

KVK TIMES

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

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KVK TIMES

A Window to KVK's of
ICAR-ATARI Zone -XI
Bengaluru

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M E S S A G E



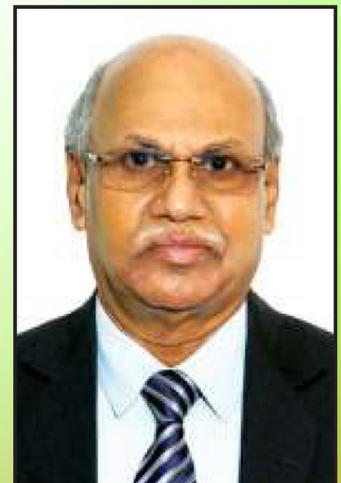
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rishi Vigyan Kendras (KVKs) also known as Farm Science Centres are the key first line extension systems in India which are integral part of National Agricultural Research System (NARS). Krishi Vigyan Kendras being one of a kind in the world, function with the main objective of transfer of technology coupled with evaluation and refinement of proven technologies to suit the site specific farming situation prevailing in each districts. KVKs attempt to increase the net returns of farmers and also augment self-employment opportunities among farming communities in agriculture and allied enterprises. KVKs conduct need based training for farmers to update their knowledge and skill in state of the art agricultural technologies, secondary agriculture, animal husbandry and other allied sectors for improving the agricultural economy of the district.

Since KVKs are implementing diversified interventions based on the needs of the farming community in agriculture and allied fields, ICAR- ATARI Bengaluru has created a platform to facilitate the dissemination of such valuable wealth of knowledge through publications. The best instance is the recently launched fortnightly e-Publication "KVK TIMES". The initiative of ATARI Zone XI to showcase the plethora of activities undertaken by the 48 KVKs of the Zone is a commendable task. It will result in boosting of the morale of the KVK staff as well as increase the exposure and cross learning among KVKs. This newsletter prepared by KVK Kollam gives an excellent overview of the diverse interventions from the side of Zone XI KVK during the second fortnight of July 2022. I take this opportunity to appreciate the combined efforts of ATARI, Bengaluru, Directorate of Extension Education, KAU and the staff of KVK, Kollam in bringing out this fortnightly publication "KVK TIMES".



Dr. R. Chandra Babu
Vice Chancellor
Kerala Agricultural University



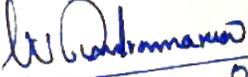


FOREWORD

*A*griculture is an important sector of Indian economy as it contributes about 17% to the total GDP and provides employment to over 60% of the population. Indian agriculture has registered an impressive growth over last few decades and KVKs played an important role as they are the first line extension system in bringing technologies closer to farmers. KVKs are perfectly located to lead and incubate local innovations to achieve desire goal. KVKs are the prime institutes to diagnose field problems, characterize field conditions, then apply informed, evidence-based “pressure” on the NARS i.e. SAUs, ICAR, State Research Centres and the entire network of fellow KVKs. In short, KVKs will enable the entire NARS to become more locally relevant and useful.

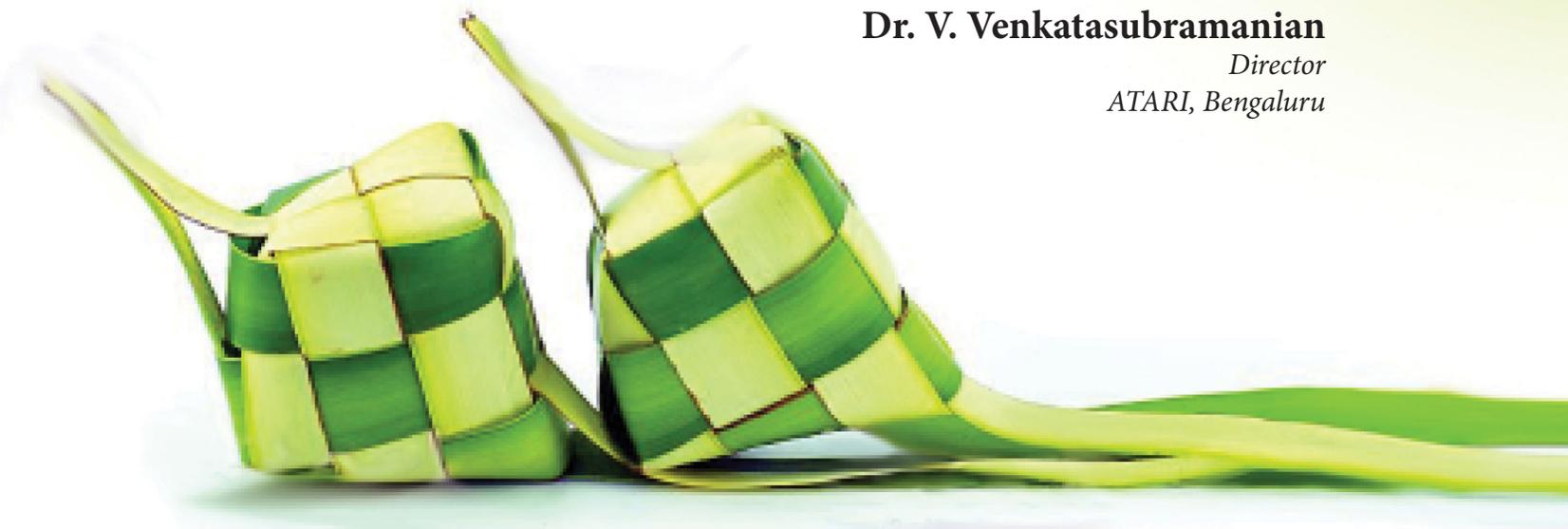
Each KVK undertakes activities in their novel way for the betterment of the farming community under their jurisdiction. KVK Times is an initiative for showcasing these activities of KVK in zone XI on fortnightly basis. The fortnight of 16-31 July 2022 was of special importance as KVKs and their farmers got national recognition. ICAR-Krishi Vigyan Kendra Ramanagara functioning under University of Agricultural Sciences, Bangalore in ATARI zone XI bagged the National Award “Pandit Deendayal Upadhyay Rashtriya Krishi Vigyan Protsahan Puraskar-2021”. Sri Mohammed Ameerbabu K nominated by ICAR-KVK Malappuram, bagged the Jagjivan Ram Innovative farmer Award of ICAR for the year 2021 and Smt. Bindu Joseph, a progressive farm women cum entrepreneur, Renduplakar House, Panthiraikara, Kozhikode received Pandit Deendayal Upadhyaya Antyodaya Krishi Puruskar – 2021 during the celebration of 94th Foundation day celebration in NASC complex, New Delhi. I congratulate all the winners.

I appreciate the support and guidance given by the Hon’ble Vice Chancellor, KAU Dr. R Chandra Babu and Dr. Jayasree Krishnankutty M, Director of Extension, KAU to KVKs in Kerala in their exemplary activities. I compliment KVK Kollam for the meticulous effort put in compilation of 26th edition of KVK Times.


08-08-2022

Dr. V. Venkatasubramanian

Director
ATARI, Bengaluru



M E S S A G E



Krishi Vigyan Kendas work as Knowledge and Resource Centre of agricultural technologies for supporting initiatives of public, private and voluntary sectors in improving the agricultural economy of the district. Since KVK's are having a district as jurisdiction, they are playing a crucial role in agricultural technology transfer and in turn increasing productivity and income of the farming community. They are models for adaptive research to diagnose and solve problems emerging from district agro-ecosystems. The Krishi Vigyan Kendra at Sadanandapuram, Kottarakkara, Kollam under Kerala Agricultural University functions as the linkage organization between the University and stakeholders in agriculture, most importantly the farmers. It is a station that fulfils the objectives of transfer of technology coupled with evaluation and refinement of proven technologies to suit the site specific farming situation in Kollam district.

This initiative of ATARI Bangalore, Zone XI to bring out an e-publication in every fortnight for showcasing activities undertaken by the KVKs, of the zone is highly appreciable. As every KVK will be getting a chance to bring out the publication, this will lead to great inter communication, exposure and fellow feeling among the KVKs. It will also serve to flaunt all the KVKs interventions in one window.

Clearly, KVK Kollam has put in sincere and concerted efforts to bring out a very systematically designed KVK Times. I applaud the efforts, put in by the Programme Co-ordinator KVK Kollam and all staff members, in making this edition very comprehensive and foolproof.

A blue handwritten signature of Dr. Jayasree Krishnankutty M.

Dr. Jayasree Krishnankutty M.
Director of Extension
Kerala Agricultural University

ACKNOWLEDGMENT



I am extremely happy to express my deepest sense of gratitude and heartfelt thanks to our Honourable Vice-Chancellor, Dr. R Chandra Babu for his valuable guidance and encouragement in achieving the mandates of KVK in Kollam district and his constant motivation to serve the farming community to the best of our capabilities.

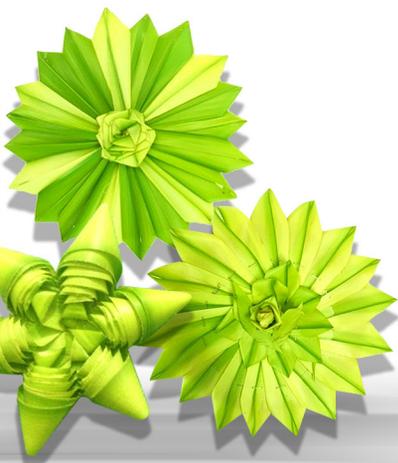
It is my pleasure to extend my sincere thanks to Dr. Jayasree Krishnankutty M, Director of Extension, KAU for her moral support and valuable suggestions to move confidently during execution of all our activities.

I would like to express my heartfelt gratitude to Dr. Venkatasubramanian, Director, ATARI, Bengaluru, for his overwhelming support and inspiration to carry out various activities successfully. I extend my heartfelt thanks to Dr. DVS Reddy, Principal Scientist and Nodal Officer of KVK Kollam for his guidance and timely support.

I wish to place on record our sincere thanks to ATARI, Bengaluru for giving us an opportunity to document KVK activities in second fortnight of July 2022 and all other KVKs in the Zone XI for timely submission of the important activities.

I thank wholeheartedly my entire team of KVK Kollam for their involvement in compiling and editing of KVK Times.

Dr. Bini Sam
Professor & Head
KVK, Kollam



Congratulations



ICAR-Krishi Vigyan Kendra Ramanagara
University of Agricultural Sciences, Bengaluru
“Pandit Deendayal Upadhyay Rashtriya Krishi Vigyan
Protsahan Puraskar-2021”



Smt. Bindu Joseph
*Progressive farm woman cum entrepreneur,
nominated by ICAR-KVK Kozhikode,
received Pandit Deendayal Upadhyaya Antyodaya
Krishi Puruskar – 2021.*



Sri. Mohammed Ameer Babu K
*Nominated by ICAR-KVK Malappuram,
bagged the Jagjivan Ram Innovative farmer
Award of ICAR for the year 2021*



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Innovative Programme of KVK, Kollam “Establishment of Tuber Hub” – A Support to ODOP Programme of Kollam

Capacity Development Programme



Dr. Susan John and Dr. Sajeev M.S, Principal Scientists, CTCRI, Thiruvananthapuram



Exhibition: Value Added Products

With a view of popularising new and high yielding varieties of tuber crops to complement the ODOP programme of Kollam, KVK Kollam launched an innovative programme on “Establishment of Tuber Hub” funded by ICAR. Under this programme the Kendra has selected 5 blocks of Kollam district viz., Vettikkavala, Kottarakkara, Chavara, Eravipuram and Anchal (10 farmers/block) under the Block Level Agricultural Knowledge Centres with KVK scientist as nodal officers. KVK has organised a training cum exhibition on tubers crop production technology in collaboration with CTCRI, Thiruvananthapuram, which included sessions on crop production and processing aspects of tubers and the sessions were handled by experts from CTCRI, Dr. Susan John, Principal Scientist, and Dr. Sajeev. M.S, Principal Scientist on respective topics. As part of the programme, the KVK has established a “Tuber Museum” in the KVK campus for the collection and conservation of both the land races and high yielding varieties of

cassava, elephant foot yam, aroids, yams, sweet potato and traditional tuber crop Adathappu (*Dioscoria bulbiferra*). Our partner farmers were supplied with planting material of the identified tubers and bio inputs for ensuring the pest and disease tolerance by prophylactic application of bioagents and botanicals. The planting materials include minisets of Gajendra variety of EFY, Anthamon Kachil of *Dioscorea*, minisets of nutrient use efficient cassava - Sree Pavithra and mosaic resistant - Sree Raksha. The Kendra also equipped the participating



Selected Blocks:-
 Vettikkavala
 Kottarakkara
 Chavara
 Eravipuram
 Anchal

farmers by way of conducting capacity development programmes on Miniset technology for the rapid multiplication of planting materials of these elite varieties to ensure the availability of elite varieties among the farmers. The Kendra is planning to transform these partner farmers as the brand ambassadors of KVK's Tuber Hub for the dissemination of technology at the later stage of the programme. Constant monitoring of the demonstration plots is being done by the multi-disciplinary team of scientists of KVK which enable the Kendra to set up the "Mini tuber museums" at the nook and corners of Kollam district with farmer's participation.





Marigold Variety Pusa Bahar Blooms in Kollam

The Kollam district in Kerala state enjoys the humid tropical climate where kharif season receives ample rainfall followed by very mild winter and humid hot summers. Rainy season usually starts from June with an average rainfall of about 1500 mm. The district is ideally suited with favourable tropical agro-climatic conditions and fertile soils for loose flower cultivation. The demand for marigold flowers is normally met from neighbouring districts of Tamil Nadu state. Demand and market price for marigold soars during Onam and Christmas, the latter coincides with Sabarimala season. Profitable seasons preferred for the district are August-September (Onam) and December-January (Christmas-Sabarimala). The cultivation of marigold by farmers in the district is in its infancy stage. The scientists of KVK, Kollam came with a careful thought of cultivating marigold using a highly adaptive variety suiting the agro climatic situation of the district. To screen suitable varieties for the district, an On-Farm Trial (OFT) on Marigold varieties has been conducted during 2021-2022 in farmer's fields using Pusa Bahar,

Pusa Basanti, and Pusa Narangi developed by Indian Agricultural Research Institute, New Delhi. Among them Pusa Bahar and Pusa Basanti produce yellow flowers while Pusa narangi has orange flowers. The trial showed an excellent result with Pusa Bahar (21.13 t/ha) followed by Pusa basanti (18.72t/ha) and Pusa narangi(16.44 t/ha). Pusa Bahar is a floriferous variety which is well adapted to our climatic conditions with a height of 75-85 cm having attractive yellow coloured large flowers (8-9 cm) which are compact and flattened. With the intervention of KVK, Kollam, popularisation of the variety Pusa bahar was channelized through mass media viz. All India Radio and Kissan Krishideepam of Asianet channel. Action for up-scaling was done through capacity development programs to farmers and monthly technology advice to department officials. This technology was recommended to be included as demonstrations under ATMA & Leads programmes. Positive feedback is obtained from farmers with respect to its suitability and economic viability. The Kendra was able to create a momentum among the farming community towards floriculture, a new vista for doubling farmers income, enabling market-oriented floriculture during Onam and Christmas in the state.





Nutrition Garden: A Sustainable Model for Food Diversity and Nutrition Security

Food and nutrition security continue to be a matter of grave and growing concern for India. Despite being the second largest producer of food, India is home to the world's second largest undernourished population. Undernutrition leads to long-term effects, including cognitive and growth deficits and reduced immunity to infections. The Government of India has taken significant steps for providing food security and combating malnutrition over the past four decades. Kerala is known to be the role model for health and development indicators but the state is facing a double burden of malnutrition as a major challenge in the health sector.

Vegetables play an important role in making our daily diet nutritious. An adult should receive at least 300 grams of vegetables a day as recommended by the ICMR. Pesticide residue is another health concern. Intake of protein food also needs to be improved. One-gram protein per kilogram body weight is the recommended intake by ICMR. Many studies revealed that consumption of

vegetables and protein foods are very low as compared to recommendation. The simple and sustainable solution for year-round production, food diversity and nutritional adequacy is to grow our own food in our own premises.

Krishi Vigyan Kendra Kollam initiated a demonstration of Nutri-garden in a scientific way among the underprivileged population of the district funded by ICAR with the view to promote year-round consumption of nutritious food for the household with special attention on nutrition availability, improving the nutritional status of families with food diversity including mushroom as a protein source, promoting nutrition-sensitive agriculture and food security and nutrition education campaigns.

Technology demonstrated was organic vegetables and mushroom cultivation. Selected families were provided with technical guidance regarding organic management, pest and disease management through bio inputs, health and nutrition awareness. Vegetable seedlings and mini sett tubers, spices, fruit plants and medicinal herbs were distributed among the beneficiaries. Pre and post survey regarding dietary habits, food preferences, consumption pattern, nutrient intake, nutritional knowledge and attitude changes were recorded. Regular monitoring and follow up were done.

A fruitful result was observed while comparing pre-



and post-nutrition garden phase. Average total production of vegetables and mushrooms by the family at the pre-phase was 3.16 and that of Mushroom was absolutely nil. During the post phase this become 21.3 and 4.6 kg/month respectively. 53% increase in per capita consumption of vegetables was noted. Average consumption /month increased from 16.56 kg to 25.46 kg. 83% of the vegetables consumed by the family was from their own Nutri garden, that's about 59% of the ICMR recommendation. High-value plant protein intake is also noticed apart from daily family consumption. Nutri-garden helped the families to save about Rs.2130/- from vegetables and Rs.1380/- from mushrooms monthly.



ICAR-Krishi Vigyan Kendra ALAPPUZHA



'ICAR Foundation Day' Celebrated

ICAR Foundation Day was celebrated in a befitting manner on 16th July by the KVK with the participation of many women farmers from Kayamkulam municipality, Krishnapuram and Muthukulam Grama Panchayaths. The relevance of maintaining a nutrition garden at homestead for nutritional security to the family and thereby for a healthy society was conveyed to about fifty selected farmers who participated in the programme. Dr.P. Muralidharan, Head, KVK highlighted the important roles carried out by the ICAR to the nation and various achievements. ICAR Foundation Day and Award Ceremony programme held in New Delhi and the interaction of Hon. Minister of Agriculture and Farmers' Welfare, Sri. N.S. Tomar with farmers across the country was webcasted for the benefit of participants. The session on 'Organic cultivation of vegetables in a homestead nutrition garden' was handled by Dr. K. Sajjanath, SMS. Mrs. Jissy George, SMS oriented the farmers on the nationwide programme on nutrition garden for nutritional security of families. Farmers actively participated in the discussion session and vegetable seeds for the nutrition garden were distributed to participants.

KVK as a Model Organization in 'Energy Conservation'

KVK-Alappuzha put a foot forward for the green environment by installing a solar water pump for irrigating the KVK farm. Water from a bore well of 90 m depth is lifted and stored for irrigation utilizing a solar pump of 5 HP capacity with the help of 16 solar panels. This energy conservation initiative helps to minimize usage of electricity, save financial expenses and reduce the environmental pollution and carbon footprint. These solar panels can produce 20 units of power every day and by using this power, an approximate amount of Rs.4000/- can be saved per month. It also helps the visiting farmers to get familiarized with benefits of solar power usage as an alternative source of energy in farm and home.





Training Programme on Weather Based Agriculture

An awareness programme was conducted on 28.07.2022 for farmers of the Mangalagudda village. A total of 33 farmers got benefit of this programme. Awareness on different weather-related apps were given to farmers. Mr. Basavaraj Nagaleekar (SMS Agromet) explained about weather related mobile application like Meghdooth, Mausam, Damini and gave information about GKMS project and DAMU activities.

Celebration of ICAR Foundation Day & Doubling of Farmers Income

92nd ICAR Foundation Day Celebrated at KVK Bagalkote on 16/07/2022, Dr. S. I. Athani Director of Extension UHS Bagalkote, invited as chief guest of the function. He briefed the roles and activities of ICAR institute for better enhancement of Farming community in the country. Dr. M. R. Kammar, Sr. Scientist & Head, KVK Bagalkote presided over the function and briefed about the ICAR institute to the audience and farmers. A total of 100 Farmers participated in this programme. seeds for the nutrition garden were distributed to participants.



Awareness Camp on Management of Fall Army Worm in Maize

KVK Bagalkote conducted Method demonstration on installation of Pheromone traps on Maize fields at Mangalagudda village on 28/07/2022 and Dr. Sudha S, Scientist (Plant Pathology) explained the installation and working principle of pheromone traps in controlling of Fall Army Worm. Farmers were also briefed about the other managerial aspects of Fall Army worm in maize. This programme was organized as a part of follow up of FLD on Management of Fall Army Worm in Maize. A total of 33 Farmers participated and got benefitted of this programme.

Director of Extension, UAS Dharwad Visits to KVK Bagalkote

Dr. I. S. Katageri Director of Extension, UAS, Dharwad Visited KVK, Bagalkote on 23/07/2022 and reviewed various activities of KVK Bagalkote. Dr. M. R. Kammar, Senior Scientist and Head briefed KVK activities then visited all demo units of KVK Bagalkote. Director of Extension gave some suggestions to improve the working efficiency of KVK. Finally, he also advised Scientists to maintain records pertaining to OFT & FLD in a systematic way.



Off Campus Training on Nutrition, Pest and Disease Management in Sunflower

An off campus training programme was conducted for CFLD farmers on pest and disease management in sunflower at Mangalagudda village on 28.07.2022. implementing officer Dr. Dinesh Kumar S P, Scientist (Agronomy) explained about use of nano urea in sunflower crop nutrition. Dr. Sudha S, Scientist (Plant Pathology) deliberated upon the methods of managing pest and diseases in sunflower in the prevail situation. A total of 33 farmers participated in the programme and benefitted.



ICAR-Krishi Vigyan Kendra BALLARI

Director, ICAR-ATARI Zone XI Visits KVK, Ballari

Dr. V. Venkatasubramanian, Director, ICAR-ATARI Zone XI, Bengaluru visited ICAR-KVK, Ballari to review its activities. Dr. Ashok S Halepyati, Director of Extension, UAS, Raichur also joined him during the occasion. The dignitaries made a visit to different demonstration units like vermi-compost unit, Automatic Weather Station of DAMU, soil and water testing lab, Shirohi goat rearing unit and millet processing unit in the campus. The programme was followed by interactive session with staff and scientists of KVK. Dr. Ramesh B K., Senior Scientist and Head of ICAR, KVK, Ballari after his welcome speech presented the major achievements for the past five years.

In his remarks, the Director mentioned that the year 2023 is declared as the 'International Year of Millets'. So being the major millet



growing district an exclusive millet workshop jointly by UAS, Raichur and ATARI Bengaluru is to be planned to prepare all other KVKs for millet related activities in days to come. Since Ballari is endowed with large number of small ruminants especially sheep, Director insisted concerned scientist to arrange for a workshop on small ruminants which would help to improve the rural micro-economics.

Director of Extension, UAS, Raichur Dr. Ashok S Halepyati in his interaction lauded KVK for efficiently working towards its set goals and appreciated for notable achievements crowned even with lesser staff. He insisted that focus need to be given to precision farming activities like site specific nutrient management, site specific irrigation and need based plant protection. Further, he stressed to give preference for organic agricultural practices and use of bio pesticides. Later in the afternoon, the dignitaries visited the progressive farmer Sri. Suryanarayana Raju's farm at



Kurugodu and appreciated the efforts of farmer in maintaining the different fruit crop nursery and commercial cultivation of 'Nannari' a medicinal crop in a larger area. They had all the appreciation for the support KVK scientists have given him in furthering his activities. Later they visited Fig value addition unit at Shrinivas nagar camp. Director of ATARI and DE interacted with the women entrepreneurs who are involved in fig value addition activities. Director appreciated KVK for handholding farm women, which has improved their income and also has minimized the post-harvest losses through value addition activities. He also said that the products would find place in 'KVK Kisan Kart' which is being conceptualised at ATARI level.



ICAR-Krishi Vigyan Kendra BELGAVI-1

Implementation of ATMA Sponsored Project On 'Evaluation Performance Of Exotic Fish Breeds In Farm Ponds'

KVK Belagavi-1 has initiated the ATMA, Belagavi sponsored project on 'Evaluation of performance of exotic fish breeds in farm ponds' on 21 July, 2022. This study is aimed at standardization of farming techniques of different fish species like Pangasius and Roopchand in captive waterbodies. Farmers having farm ponds constructed under Krishi Bhagya Scheme were testing these species. Pangasius and Roopchand fishes were provisioned in this programme. A training on farming practices of these different species was also given by Fisheries Scientist Mr. Adarsha H. S. Feeding, water quality management and disease management aspects were dealt in this training. The exotic fish species



were tested against the growth performance of native Carps. Farmers of Gokak, Mudalagi, Chikodi, Athani and Raibag taluks were identified for this programme.

Scientist - Farmer Interface

ICAR-BIRDS Krishi Vigyan Kendra, Belagavi-1 has organized Scientist – Farmers Interface on Kharif crops of the district at Chamakeri village of Athani Taluk on 23rd of July, 2022. In this meet, Senior Scientist & Head of the KVK Dr. Datta Mehtre informed pest and disease problems generally encountered during Kharif. Also, he had suggested precaution and plant protection measures. KVK Agronomist has explained the nutritional management and disease management measures for Maize, Pigeon pea and Black gram. During this meet, Agriculture Manager of Canara Bank has briefed on the loan facilities available for the farmers. Shri. Basappa Bommanal of Amulya Financial Literacy Centre, Athani has addressed the farmers regarding the personal finance matters. Progressive farmers and agriculture officers have participated in this programme.



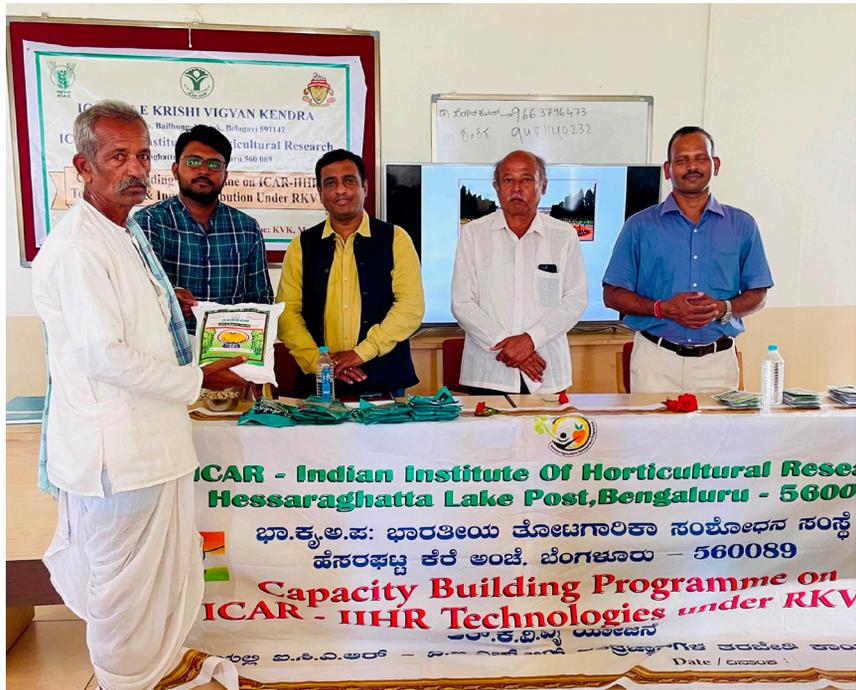
ICAR-Krishi Vigyan Kendra BELGAVI-2

Extension Functionaries Training On Canopy Management in Major Fruit Crops of Belagavi District

A training programme on 'canopy management in major fruit crops of Belagavi district' was organized to extension functionaries of state department of horticulture on 25.07.2022 at KVK campus. The technical staff working in Dept. of Horticulture in Belagavi district participated in the training programme. The inaugural function was presided over by Shri. B.R. Patil, Honble Chairman, KLE KVK, Mattikopp. The training programme was inaugurated by Shri. Mahantesh Murgod, Deputy Director of Horticulture, Belagavi and said that the canopy management in fruit crops is an important technology in yield enhancement through promotion of fruiting bodies at regular intervals in the fruit crops and hence the training has been organized to practically train the field staff of Dept. of Horticulture.



Mrs. Sridevi B. Angadi, Senior Scientist & Head briefed on the different fruit crop orchards maintained at KVK farm. Praveen Yadahalli, Scientist (Horticulture) explained the canopy management techniques in different fruit crops and imparted hands on training to the participants. S.M. Warad, Scientist (Soil Science) welcomed the dignitaries.



On Campus Training On Capacity Development Programme on ICAR-IIHR Technologies and Inputs Distribution Under RKVY

ICAR-Krishi Vigyan Kendra, Mattikopp in association with ICAR-IIHR Bengaluru organised one day “Capacity development programme on ICAR-IIHR Technologies and inputs distribution under RKVY” to farmers of KVK jurisdiction at KVK campus on 30.07.2022. Shri. G.B. Vishwanath, Scientist (Agronomy) welcomed the dignitaries. During his introductory remarks, Shri Praveen Yadahalli, Scientist (Horticulture) said that ICAR-IIHR, Bengaluru is a scientific research institute for planning and execution of research on various fruit, vegetable and other horticulture crops in the country. Based on the research findings since many years, it has released high yield varieties/ hybrids in vegetable and prominent technologies to boost the yield of horticulture crops. In this connection, KVK in association with IIHR, Bengaluru is introducing the variety/ hybrids and

technologies through capacity development programme organised today and the Principal Scientists will interact and educate the farmers on these technologies.

The programme was inaugurated by Shri. Nagaraj Desai, Progressive Farmer of Chachadi village. Dr. Shankar. V, Principal Scientist (Horticulture-Vegetable Science) explained the technologies developed by ICAR-IIHR, Bengaluru which are suitable for Belagavi region like improved hybrids in Tomato, Chilli, Brinjal, leafy vegetables etc., and vegetable special in improving yield and quality of the produce. Dr. Senthil Kumar. R, Principal Scientist (Horticulture-Fruit Science) briefed on canopy management in fruit crops, use of Arka Microbial Consortium and importance of improving organic carbon in soil and maintaining C: N ratio by use of Mucuna/Velvet bean/Magic bean. Later seeds of Chilli, Okra, Mucuna and Arka Microbial Consortia, Vegetable special and Mango special were distributed to the farmers who participated in the programme. A total of 50 farmers were benefitted from this programme. Shri. Shankaragouda Patil extended vote of thanks.





ICAR- Krishi Vigyan Kendra BENGALURU RURAL



KVK Placement Of Final Year B. Sc. (Horti.) Students Under Rhwep Programme

The final year B.Sc. Horticulture students of College of Horticulture, Hiriyyur, KSNUAHS, Shivamogga were placed for “KVK placement under RHWEP programme” at ICAR- KVK, Bengaluru Rural District, for a period of two weeks from 24-07-2022 to 07-08-2022, as a part of their course curriculum. 25 girl students were placed to KVK and they were enlightened on the topics viz., On- farm testing, Frontline demonstrations of local crops, innovative technologies in vegetables and flower crops, maintaining farmer data base, weather and market information of different crops and progressive farmers fields by different KVK scientist. Apart from this, capacity building programmes were given on conducting participatory rural appraisal (PRA), Rapid rural Appraisal, Training need Assessment and participatory technology development (PTD).



Exposure visits and diagnostic field visits were organized to progressive farmers field and improved the practical knowledge of the students.

The students were given hands on training (HoT) on installation of Wota-T traps, Blue sticky cards and yellow sticky cards in the farmers fields by involving “Seeing is believing” method. Various method demonstrations were given to

students, on enrichment of the soil with micro nutrients application and Bio-fertilizers application through “Learning by Doing” methods, nursery techniques which in turn will give the practical exposure to the students and improves the Knowledge, skill and attitude of the students. Overall the students were happy about the KVK placement and they shared a good opinion about the KVK. - Senior Scientist & Head



Planting A Tree Saves Bio Diversity

ICAR-KVK, Bidar along with Real Estate developers Bidar, Nandika Active Social Organization and Rotary club Bidar organized tree plantation programme at Manige Layout Bidar to create awareness among citizens and youths about the importance of trees for our life in current situation. The programme was inaugurated by Honorable Vice Chancellor of Karnataka Veterinary, Animal and Fisheries Sciences University Dr K C Veeranna. In his inaugural address told trees absorb and store rainwater which reduce runoff and sediment deposit after storms. This helps the ground water supply recharge, prevents the transport of chemicals into streams and prevents flooding. Fallen leaves make excellent compost that enriches soil and during COVID-19 the people severally suffered from the sacristry of oxygen planting a tree is a permanent remedy for the said problem. The chief guest Dr Raju G Teggelli, Senior Scientist & Head, KVK Kalaburagi expressed planting trees gives shelter to the birds and animals which intern helps in conserving the biodiversity. Dr Sunilkumar N M Senior Scientist & Head, KVK Bidar has expressed the institutional approach of planting trees every year this is unique and Trees contribute to their environment by providing oxygen, improving air quality, conserving water, preserving soil, and supporting wildlife. Sri Veershetty Manige President, Real Estate developers Bidar in his welcome address the real estate developers in Bidar are doing exemplary work by planting the trees every year so that along with urbanization we should conserve the nature earth by planting the trees which will be asset for conserving the environment for the future generation. There were 551 sampling were planted by the organizers.





Capacity Building Programme – Promotion of Self Employment through Horticulture Industry

A 12 days capacity building programme on promotion of self employment through Horticulture industry was organised at ICAR KVK, Chamarajanagara from 19.07.2022

to 30.07.2022 for 25 stakeholders. The programme was presided by Smt K.M. Gayathri, CEO, Chamarajanagara and the chief guest was Mr. Shivaprasad, Deputy Director of Horticulture, Chamarajanagara. Different sessions covering the detailed aspects of various topics like mushroom production, quality honey production, raising and management of nurseries of vegetable, fruits and plantation crops were organised and conducted successfully with the support of respective scientists, successful entrepreneurs and development department officials.



commercial honey production was arranged and all the trainee participants were taken to the production unit owned and maintained by the entrepreneur Mr. Jijo, who provided detailed information regarding quality honey production, problems encountered, management practices adopted and marketing activities.

Dr. Mohankumar A.B. Scientist (Horti.) and Dr. Venkatesh M, Associate Professor, Dept. of Horticulture, College of Agriculture, V.C. Farm, Mandya provided information on nursery raising techniques and management of vegetable, fruits and plantation nurseries through demonstration of practical activities like nursery media preparation, different propagation techniques and management of nutrients & pest/diseases.

Exposure visits to model commercial nurseries at Kukkarahali Kere, Mysore were organised where in the participants were able to interact with the nursery entrepreneurs.

The Deputy Director of Department of Horticulture sensitised the stakeholders regarding the schemes available through development departments for establishing various production units and also provided information regarding preparation of project proposals for establishment and management of commercial mushroom, honey and nursery units. The information regarding scientific management of waste generated out of mushroom production and nursery activities was provided to the participants through some demonstrations like composting and mulching. The pre and post evaluation of the participants were conducted to assess their knowledge before and after the programme. All the stakeholders were provided with a honey beehive each and training completion certificates during concluding programme.



Mr. Saravanan, mushroom entrepreneur from Punajanur village detailed the production aspects of mushroom and all the participants were taken to his mushroom production unit where the activities like straw preparation, bagging, inoculation of spawn and maintenance of the same were visualised.

The disease and pest management aspects were covered by Dr. Navi S.S, Junior Entomologist, AICRP on Cotton, Chamarajanagara. Further, the theory and practicals on honey production were detailed by Dr. Vijayakumar K.T, Principal Investigator, AICRP on Honey bees and pollinators, UAS, GKVK, Bengaluru.

An exposure visit to Kulagana village to seek information and to visualise the practical aspects of



ICAR- Krishi Vigyan Kendra CHIKKABALLAPURA



ADG Visit KVK, Chikkaballapura

Dr. Randhir Singh Poswal, Assistant Director General (Agricultural Extension), ICAR, New Delhi along with Dr. Chandre Gowda, Principal Scientist (Agriculture Extension) and Dr.K.Thimmappa, Principal Scientist (Agricultural Economics), ATARI, Bangalore and Dr. B. Krishnamurthy, Associate Director of Extension, UAS, GKV, Bangalore visited ICAR, KVK, Chintamani on 13.07.2022. Dr. Papireddy, Senior Scientist and Head explained about activities of KVK and visited the demo plots, reeling unit, weaving unit and also visited sericulture farmer field at Hitlahalli village of Sidlaghatta taluk.

Training on INM in Mulberry

Training programme on integrated nutrient management in mulberry was organised by KVK, Chintamani in coordination with Skill Development Centre, UAS, Bangalore on 13.07.2022. Dr. B. Krishna Murthy, Associate Director of Extension, UAS, Bangalore along with other dignitaries inaugurated the programme and emphasized on promotion on bi voltine sericulture. Dr. Manjunath Gowda, Professor and Head, Dept. of Sericulture, GKV, Bangalore explained about importance of integrated nutrient management in mulberry. Dr. Papireddy, Senior Scientist and Head, highlighted about role of quality mulberry production for sericulture. Dr. P.Venkataramana, Dean (Seri) presided the programme.





Stakeholders Meeting on Integrated Farming System

ICAR Krishi Vigyan Kendra, Chikkamagaluru has organized stakeholders meeting on 26.07.2022 to discuss and identify the popular IFS models practiced by the farmers in the zones of Central dry zone, Southern transition zone, Hilly zone and Coastal zone.

Dr. Krishnamurthy, A.T, Senior Scientist and Head, KVK, Chikkamagaluru welcomed the Principal Scientist, Nodal officers of the ATARI, Bengaluru and Senior Scientists, Scientists of the KVKs, Agriculture department officers and Progressive farmers and addressed the gathering.

On this meeting Dr. D.V. Srinivasa Reddy, Principal Scientist and Nodal Officer, ATARI, Zone XI, Bengaluru presented and discussed the questionnaires and survey carried out by the 11 KVKs of the three zones to identify best IFS model practiced by the farmers and suggested the different criterias which also can be implemented in the IFS model.

During this meeting Dr. Rayudu, Principal Scientist and Nodal Officer, ATARI, Zone XI, Bengaluru also discussed and suggested new developed technologies which also can be implemented in the following zones for the benefit of the farmers.

Dr. Veeranna, H. K, Professor (Agronomy), KSNUAHS, Shivamogga briefed about Integrated farming system which helps to increase the farmer's resources, combat climate variability, increase the biodiversity and reuse agricultural resources at low rates and also farmers can get income throughout the year.

Stake holders meeting was organized and presided by Dr. Shivaprasad, M, Associate Director of Research, ZAHRS, Mudigere.

On this occasion Dr. Narayan. S. Mavarakar, Dean, College of Horticulture, Mudigere, Dr. Seetha, Joint Director of Agriculture, Dakshina Kannada, Senior Scientists and Scientist of 11 KVK's of Karnataka, Agriculture Officers and Progressive farmers of the three zones were participated and grace the occasion.





ICAR- Krishi Vigyan Kendra CHITRADURGA



Training Programme on Natural farming

A Training programme on Natural farming was organized on 14-07-2022 at Krishi Vigyan Kendra, Babbur farm, Chitradurga in collaboration with NISARGA NGO, Hosadurga.

Dr. O. Kumar, Sr. Scientist and Head of KVK presided over the programme and delivered the presidential speech. He briefed about the agriculture scenario during 1960's and objectives of Green revolution were briefed to the farmers. He also discussed about the disadvantages of excessive use of Inorganic fertilizers and pesticides on Soil and Human health. In order to overcome the problem Natural Farming is the only way out. By adopting Natural Farming systems in agriculture which can improve the soil health and it is also beneficial in conservation of natural resources. Government of India also implementing many programmes to promote Natural Farming system among the farming community. He also briefed about the great pioneers of Natural farming Mr. Fukuoka and Mr. Subhash Palekar in his speech.

Dr. S. Onkarappa, Scientist (Plant Protection) KVK, discussed about the Natural Farming system, objectives and benefits of natural farming in his introductory speech. Natural farming is a chemical free traditional method, considered as a agro ecology based diversified farming system which integrates crops, trees and livestock with functional bio diversity.

Mrs. Smitha D'Souza, Head, NISARGA NGO, Hosadurga inaugurated the programme by pouring water to the plant and she opined that KVK and NISARGA NGO are working together from past many years and have successfully completed many programmes. She also opined that the NGO is interested to work on Natural Farming related activities along with KVK with same kind of cooperation and support.

During the technical session Dr. Rudramuni, Farm Manager, KVK delivered a lecture on management of pest and diseases under Natural farming system, Dr. Kumara O., Sr. Scientist and Head, KVK discussed about the goals, objectives and methodology of Natural farming and Dr. Prakash Kerure, Scientist (Horticulture) discussed about the cultivation aspects of horticultural crops under Natural farming system.

Mrs. Geetha Kumari, Programme Assistant, KVK welcomed all the dignitaries and farmers to the programme and also hosted the programme. At the end Dr. Prakash Kerure, Scientist (Horticulture) extended the vote of thanks.

Nano Urea and Zinc Demonstration on Maize

Dr. Kumara O, Senior Scientist and Head was conducted front line demonstration on nano urea and zinc in maize was conducted in Haldapura and Haldapura Thanda villages of Chitradurga taluk on 16-7-2022 and briefed about the use of nano fertilizers on maize and spray of Nano Urea and Zinc on maize crop was demonstrated. 25 farmers were participated in the programme.



Assessment of Sulphur in Onion for Higher Yield

Dr. Prakash Kerure, Scientist (Horticulture) ICAR-KVK, Chitradurga conducted on farm testing on assessment of sulphur in onion for higher yield at Mallappanahalli village of Hiriyur Tq. on 19-07-2022 and demonstrated the use of sulphur fertilizer at farmer's field. Two trails were conducted at farmers field .



Workshop on Climate Resilient Grama Panchayath

Action research meeting programme on climate resilient grama panchayath was organized at Art of Living international center , Bengaluru on 28-7-2022. Dr. Hemla Naik , Director of Extension , KSNUAHS, Shivamogga discussed the approaches of climate resilient technologies in agriculture and horticulture crops . Dr. Kumara O, Senior Scientist and Head , KVK Chitradurga briefed the activities conducted at adopted NICRA village . Dr. Prakash Kerure, Scientist (Horticulture) ICAR-KVK, Chitradurga shared the experience about NICRA village .

Bi Monthly Workshop for Extension Functionaries

Bi monthly workshop for officials of department of agriculture , Chitradurga was organized at Krishi Vigyan Kendra, Chitradurga on 27-07-2022. Mr. Ramesh Kumar, Joint Director, Department of Agriculture, Dr. Sharanappa Jangandi, Associate Director of Research ,ZAHRS , Dr. Kumara O., Senior Scientist and Head, KVK, Chitradurga , Mr. Prabhakar ,Deputy Director of agriculture and Mr. Shiva Kumar, Deputy Director of agriculture and the scientists from KVK and ZAHRS .

Dr. Kumara O., Senior Scientist and Head, KVK discussed about the usage of Nano Urea for agricultural crops. During his presentation , discussed about the usage,



concentration, method of application of Nano urea. He also briefed about the availability and suitability of Nano urea in various agricultural crops. Later he also answered to the various questions raised by the department officials.

Dr. Sharanappa Jangandi, Associate Director of Research , ZAHRS briefed about usage of small agricultural equipment's for small and marginal farmers for drudgery reduction in agricultural operations .

Mr. Danareddy, Technical Assistant, AICRP- Groundnut, ZAHRS, Hiriyur discussed about the various pests and diseases of Cotton, Soybean, Onion, Maize, Redgram, Sunflower and Groundnut. He briefed about the symptoms and control measures of Soybean pod borer, defoliators, Fall armyworm of maize, flower webber of redgram, sucking pests of cotton, leaf minor in Groundnut, thrips of onion and bud necrosis and leaf spot diseases of Sunflower. Soybean- Pod borer, defoliators.

Dr. Sumana, Assistant Professor, ZAHRS, Hiriyur discussed about Oyster Mushroom production technology. Benefits of mushroom cultivation and methodology, cost: benefit ration, value addition in Mushroom were briefed to the participants.





ICAR- Krishi Vigyan Kendra DAKSHINA KANNADA



Awareness Programme On Conservation of Petroleum Products and Energy

An one day awareness programme on conservation of petroleum products and energy in agriculture and domestic fields was organised at Pavooru village of Ullal Taluk on 21st July 2022. The programme was inaugurated by Shri Jeevan Kolya, District programme manager, Bharatheeya Vikasa Trust, Manipal. Dr. Mallikarjuna L. Scientist-Soil Science coordinated the programme and in his speech he insisted on conservation of petroleum products in agriculture sector and benefits of regional agro-forestry. Dr. Shivakumar R. Scientist-Animal Science was presided over the function, and advised the participants to adopt petroleum conservation methods and alternative renewable energy sources in domestic and agricultural sectors to make it available for future generations. Mr. Sooryanarayana and Mr. Nithin Rai NGO trainers were also participated as resource persons and emphasised on conservation measures of petroleum and Gas at domestic level. Since fuels have become a part of modern lifestyle, it is becoming used up to a great extent and there is a chances of getting exhaust. There are several methods in which we can conserve the fuel and most importantly the nature.

- (i) Conversion into efficient forms like CNG (Compressed natural gas).
- (ii) Protection of resources from fires.
- (iii) Avoid wastage of oil.
- (iv) Make more use of renewable source of energy like

using solar energy, wind mills to generate electricity. There were thirty-five farm women and farmer were participated in this programme.



Kitchen and Terrace Gardening

The ICAR-Krishi Vigyan Kendra (Dakshina Kannada) Mangaluru in association with Education Department, Zilla Panchayat (Dakshina Kannada), Department of Horticulture and Bharatiya Vikasa Trust, Manipal Organised capacity development programme for Primary School Teachers under Akshara Dasova Campaign. Mr. Kaladaka Prabhakar Bhat founder of Sri Rama Primary School, Kaladaka inaugurated the event.

Dr. Rashmi R., Scientist (Horticulture) coordinated the programme and delivered a lecture on importance of fruits and Vegetable consumption and nutri garden establishment helps to consume fresh vegetables also save the money to buy vegetables. She also explained about the details of vegetables should be grown on nutri garen and she also

stressed on plan, layout and establishment of kitchen and terrace garden in the school premises. Usha, Education Department welcomed the guests and programme was ended with vote of Thanks by Dr. Jinesh, BEO, Bantwala. Mr. Pradeep D'Souza, SADH, Bantwala, Mr. Jeevan, Programme coordinator, BVT, Manipal and 193 Primary School Teachers from 83 schools of Dakshina Kannada District and staff of Sri Rama School, Kaladakka were benefitted by the programme.



Method Demonstration on Seed Treatment in Paddy

Seed treatment plays an important role in protecting the seeds and seedlings from seed and soil borne plant pathogens and insect pests affecting crop emergence and its growth. However, many farmers in the district are either not familiar with the practice or do not follow it. The adoption of this practice by the farmers across the district requires effective extension strategies making them to aware of methods of seed treatment, post treatment handling of seeds and planting materials. In this regard, ICAR- KVK (Dakshina Kannada) Mangaluru in collaboration with ATMA Dakshina Kannada organized the method demonstration on seed treatment in paddy to DAESI students and Farmers during 15th to 31st July at KVK Mangaluru. In this method demonstration, Dr Kedarnath, Scientist (Plant Protection) ICAR-KVK Mangaluru participated as resource person and 79 DAESI students and farmers participated in the demonstration Programme.



Implemented FLD on “Integrated Crop Management in Soybean”

ICAR-Taralabalu KVK Davanagere implemented the FLD on Integrated Crop Management in Soybean at Doddabagere village of Channagiri Taluk. Soybean seeds DSB-21 was provided along with the Rhizobium japonicum, Pseudomonas fluorescens. Mr. Sannagoudru H. M. Subject Matter Specialist Soil Science explained the varietal characteristics of DSB-21 which is Rust resistance, tolerant to shattering and resistant to mosaic disease. This variety is suitable for intercropping in young arecanut gardens also. Mr. Raghuraj J. SMS (Extension) expressed intercropping of Soybean in young arecanut gardens will give subsidiary income in addition to maintaining the soil fertility. Mr. Mallikarjun B. O. SMS (Agronomist) explained the significance of soybean in maintaining soil fertility. Dr. Avinash T. G. SMS (Plant Protection) highlighted the significance of seed treatment to minimise the incidence of disease and maximize the nutrient fixation. In the program Joint Director of Agriculture Dr. Srinivas Chintal and Deputy Director of Agriculture Dr. Thippeswamy participated.



Hands on Training on Preparation of BaKaHu

One day training program was conducted to Shubhalakshmi Mahila Mandali of Davanagere District on preparation of Bakahu. Dr. Supriya Patil, Home Scientist, demonstrated the Bakahu preparation in detail and guided on branding and selling of BaKaHu products. Using BaKaHu more than 15 products can be prepared, these products will be good in taste and supplement all major nutrients which are required for human beings. Apart from this it will create new avenue of employment generation to the household women's and good income. More than 15 women members were benefitted from the training.



Conducted Training to Amrith FPO's.

Centre of Excellence in collaboration with the ICAR- Taralabalu KVK conducted training to Board Directors and CEO' of 5 Amrith FPO's of Davanagere and Chitradurga District. Dr. Devaraja T. N. Senior Scientist and Head of ICAR-Taralabalu KVK, explained the Technology and Business Opportunities in the FPO's. FPO's are very important in making the farmer self-sustainable and getting the scientific price for their Produce along with creating the employment opportunities to local peoples. Dr. Annappaswamy DDF fishery, Davanagere briefed about the Department Schemes which are supporting to FPO's. Dr. Prabhakar Itagi and Mr. Manjunath Senior Advisors from CoE Bengaluru lead the training program. 51 participants got benefited from the Program.



Eco-Friendly Tools in Management of Maize Fall Army Worm

Frontline Demonstration of Integrated management of fall armyworm in Maize crop was conducted at Kodaganuru village. Dr. Avinash T. G. SMS (Plant Protection) elucidate to farmers on the use of pheromone traps and Neem oil in management of FAW. Pheromone traps will helps in monitoring and mass trapping the adult male moths of FAW, which eventually helps in reducing the population build-up. Neem oil acts as oviposition repellent, antifedent and stomach poison to larvae. Use of Pheromone traps @ 10 / acre and Neem oil (10,000 ppm) spray @ 3 ml per lit were good tools in managing the pest at early stage. Dr. Devaraja T. N. Senior Scientist and Head suggested the farmers to give more emphasis for ecofriendly management practices. Use of chemical pesticides in agriculture led to food contamination with pesticide residue and also negatively impact on beneficial soil organisms. Mr. Mallikarjun B. O. SMS (Agronomist) and Mr. Basavanagowda M. G. SMS (Horticulture) present during visit.



On Campus Training on Hi-Tech Horticulture

ICAR-KVK, Dharwad organized on campus training on Hi-Tech Horticulture for DAESI trainees on 28.07.2022. Dr. Akkamahadevi D. Agasimani, Scientist (Horticulture), ICAR-KVK, Dharwad delivered lecture on protected cultivation, soil less culture, high density planting, micro propagation, micro irrigation, mulching, precision farming and post harvest handling. A visit was also arranged to Hi-Tech Horticulture Unit, UAS, Dharwad to provide first hand experience to DAESI trainees on techniques of having commercially viable hi-tech horticulture unit. About 31 DAESI trainees from Dharwad, Belagavi and Gadag districts participated in the programme.

Webcast Programme of 94th ICAR Foundation Day



ICAR-Krishi Vigyan Kendra, Dharwad organized live webcast programme of 94th ICAR Foundation Day and release of Book on Success Stories of DFI (Doubling Farmers Income) farmers (documented during 2017 to 2022) on 16.07.2022. Dr. I. S. Katageri, Director of Extension, UAS, Dharwad presided over the programme

and addressed the gathering. He expressed that currently there are many schemes on organic and natural farming and farmers have to choose the best technologies for their crops according to their resources and climate. Such technologies will help the farmers to increase their income. Dr. Shripad Kulkarni, Nodal Officer (KVKs), Directorate of Extension, UAS, Dharwad in his introductory remarks said that, there are seven components which can help the farmers in doubling their income. Activities planned and implemented by KVKs to Double Farmers' Income from 2017 to 2022 is a measure to see how farmers have been benefitted from their crops and non-agricultural activities. Based on this about 110 success stories from each Krishi Vigyan Kendra and a total of 75,000 thousand farmers success stories from across India have been recorded and other farmers can use the best technologies documented in farmers success stories to increase their income. Shri Amit Mishra, IAS, Deputy Secretary, Ministry of Jal Shakti, Gol, New Delhi visited KVK and interacted with farmers about role of water in agriculture, cultivation of low water requiring crops, improving water use efficiency, methods for conservation of water with more emphasis on farm ponds. Dr. S. A. Biradar, Senior Scientist and Head, ICAR-KVK, Dharwad addressed the farmers that water, electricity and market are the essential components to get higher income. About 84 DFI farmers, members of Self Help Group and staff of KVK were present during the programme.

Visit to community seed bank and millet processing unit

Dr. Geeta S. Tamgale, Scientist (Home Science), KVK, Dharwad along with Mrs. Kalavathi Kambali, Scientist (Plant Protection), KVK, Dharwad visited community seed bank at Teertha village of Kundagola taluk on 20.07.2022. Bibijaan Mahila Swasahaya Sangha of Teertha village has established community seed bank in association with Sahaja Samrudda. They have preserved many varieties of millets, pulses and cereals. They are lending the seeds



to the interested farmers for production with the condition that they have to return double quantity of seeds after the harvest. Suggestions regarding improvement of services and safe storage of seeds were suggested. Discussed with the members about functioning of seed bank. Bibijaan Mahila Swasahaya Sangha has also established millet processing mill with the financial assistance of KVK, Gadag

and Sahaja Samrudda. Selco foundation has helped them to have solar unit for functioning of the processing unit in case of irregularity in power supply. The KVK Scientists visited millet processing mill on the same day. Discussion on working of mills was held with the members. The suggestions for higher output and reduction of wastage were given.



ICAR- Krishi Vigyan Kendra ERNAKULAM

ICAR Foundation Day Celebration



KVK Ernakulam conducted the ICAR Foundation day celebration program at Karumallor Gramapachayath hall. The live telecast of the ICAR Foundation day celebration was watched by 150 farmers of DFI Village. Gramapanchyath President Smt. Sreeletha Lalu, Vice president Shri. George Menachery, CDS Chairperson Smt.Kavitha and SMS (Fisheries) Dr.PA Vikas participated. The KVK supplied one thousand vegetable seedlings to commemorate the special occasion.

Farmers Training Conducted as Part of Jal Shakthi Abhiyaan

The Ernakulam KVK in collaboration with District Agricultural Technology Management Agency (ATMA) conducted farmers training on “Water management to boost productivity in Horticultural crops” at Kadungallur Grama Panchayath hall on 21st July, 2022 as part of the prestigious Government of India Programme- Jalshakthi Abhiyaan. Shri.Suresh Muttathil, President, Kadungallur grama panchayat inaugurated the programme who urged the participants to do all possible measures to conserve water and preserve public water bodies in the panchayath. Shri.Shoji Joy Edison, Subject Matter Specialist was the resource person. Smt. Naeema Naushad Ali, Agricultural officer, Kadungallur and ATMA- Block Technology Manager Shri Nishil T. K addressed farmers.



ICAR- Krishi Vigyan Kendra GADAG

Demonstration on Nutritive Rich Recipe – Millet Vegetable Pancake

ICAR-K.H.Patil Krishi Vigyan Kendra conducted method demonstration on nutritive millet vegetable pancake under ICAR-Gender and Nutrition Project on 12-07-2022 at Shingatarayanakeri village of Mundaragi block in Gadag district. The locally available millets, vegetables and other ingredients were used in the demonstration.

The nutritive rich recipe was demonstrated with an intention to increase the consumption of millets and nutritionally rich vegetables like moringa leaves, spinach, carrot, cucumber, spring onions etc., with modern cuisine / taste. 28 women and children participated and all relished the millet pancake.





Stakeholders Meeting on IFS Project

ICAR-ATARI, Bengaluru organised IFS Stakeholders Meeting on 22-07-2022 at ICAR-K.H.Patil Krishi Vigyan Kendra, Hulkoti.

Dr.DVS Reddy, Principal Scientist (Agronomy) and Dr. B.T.Rayudu, Principal Scientist (Agril. Extn.) from ICAR-ATARI, Zone-XI, Bengaluru participated in the programme to revise and finalise the questionnaire for conducting survey on Integrated Farming System. Discussion w.r.t. selection of talukas, IFS Models with agro-climatic zones and other topics were dealt in detail.

Totally 32 participants from 12 KVKs including Senior Scientist and Heads, Subject Matter Specialists, Officers from KSDA and Horticulture Departments and IFS practicing farmers participated in the meeting.



Celebration of 94th Icar Foundation Day and Release of Book on Success Stories of Farmers

The live telecast of 94th ICAR Foundation day and release of book on success stories of 75000 farmers was organised at ICAR-K.H.Patil Krishi Vigyan Kendra, Hulkoti. Mrs. Shanta Balaganur, President, Gram Panchayat, Hulkoti inaugurated the programme and Mrs. Kamalaxi Halli Vice-President of Gram Panchayat, Hulkoti participated as Chief Guest. Mrs. Mangala Neelagund, Vice President of Unnati

Mahila Multipurpose Co-operative Society and one of the DFI farmer participated as guest in the programme. Mrs. Mangala expressed her gratitude to KVK and ICAR for facilitating her to get her income doubled through providing appropriate technologies in agriculture and allied fields. Mr. P.K.Hosamani, Director, SBI-ASF-RSETI, Hulkoti briefed about various enterprises for the youths for taking self employment. Dr. L.G.Hiregoudar, Senior Scientist and Head welcomed the guests and spoke on introductory remarks about the programme. Further, he briefed about the documentation of 110 success stories of DFI farmers of Gadag district.

After Inaugural programme, farmers and farm women viewed the live telecast of the function including release of success story book, award winning ceremony followed by speeches by dignitaries. Further, farmers were imparted training especially about Integrated Pest Management in Kharif crops, natural farming and other relevant aspects. 211 farmers, farm women and extension functionaries attended the programme.

ICAR- Krishi Vigyan Kendra HAVERI



Demonstration of Composite Fish Farming in Farm Ponds

The cluster villages Malanayakanahalli and Kuppeluru have been selected for composite fish farming front line demonstration. On the occasion of National fish farmers day KVK Haveri released fish fingerlings to selected farmer's farm ponds. Many them in this area having farm ponds in their fields which are comparatively underutilized and they only use them for irrigation purpose to crops in critical situation.

KVK Scientists released 9000 fish fingerlings to 7 farm ponds. Fingerlings of Catla, Rohu and Amur in the ratio 40:20:40 have been released at the rate of 100 fingerlings per 100 m² area. KVK also conducted an off campus training programme on composite fish farming to twenty farmers at Malanayakanahalli.

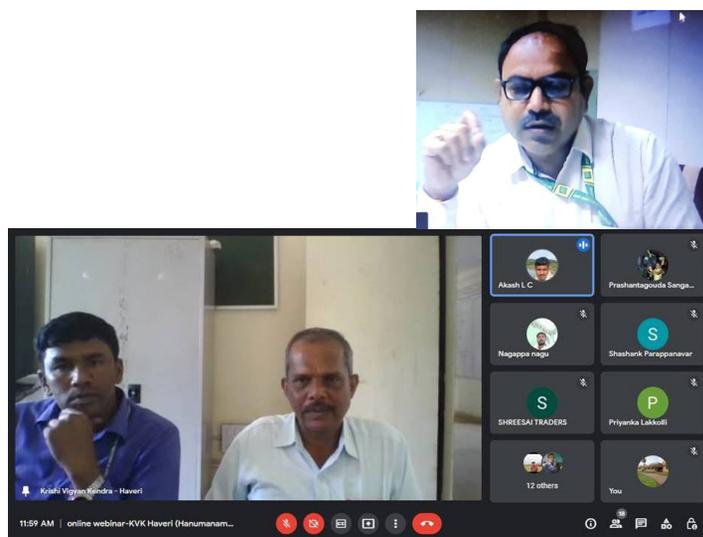
Online Training Program on "Balanced Use of Fertilizer for Crops"

An awareness program on balanced fertilizer use was conducted for the farmers of Haveri district during second fortnight of July. The district has been receiving heavy rains in July month and farmers are stressing about use of chemical fertilizers. The use of organic fertilizers along with the chemical fertilizers to crops can reduce the cost of cultivation and benefit the farmers. In this regard comprehensive information was provided to the farmers through online training.

In this program Dr. Manjunath B, JDA, Department of Agriculture, Haveri delivered the introductory speech and called upon the farmers to maintain soil fertility through balanced nutrients to the crops. He stressed "Urea" application should be in optimum dose. Research has shown that 17 nutrients play an important role in the growth of any plant. He explained that among all these nutrients, nitrogen plays the most important role in plant growth for which farmers are using Urea. He advised to use alternative sources of nitrogen.

Then Senior Scientist and Head Dr. Ashoka P. said that primary, secondary and micro nutrients should be available in soil according to the growth rate of the plant. In some crops, spraying of 1.0 to 2.0 per cent urea solution is recommended at initial flowering stage. Nitrogen spraying is necessary when old and lower leaves turn yellow. If the young leaves, upper leaves and shoots turn yellow, we should consider that there is a lack of sulphur. He said that higher yields can be obtained if water-soluble 19:19:19 or 13:0:45 spray is adopted.

In the online training, soil scientist, Dr. Rajkumar G. R gave lecture on supply of main nutrients on the basis of soil test. If the soil fertility is deficient, 25 per cent more fertilizer than recommended dose should be given to the crop. If soil status is high, 25 per cent less fertilizer should be given. Besides, the use of micro nutrients, use of drip and spray fertilizers were explained to the farmers in detail. More than 55 farmer / farmer women from Haveri district participated in this program and benefited from the training.





ICAR- Krishi Vigyan Kendra IDUKKI



Capacity Building and Distribution of Inputs from ICAR-IIHR, Bengaluru to Tribal Farmers of Idukki District

ICAR- Krishi Vigyan Kendra Idukki in collaboration with ICAR-Indian Institute of Horticultural Research, Bengaluru organized a special Programme on Tribal Sub Plan 2022 at KVK Seminar Hall. Dr. R Marimuthu, Senior Scientist & Head welcomed the tribal farmers and dignitaries. The programme was chaired by Smt. Reena Chacko, Chairperson, Bapooji Sevak Samaj. Smt. Ushakumari Mohankumar, Vice president, Zilla Panchayat, Idukki inaugurated the function and distributed the input packets to 100 tribal farmers of Pachapulkodi, Chembakathozhukudy and Tankemedukudi tribal belts of Idukki district. Inputs from ICAR-IIHR, Bengaluru included Pseudomonas, Trichoderma, Phosphobacteria, Azospirillum, AMC powder, IIHR -Vegetable Special, IIHR- Banana Special, VAM, Neem Cake, Ground cake, Vermicompost, Bucket Traps, Water trap. Mr. Sudhakar Soundarajan, SMS (Plant Protection) briefed the project. The technical sessions were handled by Dr. G Sakthivel, Principal Scientist, Division of Fruit Crops and Dr. D Kalaivananan, Scientist, Soil Chemistry, ICAR-IIHR, Bengaluru.

ICAR- CTCRI Laid Out Site Specific Nutrient Management Trails on Cassava in Idukki District

ICAR-Krishi Vigyan Kendra Idukki in collaboration with ICAR - Central Tuber Crops Research Institute, Trivandrum was laid out an on farm trail at Adimali Village in Cassava on Site Specific Nutrient management. The cassava growing farmers are following indiscriminate use of chemical fertilizers especially Nitrogen which leads to high HCN content which reduces the market acceptability. As a part of Survey conducted by ICAR-KVK, Idukki at Adimali the problems were identified and a trial was planned in Adimali in Cassava in association with



ICAR-CTCRI, Trivandrum. Field visits were organized to Trail plots by, Dr.G Byju, Principal Scientist and Head, CTCRI, Dr. R Marimuthu , Senior Scientist & Head and Ms. Manju Jincy Varghese, SMS (Soil Science), ICAR-KVK, Idukki The Trial was laid in 5 different farmers plot in cassava on application of Customized fertilizers. The Method Demonstration was conducted at Farmers field on application of customized fertilizer @ 30 g/plant at one-month stage. The farmers were made aware on importance of application of micronutrient sprays in cassava. The selected farmers were given awareness by conducting on campus training at ICAR-KVK, Idukki on 20-07-22. The technical sessions were handled by Dr.G Byju, Principal Scientist and Head, CTCRI and Ms. Manju Jincy Varghese, SMS (Soil Science), ICAR-KVK, Idukki.





ICAR- Krishi Vigyan Kendra KALABURGI - I



'Mungaru Habba' Capacity Development Programme

ICAR-Krishi Vigyan Kendra, Kalaburagi-I and Department of Agriculture, Kalaburagi jointly organized 'MungaruHabba' capacity development programme at Tadola village of Aland taluka on 25.07.2022. In this programme, Dr. Manjunath Patil, Animal Scientist participated as a resource person explain about imporatance of livestock based Integrated Farming System in agriculture. He emphasised on livestock diseases occuring in rainy season and preventive measures. Dr. Vasudev Naik, Scientist (Horticulture) explained in detail about the improved horticultural technologies and pest and disease management in vegetables and fruit crops. Dr. Shreenivas, B. V, Scientist (Soil Science) participated as a resource person at Kinnisultan village, Aland taluka emphasised about the importance of soil health management in agriculture and explain about the usage of soil health cards. Later distributed 100 soil health cards to the beneficiaries of the village. Dr. Zaheer Ahamed, Scientist (Pathology), participated as a resource person at DAESI class he emphasised on major Kharif crops like pigeonpea, soybean, greengram, blackgram, guards, sesamum specific and integrated pest and disease management to agri input dealers. Also explained diagnosis of different diseases in crops at field level during exposure field visit to the trainees. A total of 180 farmers were benefitted from the these training programmes.

Diagnostic Field Visit by KVK Scientists

Diagnostic field visit to Suntanur, Kadaganchi and Narona villages of Aland taluka by expert team of ICAR-Krishi Vigyan Kendra, Kalaburagi-I scientists on 22.07.2022. In this visit, Dr. Zaheer Ahamed, Scientist (Pathology), participated and briefed about the diseases management in pulses especially redgram, greengram & black gram and sugarcane, banana crops and Dr. Shreenivas, B. V, Scientist (Soil Science) suggested nutrient management practices in pulses and sugarcane crops also conducted method demonstration on seed treatment in soybean and redgram crops and distributed criticle inputs to the selected farmers for implementing FLDs. Also emphasised on improved agricultural technologies in different crops. About 45 farmers interacted about seed treatment, nutrient management and pest & disease management of various crops.



On Campus Capacity Development Programme on ICM in Chilli and Snail and Millipede Management in Pulses, Vegetables and Cotton

ICAR- KVK, Kalaburgi-II (Raddewadgi) conducted on campus capacity development programme on ICM in Chilli and Snail & millipede management in pulses on 16-07-2022 on the eve of ICAR foundation day. In the first session of training Mr. Chethan T., Scientist (Horticulture) explained in detail about production technologies from seed to post harvest viz., Selection of varieties, seed bed preparation, seedling production and treatment with bio-agents, Nutrient management (fertigation techniques), weed management, pest and disease management, grading and sorting and post harvest technologies.

In the second session, Dr. Basavaraj, Scientist (Agril. Entomology) briefed about integrated approach for management of Snail and millipede in pulses, vegetable and cotton crop which caused severe damage nowadays. During the program farmers were distributed with leaflets which contain detailed integrated management practices of the above pests. In continuation, Dr. N. Manjunatha, Sr, Scientist & Head, interacted with gathered farmers and clarified the agronomic issues in the local crops. About 117 farmers and farmwomen benefited the said training program.





Skill Development Programme on Nursery Management and Production Technology

KVK Kannur in collaboration with Open Prison and Correctional Home, Cheemeni has organized 10 day skill development programme on nursery management and production technology for inmates of prison. The training programme was organized to develop skill in nursery management and plant propagation techniques of inmates to take up it as an income generating enterprise. The programme was inaugurated on 29.07.2022 at Cheemeni open prison by Dr. Jayaraj P., Programme Coordinator in a function presided over by Sri. Jayakumar V., Superintendent of Prison. Sri. Sivaprasad K. Welfare Officer, Prison welcomed the gathering. Sri. B. M. Anwar, Joint Superintendent, Prison, Sri. K. N. Ajayakumar, Agricultural Officer, Prison and Dr. Parvathy A., Assistant Professor (Agricultural Extension), KVK has given felicitation. The training programme is coordinated by Smt. Renisha J. M., Assistant Professor (Horticulture), KVK. Fifteen inmates of open prison have been selected for the skill development programme. Also had a field visit to the plots of paddy, vegetables, turmeric and tuber crops maintained by the inmates of prison.



Training on Jackfruit Processing

As part of the inter-state training program of ATMA, 11 farmers and three officials from Department of Agricultural Development and Farmers Welfare from Keezhattoor Panchayat of Malappuram district visited KVK Kannur for training on processing of jackfruit. They were given practical training on preparation of various products from different parts of jackfruit Such as jelly, jam, soup, pickle, payasa, bajji, cutlet, squash etc. using different parts of jackfruit in two days training programme. Session was handled by Smt. Elizebeth Joseph, Assistant Professor (Home Science).

An interactive discussion on entrepreneurship development in processing and value addition of jackfruit was led by Dr. Jayaraj P., Programme Coordinator, KVK. Participants were the members of a Farmer Producer Organization. Visit was also arranged to a Jackfruit Processing Unit for the participants.



Frontline Demonstration on Integrated Management of Virus Affected Black Pepper Plantations for Sustaining the Yield

Black Pepper is an important inter crop in coffee based system of Kodagu District and the existing black pepper vines are unproductive due to infection of virus diseases causing huge loss for the farmers. Keeping this in view ICAR-KVK,Kodagu implemented the FLD on Integrated management of virus affected black Pepper plantations for sustaining the yield in Mayamudi village of Ponnampet Taluk. Veerendra Kumar K.V, SMS (Plant Protection) demonstrated the technology package with spraying of Sea weed extract 1ml/l, drenching of Arka Microbial Consortium 20 gm per lit, Soil application of FYM enriched with Pachonia chlamyosporia, spraying of Black Pepper special 5 gm/l in 10 farmer’s field. This Integrated demonstration of proven technology will educate and create awareness among farmers to manage virus disease in black Pepper farmers of the district.

Capacity Building Programme on Nurturing of New Farmer Producer Organization in Collaboration Tibetan Settlement at Bylukoppa

ICAR-KVK Gonikoppal, Kodagu conducted a capacity building programme on nurturing of new farmer producer organization in collaboration Tibetan settlement at Bylukoppa on 20th July 2022. Mr. Prabhakar, SMS (Hort.), Mr. H. R. Ponnanna, CEO, Puthari Farmers Producers Company Limited and Dr. Harish, SMS of KVK participated as Resource persons. The success story of Puthari FPCL presented to the participants and interacted to the queries raised on formation, business activities, financial support, legal backups, licencing procedures and organization skills. In the programme 20 extension officers from different settlements all over India participated in the training programme.

Oyster Mushroom Cultivation Training Programme for Tribal Farmers from Nagarahole Forest

ICAR-KVK Gonikoppal, Kodagu conducted oyster mushroom training programme on 27th July 2022 at Nittoor village in collaboration with the Nagarahole Tiger Reserve Forest Department. The programme was inaugurated by Gram Panchayath President Shri. Katimada Shareen Muthanna. Deputy conservation of Forest Dr. A. S Murthy spoke on the importance of bee keeping and mushroom cultivation in daily nutrition and additional income for livelihood. Mr. Prabhakar,SMS (Horticulture) delivered a talk on mushroom cultivation, preservation ,value addition and marketing. A method demonstration of preparation of mushroom Ready to fruit bags was done for the gathered participants. On the occasion, ready to fruit bags of mushroom were distributed to the participants. 56 tribal farmers from Nagarahole forest fringe area participated in the training programme.





Live Telecast of 94th ICAR Foundation Day

ICAR-KVK, Kolar organized live telecast of 94th ICAR Foundation day at KVK, Kolar and DFI farmers interactive programme on 16.07.2022. As a part of Bharat ka Amrit Mahostav to commemorate 75 years of India's Independence the Union Minister, Shri. Narendra Singh Tomar released E-compilation of the success stories of 75,000 successful farmers who have more than doubled their income. He also congratulated Krishi Vigyana Kendras for compilation. He exuded his confidence that this compilation will motivate and inspired more and more farms to raise their income. The KVK, Kolar Scientists translated the information in local language to the participants. Similar information of the farmers of the district was discussed to raise the farm income using regional practices. Around 80 farmers had benefitted from the programme.

Awareness Program on PPV&FR Act in Collaboration with ICAR NIVEDI Bengaluru

KVK Kolar organized an awareness program on PPV&FR Act in collaboration with ICAR-NIVEDI Bengaluru in which Sri Krishna Prasad, Founder & Director, Sahaja Samrudha, Bengaluru participated through online gave information on importance and need of conserving the local

varieties on 19.7.2022. Dr. Niranjan Murthy Retired Professor, University of Agricultural Sciences; Bangalore gave a talk on PPV&FR Act and its scope and importance. Smt. Papamma, a well known conservator of seeds of local varieties from Kolar district shared her experiences and also a small exhibition of her collection was also arranged. Principal Scientists and other Scientists of NIVEDI and also KVK Scientists participated along with 60 farmers in the program.

Capacity Building Program on Challenges and Prospects of Butter Fruit Cultivation in Kolar District

Receipt of good rains in recent years, filling of tanks by KC valley water and raising water table in the district is encouraging farmers for diversification of perennial horticulture crops. The area and interest of farmers in butter fruit cultivation is increasing. In this context, KVK Kolar conducted a capacity building program on Challenges and Prospects of butter fruit cultivation in Kolar district in collaboration with ICAR-IIHR, Bengaluru on 26.7.2022 at KVK, Kolar. Dr Sentil Kumar, Principal Scientist, IIHR served as resource person and gave detailed information regarding economic feasibility, cultivation practices and post harvest handling of butter fruit. A total of 60 farmers from Kolar and Chikkaballapura districts have participated in the programme and all the participants were distributed with butter fruit plants in order to encourage farmers to cultivate the crops.





Black Pepper is an Important Inter Crop in Coffee Bas Director of Atari Visits ICAR KVK Koppal

Director of ICAR ATARI Dr.V.Subramanian visited ICAR KVK Koppal on 20/7/2022, reviewed the activities of KVK. Later, ATARI director participated in method demonstration conducted in KVK field on paddy transplanter and interacted with the farmers. Further, visited the progressive farmer Sri. Basayya Hiremath moringa leaf processing unit and explored the organic moringa field.



Pruning Techniques in Mango

Pruning is the important cultural operation in mango which has to be done in the month of July to get the new twigs, further flowering will occur on the same mature twigs in the month of December and January. ICAR-KVK Gangavathi on 25.07.2022 demonstrated the pruning technique in mango field of farmer where the FLD demonstration has taken up. The farmers was also instructed to apply copperoxy chloride paste on the cut surfaces on mango twigs immediately to avoid the infection.





Campaign for Interventions Under NICRA Programme at Kumarakom Village

A campaign was conducted by the scientists of ICAR-KVK, Kottayam under NICRA Project at Kumarakom village. During monsoon, flooding of uplands is a common occurrence causing hindrance to agricultural activities. Cultivation of vegetables on vertical stands as well as floating rafts was exhibited to the farmers as methods to overcome climatic vagaries. Rice cultivation is carried out in around 70 acres of rice fields in Kumarakom village. Pest and disease management in rice is the major concern of the farmers. Soil samples were collected from the rice fields, analysed and site specific recommendations for lime and fertilizers were provided to manage soil fertility. Seed treatment was demonstrated to the farmers as an effective measure to reduce crop diseases. Pseudomonas required for seed treatment was distributed to the stakeholders. Interventions required for controlling weedy rice were also demonstrated. During the first crop season, the farmers practice broadcasting of sprouted seeds at a high seed rate. Sowing of sprouted seeds with seed drum was demonstrated in two acres of paddy field with 60 per cent reduction in seed rate without any increase in labour cost. The farmers were convinced about the effective way to reduce cost of cultivation.



ICAR- Krishi Vigyan Kendra KOZHIKODE



Smt. Bindu Joseph, Kozhikode Received Pandit Deendayal Upadhyaya Antyodaya Krishi Puruskar – 2021

On 16th July, 2022 Smt. Bindu Joseph, a progressive farm women cum entrepreneur, Renduplakar House, Panthiraikara, Kozhikode received Pandit Deendayal Upadhyaya Antyodaya Krishi Puruskar – 2021 during the celebration of 94th Foundation day celebration in NASC complex, New Delhi. She received this National Award from honourable Union Minister of Agriculture and Farmers Welfare Shri. Narendra Singh Tomar at a function held in A.P. Shinde Hall, NASC Complex, New Delhi. The award was bestowed to her in consideration of her contributions towards quality seedlings production and supply to the farmers. She has a plant nursery which was initially started with few plants in 36 cents of own land around the house which soon became a roaring success. She also focuses on mass production of coconut seedlings, exotic fruit and ornamental saplings, ginger, turmeric seeds, etc along with effective utilization of land resources and inputs, innovative methods of dissemination of agricultural knowledge, etc. The farm is also considered to be the largest bush pepper production unit. She is a You tuber with 110 videos uploaded and her channel "Tech flora" is being subscribed by about one lakh farmers. As a teacher she made awareness and

spread the knowledge of farming to the school kids, visiting farmers, etc. She used to quote that she is able to generate income of 36 acres land from her own 36 cents of land by way of innovative and dedicated farming practices.

Smt Bindu Joseph was felicitated by Dr V. Venkitasubramanian, Director, ATARI along with KVK, Kozhikode staff during a programme held in KVK, Peruvannamuizhi on 27 July, 22 and by Research Advisory Committee of Indian Institute of Spice Research, Kozhikode on 28 July, 22.



Director, ATARI's Filed Visit in Kozhikode District

Dr V. Venkitasubramanian, Director, ATARI, Bangalore made three days field visit to about twelve progressive farmer fields in Kozhikode district. The programmes were coordinated by KVK, Kozhikode as visit to awarde farmer fields and progressive farmers practicing innovative agriculture, natural farming, etc. Along with him, Dr P. Ratha Krishnan, Programme Coordinator, KVK and Subject Matter Experts from KVK were also attended the event. This visit also includes NICRA project site visit and interaction with beneficiaries in Maruthonkara Panchayat. Among them, Brackish water aquaculture, value addition, integrated farming, mushroom cultivation, Bee keeping and natural farming fields attains special attraction and further guidance by the team.





ICAR- Krishi Vigyan Kendra MALAPPURAM



Participation in ICAR Foundation Day at New Delhi

Sri Mohammed Ameer Babu K. nominated by ICAR-KVK Malappuram, bagged the Jagjivan Ram Innovative farmer Award of ICAR for the year 2021. The award consisting of a certificate, citation and prize money of 1 lakh rupees was received by the farmer at New Delhi during the 94th foundation day of ICAR, from the Central Agricultural Minister Mr. Narendra Singh Tomer, in the presence of other dignitaries of the union cabinet as well as ICAR. The programme coordinator of the KVK also participated in the award distribution ceremony at New Delhi

Agriculture Technology Sensitization Visit by School Students

In order to develop interest and a positive attitude among school children towards agriculture, 86 students and 5 teachers of AUP school Malamakavu visited KVK Malappuram on 20-07-22. The propagation methods like budding, grafting, layering etc. were demonstrated for the students and also given a class on overall activities of Krishi vigyan Kendra.

Awardee Farmers Honored

The award winning farmers of Malappuram District, Sri Mohammed Ameer Babu K. who bagged the National Award - Jagjivan Ram Innovative farmer award 2021, and the best woman entrepreneur Smt. Sushamma P.T. selected for the Kishi Samridhi award 2021 of ATARI Zone XI, Bengaluru were honoured at ICAR-KVK Malappuram on 23rd July. The Director ATARI, Dr. V. Venkatasubramanian, Director of extension, Kerala Agricultural University Dr. Jayasree Krishnan Kutty and Dean, KCAET, Dr. K. K. Sathian participated in the function along with other KVK scientists, staff and farmers.



Method Demonstration on Rhinoceros Beetle Management in Coconut Plantation

Two scientists of KVK Malappuram, Dr. Najitha Ummer, (Agricultural Entomology) and Dr. Jasna V. K. (Agricultural extension) visited the coconut plantation with regular infestation of rhinoceros beetle and red palm weevil. The severity of infestation was assessed and demonstrated various management measures against rhinoceros beetle and red palm weevil like netting the spindle leaf with adjacent leaf bases, leaf axil filling of neem cake sand mixture, installation of pheromone traps etc.





Stakeholders Meeting of ATARI Research Project on IFS for the Southern Dry Zone and Eastern Dry Zone on 29.07.2022.

One day Stakeholders meeting of ATARI research project on IFS for the southern dry zone and Eastern dry zone was organized by ICAR- ATARI and ICAR-Krishi Vigyan Kendra on 29.07.2022 at, KVK, V.C. Fram, Mandya. The programme was inaugurated by Dr. D.V. Srinivas Reddy, Principal Scientist (Agronomy), ICAR- ATARI, Bengaluru. Dr. N.T Naresh, Senior scientist and Head welcomed the dignitaries, Senior Scientist and Heads and Scientists of other KVK's and also the progressive farmers. Dr. D.V. Srinivas Reddy has discussed about questionnaires and also selected the taluks from both the agro climatic zones and identified the scientists from each KVK's to coordinate the research project on IFS. All the Scientists, Officials from the line departments and progressive farmers were expressed their opinions and also provided situation based suggestions. The stakeholder meeting has been closed with vote of thanks delivered by Dr.B.T.Raydu, Principal Scientist (Agricultural Extension) ICAR- ATARI, Bengaluru. Total 35 extension functionaries, 8 Officials and 10 farmers witnessed and gained knowledge during the programme.





ICAR Foundation Day at ICAR JSSKVK, Suttur

94th ICAR Foundation has been observed at ICAR JSS Krishi Vigyan Kendra, Suttur on 16th July 2022. KVK arranged live telecast programme of Sri. Narendra Singh Thomarji, Ministry of Agriculture, Gol and Dr. Thrilochan Mahapathra, Director, ICAR held at New Delhi.

During this programme, Smt. H.V. Divya, Senior Scientist and Head (I/c) delivered a lecture on seed treatment, nutrient management, mechanization of paddy and nono-fertilizer usage in paddy.

Sri. Shamaraj, Scientist (Agronomy) delivered lecture on renewable energy, energy sources and efficient usage of electricity in farming. 54 farmers and farmwomen were witnessed the programme.



Training Programme for Scheduled Tribes on Desi Varieties of Seed Production, Protection and Conservation

Seed production, protection and conservation training programme has been organized incollaboration with Swami Vivekananda Youth Movement, Saragur for scheduled tribes of AG halli, Hunsekuppe, H.D. Kote taluk on 21.07.2022.

Sri. H.V. Kalappa, resource person delivered a lecture on seed production, protection and conservation of various varieties of vegetable crops viz., Bhendi, Tomato, turmeric, carrot, onion, chilly and leafy vegetables. 37 farmers and farmwomen were attended the programme.



State Bank of India March Towards Farmers

State Bank of India organized a programme on "SBI Bank march towards Farmers". In this programme bank explained about the various loan facilities offered to the farmers. During this event Smt. H.V. Divya, Senior Scientist and Head (I/c) attended as resource person and explained about various schemes implemented by Govt. of India for farmers , such as PMFME, startup for agri related enterprises, ASCI skill training programs etc., More than 700 farmers and farmwomen were participated in the programme.





Visit to the NICRA Village by ATARI Director

Dr. V. Venkatasubrahmanian, Director ICAR-ATARI, Zone XI visited the NICRA village under Krishi Vigyan Kendra Palakkad. The chosen village Pattithara of Palakkad is known for its rich agrarian culture. However, farmers are facing difficulty in cultivation due to vagaries of climate. 32 acres of land is left fallow over a period of 35 years due to water inundation during rainy season and water scarcity during third crop season. A good portion of the cultivable land cannot be cultivated during rainy season due to water stagnation. The farmers are unable to take up third crop due to shortage of water during that period. The Director had a brief discussion with the Panchayath President Sri. P. Balan, other local self-government representatives, line department officials and padashekaram representatives, regarding the possibilities and constraints on conducting the programme. Thereafter, a field visit was also conducted to problem areas. The discussion was fruitful with many new directions on implementing the programme.



Capacity Development Programme on 'Biogas - for Waste Management and Energy Conservation'

KVK Palakkad had conducted a capacity building programme entitled 'Biogas- for waste management and energy conservation' for interested farmers. The programme was funded by Petroleum Conservation Research Association (PCRA) in collaboration with ICAR to create awareness among farmers about the need of energy conservation and potential of renewable energy sources. The session was handled by Dr. Shaji James, Professor (Rtd.) Farm Power and Machinery, Kerala Agricultural University. The programme was attended by 40 trainees.



Celebration of 94th ICAR Foundation Day and Interaction of DFI Farmers

KVK Palakkad conducted live streaming of 94th ICAR foundation day and award ceremony for farmer of Palakkad district. One hundred and ten farmers whose success stories were included in the book released by ICAR were invited for the function.

Other farmers were also invited so that the success story of the selected farmers will be an inspiration for them. A farmer scientist interaction was also organized along with this. Scientists from KVK Palakkad and RARS Pattambi were members of the discussion panel.

Inauguration of Custom Hiring Centre for Farm Machinery at KVK Palakkad

The custom hiring centre for farm machinery at KVK Palakkad was inaugurated by Dr. V. Venkitta Subramanian, Director, ATARI, Bangalore on 25th July 2022. The custom hiring centre was established with the financial support of the state planning board last year. Machines suited for paddy fields as well as garden lands were purchased. Mini tiller, seed cum fertilizer drill, paddy drum seeder, pole pruner, brush cutter with reaping attachment, rocker



sprayer, etc. are some of them. One group of five, two men and three women were selected to operate the machines. Hands-on training for this group on the operation, repair, and maintenance of the farm machinery will be given soon.

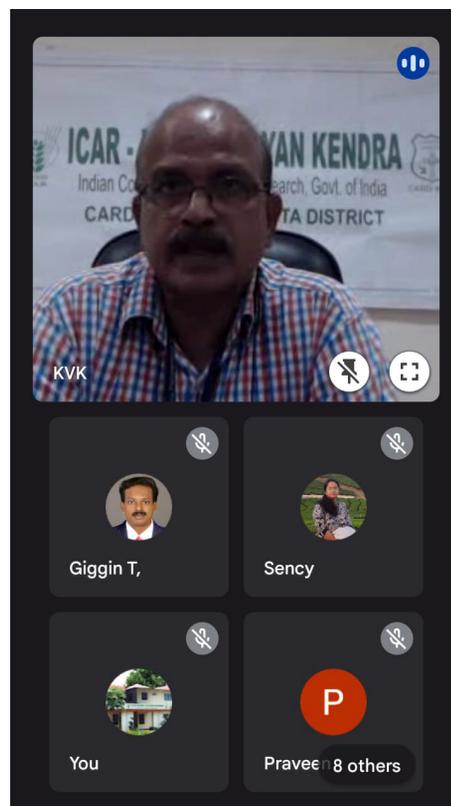


ICAR- Krishi Vigyan Kendra PATHANAMTHITTA

Webinar on IOT Based Smart Dairy Farming

Dairy farming, though an attractive and lucrative business, is still a drudgery prone enterprise, which involves hard work. Lately it is seen that this sector is being earnestly taken up by the younger generation who are fond of 'smart work' rather than 'hard work'. Data-driven techniques are creating greater opportunities for 'smart dairy farming' with the help of sensor devices to keep them aware of the status of every cow in their farm. It is a time-consuming as well as an impossible task to monitor each and every cow individually and manually for disease onset. An animal suffering from any disease changes its daily routine habits like sitting, standing, walking, eating, ruminating and drinking. Sensors detect minute changes in animal body that are not normally detected by humans and alert the farmer through messages on their mobiles and thereby make it easy for a farmer to deal with it in the appropriate way. This will help in calling the veterinarian early and can save the animal from serious complications.

Detecting heat and opting the right time for insemination is another complex task that a dairy farmer has to do correctly failing which leads to higher management and feeding costs. The automatic heat detection through sensors can assist in better fertility management and thereby aim for maximum productivity. In order to create awareness on Smart Dairy farming,



ICAR-KrishiVigyan Kendra, Pathanamthitta organised a one day Webinar on “ IOT based Smart Dairy farming” on 29th July 2022. The seminar was inaugurated by Dr. C.P Robert, Senior Scientist and Head, ICAR-KVK, Pathanamthitta. The lead talk was delivered by Dr. Giggin T, Assistant Professor, Kerala Agricultural University. Dr. Sency Mathew, SMS (Animal Science), Mr. Praveen, , Chief Technical Officer, Brainwired Start up also delivered talks on the topic. The Webinar paved way for attracting dairy farmers to associate with KVK in the conduct of its demonstration in their farm to promote the concept.

Launching of KVK Interventions in The Cluster Village

Krishi Vigyan Kendra, Pathanamthitta inaugurated the launching of KVK’s interventions in the newly adopted cluster in the district on 13th July 2022. KVK has adopted

seven panchayats of Malappally block as cluster area for 3 years from 2022 to 2025. The inauguration of the Launching programme was done by Smt. Bindu Chandramohan, President, Malappally Block Panchayat. The Key note address was delivered by Dr. C.P Robert, Senior Scientist and Head, ICAR-KVK, Pathanamthitta followed by presentation on Intervention details by the subject experts of KVK, Pathanamthitta. Officials from Line departments, ATMA, People representatives of Malappally block and farmers participated in the programme. KVK as part of Participatory Rural Appraisal programme, for identification of problems and prioritizing the same for formulating suitable interventions organized Scientist – People representative interface at KVK on 26th May 2022. This interface followed by discussion with officials from various line departments paved way for formulation of interventions for the cluster villages for the year 2022.





ICAR- Krishi Vigyan Kendra RAMANAGARA

ICAR-Krishi Vigyan Kendra Ramanagara Bestowed with National Award

ICAR-Krishi Vigyan Kendra Ramanagara functioning under University of Agricultural Sciences, Bangalore and ATARI zone XI bagged the National Award "Pandit Deendayal Upadhyay Rashtriya Krishi Vigyan Protsahan Puraskar-2021" from the auspicious hands of honourable Union Minister for Agriculture and Farmers welfare, Shri. Narendra Singh Tomar for outstanding performance. The award was bestowed at 94th Foundation Day of the Indian Council of Agricultural Research (ICAR) on Saturday 16.07.2022, at A.P Shindhe hall, NASC complex New Delhi. Dr. Rajendra Prasad, S., Vice-Chancellor, UAS(B) Dr. Narayan Gowda, K., Director of Extension, UAS (B), Dr. Savita, S. Manganavar, Senior Scientist and Head, ICAR-KVK, Ramanagara participated in the event and received the award.

Also, KVK Ramanagara organised a capacity development programme and celebration of foundation day at KVK premises. Dr. Lata, R. Kulkarni, Scientist (Home Science) highlighted about celebration of foundation day and activities of KVK. The celebration of 94th foundation day and address by Union Minister of Agriculture Shri. Narendra Singh Tomar was directly telecasted through video conference to the farmers of the district. Sri. Puttaswamy, President of Raitha Sangha, Smt. Anita, ADA, Ramanagara, Smt. Asha, Deputy Director of Sericulture, Magadi Sri. Nazim, AHO, Magadi, Smt. Lakshmi Devamma, Gram



Panchayat member, Kalya graced the occasion. More than 200 farmers participated in this special occasion and KVK scientists delivered lectures on Integrated Farming System and use of Drones in Agriculture. Farmers expressed their happiness for KVK Ramanagara being recognized at national level and shared their experiences. Scientists Dr. Dinesh, M.S., Dr. Rajendra Prasad, Mrs Preethu, D.C., Dr. Sowjanya, S., Miss. Shanta Balgonda, Miss Ranjeetha and all the staffs of KVK participated in this special occasion.





Convocation for DAESI (Diploma in Agricultural Extension Services for Input Dealers) Students

ICAR-Krishi Vigyan Kendra, Shivamogga organized Convocation for DAESI (Diploma in Agricultural Extension Services for Input dealers) students of the year 2021-22 at KVK, Shivamogga on 22-07-2022. At the outset, Dr. B. C. Hanumanthaswamy, Senior Scientist and Head, KVK, Shivamogga given introductory speech and welcomed everyone. In his key note he explained about DAESI programme as Agri-Input Dealers in the country is a prime source of farm information to the farming community, besides the supply of inputs and provide credit. However, majority of these dealers do not have formal agricultural education. In order to build their technical competency in agriculture and to facilitate them to serve the farmers better and to act as para – extension professionals the National Institute of Agricultural Extension Management (MANAGE) has launched One-year course of Diploma in Agricultural Extension Services for Input Dealers (DAESI) in collaboration with agricultural universities, Krishi Vigyan Kendras and state department of agriculture. The technical information is delivering through Contact Classes by Agricultural Experts & Practitioners at district level on Sundays or Market holidays for 48 day classes including field visits spread over the year. The programme was inaugurated by Dr. B. Hemla Naik, Director of Extension, KSNUAHS, Shivamogga., and the chief guest, of the programme was Dr. B.



M. Dushyanth Kumar, Dean (Agri.), KSNUAHS. During the programme, 41 DEASI students received the certificates. Among them one gold medal, 1 silver medal and 1 bronze medal and other 3 distinction certificates were distributed for the students who have scored highest marks. Dr. Poornima, G. C., Joint Director, Agriculture Department, , Dr. S. U. Patil, Associate Director of Extension, Dr. Arunkumar, P., Scientist (Agril. Extension),. Dr. M. K. Basavaraja, Facilitator, DAESI, Scientists and staff of KVK, Shivamogga were also participated in the programme.





Entrepreneur Development of SC Farmers through Fish Processing

A vocational training programme on “Entrepreneurship Development of SC Farmers through Fish Processing” was hosted by Krishi Vigyan Kendra, Thrissur from 20-7-2022 to 23-7-2022. The beneficiaries were 25 self-help group members from Thrissur Corporation and Mathilakam Grama Panchayath. Dr. Sajeew M.V., Senior Scientist and Nodal Officer of SCSP-CIFT, delivered the keynote address for the training programme. Dr. Jeyakumari.A, Senior Scientist, CIFT gave the lecture on “The scope and opportunities of fish processing”.

This was followed by the hands-on sessions on fish dehydration and fish pickle production by Dr. Jeyakumari and Dr. Sreepriya. Solar dehydrated technology was demonstrated using the CIFT solar dryer installed at KVK Thrissur. follow-up programme was conducted at Mathilakam to assess the fish products prepared after

training. The small-scale fish processing units of the beneficiaries were visited by the KVK team and suggestions were given for improvement. A focus group discussion was conducted to give technical support and to discuss the possibility of starting a unit under a common brand.





Hydroponics Green Fodder Production Training Programme

KVK conducted a mass populated training programme on “Hydroponics Green Fodder Production” at Poojapura Saraswathy Mandhapom as a part of NABARD funded project on 22nd July 2022. Dairy farmers from all blocks of Thiruvananthapuram district participated in the training. The training was attended by 125 farmers and extension persons. The programme was presided by Dr.Reghu Ramdas, Joint Director, Mitraniketan. Dr. Gopa Kumaran Nair G, CGM, NABARD inaugurated the programme by lighting the traditional lamp. In his address, CGM said that HGF production would address the problem of lack of fodder to milch animals to a large extent. The welcome speech was delivered by Dr.Binu John Sam, Senior Scientist & Head, KVK. Smt.Sindhu R, Deputy Director, Dairy Development Department discussed about various schemes being organized by their department for farmers. Smt. Nisha A Salim and Smt. Parvathi Krishna Prasad, Assistant Directors of Dairy Development Department delivered facilitation address. Smt. Minu Anwar, AGM, NABARD explained the details of the project implemented by KVK. Smt. Manju Thomas, Subject Matter Specialist in Horticulture delivered vote of thanks.



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The training was conducted by Er.Chithra G., Subject Matter Specialist in Agricultural Engineering. The farmers were well introduced to the technique and doubts on the said topic were cleared. For more understanding live demonstration of the hydroponics green fodder production was demonstrated at the site. The cycle of production starting from 1st day to 7th was seen by farmers. The capacity of the structure was 6 kg/day. The farmers showed interest to adopt the technology based on the number of cows they are rearing.



ICAR KVK MITRANIKETAN Vellandupara



ICAR- Krishi Vigyan Kendra TUMAKURU

On Campus Training on Oyster Mushroom Cultivation

On-campus training on Oyster mushroom cultivation was conducted on 19th July 2022 at ICAR-Krishi Vigyan Kendra, Hirehalli. Shri Ramesh P.R, SMS -Soil Science delivered lecture on spawn production techniques. Smt. Radha R. Banakar SMS - Home Science gave a lecture on nutritional importance of different kinds of mushrooms along with oyster mushroom cultivation technique. Later Trainees were demonstrated mushroom bag filling and bag incubation methods. At the end, certificates and training manuals were distributed to the all participants. 29 farmers and farmwomen attended this training programme from Tumakuru and neighbouring districts.



Coconut Value Addition Under EDP programme by Smt. Chandrakala Nagesh, Tumakuru

On-campus training on coconut value addition under EDP programme was conducted on 27th July 2022 at ICAR-Krishi Vigyan Kendra, Hirehalli. Mrs. Radha R. Banakar SMS- Home Science explained about the training programme. Dr. N. Loganandhan, Principal Scientist and Head explained about the importance of coconut value addition as coconut products were selected under One District One Product (ODOP) for Tumakuru district. Mrs. Chandrakala Nagesh participated in this training programme as resource person. She demonstrated preparation of value added products like Coconut chips, burfi, coconut-flax seed laddu, coconut -millet laddu, coconut biscuit, and cookies etc., More than 35 Farmwomen participated in the programme. Team members from SHG M/s Hallisiri, Thovinakere, Tumakuru also took part in the programme.





Our Crop Our Brand-Training Programme on White Velvet Bhendi

ICAR-Krishi Vigyan Kendra in Association with KSDH, Karkala, Farmers producers' organization and Nation Rural livelihood campaign has organized our crop our brand-Karkala white velvet bhendi seed distribution cum discussion programme on 24.07.2022 at APMC, Karkala taluk.

Shri. V Sunil Kumar, Minister of Kannada and Culture and Energy, Dept. of Govt of Karnataka has inaugurated the programme. In his inaugural speech he spoke about branding of local bhendi cultivar, i.e white velvet. There is a need of complete support from farmers to succeed in branding of crop throughout the country.

Shri. Mohammed Sharif, President of News reporter Association, Karkala, Shri Antoni D'souza, Horticulture, Farmers Producers Organization, Smt. Suma Keshav, President, Purasabhe, Karkala, Vice President Pallavi Praveen, Shri Harischandra Thendulkar, Vice-President, Farmers Producers organization, Dr. Lakshman, A D R, ZAHRS, Bramavar, Dr. B Dhananjaya, Senior Scientist & Head, KVK Brahavar, Smt. Bhuvaneshwari, Deputy Director of Horticulture, Zilla Panchayath Udupi were chief guest of the programme.

Shri. Balakrishna Bhimagudi, Treasures, Reporters association welcomed the gatherings, Shri Pramith Suvarna, CEO, FPO, Karkala co-ordinated the programme. Shri Shrinivasa Rao, SADH, Dept of Horticulture gave vote of thanks.





ICAR- Krishi Vigyan Kendra UTTARA KANNADA



ICAR Foundation Day Program and DFI Farmers - Scientists Interaction Program

ICAR foundation day program was celebrated at ICAR Krishi Vigyan Kendra, Sirsi, Uttara Kannada on July 16th, 2022. Successful DFI documented farmers were invited for the program. Live telecast of ICAR foundation day program was arranged for the gathered farmers. During this event, DFI farmers -Scientists interaction program was organized on "contingency cropping planning for heavy rain situation in Uttara Kannada district". Program was inaugurated by Dr P.S.Hugar, Associate Director of Extension, UAS, Dharwad. Dr. Vasudev R., Dean, College of Forestry, Sirsi chaired the farmers- interaction program. Shri Nataraj, Deputy Director, KSDA, Uttara Kannada, Shri Madhukeshwara Naik, Assistant Director of Agriculture, KSDA, Sirsi and Smt Leela Shetty progressive farm women were the chief guests of the program. Dr. Shivashenkaramurthy M, Scientist, KVK Sirsi delivered the lecture on contingency cropping plan for Paddy, Maize, Arecanut, Ginger and sugarcane crop under heavy rain fall situation in Uttara Kannada district. Finally, all the scientists of KVK interacted with farmers about the problems of their crops.

Field Day on Dhaincha Green Manuring Crop

Poor soil fertility is the major problem in paddy production in Uttara Kannada district. Kolagi village of Mundgod taluk, Bisilukoppa village of Sirsi taluk and Balagara village of Yellapur taluk were selected as operational areas to address poor soil fertility problem.. During kharif 2022, Front line demonstrations on



"Enhancing soil fertility through Dhiancha green manuring crop "were implemented in an area of 15 acres in 15 farmers field. After successful of growth of dhaincha green manuring crop, field day program was organised at Kolagi village on July 21st , 2022. Dr. Majnu M.J., Senior Scientist and Head, and Dr. Shivashenkaramurthy M., Scientist, KVK, Sirsi participated in this program and given information to farmers on importance of green manuring crop in building soil fertility, moisture conservation, supply of all nutrients and development of immunity in crop plants against pest and diseases.

ICAR-KVK, Uttara Kannada Sirsi Celebrated Vanamahotsa (Tree Planting Programme)

CAR-KVK,UK Sirsi celebrated Vanamahotsava (Planting programme) at Kongod village of Sirsi taluk on 22.07.2022 Dr. I. S Katageri Director of Extension, UAS, Dharwad inaugurated the programme by planting of Lakshman phal saplings & Dr.PS Hugar, Associate Director of Extension, Dr Manju M J. Sr.Scientist & Head and scientists of KVKs were also participated in the planting programme.





Pisciculture in Farm Pond

Fish farming or pisciculture is a form of aquaculture in which fish are raised in enclosures to be sold as food. It is the fastest growing area of animal food production. Today about half the fish consumed globally are raised in these artificial environment. KVK Vijayapura introduced composite fish culture farming in the farm ponds as a new income generation activity to the farming community of Vijayapura district. Fish farming in farm ponds will be new venture to help farmers and earn additional income. The progressive farmer shri. Mallikarjun Siddapur of Mulwad village in Basavan Bagewadi Taluk of Vijayapura district. Who adopted Integrated

farming system in his farm. However fish culture farming is not adopted by him though he has 100mt x 100mt size farm pond with a depth of 20ft and available water year round in the pond. The fish farming introduced in his farm pond with the species used in composite culture includes 3 species of carps are Catla, Rohu and Comman carp. Each fish species had a certain feed preference, which is related to the position of the fish in the pond, like surface feeder, middle feeder and bottom feeder. During the release of fish fingerlings, Dr.R.B.Belli, Associate Director of Extension, Dr,Shubha.S, Senior Scientist & Head and Mr.B.C.Kolhar,Sr.Technical officer, KVK Vijayapur were present.



ICAR Foundation Day Live Webcast and ICM in Pigeonpea Training Programme

On the occasion of 94th of foundation day of Indian Council of Agriculture Research, New Delhi and release of success stories of farmers whose income doubled or more than doubled. The programme on 16.07.2022 is live webcasted at ICAR-Krishi Vigyan Kendra, Indi. On this occasion an on campus training on Integrated Crop Management in Pigeonpea organized. Dr. Prema B. Patil, Senior Scientist and Head, ICAR-KVK, Indi briefed about the training that Pigeonpeas an important crop of this area requested the farming community to utilize the benefit of this training. Sri. S.T. Koli, Progressive farmer of Manakanlagi village of Chadachana taluka, Sri. Irranna Kudari farmer of Ahirasanga village who is organic and award winning farmer, Sri. Raghavendra, Kodahaonna of

Ahirsanga village and member of scientific advisory committee of KVK Indi were special invitees to the programme and they shared their experiences in agriculture and diary activities. A technical session on Pigeonpea organised. Dr. Savita B. Scientist (Soil Science), KVK, Indi explained about the nutrient management in pigeonpea and explained about importance of pulse magic at the time of flowering. Dr. Arjun R. Sulagitti, Scientist (Ag. Entomology), KVK Indi explained about the pest and disease management in Pigeonpea. In this programme more than 50 farmers participated and benefitted. The programme was ended with a vote of thanks by Mr. Majeed G, Technical Officer (Computer).



ICAR- Krishi Vigyan Kendra WAYANAD

One Day Training Programme to Palliyara Farmers

KVK Wayanad, conducted one day awareness and training programme to farmers of Kaniyampetta Krishibhavan. The programme was inaugurated by Smt. Kamala Raman, Kaniyampetta Panchayath President. Training on detailed preparation and application of

Pseudomonas, Trichoderma, entomopathogens, bio fertilizers were dealt in the training. Farmers got a good exposure about the agents as they were unaware about the use and application of these agents. They were exposed to these products for the first time as the farmers here are following traditional patterns of planting and crop management.



Farmer Scientist Interface

KVK Wayanad conducted one day training programme and farmer -Scientist interaction on the topic "Nursery Management of Pepper" at Seethamount, Pulpally. Dr. Safia N. E, Programme Coordinator, KVK Wayanad welcomed the gathering. Sri. Jose P. K, Standing Committee Chairman, delivered the presidential address. Sri. Vijayan P. K, Grama Panchayath President, Mullankolly inaugurated the programme. Dr. Jayaraj P, Programme Coordinator, KVK Kannur and faculties of KVK Wayanad handled the classes. Farmers actively involved in the interactive session. Sri. Ajil M. S, Agricultural Officer, Mullankolly delivered vote of thanks.





ICAR- Krishi Vigyan Kendra YADGIR



ICAR 94th Foundation Day Celebration

ICAR-KVK, Yadgir (Kawadimatti) organized live telecast programme of Indian Council of Agricultural Research (ICAR), New Delhi Celebrating 94th Foundation Day on 16.07.2022 for 110 DFI farmers of Yadgir District. ICAR-KVK, Yadgir has identified 110 farmers from 6 villages in the district and the socio-economic baseline survey was conducted before implementing the Hon'ble PM's DFI programme at each selected villages from 2017-18 to 2020-21. KVK, Yadgir has implemented DFI programme through demonstration of improved technologies, Farm Mechanization, judicious use of natural resources, IPM, ICM, Modern Sheep & Goat Rearing, hi-tech horticulture. KVK has taken up skill development programmes on farm mechanization, hi-tech horticulture, stall fed sheep & goat rearing for rural youths and farmers. The success stories of 110 DFI farmers is documented and displayed in the ICAR-KVK, Yadgir. On the view of 94th ICAR Foundation Day, all the 110 DFI farmers are invited to KVK, Yadgir Office premises to witness the live telecast programme. Farmer Basanagouda Patil shared his experience with KVK, Yadgir for doubling his income from agriculture and

allied activities. He has taken technical support from KVK, Yadgir for his hi-tech stall fed sheep & goat rearing, IFS and farm mechanization for doubling his farm income. Another Farmer Mallikarjun Chetti has shared his experience on cultivation of new dragon fruit along with IFS activities in his farm for doubling farm income. Dr. Umesh Barikar, Scientist of KVK, Yadgir briefed about the programme for all the invited farmers and shared the success stories of DFI farmers implemented by ICAR-KVK, Yadgir. The 150 farmers have participated and benefited from the Livetelecast programme. The Staff of KVK, Yadgir has participated in the event and made the programme grand success.

Two Days NSS Camp

ICAR-KVK, Yadgir organized NSS Camp on 26.07.2022 to 27.07.2022 for two days in collaboration with first grade degree college Rangampet of Shorapur (Tq), Yadgir (Dt.) at KVK, Yadgir. The programme was inaugurated by Senior Scientist and Head, Dr. JaiPrakash Narayan R.P, briefed about the principles and practices of Sustainable Agriculture to Yadgir district. Mr. Guru Prasad. H (Entomology) of ICAR-KVK, Yadgir briefed about the use of sustainable agriculture to students. Nearly 110 students were participated successfully.



KOLLAM

Kollam (erstwhile Quilon) is a southern district of Kerala on 8° 54' N latitude and 76° 38' E longitude. It is flanked by the Arabian sea on the west, Tamil Nadu on the east, Alapuzha and Pathanamthitta districts on the north and Thiruvananthapuram district on the south. Housing a population of over 2.6 million, Kollam is one of the more densely peopled districts of India.

The heart land of Kollam is naturally veined by the Ashtamudi lake, a massive, multi-branched water body, which is also a attraction for tourists. A number of islands of varying sizes beautifully spot the vast expanse of the lake. Sasthancotta lake, the only fresh water lake in the state is in Kollam District. Kollam also has a considerably large forest cover on its eastern side making home for several eco tourism projects like Shenduruni wildlife sanctuary, Thenmala eco tourism , Palaruvi and Kumbavuruty falls.

Kollam boasts of a long history of political, commercial and cultural importance having found mention in several ancient travelers' accounts. With a varied colonial past under the Portuguese, the Dutch and the British.

Kollam has been the centre of cashew industry in Kerala from the time of the Portuguese in 16th century Having hundreds of working cashew factories in the district, Kollam still continues to be the largest processed cashew exporter in India. Neendakara and Thangasseri, the two fishing harbours and ports in Kollam, support a thriving marine industry providing a variety of employment and livelihood to people in large numbers.



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