITIES



ICAR KVK Dharwad

Training programme on "Processing and Value addition of Mango"

ICAR-KVK, Dharwad, in collaboration with the Dept. of B Tech (Food Technology) at UAS Dharwad, organized a 3-day training programme on "Processing and Value



Addition of Mango" from July 3rd to 5th, 2024. Mrs. Vidya V. Sangannavar, SMS (Home Science), discussed the nutritional value of mango and demonstrated various mango products. Dr. Airadevi Angadi, Scientist (Horticulture), explained post-

harvest technologies, while Dr. Archana G. Lamdande and Dr. Ramya H. G., both Assistant Professors, demonstrated mango processing techniques and machinery. Dr. Hemalatha S, Professor and Head, provided guidance on packaging,

branding, and labeling. The programme also featured Dr. Channappa Angadi, ADA, who spoke about government schemes for microfood processing. Dr. S. S. Angadi, from the Directorate of Extension, UAS Dharwad, served as the chief guest of valedictory programme and

emphasized mango cultivation methods and the demand for value-added products. The event concluded with the distribution of certificates to the 20 participants.





ICAR's 96th Foundation Day

KVK Ernakulam organized a significant planting drive as part of ICAR's 96th Foundation and Technology Day celebration on July 16, 2024. This initiative took place in the coastal village of Puthukkad, Ernakulam, on the banks of the Vembanad backwater, addressing the area's recurrent floods and cyclones. Dr. P.A. Vikas, SMS Fisheries of KVK, led a talk on the Importance of afforestation for soil and water protection, emphasizing the role of trees in maintaining ecological balance with active participation of local community, with progressive farmers and KVK staff planting fruit trees such as guava, rambutan, and water apple. This collaborative effort highlights the community's commitment to environmental sustainability and resilience against natural calamities.

KVK Introduces Reaper for Lemongrass Harvesting: A Major Step toward Crop Revival in the District

The Ernakulam Krishi Vigyan Kendra (KVK) has introduced a reaper for harvesting lemongrass, marking a significant step towards reviving lemongrass cultivation in the district addressing the labor shortages

faced by lemongrass farmers. Testing of the reaper was conducted on July 17, 2024, in collaboration with Kerala Agricultural University (KAU) and Kerala Agro Machinery Corporation Ltd (KAMCO) at the Aromatic and Medicinal Plants Research Station in Odakkali. KAMCO's KR120H model reaper proved to be efficient, capable of harvesting an acre per hour. Moreover, KVK plans to showcase lemongrass varieties such as Sugandhi from KAU and Krishna from the CSIR-Central Institute of Medicinal and Aromatic Plants (CIMAP) in farmers' fields. Additionally, KVK will collaborate with the Bengaluru Research Centre of CSIR-CIMAP to establish a lemongrass distillation unit under the Aroma Mission. This unit will enable the production of lemongrass oil and value-added products like soap, mosquito repellents, and fresheners. The initiative aims to strengthen the market avenues via branding to enhance farmers' income. The potential of the eastern region of Ernakulam, particularly Perumbavoor, which was once the epicenter of the lemongrass trade, is set for a revival. Ideal cultivation areas should receive ample sunlight and have good drainage. The first harvest occurs three months after planting, with subsequent harvests every two months.

SKILL DEVELOPMENT ACTIVITIES



ICAR KVK Ernakulam



Agricultural Skill Council of India (ASCI) Short Courses Conducted

The KVK Ernakulam conducted four short courses, each of 25 days duration, under the Pradhan Mantri Kaushal Vikas Yojana (PMKVY) during the period 2017-19. PMKVY is a unique initiative by the Government of India aimed at providing 24 lakh Indian youth with meaningful, industry-relevant, skill-based training. The courses conducted at KVK Ernakulam were Aquaculture Technician (2017), Vermicompost Producer (2017), Aquaculture Worker (2018) and Nursery Worker (2019).

A total of 59 candidates successfully completed these courses. The short courses included theory classes, practical sessions, and field visits. Assessments were conducted, and certificates were distributed to successful candidates.

These courses helped participants gain the confidence to initiate start-up enterprises, with the KVK providing further technical support. As a result five candidates started nursery/microgreen production units, ten candidates started fish farms, four candidates started vermicompost production units and five candidates started consultancy services.



ICAR KVK Gadag



TREE PLANTATION DRIVE

ICAR-K.H.Patil Krishi Vigyan Kendra, Gadag conducted second phase of Tree Plantation Drive on the eve of celebration of 96th Indian Council of Agricultural Research Foundation Day on 16-07-2024 at Shingatarayanakeri Village of Mundaragi block in Gadag district. Farmers took

planting of 800 saplings like Jamun, Tamarind, Guava and Mahogani in their fields and community lands of the village.

KVK scientists explained the importance of tree planting in mitigating natural calamities. 35 farmers and farmwomen were actively involved in the tree planting programme.



SKILL DEVELOPMENT ACTIVITIES



ICAR KVK Gadag

01. PradhanMantriVishwakarma scheme is a holistic scheme to support artisans and craft people. The scheme envisages to provide end to end support in skill up gradation toolkit provision, credit support and Marketing support. In this regard ICAR-K.H.PatilKrishiVigyan Kendra organized 7 days training programme under PM Vishwakarmain Tailoring trade on 29thJanuary to 3rdFebruary 2024 for 19 participants who have registered under PM Vishwakarma were trained on basic skilling in tailoringtrade. The passed



candidates were provided with certificates that were issued online under PM Vishwakarma portal. Then for all the 19 Candidates the application for toolkits worth Rs.15,000 was submitted.

02. ICAR-K.H. Patil Krishi Vigyan Kendra, Gadag is actively engaged in providing skill training to youths, farmers and farm women in various agricultural fields. In collaboration with development departments such as Zilla Panchayat Gadag, NRLM Gadag, and SBI-RSETI Hulkoti, KVK has organized training programs like Sheep Rearing, Dairy Farming, and Poultry Farming. Nearly 27 training programmes were conducted during 2022 to 2024 and 65% of them acquired the necessary

skills and became entrepreneurs, thereby getting an annual net income of approximately Rs.60000/animal/ annum.



03. KVK organized Skill training programmes to KrishiSakhis' in four batches including 122 trainees. They were imparted knowledge and skills on crop and livestock management, use of agricultural tools, communication and extension services, resource management, entrepreneurial skills etc. enabling them to effectively serve as front-line extension workers and disseminate agricultural information to farmers.



ICAR KVK Hassan



Celebration of 96th ICAR Foundation Day

ICAR-Krishi Vigyan Kendra, Hassan has celebrated the 96th Foundation Day of Bharatiya Krishi Anusandhana Parishad (Indian Council of Agricultural Research - ICAR) and inauguration of MANAGE, Hyderabad sponsored Natural farming training for Krishi Sakhi's on 16-07-2024 at KVK, Kandali Hassan. ICAR is the country's flagship organization coming under the Department of Agricultural Research and Education (DARE), Ministry of Agriculture and Farmers Welfare, Government of India. The programme is inaugurated by Dr. M. Sivashankar, scientist (Home Science) by lighting the lamp.

In his inaugural address, he explained the reason for celebrating the Foundation Day, then highlighted ICAR's significant milestones, achievements and technological improvements made in the

Indian agriculture, encouraging farmers to use a range of new varieties and technological innovations to increase the productivity, profitability and overall economy of farming communities and advised the Krishi Sakhi's to educate the farmers about new innovations/ technologies available in the agriculture and allied sectors.

Dr. Shrinivas Deshpande, scientist (Agril. Engineering) organized the programme and made introductory remarks. Further, Dr. Pallavi, N., scientist (Crop Physiology) has organised the planting of 400 forest species trees on the eve of 96th ICAR foundation day at Maravallu and informed the farmers about the importance of agro-forestry model in agriculture. In this program Dr. Arunkumar, B. R., Dr. Sanketh, C. V. Scientists of KVK, Dr. Sakamma, S., Farm Manager and Shri Srigandh, Block Manager, NRLM



SKILL DEVELOPMENT ACTIVITIES



ICAR KVK Hassan



ICAR-Krishi Vigyan Kendra, Hassan has conducted skill development activities trainings under Agriculture skill development council (ASCI) and STRY on the topics like Friends of Coconut Training (FOCT) and Mushroom growers skilled training programme during the year last five years. In these training programmes 60 farmers/farm women's were trained and imparted with the skills of coconut tree climbing, crown cleaning, plant protection measures in coconut,

mushroom cultivation, processing, storage and marketing of mushroom.

Further The distinctive features of the trainings were organized technical sessions in most effective way through different methodologies, aids, exposure visits etc., and more emphasis was given on skill development in palm climbing and plant protection aspects by using systematic method demonstrations.





Agro-ecological practices and Natural farming

ICAR-Krishi Vigyan Kendra, Haveri (Hanumanamatti) in collaboration with Sahaja Samrudhi NGO, Haveri organized two days on-campus training programme on agro-ecological practices and natural farming at ICAR-Krishi Vigyan Kendra, Haveri during 25.07.2024 to 26.07.2024. Dr. Guruprasad G. S., inaugurated the event and briefed the importance of natural farming in sustainable agriculture and livelihood. Urged farmers to maintain crop diversity and IFS under natural farming to get sustainable income. Dr. Siddagangamma K. R, SMS (Agronomy) narrated importance of natural farming pillars, nutrient management in agro-ecology and demonstrated the jeevamurtha, beejamrutha and ghanajeevamrutha for enhancing soil fertility. A progressive farmer Mr. Mallesheppa Bisirotti practically exhibited the ghanajeevamrutha preparation and shared his experience on natural farming. Dr. Rashmi C. M, SMS (Soil Science) emphasized on importance of soil management in agro-ecology and urged the farmers test their soil and water for efficient utilization of inputs to improve soil fertility. Dr. Basamma Hadimani, SMS (Plant Protection) briefed about the disease management in natural farming. Dr.

Mahesh Kadagi, Scientist (Animal Science) highlighted the importance of dairy in natural farming and briefed the fodder



production under natural farming. Dr. Akshata Ramannanavar, SMS (Home science) emphasized about the value addition, labelling and marketing in organic farming. Mr. Chandrakanth Kotabagi briefed about the weather based agro advisory and e-krisi technology information to farmers. In this programme more than 45 farmers and farm women and KVK staff participated.



ICAR KVK Haveri



ICAR-KVK Haveri conducted training programme on ICM in Arecanut and demonstration on Bordeaux mixture preparation and its application in arecanut to Marulasiddeshwar Horticulture FPO farmers at Nandihalli village Ranebennur taluk on 26-07-2024. Dr. Santhosha HM, Scientist (Horticulture) provided the information regarding arecanut planting method, selection of planting material, integrated nutrient management, green manuring, intercultivation practices, post harvest management and management of band disorder. Later Dr. Basamma Hadimani, SMS (Plant Protection) explained about fruit rot (kole roga), budrot, inflorescence die back and Ganoderma basal root rot diseases of arecanut and their management. Further demonstrated the preparation of Bordeaux mixture and its application in arecanut orchard to farmers. About 55 farmers witnessed the event and opined that these

low cost technology helpful to manage the disease and also technical innervation as explained by scientist are need hour to enhance the yield.





ICAR KVK Idukki

Skill Training on VAM Production



A group of 50 members from the Vellathooval Panchayat participated in training on "Low Cost VAM Production Techniques (ICAR-NIPHM Technology)." The training covered several important topics. First, farmers learned how to sterilize soil to eliminate harmful pathogens. They were also trained on how to use VAM (Vesicular Arbuscular Mycorrhiza) when sowing maize. The training included instructions on how to maintain the maize crop after VAM inoculation until harvest.

Farmers learned key points about harvesting and post-harvest processing techniques to ensure the best quality yield. They were educated on the benefits of using VAM, which helps maize grow better and



absorb more nutrients. The training also covered practices to improve soil nutrient content, using VAM to increase soil organic matter, and methods to boost crop productivity with VAM. Overall, this training greatly benefited the farmers by enhancing crop productivity and improving soil health.

Skill Training in Mushroom Cultivation

KVK Idukki organized vocational training in mushroom cultivation for rural youth from Rajakkad Panchayat. The training covered the history, benefits, and economic potential of mushroom cultivation, introducing types like oyster, shiitake, portobello, and maitake.

Participants learned about the mushroom lifecycle, mycelium, fruiting bodies, and spores. They focused on cultivation techniques, preparing substrates such as straw, sawdust, and coffee grounds. Training included inoculating substrates, managing temperature, humidity, light, and air circulation, and best practices for harvesting.

The course also covered setting up and maintaining grow rooms, sterilizing substrates and equipment, and essential tools. Pest and disease management strategies were discussed.

Participants developed business plans for mushroom cultivation, including cost analysis. Practical sessions included workshops on inoculating substrates, setting up grow rooms, and harvesting mushrooms, along with visits to commercial mushroom farms.

ICAR KVK Kalaburagi-I



Exposure visit by Students

Chandrakant Patil High School, Kalaburagi students visited to ICAR-Krishi Vigyan Kendra, Kalaburagi-I under Exposure visit to Farms on 18.07.2024.

During the programme, Dr. Yusufali, Scientist (Agronomy) interacted with participants on integrated farming system, about natural farming. Dr. Zaheer Ahamed, Scientist (Plant Pathology) explained about pest and disease management in pulses. Sri. Siddu Manige, Computer Programmer explained about the KVK mandated activities, facilities like QR code based technologies, do scan call scientist service and facilities available at the KVK and visited to different demo units of KVK. Dr. Shreenivas, B. V, Scientist (Soil Science) discussed about importance of soil and water testing in Agriculture and nutrient and residue management in Agriculture also focussed on importance of summer ploughing in agriculture. Dr. Sanmati Nayak



ATS Scientist (Horticulture) briefed about importance of Nutri-garden, role of horticulture crops. Mr. M.C. Patil, Farm Manager, emphasised about vermicompost and vermiwash. After the programme, participants visited to different method demonstration units of the KVK like, compost, vermicompost, hydroponics, azolla units, poultry unit, medicinal & aromatic plots, soil testing labs, organic inputs demo, museum, terrace garden and dairy farm. A total of 500 students were actively participated and benefitted from the training.

Krishi Jatre-2024

Kalayna Karnataka Chamber of Commerce and Industries, University of Agricultural Sciences, Raichur, Karnataka State Department of Agriculture and line department jointly conducted three days Krishi Jatre for the year 2024 from 27th to 29th July, 2024 under the theme of 'Moving towards Organic farming' at APMC, Kalaburagi. Krishi Mela was inaugurated by Parama Poojya Adrushya

ICAR KVK Kalaburagi-I



Shri Kadasiddeshwara Swamiji, Siddagiri Kanheri Math, Kolhapur (MH) blessed a good luck for better growth of the farming community and briefed about the importance of Organic Farming and soil health management. Organic farming helps to sustain yield as well as manage the soil health and human health too and also described the farmer's income by recycling the agricultural resources at low cost farmers can get income throughout the year.

Dignitaries of the programme are appreciated and suggested new developed technologies by university which also can be implemented for the benefit of the farmers. Hon'ble Vice Chancellor Dr. M. Hanumanthappa, Director of Extension Dr. S. B. Goudappa, University and line department officials, KKCCI, President Shashikant B. Patil, Secretary, Manjunath Jewargi and members were presented. On this occasion, the university recognised the achievements and awarded 'Savayava Sadhaka Raita' to the progressive farmers from Kalaburagi district.

The technologies released by the university along with technological products like millets, millets baked products, biofertilizers, Solar operated power sprayer, different varieties seeds of millets, pulses and cereals, GI tagged tur dal, pulse and chickpea magic were show cased in the different stalls. Agriculture universities, various departments of Horticulture, Veterinary, Sericulture, Forestry, Fishery and private companies established stalls in Krishi Mela. The agriculture related information in the form of

specimens, charts, model, live samples were demonstrated for the benefit of the farmers.

ICAR-Krishi Vigyan Kendra, Kalaburagi-I Senior Scientist and Head Dr. Raju G. Teggelli and Scientists Viz, Dr. Zaheer Ahmed, Dr. Yusuf Ali, Dr. Shreenivas B V and Dr. Sanmati Nayak ATS were part of the team and explained about the various technologies to the visited farmers. In this occasion, released Role and Importance of medicinal and aromatic plants mini booklet by Poojya Sri Shivakaumar Swamiji, Nandiveri math, Kapatagudda, Doni Gadag.

In this Krishi Jatre, dignitaries, guests, faculty, students and farmers were visited the stalls, horticulture flower show, fish festival. Livestock exhibition, watershed model, farm machinery exhibition, various crops farm trials etc. appreciated about the new technologies and millets products, more than 1 lakh farmers and publics were visited the Krishi Jatre. In this Jatre, various public representatives, honourable board members, ex-vice chancellors, university key officers, teaching and non-teaching staff of Raichur and other agricultural university of Karnataka, scientist's students, officers of various line department, banks, company dealers, and progressive farmers were participated.

SKILL DEVELOPMENT ACTIVITIES



ICAR KVK Kalaburagi-I



ICAR-Krishi Vigyan Kendra, Kalaburagi-I has organized five days Agricultural livelihood community resource persons (KRISHI-SAKHI) I batch training programme in collaboration with MANAGE, Hyderabad, Mission Director, Sanjeevini-KSRLPS and Zilla Panchayat, Kalaburagi from 30.07.2024 to 03.08.2024. Senior Scientist and Head Dr. Raju G. Teggelli briefed about the KVK, importance of 'Krishi Sakhi' and the role of trained Sakhi in strengthening the agriculture sector as well as create awareness on agricultural activities and requested to Krishi Sakhi will make available the latest technologies at the door step of farmers Dr. Zaheer Ahamed, Scientist (Plant Pathology) explained about role, mandates, purpose and also explained

criteria, process, roles and responsibility of Krishi Sakhi. Dr. Shreenivas, B. V, Master Trainer for Natural Farming presented overview of the training program and Introduction to Natural Farming-its need, Definition, Principles, Significance & benefits and Soil health management.

Dr. Yusufali, Scientist (Agronomy) welcomed and Dr. Shreenivas B. V, Scientist (Soil Science) thanked the guests. Dr. Sanmati Nayak A.T.S, Scientist (Horticulture), Nagaraj, Vijayanand, Ashwini Young Professional, NRLM, Zilla Panchayat, Kalaburagi, Mahesh Hugar, Nagindra Badadali, Shashikala Mulage and Usha Pawar and 35 Krishi Sakhi were participated.



ICAR KVK Kalaburagi-II



Plantation at KVK Kalaburagi-2 farm and farmers field

On the occasion of ICAR Foundation Day, ICAR-KVK Kalaburagi-II (Raddewadagi) planted various tree species such as mango, sapota, jam, and fig in farm. The main goal is to build a 'Fruit Basket' orchard/farm as a climate resilient horticulture orchard as a

demonstration block. Dr. Chethan, T. Scientist (Horticulture), Dr. Chandrakant, Scientist (Soil Science), Dr. Mallappa, Scientist (Agronomy) and other non-technical staff members took part in the event. Similarly, mango plantation was carried out on a farmer's field. Dr. Vasudev Naik, Senior Scientist and Head participated in the ceremony with the farmers.





ICAR KVK Kalaburagi-II



A training program on "Plant Propagation and Nursery Management in Horticulture" was held at ICAR-KVK, Kalaburagi-02, for candidates from the Schedule caste. Dr. P Vasudev Naik, Senior Scientist & Head, ICAR-KVK, Kalaburagi-02 (Raddewadagi), welcomed the participants, and Dr. Raju Teggalli, Senior Scientist & Head, ICAR-KVK, Kalaburagi-01, gave the keynote addresses. Sri. Santhosh Inamdar, SADH, Department of Horticulture, Kalaburagi, and Sri. Siddanna Anabi, Deputy Director, ZP, Yadagiri, are the ones kicking off this celebration. Sri. Ramesh A. Mahindrakar, Horticulture expert & Social activist as a resource person, and Dr. M. M. Dhanoji, Dean and campus head, Agriculture College Kalaburagi, gave presidential addresses during the event.

The primary goal of this course is to inspire young people from rural areas to begin their own businesses in commercial horticulture, with a focus on plant propagation, nursery management, and high-tech nursery practices for future self-entrepreneurship. Dr. Mahantesh Jogi spoke about producing high-quality vegetable seedlings, while Dr. P Vasudev Naik discussed plant propagation in horticulture. The "Fruit Basket" orchard/farm of Sri Anantrao Koluru, close to Chincholli Taluka, was visited by trainees and resource persons during an exposure visit to the horticulture training center at Chandrampalli (Kalyan Karnataka Sasya Kashi).





Training on Biocontrol Agents for Plant Protection

KVK Kannur organized a training programme on biocontrol agents for plant protection for lead farmers and staff of LEADS programme of Department of Agriculture Development and Farmers' Welfare in Thaliparamba Block, Kannur district under the project Out scaling of Natural Farming on 29th July 2024. Sri. Satheesh Kumar, Assistant Director of Agriculture Thaliparamba Block inaugurated the training programme under the presidentship of Dr. Jayaraj P., Senior Scientist and Head, KVK.

Dr. Manju K. P., Assistant Professor (Entomology), KVK Kannur handled session

on biocontrol agents for plant protection. She elaborated about the use of biocontrol agents produced in KVK and highlighted the positive results obtained during the trials and demonstrations on various bioproducts during last five years. Farmers shared the field problems faced by them which need immediate attention of KVK scientists. Dr. Jayaraj P. delivered a lecture on nutrient deficiency symptoms and management practices. Smt. Renisha J. M., handled a class on standard operating protocols of major crops in Kannur district. Agricultural officers, agricultural assistants, staff of LEADS programme and lead farmers in the block attended the training programme.





ICAR KVK Kannur

Attracting and Retaining Youth in Agriculture



Training on Mushroom Production

Krishi Vigyan Kendra (KVK) in Kannur hosted a training programme on mushroom production under the ARYA (Attracting and Retaining Youth in Agriculture) initiative on July 10th, 2024. The event was inaugurated by Dr. Jayaraj P., Senior Scientist and Head of KVK Kannur. Dr. Manju K. P., Assistant Professor of Entomology, led an informative session on the fundamentals of mushroom



cultivation, providing participants with a comprehensive understanding of the subject. The training also included a practical session where attendees could gain hands-on experience in mushroom production techniques.

In addition, Dr. Jayaraj P. conducted a discussion on the entrepreneurship opportunities and marketing strategies for mushroom and its products, emphasizing the potential for income generation and business development in this field. The programme aimed to empower participants with the skills and knowledge needed to succeed in mushroom cultivation and related enterprises. Forty five farmers attended the training programme.

Bridges Knowledge and Practice: Visits to ARYA Units

KVK team recently visited Panniyur Agro Nursery to monitor its progress and provide guidance. Entrepreneur Mr. James Michael, who received training under the ARYA programme in nursery management, proudly showcased his thriving nursery. The unit, which specializes in various plant species and saplings, has been generating a monthly



ICAR KVK Kannur

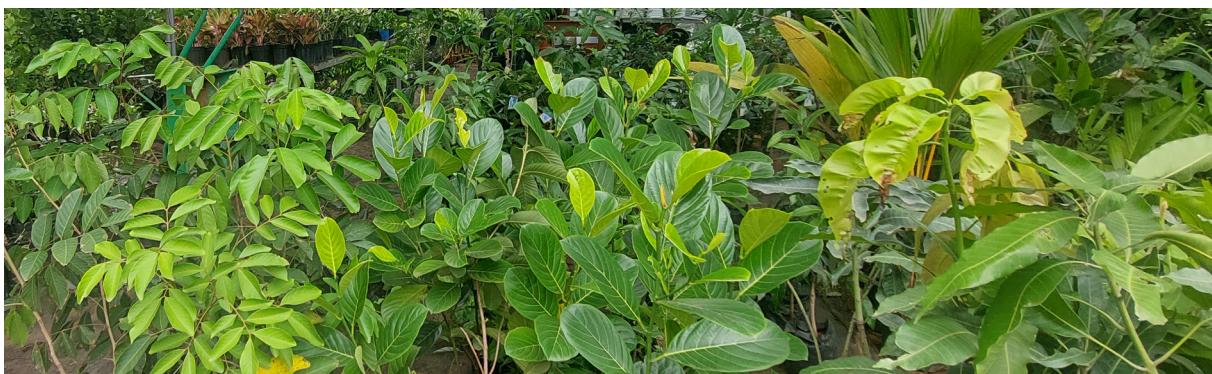


income of around ₹40,000. Dr. Jayaraj P., Senior Scientist and Head commended James on his well-organized nursery layout and efficient management practices. KVK offered suggestions for further diversifying the range of plants and optimizing marketing strategies to enhance sales. The visit highlighted the nursery's potential for growth and the positive impact of the ARYA training on James's entrepreneurial journey.

The monitoring visit to Omega Mushrooms provided an opportunity for KVK to assess the unit's development and offer expert advice. Mrs. Molly Dominic, trained under the ARYA programme in mushroom production and

value addition, has successfully established a branded line of mushrooms. Meticulous cultivation methods and the quality of the produce was impressive. Discussed the ways to scale up production and diversify product offerings, such as incorporating more value-added mushroom products.

The branding and marketing efforts by Mrs. Molly were particularly noted as a strong point, helping to establish a distinct presence in the market. The visit underscored the significance of ongoing support and training in fostering successful agricultural enterprises.



ICAR KVK Kasaragod



Golden Jubilee celebration

KVK- Kasaragod with a successful tenure of 30 years in the service of farmers since 1993 bestowed with the Best Krishi Vigyan Kendra Award for the biennium 2002-2003 at National level for its contributions in the field of Agriculture and allied activities joins with the Nation-wide celebration of Golden Jubilee event marking its existence since 1974 serving the farmers. As a part of this celebration, the

Golden Jubilee torch a symbol of knowledge transfer was received from KVK Kannur on the 19th July 2024. The programme was attended by the Director, CPCRI and 20 extension personals from Kudumbasree, Kasaragod. The torch was further handed over by the Head KVK, Kasaragod to KVK, Dakshina Kannada on 23rd July 2024.



SKILL DEVELOPMENT ACTIVITIES



ICAR KVK Kasaragod



KVK has successfully envisaged in promoting Skilled oriented training by initiating 15 units on Supplementary food products from millets and locally grown grains. Around seven Women Self Help groups of Kasaragod and Kannur District with 35 women have been imparted skill oriented training on Instant dosa, Idli and appam mix. The units have initiated production and marketing in co ordination with Kudumbashree Mission with a monthly profit of Rs 8,000/- . Skill oriented training on Jackfruit value addition under

ODOP, Jasmine cultivation and Scientific Management of Apiary was conducted with 2-3 days duration for around 50 participants. Technologies on scientific dehydration of jackfruit bulbs, seeds ,brining of seeds was demonstrated and around 300 Kgs of Jackfruit has been processed for production of value added products such as bulb powder, seed powder and jackfruit pappad using bio fuel dryers both at on and off campus.



ICAR KVK Kodagu



Cross learning programme between ICAR-KVK, Kodagu and ICAR-KVK, Hirehalli

A cross-learning program was organized for the staff of ICAR-KVK Kodagu at ICAR-KVK Hirehalli on July 29-30, 2024. Dr. N. Loganandhan, Head of KVK Hirehalli, extended a warm welcome to the KVK Kodagu team which was led by Mr. Prabhakara B, Head KVK and engaged with them on ongoing activities, special programs, and infrastructure developments at KVK Hirehalli. Following the welcome, the Kodagu team toured the honey processing unit, KVK laboratories, and demonstration units at both KVK Hirehalli and the Central Horticultural

Experiment Station (CHES). On the second day, the program included a field visit to NICRA village D. Nagenahalli in the Yelerampura Gram Panchayat of Tumakuru District. During this visit, Mr. Mahesh, a progressive farmer, showcased his amla value addition products, which were developed under the guidance of KVK Hirehalli. The team also visited Mr. Lokesh, a natural farming practitioner who grows arecanut and rears silkworms. The exchange of experiences and insights between the two KVK teams led to a productive interaction and enriched knowledge sharing among the staff.



SKILL DEVELOPMENT ACTIVITIES



ICAR KVK Kodagu

Skill training programme on Garden Keeper conducted at ICAR-KVK, Kodagu in collaboration with Agriculture Skill Council of India and ATARI, Bengaluru



A skill training programme for the role of Garden Keeper was conducted at ICAR-Krishi Vigyan Kendra, Gonikoppal, Kodagu district from March 2nd to March 31st, 2023. This initiative was a collaborative effort between the Agriculture Skill Council of India and ATARI, Bengaluru. The programme was inaugurated by Captain Kalimada Rana Najappa, a progressive planter and garden enthusiast, who emphasized the importance of selecting the right plants, choosing suitable sites, and providing proper care through appropriate manuring, watering, and plant protection measures. He highlighted that gardening is a dynamic field offering both personal and professional opportunities. The Chief Guest, M. N. Ramesh, a retired Professor of Horticulture, spoke about the significance of gardening in urban areas and public parks. He shared how gardening had brought him joy, employment, and social recognition. The event was presided over by Sri. K.A. Devaiah, Head In-charge, and

coordinated by Master Trainer Mr. Prabhakar B, SMS (Horticulture).

The course was meticulously designed to cover all aspects of gardening, from initial setup to management, incorporating both on-farm and off-farm skills. Participants gained practical knowledge and hands-on experience in various gardening techniques such as potting, repotting, propagation, watering, weeding, earthing up, seed bed preparation, garden layout, and garden features. The training included theoretical lessons, practical demonstrations, and exposure visits to different gardens, enhancing participants' skills for personal garden development and employment opportunities in local and urban areas. A total of 20 participants, including farmers, farm women, and rural youth, benefited from the 25-day vocational skill training programme.





Celebration of 96th ICAR Foundation day

On the eve of 96th ICAR Foundation day, ICAR-KVK Kolar organised tree plantation drive at Alaganahalli village of Bangarpet taluk on 16.07.2024. The programme was initiated by planting trees and concluded by distributing Drumstick and Curry leaf

saplings to 50 farm women's. The occasion was also marked for spreading awareness among school childrens and rural youth on the needs of planting more trees for our future.



SKILL DEVELOPMENT ACTIVITIES



ICAR KVK Kolar

7 days Skill development training of Garland Maker "Malakar" under "PM Vishwakarma Scheme"

ICAR-KVK Kolar organized 2 batches of 7 days Skill development training of Garland Maker



"Malakar" under "PM Vishwakarma Scheme" from 28th December, 2023 to 3rd January, 2024 and 6th Feb 2024 to 12th Feb 2024. The participants were trained for preparation of garlands, floral bouquets from grainage cut waste cocoons, various types of Garlands, Bouquets, flower arrangements, veni, etc from fresh flowers and also trained for dry flower techniques for utilizing waste or excess flowers. Dr. M. Vijayendra, Retd Professor from College of Sericulture served as Master Trainer. Dr. Shashidhar K R., Scientist (Sericulture) and Dr. Asha, K.M., Scientist (Horticulture) convened the trainings. A total of 43 farm women's from different parts of Kolar district participated in the programme.

Skill development training program under SCSP

ICAR-KVK Kolar Horticulture Scientist and SCSP programme coordinator Dr. Asha, K.M., organized skill development training on "Biocrafts from Cut Waste Cocoons" under SCSP programme for SC farm women's to improve their livelihood. The training

eventuated from 28.02.2024 to 01.03.2024 involving a total of 21 participants who were successfully trained for preparation of various biocrafts using cut waste cocoons. Prof. Vijayendra, retired professor, College of sericulture, chintamani served as resource person.

Further realising the interests of the trainees, 2 days "Follow up" training was organized considering the previous skill development training of "Biocrafts using cut cocoons" under SCSP programme from 25th to 26th March 2024 to further ameliorate the skills in biocrafts preparation from cut waste cocoon and for promoting entrepreneurship development among the farm women.

Six days Residential Training program for "Pashu Sakhis"

ICAR-KVK Kolar and Department of Animal husbandry & veterinary Sciences, Kolar organized 7 batches of six days Residential Training program during 2024-25 for "Pashu Sakhis" .



During the training programme noteworthy attendees included Deputy Directors Dr. G.T. Ramaiya and Dr. R.T. Patil, APDO Govind Gowda, PDO Ravindra, Dr. Shivanand Hongal, SS&H



ICAR KVK Kolar



alongside esteemed officials from the Animal Husbandry Department in Kolar district. Dr. Vijay Kumar Patil, and Dr. Veena, senior veterinary officers, Dr. Trimuthy Naik, Assistant Director KGF, Dr. Anuradha, Assistant Director Mulbagilu, Dr. Sudarshan, Assistant Director Karnataka Sheep and Wool Development Corporation Ltd. Kolar, Dr. Vishwanath, Veterinary Officer were participated as resource persons. KVK Scientists Dr. Manjunath Reddy T.B, Scientist (Plant Protection), Dr. Shashidhar K.R., Scientist (Sericulture) and Dr. Asha K.M., Scientist (Horticulture) participated alongside.

The event culminated with the distribution of training certificates to 220 trainees who successfully completed Module-I, II, III at KVK Kolar. Dr. Anil Kumar, Scientist (Soil Science) co-ordinated the programme and participated as resource person and delivered lecture on the importance of fodder crops in animal husbandry and created awareness about the conservation of honeybees during the occasion of "World Honeybee Day, May 20th, 2024".





Handhold Gandhibhavan's initiative for "Safe to eat" food

Gandhibhavan, the largest secular joint family in Asia, registered non-government organisation which is dedicated to the destitute of beings from infants to well-aged senior citizens who are really abandoned.

The beauty of equality, secularism, and peaceful coexistence is commendable. Their new initiative for safe food production through vegetable and banana cultivation has gained significant attention and is being

supported by Krishi Vigyan Kendra, Kollam, through technology backstopping. Moreover, horticulture activities enhance the physical, mental, and spiritual well-being of the inmates. By caring for the plants, the inmates gain health benefits. In light of this, the



authorities cultivate vegetables such as okra, chili, yard-long beans, brinjal, and bottle gourd, as well as flowering plants like marigold and bachelor's button. They traditionally served food to inmates on banana leaves, so they cultivate bananas for both fruit and leaf production. Krishi Vigyan Kendra (KVK), Kollam, has been handholding

Gandhibhavan through frontline demonstrations, including integrated crop management in bananas, the use of cashew nut shell liquid for managing sucking pests in yard-long beans, and cultivating bananas specifically for leaf production.

Gandhibhavan's commitment to safe food production is further supported by the organic inputs and technologies

provided by KVK Kollam. Gandhibhavan operates a special school alongside its old age homes. Motivational programs such as nutri-gardens for the differently-abled children are in pipeline.



ICAR KVK Kollam



SKILL DEVELOPMENT PROGRAMME

ICAR-Krishi Vigyan Kendra (KVK) Kollam has established a reputation for its comprehensive capacity development programmes, aimed at enhancing the agricultural skills and knowledge of farmers, rural youth, and extension workers. Over the past decade (2014-2024), KVK Kollam has conducted 161 skill development activities, engaging 1,798 participants.

Vocational Programs

KVK Kollam has held 96 vocational programs, engaging 835 participants. These programs cover practical and technical skills, boosting

employability and entrepreneurship. Topics include mushroom and spawn production, value addition, organic production, nursery management, and mechanization.

STRY (Skill Training of Rural Youth):

The Skill Training of Rural Youth (STRY) initiative included 2 programmes on nursery management with 43 participants, aimed at empowering rural youth with essential agricultural skills for profitable agricultural endeavours.

Karma Sena: KVK Kollam organized 11 capacity-building programmes under



SKILL DEVELOPMENT ACTIVITIES



ICAR KVK Kollam



the Karma Sena scheme, involving 263 participants. This initiative trains groups of agricultural workers in farm mechanisation, nursery management and preparation of botanicals, enhancing farm productivity and creating employment opportunities in rural areas.

ASCI (Agriculture Skill Council of India): Four skill development programs under ASCI involving 88 participants in job roles of nursery worker and vermicomposting organized at KVK. These programs standardize and certify agricultural skills to meet industry standards.

Certificate Course on Integrated Nutrient Management (INM): KVK Kollam conducted 10 programmes in collaboration with Central Training Institute, KAU, with 169 participants. This course provides vital

knowledge on soil health and nutrient management for sustainable agriculture.

DAESI (Diploma in Agricultural Extension Services for Input Dealers): Three programs under DAESI involved 104 participants, enhancing input dealers' knowledge to offer superior advisory services to farmers.

Sponsored Skill Development Programs: Additionally, KVK Kollam organized 35 sponsored skill development programs, attracting 296 participants. These programmes addressed local agricultural needs and innovations, tackling specific challenges faced by the farming community in Kollam.





Participation in Ayurgram-2 programme

Proper nutrition helps keep energy levels up and protects against many age-related illnesses and diseases like heart disease, cancer, and diabetes. Sri Jagdhgurugavisiddeshwar ayurvedamedical college and hospital koppal organised nutrition education programme in ayurgrama-2 programme in gondbal village koppal taluk on 24.7.2024. The programme inaugurated by senior faculty member Dr.Prabhu by watering the plants and he narrated the use of medicinal plants in daily life. Dr. Kavitha Y Ullikashi Scientist (Home Science) explained the role of millet in management of diabetes. She also demonstrated the preparation of diabetes mix in the programme. More than 80 rural women were participated in the programme,

Participation in machine transplanting of rice training programme

Traditional rice transplanting is water, energy, labour, and capital-intensive, causing sustainability challenges like diminishing subsurface water table, soil health, and

escalating greenhouse gas emissions that contribute to global warming. Labor shortages during transplanting occur due to agricultural workers moving to cities for better pay. Low plant density under the traditional transplanting method forces farmers to use more inputs viz. fertilizers and pesticides, which raises cultivation costs and lowers grain output. Under these conditions, rice transplanting must be cheap and labour-saving without compromising potential grain yield. Mechanical transplanting of rice (MTR) improves crop production and ensures timely transplanting. Mechanical rice transplanting is profitable and simple. SKDRDP and KSDA Koppal organised machine transplanting rice in mushtur village, Gangavathi taluk,Koppal district on 30.7.2024.The programme was inaugurated by the Dr. Rudreshappa JDA, Koppal by lighting lamp and explained the different programmes of the agriculture department. Dr Raghvendra Yaligar Senior scientist and Head ,ICAR KVK Koppal explained the benefit of the machine transplanting in rice and



ICAR KVK Koppal

advised the farmers to adopt this method to get better profit. Dr Prakash Rao director SKDRDP different programmes of SKDRDP for the farmers. Sri Sheshgiri rao progressive farmer mushtur village shared his experience of using mechanical transplanting in rice. More than 200 farmers were benefitted from the programme.

Celebration of 96th ICAR foundation day

ICAR KVK Koppal organised 96th ICAR foundation day programme in chikkavenkalkunta village Koppal taluk on 16.7.2024. The programme was inaugurated by Dr Raghvendra Yaligar Senior scientist and Head, ICAR KVK Koppal and explained different technologies of the ICAR. He also explained different programmes conducted in the kvk. Dr Jyothi .R Scientist (Horticulture) explained different new hybrids and varieties of vegetables and fruits and their cultivating practices . Dr Revathi Scientist (Plant pathology) explained different IDM practices of kharif crops. Different horticulture saplings were distributed to farmers. About 40 farmers were participated in the programme.

Bimonthly meeting

ICAR KVK Koppal along with KSDA Koppal organised bimonthly meeting for agriculture officers for kharif season on 15 .7.2024. The meeting was inaugurated by honourable vice chancellor UAS, Raichur Dr Hanumanthappa by watering the plant. In his inaugural speech he suggested to adopt new university technologies to increase profit of the farming community. He also suggested to timely monitor of the seasonal pest diseases of agricultural crops with the assistance of the KVK scientist. Dr Kurbar Assist director of extension explained the different technologies of the UASR. Dr. Rudreshappa JDA, Koppal explained about different crop rotation to reduce the salinity area. Dr Parmesh Scientist (plant pathology) explained the different disease of paddy and management practices. Dr Raghvendra Yaligar Senior scientist and Head ,ICAR KVK Koppal explained the pest and disease management of kharif crops. More than 30 agriculture officers participated in the meeting.



NABARD Project on IPDM in Coconut

KVK Kottayam conducted two capacity building trainings and distributed inputs under the NABARD sponsored project titled "Comprehensive management of pests and diseases of coconut in Kottayam district". The integrated management practices of major insect pests and diseases of coconut like red palm weevil, rhinoceros beetle and the bud rot disease were dealt in the training session. The bioinputs for the management of diseases in coconut like trichoderma cake,

trichoderma enriched goat manure and talc formulation of trichoderma were distributed to the beneficiaries. Five hundred and sixty two farmers from six panchayats under Pampady block attended the programme. KVK Programme Co-ordinator and three subject matter specialists, NABARD district manager and Officials from agriculture department were attended the programme.





ICAR KVK Kottayam



Skill Development Programme for Rural Youth under PMFME Scheme

KVK Kottayam conducted a skill development training programme at Pala on 27.7.2024 to impart technical skills on value addition aspects of exotic fruits in convergence with district industry development office of the district. One

hundred and twelve farmers attended the training of which 78 were women. Guidelines were provided for starting of enterprises of value added products including financial support from various agencies.



ICAR KVK Kozhikode



ICAR Foundation day celebration

The programme of online viewing of ICAR foundation day was attended by KVK staff and general public at KVK conference hall. On the day, a total 100 seedlings including plants

like Ashoka, Arecanut, Curry leaf, mango, jungle jilabee etc. were planted at Peruvannamuzhi dam site garden, two schools at Perambra block and four farmer fields.





ICAR KVK Kozhikode



Capacity development programme on Textile and Garment making

One Capacity development programme on Textile and Garment making on was conducted from 13.06.2024 to 25.07.2024 for rural women at KVK. The main focus of the training programme was to impart skill to design the garments. The training sessions included handworks, embroidery works, kid's

wears -raglan, sabla, school uniform pinafore, ladies wears, farm related apparels and bag making. On the last day of the training, display of self-designed garments were also arranged. Seventeen women attended in the training programme. The programme was led by Ms. Deepthi. A (SMS, Home science).



ICAR KVK Lakshadweep



Survey towards Developing new Interventions in Nutri gardens of Lakshadweep

KVK-Lakshadweep has been implementing and supporting nutri gardens in all the 10 inhabited islands. There has been a request from the UT administration of Lakshadweep for the promotion of vegetable and fruit cultivation in the island since 2021. ICAR-IIHR has been working with KVK for promotion of vegetables and fruits in the islands by providing quality seed, capacity building initiatives and advisory services. ICAR-CMFRI, the host institute of KVK provided funds from TSP to promote nutri gardens. It is worth mentioning that ICAR-ATARI, Bangalore supported this initiative in a larger extent in networking with ICAR-IIHR and funding from other agencies. More than 2000 households were benefitted by with quality seeds and critical inputs during 2023-24. The Department of Agriculture and KVK closely

worked to distribute the seeds to the 10 islands (2021-22, 2022-23, 2023-24). Like the past few years in few islands, nursery was established and seedlings were provided and in other cases seeds were directly provided (10 type of vegetable seeds were provided). Recommendations of KVK for selection of vegetable varieties in the island has been recognized and continued since 2021. A weeklong survey involving 100 households has been initiated and lead by Dr. Ansul and Dr. Abhishek Das, the newly joined Subject Matter Specialists of KVK-Lakshadweep. The study intended to understand the nutri garden promoted by KVK and Department of Agriculture in Kavaratti Islands. The study has been designed towards KVK to identify further interventions to be proposed and implemented.





ICAR KVK Lakshadweep



100 Coconut Climbers and Machines

KVK of Lakshadweep identified the shortfall of coconut climbers in the island. The island has 10.42 lakh coconut palms and majority of the harvesting is performed by climbers who migrate from Kerala. Each and every farmer/household hires these climbers for harvesting. The influx of coconut climbers from mainland has increased gradually in the island. These climbers find employment opportunity in the island when youth and labour say that they are unemployed. It is an accepted fact that the youth and labour is in search for avenues for employment in the islands. Agriculture and fisheries are the two important resources that can provide employment opportunities to the islanders. Identifying these issues the KVK worked with Coconut Development, Kochi and approached for funding. The board was ready to support the KVK by approving a skill development training "Friends of Coconut Tree (FOCT)"- the most popular six day training across the country. With this support and funding KVK organized five 6 day training in Kavaratti, Agatti, Amini, Androth and Kadmat islands under the initiative "100 Coconut Climbers and Machines". In each island 20 youth were selected for attending the training. The pedagogy of the training included both theory and practical modules covering all management aspects of

Coconut. The intended activity was towards developing these youth as the para technicians for providing extension advisory services to the farmers apart from coconut climbing. The youth were trained on using the coconut climbing machines on all days of the training. The trainings ended with a competition on climbing trees with the machines. Under this initiative KVK developed 100 climbers by providing coconut climbing machines on free of cost towards by owning a machine. The KVK invested the funds of Coconut Development Board and worked on this important skill Development. KVK is supporting the climbers with refresher trainings.





Capacity Development Sessions for Tribal community

Capacity development programme was arranged for tribal community at Chokkad Panchayath hall in Kalikavu Block. The sessions included (1) Relevance of nutrigarden and various steps in making and maintenance of Nutrigarden in tribal hamlets, by Dr. Lilia Baby, SMS community science, (2) Cultivation practices with emphasis on soil health management, by Akhilraj BC, SMS horticulture and (3) hands on practice on the usage of various different agricultural equipments, by Technical manager of STIHL manufacturing company, Pvt. Ltd. The sessions were attended 80 tribal people belonging to three panchayaths in Kalikavu block.

Scientific Vegetable Cultivation Class for SC Farmers

In a significant initiative to empower Scheduled Caste (SC) farmers with advanced agricultural techniques, Nannambra Krishibhavan, under the Parappanagandi block, conducted an enlightening class on scientific vegetable cultivation. The session, aimed at enhancing the productivity and profitability of vegetable farming, was led by Dr. Akhilraj, Subject Matter Specialist (SMS) in Horticulture at the ICAR-Krishi Vigyan Kendra (KVK) Malappuram. The training session witnessed enthusiastic participation from SC farmers across the region, eager to learn and implement modern horticultural practices. Dr. Akhilraj delivered presentation on various aspects of scientific vegetable cultivation.

The topics ranged from soil preparation, selection of high-yielding vegetable varieties, pest and disease management, to the efficient use of fertilizers and irrigation techniques. Farmers who attended the session expressed their gratitude and optimism, with many planning to implement the new techniques in their farms. The success of this training program has set a positive precedent for future initiatives aimed at empowering the farming community in Malappuram.

Poultry cages and coconut climbers distributed to SC farmers

As part of the SC SP programme 2024-25, selected SC farmers were provided with poultry cages, as a venture to promote backyard poultry rearing. Prior to the distribution, capacity development session was organized for the selected beneficiaries covering various aspects of backyard poultry rearing. A total of 16 wooden poultry cages were distributed to beneficiaries predominantly women and elderly, in a programme arranged at KVK under the leadership of Dr. Priya G Nair. Eight youth already trained to use were provided with coconut climber as a means to enhance livelihood for SC youth and ensure better service availability for farmers cultivating coconut in the locality.

SKILL DEVELOPMENT ACTIVITIES



ICAR KVK Malappuram

The Attracting and Retaining Youth in Agriculture (ARYA) scheme, implemented by Krishi Vigyan Kendra (KVK) Malappuram and launched in 2020, is dedicated to empowering young individuals in agriculture. The scheme focuses on providing specialized training in Nursery Management and Value Addition of Fruits and Vegetables, aimed at equipping youth with essential skills for sustainable agricultural practices and fostering entrepreneurship.

The training provided under the ARYA scheme is comprehensive, covering a wide array of topics in both nursery management and value addition. In nursery management, participants gain insights into the introduction and establishment of nurseries, including understanding different types, structures, components, and registration procedures. They learn about preparing organic media for potting, plant propagation methods such as cuttings and layering, and advanced nursery management techniques. The training also covers pest and disease management, setting up home gardens, and lawn care, alongside marketing strategies and organic inputs production.

In the area of value addition, the training addresses various techniques to enhance the value of produce, including methods of preservation, dehydration, and packaging. Specific areas of focus include osmotic dehydration, post-harvest handling, and adherence to food safety standards (FSSAI). Practical sessions include the processing and value addition of crops such as banana, coconut, and tapioca, with hands-on training in producing items like jams, squashes, sauces, pickles, snacks and pasta. Additionally, the training includes guidance on establishing small-scale processing units and fostering agricultural entrepreneurship.

Training Programmes

Over the past four fiscal years, Krishi Vigyan Kendra Malappuram has made significant strides in agricultural entrepreneurship through its ICAR ARYA programme. In the year 2020-21, KVK conducted two nursery management training programs for 45 youths, leading to the establishment of new enterprises. Additionally, four processing and value addition programmes were held for 105 youths, enhancing practical skills and product quality. The following year, 2021-22, continued efforts were done with



two nursery management sessions reaching 35 youths. Three processing and value addition programmes were expanded to 166 youths, reflecting increasing interest and demand.

In 2022-23, the focus shifted to a specialized nursery management training for 15 youths, while processing and value addition programmes continued to deepen participants' skills. In the year 2023-24 conducted a large-scale nursery management programme for 80 youths and additional processing training for 40 youths. Overall, the ARYA programme has successfully trained nearly 200 youths in nursery

SKILL DEVELOPMENT ACTIVITIES



ICAR KVK Malappuram



management and 300 in value addition, leading to the establishment of 10 nursery units and 7 value addition units across Malappuram district. This ongoing initiative highlights the programme's commitment to skill development, youth-led enterprises, and collaboration with development departments and financial institutions to maximize socio-economic impact.

The financial assistance from the ARYA programme significantly supported the acquisition of essential equipment for product making, processing, and storage.

Technical Collaborations

KVK has partnered with DIC Malappuram, the Food Safety Commissioner, Kudumbashree Mission, and various academic and research institutions. These collaborations enhance the quality and reach of training programmes, ensuring they are comprehensive and aligned with industry standards.

Training materials and exposure visits

Under the ARYA programme, comprehensive training materials and

subject-specific resources were provided to enhance participants' learning experiences. For Nursery Management Training, participants received vegetable seed packets, micronutrient mixtures, and the detailed handbook "Nursery Nirmanam," all fully funded by the ARYA project. In the Value Addition Training, participants were equipped with in-depth manuals on value addition, titled "Kaarshika Vilakalude Samskaranavum Moolya Vardhana Saadhyadakalum," also entirely funded by the ARYA project. These resources were integral to delivering specialized knowledge and practical skills, significantly contributing to the participants' development in agricultural entrepreneurship.

The ARYA scheme actively collaborates with local communities and educational institutions to foster sustainable livelihoods and drive economic growth. Participants in the programme benefit from exposure visits to the advanced training centres of Kerala Agricultural University (KAU), such as Hi-Tech Horticulture, ATIC, ARS Anakkayam, Agri Business Incubator, Banana Research Station, Cocoa Research Station, and Cashew Research Station. These visits provide valuable insights and enhance learning opportunities. Through these efforts, the ARYA scheme at KVK Malappuram plays a pivotal role in nurturing the next generation of agricultural entrepreneurs, significantly contributing to the development of the agricultural sector and the broader socio-economic landscape of the Malappuram district.



Method demonstration on soil sampling and seed treatment

ICAR Krishi Vigyana Kendra, VC Farm, Mandya conducted method demonstration on soil sampling technique and Seed treatment in paddy at Hittanahalli village of Malavalli taluk on 30th July under SCSP Scheme to emphasize on adoption of simple cost effective techniques to attain sustainability in farming as the soil is deteriorating and crops are more prone to pest and diseases due to global warming. Dr.Atheefa Munawerry, Scientist (Soil Science) emphasized about importance of soil health management to reap rich harvest and demonstrated soil sampling technique for soil test. Further,

Dr.Pavithra, Scientist (Plant Protection) highlighted the importance of seed treatment in plant disease management. Method demonstration on seed treatment in paddy was carried out as an effective method to manage major diseases during initial crop growth stage. Dr.Mahesha H. M., Senior technical officer, appealed the farmers to adopt integrated approach for establishment of farming system and in addition to adopt integrated nutrient and pest and disease management.





ICAR KVK Mandya



SKILL DEVELOPMENT – A WAY FORWARD FOR STRENGTHENING FARMING COMMUNITY

ICAR-KVK VC Farm, Mandya, has regularly organized skill training programs for farmers from 2020 to 2024, sponsored by MANAGE Hyderabad, Coconut Development Board and Agriculture Skill Council of India. These programs focused on enhancing various skill areas crucial for modern farming. Nine entrepreneurial skill development trainings, each lasting six days, covered topics such as processing and value addition in agricultural produce, new technologies in sericulture, the production technology, usage, and importance of organic manures, liquid fertilizers, and bio-agents in agriculture, advanced horticulture crop production in poly houses, nursery management techniques, improved mulberry cultivation and silkworm rearing technologies, beekeeping technologies, the use and preparation of

organic manures and liquid fertilizers for soil health, propagation and nursery management techniques in horticulture crops, and integrated farming systems for sustainable income. Conducted in collaboration with the National Institute of Agriculture Extension Management (MANAGE) Hyderabad, these trainings benefited 135 farmers. Additionally, two intensive 21-day skill development training were conducted for mushroom growers and organic growers in collaboration with the Agriculture Skill Council of India, covering 40 farmers. These programs provided hands-on experience, enabling participants to confidently manage and adopt new technologies. As a result, several trainees have emerged as entrepreneurs, successfully adopting improved technologies to earn their livelihoods and paving the way for youth to achieve sustainability in agriculture.



ICAR 96th foundation day celebration

ICAR JSS KVK Suttur, Mysuru celebrated the 96th ICAR foundation day at KVK campus, on this day KVK supplied more than 300 free fruit plants like, Jamun, Custard apple and Guava to farmers, school students and visitors and planted different types of horticulture crops in farmer's field and also in the KVK campus.

Visit to NRCB Trichy and NIFTEM Thanjavur

ICAR JSS KVK Suttur, Mysuru Senior scientist and Head, SMS Horticulture and Plant protection were visited the National research centre for Banana, Tiruchy, and discussed about the good agricultural practices in Banana and various challenges in Banana production with special emphasizes to co`nservation of Nanjangud Rasabale and management of Fusarium wilt in Nanjangud Rasabale. Then visited the research labs, tissue culture unit, Research fields etc. Also visited to National Institute of Food Technology, Entrepreneurship and Management, Thanjavur. There had a discussion with the Director regarding scope of food processing, value addition and Entrepreneurship development.

ICAR JSS KVK Mysuru organized Capacity

Development program on ragi to SC farmers under SCSP program

ICAR JSS KVK Mysuru organized Capacity Development program on ragi to SC farmers at Kuppya village of T Narasipura taluk on 29th July 2024, Senior scientist and Head briefed about importance of SCSP program and SMS (Agronomy) explained about improved agronomic practices in ragi and high yielding ragi variety KMR-301 important characteristics. Nearly 50 SC farmers participated in the program and provided ragi variety KMR-301 seeds to SC farmers in the village.





ICAR KVK Mysuru



Gardner training under ASCI Skill development program at ICAR JSS KVK Mysuru

ICAR JSS KVK Mysuru organized Gardner training under ASCI Skill development program at KVK training hall. The training program was inaugurated on 23rd February 2023, Mr. Raju, Retired Senior Gardner at Department of Horticulture, State Govt of Karnataka participated as a master trainer in the program. The Gardner training program was scheduled from 22.02.2023 to 18.03.2023 with total time duration 210 hours (Theory: 150 hours, practical: 60 hours).

Dr. Udham Singh Goutam, Deputy Director General, Division of Agricultural Extension, Dr. Rajashree Roy Burman, Assistant Director General (AE), Mr. Devendra Rustagi, Vice president - Agriculture, Common Service Center, e-governance service India Limited Ministry of Electronics and IT, GOI, New Delhi and Dr. V.

Venkatasubramanian, Director, ICAR-ATARI Bengaluru. Dr Mallikarjun B Hanji Chief technical officer ICAR-ATARI Bengaluru and Nodal officer of ICAR JSS KVK Suttur released the Gardner training manual on 13th March at ICAR JSS KVK Suttur Mysuru and distributed to ASCI Gardner trainees.





Vocational training programme on mushroom cultivation

A five day long vocational training programme was conducted at KVK Palakkad from July 22nd to 26th on mushroom cultivation. 34 farmers enthusiastically participated in the programme. The training programme included theory and practical sessions on various aspects of mushroom cultivation, mushroom processing and mushroom spawn production. Dr. Sumiya.K.V., Programme Co-ordinator handled the sessions on mushroom cultivation and spawn production and Dr. Lakshmy,P.S., SMS Home Science handled sessions on mushroom processing. Participants had hands own experience on mushroom substrate sterilization, mushroom bed preparation, mushroom processing and various aspects of spawn production such as media preparation, isolation, inoculation etc. A session was handled by financial literacy counsellor who explained various sources of funding available for starting an enterprise. An experience sharing session was arranged during which participants got a chance to interact with successful mushroom growers.

ICAR foundation day – Tree planting campaign

Tree planting campaigns as well as capacity building programmes were conducted by KVK Palakkad as a part of ICAR foundation day celebration. Tree planting campaign was conducted at Government UP School, Menonpara as well as at farmers' field, Vadakarappathy.. The programme aimed to create awareness among students on healthy food habits and inculcate an interest

towards farming in them. Students actively participated in the discussion and clarified their doubts. Fruit crops were planted in the school compound. Tree planting was also taken up in farmers' field. A capacity building programme on vegetable cultivation was conducted for vegetable farmers of Vadakarappathy. Officials from Vadakarappathy Krishi bhavan also participated in the programme.

Distribution of farm implements to Scheduled caste farmers

Farm implements such as spade, sickle and plastic baskets were distributed to 30 selected farmers belonging to scheduled caste under the scheduled caste sub plan programme of KVK Palakkad. Farmers of Vilayur panchayath were selected for the programme. The implements were distributed to farmers during a programme conducted at Vilayur panchayath office on 29th July. Panchayath president, Smt. Baby Girija inaugurated the programme chaired by Sri. Noufal, Vice president, Vilayur panchayath. Smt. Ashjan, Agricultural officer, Vilayur welcomed the gathering. Dr. Sumiya.K.V., Programme Co-ordinator explained the objectives of the programme to the farmers. She also explained various facilities available at KVK Palakkad for scheduled caste farmers. Sri. Arun, SMS Agronomy, panchayath members, officials from Krishi bhavan and farmers participated in the programme.

SKILL DEVELOPMENT ACTIVITIES



ICAR KVK Palakkad



Krishi Vigyan Kendra Palakkad has made a remarkable impact on the farming community through its diverse skill development trainings over the past three years. One of the key areas of focus has been micro irrigation and irrigation techniques. Through these training sessions, farmers have learned about the installation, maintenance, and benefits of drip and sprinkler systems, enabling them to optimize water resources, achieve better crop yields, and reduce water wastage. In addition, nursery management trainings have equipped farmers with essential skills in seed selection, soil preparation, and pest management. Farmers have been able to produce high-quality seedlings, leading to healthier and more productive crops. KVK Palakkad has also emphasized the production of organic inputs, conducting training sessions on composting, bio-fertilizers, and bio-pesticides. Farmers have learned how to produce and use organic inputs effectively, resulting in healthier soils and crops. Value addition has been a major focus, with training sessions covering packaging, branding, and marketing strategies. Trainings on various food processing has introduced farmers to value-added food production techniques. These sessions have helped farmers to make various value added products, enabling farmers to diversify their income sources and reduce post-harvest losses. Trainings on farm machinery and maintenance has provided farmers with

essential skills in the operation, maintenance, and repair of common agricultural equipment. These sessions have helped farmers optimize the use of machinery, enhancing their productivity and reducing labour costs. Mushroom production trainings has been particularly impactful, providing farmers with knowledge on spawn production, substrate preparation, cultivation techniques, and post-harvest management. Farmers have also gained insights into bee biology, hive management, and honey extraction, which has not only increased honey yields but also enhanced the overall productivity of their crops through improved pollination. In total, KVK Palakkad has conducted 86 skill development trainings over the past three years. These include 17 sessions on micro-irrigation and irrigation with 351 participants, 2 sessions on nursery management with 36 participants, 6 sessions on the production of organic inputs with 307 participants, 38 sessions on value addition with 1,405 participants, 5 sessions on farm machinery and maintenance with 187 participants, 10 sessions on mushroom production with 302 participants and 7 sessions on bee-keeping with 242 participants. In total, these trainings have benefited 2,830 farmers, significantly enhancing their skills, productivity, and economic stability.



ICAR KVK Pathanamthitta



Management Development programme (MDP) for Newly Recruited Senior Scientists and Heads of KVK's

The newly recruited Senior Scientists and Heads of KVKs from Ananthapur, Nalgonda, Dharmapuri, and Nilgiris districts underwent a 10-day Management Development Programme (MDP) at KVK, Pathanamthitta, from July 11th to 20th July 2024. This programme, part of the 2nd Phase of the 9th MDP organized by ICAR-NAARM, aimed to orient the Heads of KVKs regarding the various activities of KVKs. During the programme, the participants were made aware of effective office administration practices, record-keeping and management strategies to enhance the operational efficiency of their respective KVKs. Detailed sessions were conducted on setting up and managing demonstration units, focusing on showcasing innovative agricultural techniques and practices to farmers. The training also covered methodologies for planning and executing on-farm trials (OFT) and front-line demonstrations (FLD), including the selection of appropriate sites, crops, and techniques to ensure maximum impact. To provide practical insights into the implementation of trials and demonstrations, the programme included field visits to various OFT and FLD plots. These visits were integral in offering hands-on experience and understanding of the practical challenges and solutions in the field. Overall, the programme was designed to equip the Heads

of KVKs with the knowledge and skills required to lead their teams effectively and to implement innovative agricultural practices that can benefit the farming community.

Awareness Programme and Share Certificate Distribution for FPO Members

An Awareness Programme was organized for the shareholders of Erathu Farmer Producer Company Limited, an FPO promoted by ICAR-KVK, Pathanamthitta under NABARD-PODF scheme. The event took place on July 23, 2024, at Erathu Panchayat and was inaugurated by Sri. Santhosh Chathanpuzha, President, Erathu Panchayat. Sri. Pradeep Vayala, Chairman, Erathu FPO presided over the programme. The programme aimed to enhance the members' understanding of the FPO's objectives, their roles, and the benefits of their participation. It included sessions on the FPO's structure, member responsibilities, and the advantages of being actively involved. A key highlight was the formal distribution of share certificates, which recognized the members' ownership and commitment to the organization. Sri. Vishnu H Das, DDM, NABARD, Pathanamthitta, Sri. Roshan George, ADA, Adoor Block, Dr. Sindhu Sadanandan, SMS (AE), KVK, Pathanamthitta and Smt. Soumya Shekhar, AO, Erathu Panchat

ICAR KVK Pathanamthitta



spoke during the occasion. This occasion was designed to reinforce the connection between the FPO and its members, promote a sense of ownership, and encourage greater participation in the organization's activities.

Workshop on “Viable Agricultural technologies for Entrepreneurship Development”

ICAR-KVK, Pathanamthitta organized a workshop titled “Viable Agricultural Technologies for Entrepreneurship Development in collaboration with AkilabhartiyaAyyappaSevashramam at ShabariDyan Goshala, Vadasserikkara. The workshop was specifically designed for the Scheduled Caste (SC) population, aiming to provide them with knowledge and skills in agricultural technologies that can shoot

entrepreneurial growth. The program sought to empower SC communities by offering insights into innovative and practical agricultural practices that could enhance their economic prospects and promote sustainable livelihoods. The Workshop was inaugurated by Dr. C.P. Robert, Senior Scientist and Head, ICAR-KVK, Pathanamthitta. The technical sessions were led by Dr. Vinod Mathew, SMS (Agronomy), Dr. Shana Harshan, SMS (Home Science) and Dr. Rincy K Abraham, SMS (Horticulture).





ICAR KVK Pathanamthitta



Transforming Agriculture: The Role of ARYA in Empowering Rural Youth and Fostering Sustainable Development"

Recognizing the significance of rural youth in fostering agricultural development and ensuring livelihood security, the Indian Council of Agricultural Research (ICAR), under the Government of India, launched the "Attracting and Retaining Youth in Agriculture (ARYA)" project in 2015-16.

The ARYA project aims to engage rural youth under the age of 35 in agriculture by providing income-generating opportunities and training initiatives. In 2019, the project was initiated at ICAR-Krishi Vigyan Kendra (KVK), CARD Pathanamthitta, focusing on four key enterprises: honey production, nursery management, value addition and processing, and Poultry. By offering specialized training, resources, and support, ARYA empowered young individuals to embark on successful ventures within the agricultural sector. These initiatives not only addressed the challenges of rural unemployment and migration but also injected fresh ideas, technologies, and energy into agriculture.

Continued support and expansion of programs like ARYA are essential to harness the untapped potential of youth

in agriculture and drive the much-needed transformation of India's agricultural landscape. As a result of skill development trainings, field visits, and capacity development programs conducted under the ARYA project, in last 5 years 130 youths (15 % of total trained youths) have embarked on their entrepreneurial journeys in the selected enterprises. These motivated individuals have established enterprises, serving as inspiring role models for other youths. Through their successful ventures, they showcase the potential of agri-based enterprises and contribute to the overall growth of the agricultural community. Additionally, these oriented youth





The Indian Council of Agricultural Research (ICAR) Foundation Day marks a significant event in the Indian agricultural calendar. On this auspicious occasion, ICAR-KVK Raichur organized a special event in Purthipli village, Raichur District, Karnataka to celebrate the day with a focus on promoting sustainable agriculture and environmental conservation.

Our main moto was to celebrate ICAR Foundation Day by engaging with the local community, to promote environmental conservation through the planting and distribution of seedlings and to educate and encourage farmers and villagers about the importance of tree plantation for sustainable agriculture.

The ICAR Foundation Day event was marked by the presence of esteemed professionals from ICAR-KVK, Raichur. Dr. Hanumanthappa shrihari, Senior Scientist & Head, ICAR-Krishi Vigyan Kendra, Raichur. Dr. J. M. Nidagundi, the Head of AICRP Cotton at MARS, Raichur, attended the event, bringing his extensive expertise in cotton research. Dr. Shreevani G. N., Scientist specializing in Entomology at ICAR-Krishi Vigyan Kendra, Raichur, was also present, contributing her knowledge in pest management. Additionally, Dr. Umesh Babu B.S. and Dr. Sangeet, both serving as Young Professionals at ICAR-Krishi Vigyan Kendra, Raichur, participated in the event. Their presence underscored the collaborative spirit and commitment to advancing agricultural research and development.

Dr. Hanumanthappa shrihari, Senior Scientist & Head, ICAR-Krishi Vigyan Kendra, Raichur, delivered an inspiring speech on the occasion of ICAR Foundation Day, emphasizing the crucial role of ICAR in advancing agricultural research and development in India. He highlighted the significance of environmental conservation through tree plantation, noting its impact on combating climate change, improving air quality, and maintaining ecological balance. He assured the local farmers of KVK's ongoing support and encouraged them to adopt sustainable agricultural practices to enhance their productivity and income. He expressed gratitude for the enthusiastic participation of the villagers, school children, and local leaders, urging them to take collective responsibility for nurturing the planted seedlings and preserving the green cover in their village. His words motivated the community to continue their efforts in environmental stewardship and sustainable agriculture, reinforcing the importance of such initiatives for the well-being of future generations.

On this momentous day, participants engaged in the distribution and planting of seedlings, symbolizing a commitment to sustainability and environmental conservation. This activity not only emphasized the importance of nurturing the

ICAR KVK Raichur



environment but also demonstrated the practical steps that can be taken towards achieving a greener future. The planting of seedlings served as a hands-on educational experience, fostering a sense of responsibility and connection to nature among all attendees. This initiative was a testament to ICAR's dedication to promoting sustainable agricultural practices and enhancing the green cover, furthering their mission of advancing agricultural productivity and sustainability.

KVK Raichur distributed a variety of seedlings to the farmers and residents of Purthipli village. The seedlings included fruit-bearing plants, timber trees, and ornamental plants. This initiative aimed to support the local farmers by providing them with resources to diversify their crops and enhance their agricultural productivity. In addition to the distribution, a tree plantation drive was conducted. The KVK team, along with local farmers, villagers, and school children, actively participated in planting the seedlings in various designated areas of the village. The plantation drive was guided by agricultural experts from KVK, who provided insights on the best practices for planting and nurturing the seedlings.

The event saw enthusiastic participation from the local community, including farmers, villagers, school children, and local leaders. The collaborative effort highlighted the importance of community

involvement in agricultural and environmental initiatives. The villagers were educated on the benefits of tree plantation, such as improved air quality, enhanced soil fertility, and increased biodiversity.

The celebration of ICAR Foundation Day by KVK Raichur at Purthipli village was a successful and impactful event. Through the donation and planting of seedlings, KVK Raichur not only promoted sustainable agricultural practices but also reinforced the importance of environmental stewardship among the local community. This event serves as a model for similar initiatives in other regions, demonstrating the positive outcomes of community involvement in agricultural and environmental conservation efforts.

KVK Raichur extends its gratitude to the local community of Purthipli village, the participating farmers, school children, and local leaders for their active participation and support in making this event a success. Special thanks to the ICAR for their continuous support and guidance in promoting sustainable agriculture across the country.

ICAR KVK Ramanagara



Natural Farming training for Krishi Sakhi”

ICAR-KVK Ramanagara in collaboration with NRLM, Sanjeevini, Zilla Panchayath Ramanagara and MANAGE Hyderabad organised 5 days training programme on “Natural Farming for Krishi Sakhis”. The programme was inaugurated by lightening the lamp. During this Dr. Lata R. Kulkarni, Senior Scientist and Head addressed the gathering and explained the need of natural farming in the current scenario to reduce the usage of chemical fertilizer and also explained about health and nutrition- importance of dietary diversity, healthy diet plans etc. Mrs. Preethu, D.C., Scientist (Soil Science) explained soil health management, difference between healthy & unhealthy soil; understanding the structure of soil and its sampling methods through demonstrations, learn to read soil health card for understanding the nutritional requirements of the field. Dr. Dinesh, M.S., Scientist (Agronomy) explained the importance of natural farming, its need, definition, principles, significance, benefits, nutrient management in natural farming, water management, integrated farming system & preparation of bio inputs, hands on training on natural farming inputs preparation like Jeevamrita, Ghanajeevamrit, Beejamruta etc.

Dr. Rajendra Prasad, B.S., Scientist (Plant Protection) highlighted identification of Pest & disease in field, integrated pest and disease management and demonstrated the preparation of inputs like neemastra, agniastra & dashparni, preparation and application of yellow sticky traps in fields etc. Dr. Sowjanya, S., Scientist (Agril. Extension) explained about extension method demonstration, farmer’s field schools, farmer group discussions, qualities of para extension professionals & linkages with organizations working for agriculture development etc. Mr. Surendra, progressive farmer explained about seed conservation for natural farming by establishing farmer seed banks; methods of seed treatment in natural farming, visualization of multi-cropping models in fields, ITKs and Multi - Cropping models. Mr. Keshavamurthy, Progressive Farmer shared his experience about natural farming and marketing. Mr. Poornima ROCO, explained about certification and marketing of natural produce. Totally 33 Krishi Sakhis were trained and were benefitted by the training programme.



ICAR KVK Ramanagara



ICAR-KVK Ramanagara is organising skill development and entrepreneurial trainings for removal of disconnect between demand and supply of skilled manpower and building of new skills and innovative thinking in the field of agriculture and allied aspects. In collaboration with Skill council (ASCI), MANAGE Hyderabad, CDB, NABARD and UAS (B) KVK has organised many skill development programmes. In collaboration with Skill council of India KVK Ramanagara has organised 3 Agriculture Skill Council of India (ASCI) training programme on themes mushroom cultivation, tractor maintenance, Micro irrigation maintenance for 25 days covering 60 farmers. Along with National

Institute of Agriculture Extension Management (MANAGE) Hyderabad KVK has organised 06 STRY training for rural youth the identified areas for training are Beekeeping, Goat rearing and management, Protective cultivation of flower, nursery technique and organic farming etc., covering 90 youths. Along with Coconut Development Board KVK has organised one week training programme on Friends of Coconut Tree (FOCT) covering 120 farmers and distributed free Coconut climbers. KVK is also involved in organising skill based trainings like value addition and processing, dairy management, organic



ICAR KVK Ramanagara

farming, integrated farming system, poultry farming, vegetable cultivation, beekeeping, millet processing, natural farming, water conservation methods, integrated pest and disease management etc. The training programme paved the way for the youth to attain sustainability as in training the trainees gained hands on experiences so that they were confident enough to manage and adopt the technology.

Success story of farmers: Prosperous goat farming-

Mr. Vijaykumar, S., resident of Aralakuppe village, Magadi Taluk, in Ramanagara District, owns about 3 acre land which includes his

Goat farm with 40 local goats under stall-fed intensive system of management. After participating in various capacity building programs at KVK Ramanagara, he sold his two cows (less milk yielding) and purchased 20 goats. He modified his goat farm by adopting all scientific practices. He constructed permanent shed, maintaining 85 goats, earning Rs. 4 lakh/year.

Nursery establishment:

Jagadish, N., a post graduate in Nuclear Physics and a resident of Agalakote, Magadi taluk, Ramanagara district, has adopted horticulture out of passion. KVK Ramanagara organized 6 days sponsored (MANAGE Hyderabad – STRY) capacity building programme on “Hi tech Nursery”. Being inspired and motivated by the scientists of KVK, he started horticulture nurseries of his own. He established two nurseries in an area of 30x70 sq mt and 55x75 sq mt., to produce saplings of Vegetables, flowers, fruit plants, Arecanut and Coconut. He established two nurseries, supplying good quality nursery saplings and earning Rs. 4 lakh/ annum.



house and cattle shed and now goat rearing. KVK Ramanagara organised 2 days capacity building programme on “Scientific sheep and Goat farming” in 2019, Being inspired and motivated by the scientists of KVK, he started

ICAR KVK Shivamogga



Honoring the Doubling the Farmers' Income (DFI) scheme beneficiary farmers

This is the golden year celebration for all the KVKs taking the pride of establishing first KVK in the country on 21-03-1974. As a part of Golden jubilee celebration, there are strings of activities planned and celebrated by all. One such activity is recognizing and respecting the achievers and innovators. In the process with hard work of KVKs, motivated contact farmers of the KVK have doubled their income (DFI) during the period 2018-2022. It is our duty to accord recognition and respect such farmers. Therefore, on 15-07-2024, the KVK, Shivamogga honored the DFI farmers of Shivamogga District with a certificate displaying their achievement towards DFI on the back side of the certificate. Totally 15 farmers, one farm-women and a women entrepreneur were honored.

Dr. K. T. Gurumurthy, Director of Extension, Keladi Shivappa Nayaka University of Agricultural and Horticultural Sciences, Shivamogga advised the farmers to have regular contact with Krishi Vigyan Kendra (KVK) to improve farming practices to enhance their livelihood. The KVK being a valuable resource center providing cutting-edge knowledge, training and support to farmers. Further, he said, by keeping in touch with KVK, farmers can have access to latest technologies and innovations in agriculture, receive guidance on best practices for crop management, soil health and water

conservation, skill development through training and capacity-building programs.

Dr. G. K. Girijesh, Senior Scientist and Head, shared his views as, regular contact with KVK will help farmers to increase their crop yields and quality, farm profitability and sustainability, thereby contribute to the growth and development of the agricultural sector. He quoted that, "don't miss this opportunity to transform your farming practices and improve your life, reach out to KVK today and start reaping the benefits!"

During the programme, while sharing their experiences, few DFI farmers expressed their sincere gratitude for the valuable suggestions and guidance provided by the KVK scientists during the course of their achievement. They expressed that, expertise and advice provided by the KVK have been an instrumental in improving their farming practices and enhancing their livelihood. Farmers were thrilled to see the positive impact on their crops and income and a tangible difference in their life and the lives of their family.

Dr. Sanaha, S., Scientist (Agril. Extension), Dr. Anjali, M. C., Scientist (Soil Science) and all the staff of the KVK, Shivamogga were present in the programme.



ICAR KVK Shivamogga



Galaxy A34 5G

ICAR-Krishi Vigyan Kendra, Shivamogga organized 2 days on campus capacity building trainings on Bee Keeping for rural youth on 26-07-2024 and 27-07-2024. The programme was inaugurated by Associate Director of Extension Dr. B.C. Hanumanthaswamy and chaired by Senior Scientist and Head Dr. G. K. Girijesh and associated by Dr. M. Ashok, Scientist (Animal Science), KVK, Shivamogga. The programme was organized by ARYA Nodal Officer and Scientist (Plant Protection) Dr. R. Girish and the training was focused on main problems associated with apiculture are the loss habitat, agrochemicals, pathogens, pests and most importantly climate change. The training enlightened the participants with bee keeping as an occupation that involves nurturing and looking after bees for the

purpose of acquiring bee and bee products like beeswax, honey, royal jelly and pollen. The training also briefed about bee species like Apis Cerana, Apis dorsata, Apis florea and Meliponinae (stingless bees). In two training programmes a total of 91 participants were enlightened their knowledge on Bee keeping. This training under ARYA with context – Bee engaged with youth a group of young rural youth attended the programme which can make a key contribution through increased awareness of the importance of bee that can turn into entrepreneurial engagement as bee keeping.

ICAR KVK Thiruvananthapuram



SCSP Training on Organic Vegetable Cultivation at Nagaroor Panchayath

On July 25, 2024, KVK organized a training on organic vegetable cultivation under the Scheduled Castes Sub-Plan (SCSP) initiative at Nagaroor Panchayath. The training focused on equipping the participants with essential skills and knowledge in sustainable farming practices. The training was inaugurated by the Agricultural Officer, Nagaroor Krishi Bhavan who underscored the significance of the training in promoting organic farming techniques among marginalized communities. The training had 25 participants.

The training has two sessions. First session on field preparation and nutrient management aspects in vegetable cultivation was led by Smt. Manju Thomas, SMS Horticulture and the second session on integrated pest and disease management was led by Smt. Bindhu R Mathews, SMS Plant Protection. The training emphasized practical demonstrations and hands-on activities, ensuring that participants gained firsthand experience in implementing organic

farming practices. Interactive sessions facilitated lively discussions, allowing for the exchange of ideas and experiences among participants and trainers alike.

The collaborative efforts of KVK and Nagaroor Krishibhavan were instrumental in delivering a well-rounded training program that not only imparted technical knowledge but also inspired participants to adopt eco-friendly agricultural practices. The SCSP training on organic vegetable cultivation conducted by KVK at Nagaroor Panchayath stands out as an initiative in promoting sustainable livelihoods and empowering community members with the skills necessary for successful organic farming ventures.

SKILL DEVELOPMENT ACTIVITIES



ICAR KVK Thiruvananthapuram



Entrepreneurship Development in Apiculture Krishi Vigyan Kendra (KVK) has successfully concluded a rigorous 10-month skill-oriented training program in apiculture spanning from 2023 to 2024. This initiative was meticulously crafted to foster entrepreneurial acumen among beekeeping enthusiasts, emphasizing crucial aspects such as colony maintenance, optimal feeding practices, honey harvesting techniques, and the creation of value-added honey products. The program aimed to empower participants with practical expertise and business insights essential for establishing and managing prosperous apiculture ventures.

The comprehensive curriculum commenced with an introduction to the historical significance of apiculture and an exploration of basic bee biology, alongside an overview of various hive types and essential equipment setups during the initial month. Subsequently, the focus shifted to colony maintenance over the second and third months, emphasizing effective hive management and ensuring colony health. Trainees delved into diverse management techniques, strategies for disease and pest control, and seasonal management practices.

The fourth month saw a dedicated focus on colony feeding, where participants gained a deep understanding of the nutritional requirements of bees and honed their skills through hands-on feeding exercises. Months

five and six were dedicated to mastering honey extraction and hive maintenance, equipping participants with comprehensive knowledge and practical abilities in honey cleaning, harvesting, and processing. The curriculum encompassed detailed content on hive maintenance protocols, various honey extraction techniques, and strategies for ensuring honey quality and storage.

Throughout the program, instructional methods blended theoretical knowledge with hands-on learning experiences. Practical workshops on honey extraction, structured cleaning drills, and detailed demonstrations on honey processing techniques enriched the learning process, ensuring participants were well-prepared to enter the apiculture industry as knowledgeable and capable entrepreneurs.

The successful completion of the 10-month training program at KVK marks a significant milestone in preparing participants to contribute effectively to the apiculture sector, equipped with the essential skills and confidence needed to thrive as entrepreneurs in beekeeping.



Training programmes for farmers and youth

Vocational training programme of ten days was conducted for youth. The sessions were aimed at developing practical and technical agricultural skills. It also focused on imparting soft skills among the students and encouraging youth participation in agriculture.

Vegetable and fruit processing training was conducted for farmers across Kerala. Forty-five farmers attended the training program that intended to equip them with entrepreneurial and technical skills that will enable the aspiring or existing entrepreneurs to start or expand their businesses in the agriculture sector

Sessions on commercial floriculture, seed technology, nursery management & plant propagation techniques and plant protection in vegetable crops were conducted for the input dealers of Diploma in

Agricultural Extension Services for Input dealers (DAESI) program

Fruits and vegetables processing training was conducted for differently abled children of St Joseph's special school, Cherur, Thrissur. The design of training programme was intended to develop practical life skills, motor skills, cognitive development, empowerment and confidence building, awareness of health and nutrition, therapeutic benefits and above all preparing them for future opportunities by imparting vocational and entrepreneurial skills.

Training for farmers on nursery management techniques was conducted. The programme dealt with plant propagation methods, its maintenance, media preparation and plant protection measures



ICAR KVK Thrissur



Skill Development Training for Women SC Farmers at KVK Thrissur

Under the auspices of the SCSP (Scheduled Caste Sub Plan) project, KVK Thrissur conducted a comprehensive ten-day skill development training program aimed at empowering women SC farmers in agricultural and allied activities. The training was meticulously designed to equip participants with essential skills ranging from nursery management to advanced agricultural techniques, fostering both economic independence and sustainable agricultural practices within the community.

Nursery Management and Fruit Plant Propagation

A cornerstone of the training was nursery management, encompassing budding, grafting, and layering techniques for fruit plants. Participants gained hands-on experience in media preparation, protray filling, and vegetable seedling production.

Vegetable Cultivation

The program also focused on vegetable cultivation, covering every aspect from land preparation to post-harvest management. Training modules included planting techniques, optimal watering practices, judicious fertilizer application, and integrated pest and disease management strategies. This comprehensive training empowered women trainees to enhance productivity and quality in vegetable production.

Tuber Cultivation and Mushroom Cultivation

Specialized sessions were dedicated to tuber cultivation, providing insights into various management practices essential for successful crop growth. Participants learned techniques tailored to different tuber varieties, optimizing yield and ensuring sustainability in farming practices.

SKILL DEVELOPMENT ACTIVITIES



ICAR KVK Thrissur

Mushroom cultivation, recognized for its nutritional and economic benefits, was also a focal point. The training covered mushroom production processes, from substrate preparation to harvesting techniques. This skill diversification equipped women farmers with an additional avenue for income generation, thereby enhancing household financial stability.

Livestock Management

The program included training on poultry farming, specifically focusing on egg production through effective nursery management, brooding, feeding practices,



and chick management. Such knowledge equips participants to engage in poultry farming as a viable income-generating activity, catering to both local consumption and market demands.

Goat farming, another integral component of the training, highlighted best practices in goat rearing for meat and milk production. Participants were educated on breeding, feeding regimes, and healthcare management, equipping them with the skills to capitalize on the growing demand for goat products in the local market.

Composting Techniques

Emphasizing sustainable agricultural practices, the training encompassed various composting techniques such as vermicomposting, Thumburmuzhi composting, and pipe composting. Participants learned the art of organic waste management, converting agricultural residues and household waste into nutrient-rich soil compost. Such practices not only enrich soil fertility but also promote environmental sustainability by reducing chemical inputs and greenhouse gas emissions. Hands-on training on Trichoderma mass multiplication technique by using mixture of cow dung and neem cake was also included.

Processing techniques

Training on various food processing techniques for value addition was also given including, preparation of pickle, juice, squash, halwa etc, which these women can make in their homes and can serve as a source of income.

Conclusion

The skill development training program conducted by KVK Thrissur under the SCSP project represents a pivotal initiative in empowering women SC farmers. By imparting practical knowledge and skills across diverse agricultural domains, the program not only enhances agricultural productivity and income generation but also fosters self-reliance and sustainable livelihoods within the community. Moving forward, these empowered women farmers are poised to make significant contributions to agricultural development and economic growth in their respective regions.

ICAR KVK Tumkur-1

96th ICAR-Foundation day

ICAR-KVK-Tiptur, Tumkur-1 organized Vanamahotsava on the occasion of 96th ICAR- Foundation Day at Kalammana betta and Kamalapura village of Tiptur and Chikkanayakanahalli taluk. During this programme 850 forest seedlings like Teak, Neem, Pongamia, Mahagani and Tamarind was distributed and planted in community land.



SKILL DEVELOPMENT ACTIVITIES



ICAR KVK Tumkur-1

ICAR-KVK-Tiptur, Tumkur-1 conducted 3 Natural training programmes for Krushi Shaki's from 15-07-2024 to 19-07-2024, 20-07-2024 to 24-07-2024 and 25-07-2024 to 29-07-2024. Govinda Gowda, Senior Scientist and Head, ICAR-KVK, Tiptur inaugurated the programme and briefed about scope and importance of natural farming. Dr. Shivappa Nayak, Scientist (Animal husbandry) briefed about livestock production. Dr. Keerthishankar, K., Scientist (Horticulture) explained about different types of farming system and seed treatment. Dr. Tasmiya Kousar, Scientist (Agronomy) explained the different types of soil, soil and water analysis and soil health card. Mr. Manoj, Scientist (Plant protection) briefed about different biological methods of pest and disease control. Mr. Drashan, M.E., explained about different teaching methods, Certification and roles of KVK



ICAR KVK Tumkuru-II



Visit to ICAR-KVK, Hirehalli, Tumakuru by Deputy Director General (Horticulture), ICAR

On the 20th of July, 2024, ICAR- Krishi Vigyan Kendra (KVK), Hirehalli, had the honour of hosting Dr. Sanjay Kumar Singh, Honourable Deputy Director General (Horticulture Sciences) of the Indian Council of Agricultural Research (ICAR), New Delhi. The visit was graced by the presence of esteemed guests, including Dr. Tusar Kanti Behera, Director of ICAR-IIHR and Dr. M. Sankaran, Head of the Division of Fruit Crops.

During his visit, DDG and Director went around various production units and the state-of-the-art honey testing laboratory at KVK, Hirehalli. He expressed his admiration for the high-quality work being carried out at the centre. Dr. Singh particularly appreciated the innovative approaches and the successful implementation of the revolving fund model, which has significantly contributed to the financial sustainability of the production units.

The visit underscored the commitment of KVK, Hirehalli, to advancing agricultural practices and promoting the welfare of the farming community. DDG's positive feedback and encouragement will undoubtedly inspire the KVK team to continue their excellent work in supporting and enhancing the horticultural sector in the region.

Visit of Ms. Kono Satoko, Delegate from Japan, to ICAR-KVK, Hirehalli

On July 29, 2024, Dr. Loganandhan N., and the team at ICAR-Krishi Vigyan Kendra (KVK), Hirehalli, Tumakuru, had the honour of hosting Ms. Kono Satoko, a distinguished delegate from Japan. This visit marked an important event, reflecting the increasing international interest in the innovative agricultural practices being developed and promoted by KVK.

Ms. Satoko was particularly interested in the natural farming and beekeeping initiatives at KVK. She recognized the immense potential and opportunities for innovation in these areas, highlighting her promise for sustainable agricultural practices. During her visit, Ms. Satoko expressed her keen enthusiasm for collaboration, noting, "Natural farming and beekeeping have significant potential and ample room for innovation."



SKILL DEVELOPMENT ACTIVITIES



ICAR KVK Tumkuru-II



ICAR-Krishi Vigyan Kendra (IIHR) organized a Vocational Training Programme from 20th to 25th February 2023 to develop a professional group of youth for harvesting and plant protection operations in coconut. Sponsored by the Coconut Development Board, Bangalore, the training aimed to address the acute labor shortage faced by coconut farmers. The program began with an inaugural session attended by Dr. Raghu, Deputy Director of Horticulture, Tumakuru, and Dr. N. Loganandhan, Principal Scientist and Head, KVK, Hirehalli.

The training covered various aspects, including horticultural practices, mother palm selection, integrated nutrient and pest management, and financial management courses provided by experts from LIC and NGOs. Practical sessions on palm climbing

were held daily by experienced trainers. On 24th February, participants visited the National Horticulture Fair 2023 at ICAR-IIHR, Bengaluru, where they explored various horticultural technologies.

A coconut climbing competition was held on 25th February, with Mr. Mahesh S. winning the first prize, Mr. Venkatesh Murthy B.S. the second, and Mr. Shivakumar S. the third. The valedictory function on 27th February was graced by Sri G. S. Basavaraju, MP of Tumakuru, along with other dignitaries. Certificates, equipment, and course manuals were distributed to the 20 participants. The event concluded with the formation of a task force to support coconut farmers.





Vanamahotsava – Tree Planting Program

Rotary Club, Barkur in collaboration with ICAR-KVK, Udupi conducted one day program on Vanamahotsava – tree planting program at Barkur of Udupi District, Karnataka. The event was held on 27 July 2024. The ceremony was presided over by Mr. Ganesh Shetty B., President of the Rotary Club of Barkur, and Mr. Prasad Bhat of Anna Poorna Nursery, Petri. Dr. Dhananjaya B., Senior Scientist and Head delivered a talk on the importance of tree planting campaign and how to plant saplings. He emphasized on the 50,000+ campaign of ICAR-ATARI, Bengaluru, Zone XI, to plant over 50,000 saplings of various forest and plantation crop plants in collaboration with all the KVKs under the jurisdiction. The program also marked distribution of 850 numbers of medicinal and fruit-bearing plants along with timber saplings to the guests and invitees.

Training program for Pashu Sakhi and Krishi Sakhi

Sponsored by National Rural Livelihood Mission, Zilla panchayath, Udupi and Government of Karnataka in collaboration

with ICAR – KVK Udupi organized week long training programs of Pashu Sakhis and Krishi Sakhis during the last week of July, 2024. The inaugural session was held on 29th July 2024 at KVK Udupi training hall. Mr. Sakaram Somayaji, Retired officer from National Dairy Development Board, Anand, Gujarat emphasized on natural farming integrated with livestock, animal husbandry and dairying. Presided over by Dr. Lakshmana, Associate Director of Research, Zonal Agriculture and Horticultural Research Station, Brahmavara, concluded that Natural farming coupled with Dairying is need of the hour. Chief Guests, Dr. Reddappa, Deputy Director of Animal Husbandry, Udupi, Dr. Sudhir Kamath, Principal, Diploma College of Agriculture, Brahmavara, Dr. Sandeep, Veterinary Officer, Udupi, Dr. Babanna, Veterinary officer, Kundapura, Dr. Acharya, S., Scientist, KVK, Udupi was present during the ceremony.

SKILL DEVELOPMENT ACTIVITIES



ICAR KVK Udupi



ICAR-KVK, Udupi conducted several skill development programs in Natural Farming for community resource persons – Krishi Sakhis under the schemes of National Rural Livelihood Mission in collaboration with Zilla Panchayath, Udupi, Government of Karnataka. As many as 155 Krishi Sakhis in separate five batches were imparted hands-on skills and practical knowledge on preparation of various natural farming tools such as Jeevamritha, beejamritha, Dashparni ark, Neem Astra and Agni Astras. Various sessions of classes on fundamental

principles and pillars of Natural Farming, disease and pest management in natural farming and nutrient management in natural farming were thoroughly discussed and educated. The skill development trainings also included visit to various local natural farming practicing farmers as an exposure visit. These five days long skill development program helped Krishi Sakhis in enhancing their skills and promote natural farming in their respective panchayaths.



SKILL DEVELOPMENT ACTIVITIES



ICAR KVK Uttara Kannada



ICAR- Krishi Vigyan Kendra Uttara Kannada, Sirsi in collaboration with SCODWES Sirsi organised two days training on Natural farming on 30th and 31st July 2024. Programme was inaugurated by Dr. R. Vasudev Dean (Forestry) COF, Sirsi and highlighted the relevance of natural farming to Uttara Kannada district which comes under Western Ghats. Since the area is rich in biodiversity, majority of the farmers are practicing non chemical measures time immemorable. But the yield aspects, management of nutrients, insect pests and diseases apart from wild life menace are the real challenges for the natural farming. Chief guest Shri. T. H. Nataraj DDA, Sirsi explained the schemes available in Agriculture department related to natural and organic farming. Another chief guest Dr. Venkatesh Naik Executive Director SCODWES, Sirsi expressed that farmers are following unscientific farming practices. In this climate change era, farmers are in need of scientific knowledge on farming under single umbrella. Dr. Yashaswini Sharma Senior Scientist and Head (I/c) gave presidential remarks and suggested to grow vegetables under eco-friendly methods. During this programme,

vegetable seed kits were distributed the participants. Dr. Ranganath G. J. Scientist (Animal Science) presented Vote of Thanks.

During two days technical sessions, theoretical lectures were arranged on principles and practices of natural farming, nutrient management, insect and disease management in paddy and other crops, soil health management, ITK, agronomic practices and success stories/ case studies in the country by KVK scientists. Hand on training sessions were arranged on preparation and use of Jeevamrutha, Beejamrutha, Gokripamrutha, waste decomposers, Ghana jeevamrutha, Vermicompost, vermi wash, usage of bioagents and different composts in natural Farming by Dr. Arjun Sulagitti Scientist (Plant Protection) and Dr. Amit Pujar Scientist (Agronomy). 42 farmers/ farm women from Sirsi and Yellapur taluk participated in the programme.

ICAR KVK Vijayapura-I



Training on Natural farming

A training on skill development (Natural farming) was organised by KVK Vijayapur from 25-29 July 2024 to 30 Krishi Sakhis of Vijayapura district. The trainees were trained on production of Jeevamrutha, Agniashtra, Neemashttra etc. They have also updated with how biofertilizers are purchased

in less and mass multilied and packed. They were asked involved in hands on technology on organic seed treatment and seed health testing. The trinee were sent to exposure visit to suceessful natural farmer's field of Mr. Rajashekhar Reddy and Mr.N.S.Kumbar goat farmer and lime processing unit.



SKILL DEVELOPMENT ACTIVITIES



ICAR KVK Vijayapura-1

ICAR-KVK Vijayapura-1 conducted an on campus 03 days training on "mushroom cultivation and value addition during July 22-24, 2024 in KVK. Dr. Bheemappa., Dean, College of Vijayapura inaugurated the training and Dr. R.B.Belli was the president. Dr. Sreenivas., Prof, Microbiology took a session on importance of mushroom cultivation for sustainable livelihood. Smt.Shweta A. Mannikeri., SMS (Home Science) explained about the different types of mushroom cultivation viz., oyster, button and milky cultivation and scope for processing and value addition of mushroom. On the second day farmers visited mushroom unit in Jumanal village of Vijayapura district. Mr. Veerupakshya Shastrimath, mushroom grower explained and demonstrated the oyster mushroom cultivation and management practices in mushroom unit and participants also involve in mushroom cultivation practices like paddy straw sterilization, cutting, sanitizing and packaging of mushroom bags. On the last of training Dr. S.M.Vastrad explained about pest and disease management in mushroom cultivation. Smt. Shweta A. Mannikeri explained about health and nutritional benefits of mushroom consumption in diet. And processing and value addition of mushroom like mushroom

dry, mushroom, powder, Padad, soup etc. Dr. A.B.Patil., special officer to the agricultural minister, Government of Karnataka was the chief guest in closing ceremony and his speech put a light on entrepreneurship opportunities in mushroom cultivation, scope of processing and value addition for sustainable livelihood and nutritional security. A total 38 farmers were participated and received certificates from ICAR-KVK Vijayapura-1.



ICAR KVK Vijayapura-II



Scientists' farmer interaction at Salotagi village

A programme on sugarcane and lime cultivation practices was organized by ICAR Krishi Vigyan Kendra, Indi, in collaboration with Karnataka State Lime Development Board, Indi. Department of Agriculture, Vijayapura and Department of Horticulture Vijayapura along with Sri Shivayogishwara Devasthanam Trust, Salotagi on the date 18.07.2024 at the Sri Shivayogishwara Devasthanam, Salotagi village of Indi taluka.

The programme was inaugurated by Dr. P.L. Patil Honourable Vice Chancellor, UAS, Dharwad and in inaugural address stated that the latest developments at agricultural research institutes across the state, continuous research activities are aligning with the demands of farmers and Research is underway concerning the optimal levels of fertilizer, pesticides, and disease management strategies for crops. These studies contribute to a comprehensive understanding and implementation of agricultural practices. Addressing the crucial role of soil and water management, experts emphasize the need for mechanization in field preparation and efficient water utilization. Efforts are being made to conserve rainwater effectively without letting it flow out of fields prematurely, thus preserving soil fertility and ensuring sustainable crop growth.

Sri. Somayya S Chikkapatta, Sri Shivayogishwara Devasthanam Trust, Salotagi in his presidential address expressed

happiness over organizing such a programme in salotagi village and requested the farming community to utilize these events and clarify their doubts in lime and sugarcane crop production technology. Dr. S.S. Angadi, Director of Extension, in his inaugural address emphasized that in addition to agricultural practices, horticulture, sericulture, and poultry farming are integral parts of the holistic farming practices being promoted. These initiatives aim to enhance the economic prosperity of farmers through value addition to crops like Lime and Sugarcane.

Experts from the University of Agricultural Sciences, Dharwad, including Dr. B.D. Biradar, Director of Research, Dr. R.B. Belli, Associate Director of Extension (Vijayapura), and other line department officials have actively participated in the event. During this event around 70 DFI farmers who doubled their income were felicitated by the dignitaries. Furthermore, vegetable seed kits were distributed to farming women.

Contributor: Dr. Prasad M. G., Scientist (Animal Science), ICAR- KVK, Vijayapura - II (Indi) and Dr. Shivashankaramurthy M., Sr. Scientist and head, ICAR- KVK, Vijayapura - II (Indi), UAS Dharwad.

SKILL DEVELOPMENT ACTIVITIES



ICAR KVK Vijayapura-II



An on-campus training program on Integrated Disease Management in Pomegranate and Lime was organized at ICAR - Krishi Vigyan Kendra, Indi on July 30, 2024, in collaboration with the Horticulture Department, Indi, and SWARDS along with NRC Pomegranate, Solapur. The invited delegates for this program were Dr. Manjunath N., Scientist (Plant Pathology) and Dr. Rupa Soujanya, Scientist (Genetics and Plant Breeding) from NRC Pomegranate, Solapur. For the inaugural function, Sri. Abid Gadyal, Assistant Commissioner, Indi, was invited as the chief guest and delivered his best wishes to the farming community,

encouraging them to make use of new technologies released by NRC and Agricultural Universities and implement the strategies learned from this training program in their fields.

During the technical session, Dr. Manjunath N., Scientist (Plant Pathology), delivered detailed disease management practices to be followed in Pomegranate and Lime. He emphasized the "SIX-STEP" advisories to manage Bacterial Blight Disease in Pomegranate," which is currently a major problem for pomegranate farmers.





Distribution of pepper cuttings under FLD Project and inputs under BLAKC scheme

As part of FLD on “Demonstration of drought tolerant pepper variety – Panniyur-8”, KVK Wayanad distributed 400 numbers of Panniyur-8 variety pepper cuttings to 10 farmers. Under BLAKC (Block Level Agricultural Knowledge Centre) scheme,

various inputs such as Trichoderma, Ayar, Paecilomyces, Copper Sulphate, lime and Arka Microbial Consortium were distributed to Kalpetta and Vythiri block farmers. Ms. Sumi P, Research Assistant, explained the climate resilient characteristics of the variety and the usage of various inputs.





ICAR KVK Wayanad



Skill based training on Nursery management for DAESI trainees

Thirty-eight input dealers from Wayanad district underwent skill-based training in nursery management and major fruit crops of Wayanad as part of the Diploma in Agricultural Extension Services for Input dealers (DAESI) programme. Dr. Najeeb Naduthodi, Assistant Professor (Horticulture), RARS Ambalavayal explained various aspects of propagation techniques to the trainees.

Skill development training on Mushroom cultivation

KVK Wayanad conducted one day training programme on mushroom cultivation for 56 farmers. The training covered a range of topics including mushroom spawn production, bed preparation, pest and disease management and coir pith composting. The theory session was handled by Dr. Deepa Rani C.V., Assistant Professor, while the practical session was conducted by Smt. Sruthi Krishna.

Skill development training on Vermicomposting

KVK Wayanad conducted one day training programme on vermicomposting for 15 farmers from Swayam Shikshan Prayog (SSP), FPO of Kottathara village at KVK training hall. In this event, classes were led by Miss. Athira K.V Assistant Professor, Agronomy on topics like vermicompost preparation, factors affecting vermicompost, vermiculture, vermiwash and different marketing methods of vermicompost.





ICAR KVK Yadgir



ICAR- KVK, YADGIR (Kawadimatti) Organized 5 days two training program on Natural farming to 60 Krishi Sakhis of Yadgir district. The programme was inaugurated by Dr. Azimuddin, Deputy Director of Horticulture (Z.P) Yadgir. Dr. Jayaprakasha Narayan, Senior Scientist and Head, ICAR- KVK, Yadgir (Kawadimatti) emphasized on Soil Health and Nutrient management, Preparation of Bio inputs, Pest and Disease management in Natural farming, Role of crop residue and green manuring, Integrated Farming and Seed Systems, Management of nursery through organics, Crop and livestock integration and Role, Use and Preparation of organic inputs using local resources for sustainable Natural Farming, Soil fertility management in Natural Farming, Seed processing and certification technologies, Certification and Marketing of Natural produce. Demonstration and practical exercises were conducted by Dr. Mallareddy; Scientist (Agronomy), about understanding the difference between healthy & unhealthy soil, structure of soil and its sampling methods, learn to read Soil Health Card for understanding the nutritional requirements of the field. Hands-on training was conducted by Dr. Rathamma, Scientist (Plant

Pathology) on natural farming inputs preparation like Jeevamrit, Ghanajeevamrit, Beejamrit, Pest and disease identification in field and its control measures through input preparations like Neemastra, Agniastra & Dashparni ark and application of yellow sticky traps in fields. Dr. Eramma conducted practical session on vermicomposting and vermiwash preparation. In the present scenario, practicing natural farming helps to enhance the soil fertility, chemical residue free food production, efficient use of on-farm resources, reduces cost of cultivation and increase the productivity in crops.





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