



कृषि विज्ञान केंद्र
Krishi Vigyan Kendra
Serving Farmers



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

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KVK TIMES



HISTORICAL HERITAGE SITES



Hasanamba Temple



Hoysaleswara Temple, Halebeedu



Chennakeshava Temple, Belur



*The Gommateshwara Statue (Bahubali)
Shravanbelagola*



Shettihalli Rosary Church, Shettihalli

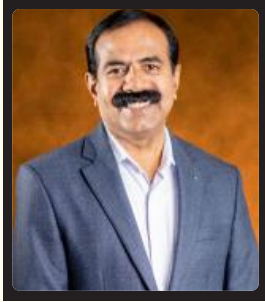


Manjarabad Fort, Sakleshpura





University of Agricultural Sciences, Bangalore



Dr. S. V. SURESHA
Vice Chancellor

FOREWORD

I am pleased to extend my heartfelt congratulations to ICAR-KVK, Hassan for its significant contribution in publishing the esteemed "**KVK Times**" under the auspices of ICAR-ATARI, Bengaluru. Since its inception in 1992 under the University of Agricultural Sciences, Bangalore, ICAR-KVK, Hassan has shown remarkable dedication to technology transfer besides involving in various extension activities. Through on-campus and off-campus trainings, as well as Front Line demonstrations, they have played a pivotal role in advancing agricultural practices and disseminating knowledge.

Recognizing the vital role these KVKs play in bridging the gap between research and grassroots farming practices is paramount. Through their mandatory activities, KVKs address local needs and constraints, striving to enhance agricultural yield and productivity, thereby transforming the lives of countless individuals.

I commend the initiative spearheaded by ICAR-ATARI Bengaluru, Zone XI, in launching the fortnightly e-newsletter, "**KVK TIMES**". This platform serves as a vital conduit to illuminate the remarkable initiatives and events by KVKs throughout the jurisdiction.

The commendable efforts of the ICAR-KVK, Kandali, Hassan in compiling "**KVK Times**" Vol. II Issue 17 for the period spanning 1st to 15th March, 2024, deserve sincere accolades. Their genuine concern and exceptional service to the farming community are evident and I anticipate that their endeavors will substantially enhance the livelihoods of farmers.

By showcasing the achievements of KVKs over the past fortnight, this publication not only celebrates their successes but also encourages further innovation and collaboration within the agricultural community. Let us collectively reaffirm our commitment to supporting and uplifting our farming communities, ensuring a sustainable and prosperous future for all.

(S.V. Suresha)
Vice Chancellor



University of Agricultural Sciences, Bangalore



PRELUDE

Dr. V.L. MADHUPRASAD
Director of Extension

KVKs across the nation have made efforts to reach out to farmers through a variety of approaches. This Krishi Vigyan Kendra (KVK) is an Agricultural Extension Center established at the district level by the Indian Council for Agricultural Research (ICAR) and its affiliated institutions that offers various types of farm encouragement to the farming community.

As one of the largest and most effective extension programs, KVK serves as the district's knowledge and resource hub for agricultural technology, conducts assessment, demonstration of various technologies, capacity building programs for various stake holders and supply of quality input materials to address the location-specific agricultural problems using various extension methods.

The Directorate of Extension constantly serving as the driving force to support KVKs efforts, encouraging them to accomplish higher standards in meeting the needs of the farming community as a whole. In this approach, "KVK Times" will grow into an excellent platform for all KVKs to get to comprehend each other while also recognizing one another's accomplishments.

With this, I would like to convey my best wishes to the Senior Scientist & Head, ICAR – Krishi Vigyan Kendra, Hassan and his entire team in preparing this fortnightly e-Newsletter KVK Times during the first week of March, 2024.

My best wishes for their future endeavors.

(V.L. Madhuprasad)
Director of Extension



ICAR-Agricultural Technology Application Research Institute, Zone -XI, Bangalore



PREFACE

Dr. V. VENKATASUBRAMANIAN
Director

Agriculture is the main stay of our country and is becoming more time responsive and information intense business. Krishi Vigyan Kendra plays an important role in dissemination of technologies from the research system to the farmers. Primary goal of technological application in agriculture is to assist farm families in adapting and adopting technologies along with marketing strategies to meet the challenges of climate change, rapidly changing socio-political and economic conditions.

In addition, Krishi Vigyan Kendra is also serving as a repository of scientific knowledge that is useful to the entire district in its jurisdiction. There are 48 KVKs established under Zone XI which includes the states of Karnataka, Kerala and Lakshadweep (UT). All KVKs are excelling in their programmes through adopting innovative extension methods and cross learning to keep them abreast with the new developments for motivating the scientists to perform their job in a better way keeping in view of the changing needs of the farmers. Hence “KVK TIMES” would provide the platform for all the KVKs in the zone to share their valuable information for cross learning and showcasing their worthy approaches and achievements. I wish every best for the team KVK Hassan for bringing this issue of “KVK TIMES” in the present form with unique style of presentation of the worthy content.

(V.Venkatasubramanian)
Director



University of Agricultural Sciences, Bangalore



ACKNOWLEDGEMENT

Dr. RAJEGOWDA

Senior Scientist & Head, ICAR, KVK, Hassan

I am delighted and honored to compose and publish the sixth issue of Volume II of KVK Times. It is primarily a collaborative learning opportunity that allows individual KVK to further develop their activities.

I gratefully applaud Dr. S. V. Suresha, the Hon'ble Vice-Chancellor of the University of Agricultural Sciences, Bangalore, for offering essential advice and unflinching encouragement in implementing KVK's activities.

I consider it a privilege to express my heartfelt thanks to Dr. V. L. Madhuprasad, Director of Extension, University of Agricultural Sciences Bangalore, for all his consistent encouragement and direction in allowing KVK Hassan, to serve the needs of the agricultural sector.

I would like to express my heartfelt thanks to Dr. V. Venkatasubramanian, Director, ATARI Zone XI, Bengaluru, for his invaluable assistance, motivation, and reassurance, all of which have enabled us to work more successfully and with better concentration. I would like to thank Dr. M. J. Chandregowda, Principal Scientist, ATARI, and Nodal Officer, KVK Hassan, for his significant advice and support.

I appreciate all 48 KVKs in Zone XI for contributing their events and accomplishments during the period for publication in KVK Times.

I'd like to take the chance to offer my deepest admiration and respect to the energetic staff at KVK Hassan for their genuine and enthusiastic cooperation and participation in all KVK activities. I am grateful to be a member of this team.

(Rajegowda)
Senior Scientist & Head

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Five Days Training Programme on Natural Farming for Community Resource Persons (Krishi Sakhi)

ICAR-KVK, Hassan organized the five days training programme on “Natural Farming” for Community Resource Persons (Krishi Sakhi) of Farm Livelihood Training programme in collaboration with MANAGE, Hyderabad, SANJEEVINI-Karnataka State Rural Livelihood Promotion Society and Department of Skill Development, Entrepreneurship and Livelihood, Government of Karnataka at KVK Hassan from 11-03-2024 to 15-03-2024.

As a part of training, inauguration and felicitation program was organized to UAS, Bangalore Honoree Doctorate Awardee Dr. M. C. Rangaswamy. The programme was inaugurated by Dr. M. J. Chandregowda, Principal Scientist, ATARI, Bangalore, presided by Dr. Rajegowda, Senior Scientist and Head, KVK, Hassan, Mr. Arakalagudu Madhusudhan, Program Coordinator (Krushi Ranga), AIR, Hassan and other special invitees Mr. Devegowda (Progressive Farmer) and Mr. Chandrashekhar, Branch Manager, Union Bank, Kandali, Hassan were present in the programme.

In the inaugural speech, Dr. M. J. Chandregowda addressed that participants of this programme should transfer the technology in effective manner, kirshi sakhi's should encourage integrated farming systems in the farmer's field and help them to achieve sustainability in their income. He also mentioned the achievements of Dr. M. C. Rangaswamy in the field of Agriculture.

The chief guest of the programme Dr. M. C. Rangaswamy addressed the gathering to utilize the opportunity of Krushi Sakhi to impart the knowledge what you gained in this programme.

Dr. Rajegowda, Senior Scientist and Head, KVK, Hassan has chaired the programme and during his presidential remarks he said that trainees should understand the importance of climate change before transfer the technology to the end users and also encourage group marketing rather than individual marketing of products because it will fetch more profit to the farmers.

Dr. Shrinivas Deshpande, Scientist (Agri. Engineering) organized the training and briefed the objectives, motto, roles and aims of SANJEEVINI and Kirishi sakhi's. Dr. Sanketh, C. V., Scientist (Agril. Extension), KVK, Hassan has made introductory remarks. The faculty of KVK Dr. M. Shivashankar, Scientist (Home Science), Dr. Nagaraja, T. Scientist (Plant Protection), Dr. Pallavi N. Scientist (Crop Physiology) and 30 Krushi Sakhi participants and progressive farmers were present in the program. The programme was anchored by Dr. Sakamma, S., Farm manger, KVK, Hassan and the program was grand success.

(Contributors: Dr. Shrinivas Deshpande)



Skill Training Programme on “Nursery Management-Principles and Practices”

ICAR Krishi Vigyan Kendra, Kandali, Hassan, has organized six days Skill training programme on “Nursery Management: Principles and Practices”. The training was sponsored by MANAGE, Hyderabad and the training programme was conducted from 11-16th March 2024 at KVK Hassan and the valedictory of this training was on 16th March 2024. The aim of this training programme was to develop a skill in unemployed youth in nursery management of horticulture crops. About 15 trainees (10 Boys and 5 Girls) from 6 different districts of Karnataka participated in the training programme.

The programme was inaugurated and chaired by Dr. Rajegowda, Senior Scientist and Head, KVK, Hassan. During his inaugural address he mentioned, the scope and importance of plant propagation in Horticulture and he also mentioned that since there is a big demand for skilled persons, he insisted the youths to learn the skills of different propagation techniques as they provide tremendous employment opportunities all over in the field of horticulture.

Dr. Nagaraja, T., Scientist (Plant Protection), KVK, Hassan addressed the gathering and stressed on importance of quality planting material and also motivated the trainees to take up the nursery business

Dr. Pallavi, N., Scientist (Crop Physiology), KVK, Hassan, organized and anchored the programme. During her introductory remarks she briefed the six days training schedule and requested the trainees to utilize the knowledge going to obtain during the training programme.

Dr. M. Shivashankar, Scientist (Home science), Dr. Srinivas Deshpande, Scientist (Agricultural Engineering), Dr. Sanketh, C. V., Scientist (Agricultural Extension), Dr. Sakamma, S. Farm Manager, and all the trainees were participated in the programme

(Contributors: Dr. Pallavi, N.)



Field day of the FLD on Short duration variety of turmeric - Pragati

Field day of the Front Line Demonstration on 'Short duration variety of turmeric – IISR-Pragati' implemented by KVK-Alappuzha was conducted on 20.02.2024 at Muhamma panchayath. IISR-Pragati is a turmeric variety with a short duration of 180 days and potential yield of 38 t/ha, with a curcumin content of 5.02%. Seeds materials of IISR-Pragati and bio agents were provided to 23 partner farmers after training followed by regular field visits of KVK officials. Harvesting of the crop in the field of Sri. Santhappan, a partner farmer, followed by experience sharing was attended by Adv. Lathish B Chandran, Ward member, Muhamma panchayath and Dr. P. Muralidharan, Head, KVK. The partner farmers of the FLD programme expressed their satisfaction on the performance of the variety on the occasion.

(M.S.Rajeev, SMS (Agronomy))

SCSP programme launched

Identified 150 beneficiaries belonging to Scheduled Caste were provided improved breeds of poultry birds (10 each), fruit plants (mango, jack, and sapota grafts, and curry leaf and bush pepper plants) and vegetable seed kit (comprising of six types of vegetable seeds, bio pesticide Nanma, yellow sticky trap, and micronutrient mix sampoorana) under the Scheduled Caste Sub Plan (SCSP) Programme of the KVK in a function organized at Bharanikkavu panchayath community hall on 05.03.2024. Sri. Nikesh Thambi, Member, Alappuzha District Panchayath, Smt. Deepa K, President, Bharanikkavu panchayath, Smt Shyamala Devi, Member, Bharanikkavu block panchayath, Smt V Chellamma, and Sri Shyju, Panchayath ward members, Smt Pooja, Agricultural Officer and Dr. P Muralidharan, Head, KVK addressed about 100 farmers participated in the programme and availed the benefits. The interventions are intended to enhance the nutritional security of the scheduled caste families in the area.

(M.S.Rajeev, SMS (Agronomy) and S. Ravi, SMS (Animal Husbandry))

Rural Agricultural Work Experience Programme for B Sc (Ag) students

RAWE programme of five weeks duration was organized for B Sc (Ag) final year students of Lovely Professional University, Punjab from 1st February to 7th March 2024 in the KVK. Four students who attended the programmed were oriented about KVK and its mandatory activities, major crops of Kerala, plant propagation methods, Mushroom cultivation and spawn production, in situ compost preparation, vertical gardening, integrated farming system and poultry management. They were also exposed to handling of land preparation machineries, landscaping activities and value addition of agricultural produces and processing machineries. They were oriented and prepared for conducting training programme and given an opportunity to conduct a training programme for farmers at Thanneermukkom village in the presence of KVK resource persons. The students also got opportunities to visit and participate in the field programmes organized by the KVK in the operational villages viz., vocational trainings, field days, on farm trials and front line demonstrations. The enthusiastic feedback received from the students revealed their satisfaction in fulfilling their objectives and excitements in experiencing the field realities along with KVK interventions for addressing the farm issues.

(G. Lekha, SMS (Plant Pathology))





ICAR-KVK-MATTIKOPP (BELAGAVI-II)

1. Inaugural programme of Farmers Hostel, Staff Quarters and Automated Drip Irrigation Unit

Sushri Shobha Karandlaje, Hon'ble Minister of State for Agriculture, Govt of India, New Delhi inaugurated the 2 important infrastructure facilities and technology demonstration unit at KVK Campus. Addressing the gathering, the Minister said that, India was unable to produce the required food production before 1960s. Consequent upon the import of new races of wheat varieties during 1960s it was possible to achieve Green Revolution which ensured self sufficiency in food production. Now the country has surplus food production with annual production of 330 million tons of food grains and 265 million tons of vegetable and fruits. Now it is time for us to market the food grains across the world by following quality protocols of importing countries. Now the need of the hour is to produce nutritious food by adopting natural farming/organic farming practices. In light of this the Govt. of India is providing due importance to Paramparika Krishi like natural farming system. Our age old crops like millets have to be kept under cultivation as they provide complete nutrition and therefore the Govt. of India recently celebrated International Year of Millets during 2023. Speaking on the issue of efficient water management, the Minister stressed the farmers on adoption of drip irrigation method to get more crop per drop of water. The Hon'ble Minister appreciated the efforts of Host Organisation for construction of farmers hostel and staff quarters with modern amenities to facilitate the farmers to stay in the campus and also to ensure trainings and residential facilities for staff working in the KVK. In addition, the Minister also expressed happiness over the commissioning of automated drip irrigation system as a model and called on farmers adopt this model in their farm for efficient use of water without soil health hazards due to excess irrigation.

During presidential address, KLE Society's Chairman Dr. Prabhakar Kore said that, KLE Society is serving the people in the field of education, research, health and technology. The society was also keen in serving the agriculture sector which is backbone of our country and hence started Krish Vigyan Kendra in Bailhongal taluk during 2011. Quality seed is an important input in agriculture production system but currently the farmer is suffering due to prevalence of spurious seeds and fertilizers. In light of this, the KLE KVK has taken lead in seed production of high yielding varieties of green gram, black gram, chickpea, groundnut, soybean, rabi jowar and providing quality seeds to the farmers of this region. KVK also installed automated drip irrigation system to showcase the efficient use of water. In light of these developments, he suggested the farmers to make use of the information, services and inputs being provided by the KVK and enhance their productivity and profitability.

During his introductory remarks, Dr. V. Venkatasubramanian, Director, ICAR-ATARI, Bengaluru said that, host organization KLE Society is providing best infrastructure facilities to the farmers since its inception during 2011. He complemented the efforts of the host organization for building farmers hostel and staff quarters with latest facilities so as to facilitate KVK to conduct long duration trainings to the





farmers/farm women and rural youths of the region.

Addressing the gathering Dr. P. L. Patil, Vice Chancellor, UAS, Dharwad expressed that, KVKs provide complete knowledge on development of agriculture on integrated mode involving horticulture, sericulture, forestry etc. In this connection, ICAR-KLE KVK, Belagavi is providing excellent service to enhance the income of the farming community in the region.

During the event KVK video, six publications of KVK, Bio-agents were released and six progressive farmers have been felicitated.

Shri B. R. Patil, Chairman, ICAR-KLE KVK, Mattikopp welcomed the dignitaries and farmers gathering. Smt. Sridevi B. Angadi, Senior Scientist & Head, ICAR-KLE KVK, Mattikopp expressed vote of thanks, Shri Mahesh Guranagoudar and S M Warad performed anchoring.

KLE Vice-President Sri Basavaraj Tatavati, Directors Dr. Vishwanath I. Patil, Dr. V. S. Sadhunavar, Shri Shrishailappa C. Metagud and Praveen Bagewadi and Dr. Mallikarjun Hanji, Nodal Officer for KVK, ICAR-ATARI, Zone-XI were present.

2. Krishi Sakhi Training Programme

ICAR – KLE Krishi Vigyan Kendra, Mattikopp in association with MANAGE, Hyderabad and SRLM, Karnataka organized five days Capacity Building programme on 'Natural Farming' for Krishi Sakhi's of Belagavi and Khanapur taluks from 12 - 16 March, 2024 in two batches. The training curriculum included introduction to natural farming, nutrient management in natural farming, pest and disease identification in field and its control measures were also highlighted. Method demonstration of jeevamruta, ghana jeevamruta, beejamruta, neemastra, agni astra, dashaparni etc., were method demonstrated. One day exposure visit was arranged to progressive farmers field practicing natural farming. The five days training programme co-ordinates were S.M. Warad, Scientist (Soil Science) and Praveen Yadahalli, Scientist (Horticulture).

3. Natural Farming awareness programme

An awareness programme on natural farming was organized at Tigadi village, Bailhongal taluk on 12.03.2024. Mrs. Sridevi Angadi, Senior Scientist & Head highlighted the concept of natural farming and its advantages in sustainable soil health system and reduction in the cost of cultivation and suggested the audience to adopt the natural farming practices in a part of their total land holdings to maintain the production and eco-system in the village.

Dr. S.S. Hiremath, Scientist (Plant Protection) explained the ill effects of uses of pesticides/insecticides/weedicides in the existing agricultural practice being followed by the farmers. He said that, due to continuous use of the chemicals in the agriculture/ horticulture system the residual effect which is being noticed in the food will bring major health risks of human beings. Hence, he advised the farmers to urgently switch over to natural farming practices. A method demonstration on preparation of jeevamruta and beejamruta was conducted. Shri Basavannayya Dundayya Hiremath, Shri Mahantesh Jakati, Former President, PKPS, Tigadi and Shri Srikant Niradi, President, Milk Producer Association, Tigadi were present.

4. Mega Health Camp

ICAR – KLE Krishi Vigyan Kendra in association with concerned sister institution organized mega health camp for the benefit of the citizens of Tigadi village on 15.03.2024. The specialist Doctors from KLE Centenary Charitable Hospital & Research centre, Yellur in the disciplines of orthopaedic, ophthalmology, gynaecology, general medicine, ENT, nephrology and paediatric provide consultancy with 391 patients and suggested the medication.



Exposure visit under the project “ Out scaling of Natural Farming ”

An exposure visit to natural farming practicing model farmers' field was made under the project out scaling of natural farming with a view to update the knowledge of the farmers pertaining to various practices that are to be adopted while taking up natural farming. The interested farmers and practicing farmers group were given an exposure to the field level adoption at the model farmers' field namely Shri.Maradesigowda, Madarahally village, Malavalli taluk and Shri.Krishnappa, Gooloorudoddi village, Maddur taluk both from Mandya district. The key practices adopted by these model farmers are growing desi paddy varieties namely rajamudi, sidda sanna, gowri sanna, ratna choodi, kempu sanna, gandha sale, jeerige samba, HMT Sona, Dodda Bhyranellu with minimum tillage concept and green manuring. The model farmers detailed the steps and procedures adopted in preparation of compost, vermicompost and Jeevamrutha and presented the quantity, time and method of application of these inputs for the crops. Further, poultry farming with desi chicks, organically cultivated plots of desi varieties of vegetables namely chilly, bhendi, beans, moringa, curry leaves, sponge gourd and seed bank of these desi vegetables were witnessed by the participants and few farmers collected desi paddy and vegetable seeds. The adoption of misting sprinklers for the purpose of maintaining better microclimate under crop conditions and mulching with paddy straw, coconut husk & sugarcane trash were adopted by these model farmers and the participants learnt the method of adopting these techniques. The marketing linkages for the produces obtained by natural farming and organic farming, especially desi paddy varieties were discussed and few paddy growers among the participants tied up with model farmers for future marketing needs. The fodder cum shade trees (melia, flax), minor fruit trees (jamun, ramphal, lakshmanphal, wood apple, ber) and other trees as a part of agro-forestry adopted were viewed by the participant farmers. Dr.Mohankumar,A.B., Scientist (Horticulture) and Mr.Naveenkumar, project Assistant, Organic Turmeric Cultivation project, co-ordinated the exposure visit.

(Yogesh,G.S and Mohankumar,A.B.)





ICAR-KVK-Chikkaballapura

ICAR-Krishi Vigyan Kendra, Chikkaballapura in collaboration with National Research Centre (NRC) on Pomegranate Solapur organized on campus training on integrated pest management in Pomegranate on 11.03.2024. Dr. Papireddy, Senior Scientist and Head, Dr. Manjunath N., Senior Scientist, NRC, Pomegranate and Dr. R. Manoj Kumar, Managing Director, Casber Global Agro Pvt. Ltd. inaugurated the programme. Dr. Papireddy, Senior Scientist and Head highlighted the importance of integrated pest management. Dr. Manjunath N, Scientist, NRC, Pomegranate explained about causes, symptoms and integrated management practices of different pests in pomegranate. Scientists along with farmers visited wilt infected pomegranate fields. Dr. Swathi, Scientist (Pathology) and Dr. Tanweer Ahmed, Scientist (Agricultural Extension) demonstrated the wilt management practices. 80 farmers participated in the programme.

Skill Training for rural Youth on organic farming was initiated at ICAR-KVK, Chikkaballapura on 11.03.2024. Dr. Papireddy, Senior Scientist and Head, Dr. Sandhya, Scientist (Soil Science) and Dr. Praveenakumar, Scientist (Horticulture) inaugurated the programme. Dr. Papireddy M. explained about training programme. Dr. Sandhya highlighted about importance of soil and water conservation in organic farming. Dr. Praveenakumar R. emphasized on use of bio formulation in organic farming.

Dr. Aruna G.R, technical officer, ICAR-KVK, Chikkaballapura participated as resource person in training programme on Bi Voltine sericulture organized by Department of Sericulture, GKVK,UAS, Bangalore at Sulibele village of Hoskote taluk on 06.03.2024 and delivered a lecture on Disease management in silkworm rearing.





ICAR-KVK-Chikkamagalur

Capacity Building Programme on Natural Farming

I.C.A.R.-Krishi Vigyan Kendra, Chikkamagaluru organized one-day natural farming capacity building programme. The program was inaugurated by Rajyotsava award winning farmer Sri Chandrasekhara Narayanpura. Later speaking at the technical session, Chandrasekhara Narayanpura spoke about the disasters caused by the green revolution, before the green revolution there were 4 lakh varieties of paddy, now it has reduced to 1800 varieties. He said that if farmer want achieve sustainability in agriculture, every farmer should take up animal husbandry activities and rear Desi cows. He said that if the billions of microbes in the soil are fed, they can feed humans.

Dr. A.T. Krishna Murthy, Senior Scientist and Head, KVK, Chikkamagaluru welcomed the gathering and opined that sustainability is only possible if there is diversity. Natural Farming improves soil fertility, environmental health as well as helps in the reduction of greenhouse gas emissions and also promises the enhancement of farmer's income. Natural Farming can be considered as a prominent strategy to save the planet Earth for future generations. Natural Farming aims to drastically cut down production costs by encouraging farmers to prepare essential nutrients and plant protection materials with locally available residues.

Dr. M. Sivaprasad, Associate Director of Extension presided over the programme. Spoke about the importance of natural farming. Natural farming is environment-friendly and sustainable. It is low cost in production with high productivity/profitability.

In the technical session, Dr. Ullasa M. Y., Scientist (Agronomy), KVK, Chikkamagaluru explained about the principles and procedure to follow natural farming and demonstrated preparation of Jeevamrita, Beejamruta and Vapasa mulching & 82 farmers participated in the technical session and discussed with the experts and got information.

Dr. Prashantha G.M., Scientist (Soil Science), Dr. Suchitra Kumari M.H., Scientist (Plant Protection) and Dr. Suresh Kumar B., Scientist (Horticulture) were witnessed the programme.





ICAR-KVK-Chitradurga

Field Day on Onion seed production

A field day on farmer participatory onion seed production, Innovative programme was conducted at Chippinakere village of Chitradurga taluk on 14-03-2024.

Dr. Kumara O., Senior Scientist and Head inaugurated the programme and during his speech he discussed about the participatory onion seed production innovative programme of KVK. He also briefed that under this programme Nuclear seeds of Bheema super variety were distributed to the 10 farmers of Chippinakere village of Chitradurga taluk. He also discussed about the various activities to be carried out during seed production and he discussed about the importance of seed certification, provided information about agencies of seed certification and finally suggested the farmers to take up more of seed production activities which in turn fetch good returns.

Dr. S. Onkarappa, Scientist (Plant protection), KVK participated as chief guest and discussed about the various pest and disease of onion crop and suggested the control measures for the same.

Mr. Pradeep Babu, Member, Chikkagondanahally grama panchayath was presided over the programme and during his presidential address he discussed about various problems faced by farmers during seed production.

Dr. Mahantesh P.S., Scientist (Horticulture) had delivered the introductory speech and welcomed all the guests and farmers to the programme. Mrs. Geetha Kumari B.N., Senior Technical Officer, KVK hosted the programme and extended vote of thanks. Around 40 farmers from Chippinakere and surrounding villages have participated in the programme.



Training programme on production and value addition of minor Millets

A training programme on “production and value addition of minor Millets” was organized at Kadavagere village, Hosadurga taluk on 06-03-2024 in collaboration with SKDRDP.

Dr. Kumara O., Senior Scientist and Head inaugurated the programme on during his speech he opined that Hosadurga taluk is recognized as millet bowl of Karnataka and the farmers of Hosadurga taluk should take up production of millets in large scale. Since the people are suffering from various health issues and are also changing their food habits from consumption of more millet products instead of Rice and wheat products. There is lot of demand for millet based value added products and suggested the farmers to take up more value addition activities of millets.

Dr. Saraswathi J.M., Scientist (Home Science), participated as Chief Guest and discussed about the nutritional values of various millets and health benefits of millet consumption. She also provided information of various millet based recipes to the participants.





ICAR-KVK-Dakshina Kannada

Capacity Development Programme on Natural Farming

On 29-02-2024 ICAR, KVK, Dakshina Kannada had organised awareness cum training programme on Natural Farming at Moodambail village of Bantwal Taluk. Dr. Harish Shenoy Assistant Professor (Agronomy) participated as resource person and provided technical inputs on importance and principles of Natural Farming and its relevance in the present context. Besides this, Method Demonstration was organised on preparation of Jeevamrutha (using ingredients like cow dung, cow urine, jaggery, flour and garden soil) and its application in crops. Extension Literatures developed on Natural Farming were provided to the farmers on this occasion. Dr. T J Ramesh Senior Scientist and Head, Shri Sathish Naik Technical Officer and 12 farmers comprising of tribal people were benefitted from the programme

(Contributors: Dr Harish Shenoy and Dr. T. J Ramesha)



1. Follow up field visit to the FLD Summer Finger millet

Mr. Mallikarjuna B.O SMS (Agronomist) conducted the follow up visit to the FLD – ICM in finger millet plots at Sagalaghatte and Guttidurga, Jagalur Taluk. The short duration Finger millet variety KMR-630 was in vegetative stage. The crop is grain filling stage and suggested the farmers to for the irrigation, observe for the stem borer at later stages of the crop growth.

(Mallikarjuna B.O. SMS (Agronomy))

2. Agriculture Drone Technology Demonstration in Chick pea crop

ICAR- Taralabalu Krishi Vigyan Kendra, Davanagere conducted the spraying of the Macro+ Micro nutrients and Neem oil in Paddy crop through the Agriculture Drone sprayer under Agriculture Drone Technology Demonstration Project at Hirekogaluru, Channagiri taluk of Davanagere District. The program was inaugurated by Mr, Shivakumar Preisndet, HTAFPO, Hirekogaluru. Mr. Mallikarjuna B.O SMS (Agronomy) explained in detail about the technologies involved in Agriculture drone sprayer and its effectiveness on crops, soil and human health. We covered Paddy crop area around 210 acres with two drones for two days. The program conducted in collaboration with FPO, Hirekogaluru and there was a good cooperation with farmers had made the event successful.

Capacity Building Programme for ST farmers under TSP Project

ICAR-Taralabalu Krishi Vigyan Kendra conducted on campus capacity building training programme for Tribal sub plan beneficiaries of Kalledevarapura village form Jagalur Taluk. Dr. Raghavendra Prasad G.C., Deputy Director of Horticulture, Inaugurated the programme and informed the farmers about the judicious use of water in horticulture crops. Mr. Basavanagowda M.G., Horticulture Scientist gave introductory remarks on use of Botanicals in horticulture crops that can help in managing the insectpest load in horticulture crops. Dr. Devaraja T.N., Senior Scientist Cum Head gave the presidential remarks on use of New innovative technologies from ICAR-NBAIR and IIHR will definitely helps in increasing the crop productivity and sustainable income to farmers. Dr. Avinash T.G. and Mr. Sannagoudra H.M. gave lecture on new improved production technologies on Horticulture crops. Critical inputs like Bevaria, Bacillus, Metarhizium , Iseria were provided to the 25 beneficiaries.

Mr. Basavanagowda M.G., SMS (Horticulture)

Onion Field Day

Onion Field Day was conducted at Nibagur Village of Jagalur Tq. by ICAR-Taralabalu Krishi Vigyan Kendra under Technology Assessment Trial with Bhima Red, Bhima Shakti and Agrifound Light Red varieties. Technologies like use of Trichoderma for seed treatment, use of vegetable special as foliar spray, use of Gypsum as a source of sulphur, use of yellow and blue sticky trap to manage the pest attack were demonstrated to Farmers. Out of three varieties Bhima Red performs better than other varieties in both vegetative and productivity characters. Mr. Basavanagowda M.G., Horticulture Scientist briefed about the technology used in the assessment Trials.

Mr. Mallikarjuna B.O., Agronomist, Director of Bidarakere Taralabalu Amrith FPO and Farmers were present during the programme.

Mr. Basavanagowda M.G., SMS (Horticulture)



Training programme on DAESI

The training on Diploma in Agriculture Extension Service for input dealer is in progress at ICAR-KVK, Dharwad. During I fortnight of March 2024, two DAESI classes of were conducted on 07.03.2024 and 14.03.2024 at ICAR-KVK, Dharwad. On 07.03.2024, Shri R. B. Hiremath, Retd. Assistant Director of Agriculture, Dharwad delivered lecture on “Agro ecological situation and Agro eco-system approach”. Dr. V. B. Kuligod, Head, Department of Soil Science, UAS, Dharwad delivered lecture on “Problematic soils and their management” to 32 input dealers. On 14.03.2024, Dr. Jagadeesh B. R., Professor, Department of Soil Science, UAS, Dharwad delivered lecture on “Macro-micro nutrient deficiencies symptoms and their management” and Dr. Ramesh Babu, Retd. Professor of Agronomy, UAS, Dharwad delivered lecture on “Types of weeds and importance of weed management in crops” to 38 input dealers.

Diagnostic visit to mango and cashew orchard

Dr. Airadevi P. Angadi, Scientist (Horticulture) and Dr. Praveen T. Goroji, Senior Technical Officer (Lab) from ICAR-KVK, Dharwad visited problematic cashew field and front demonstration on ICM in Mango fields at Dhulikoppa Village of Kalaghatagi Taluka on 06.03.2024.



Participation of KVK Scientist as resource person in Sorghum Field Day

Dr. U. K. Shanwad, Scientist (Agronomy), ICAR-KVK, Dharwad participated as resource person and delivered lecture on 'Cultivation of sorghum crop and management of fall army worm' during Field Day on Sorghum organized by the Department of Agriculture, Dharwad at Kalasanakoppa village in Kalaghatagi taluk of Dharwad district on 15.03.2024. Around 40 farmers participated in the programme.

Contributors:

Dr. D. N. Kambrekar, Senior Scientist and Head, Dr. U. K. Shanwad, Scientist (Agronomy), Dr. Airadevi P. Angadi, Scientist (Horticulture), Dr. Praveen T. Goroji, Sr. Technical Officer (Lab.), Smt. Shailaja N. Galagali, Technical Officer (Computer), ICAR-KVK, Dharwad

HORTIPRENEURSHIP TRAINING FOR SC YOUTHS

ICAR–K.H.Patil Krishi Vigyan Kendra, Gadag organised 5 days training programmes for SC youths in association with ICAR-Directorate of Cashew Research, Puttur from 16-01-2024 to 20-01-2024 at KVK campus. The programme was inaugurated by Dr. Manjesh G.N., Scientist (SPM&A), Nodal Officer for SCSP, ICAR-Directorate of Cashew Research, Puttur highlighted that the knowledge and skills in horticulture crops opens up numerous avenues for self-employment and entrepreneurship in various sectors of horticulture. Dr. Veena G. L., Scientist (Fruit Science), ICAR-DCR, Puttur spoke on cashew apple processing, value addition and various technologies developed by ICAR-DCR, Puttur. Dr. Jyoti Nishad, Scientist (Food Technology), ICAR-DCR, Puttur briefed about Food Processing, Packing, Selling and FSSAI Registration and Licensing. Mr. Suresh Kumbar, SADH, Gadag explained facilities available from the horticulture department for farmers.

The program was chaired by Dr. Sudha Mankani, Senior Scientist and Head (I/c), ICAR-K.H.Patil Krishi Vigyan Kendra, Gadag urged farmers for active involvement in the training programme to attain self-employment. A training manual was released during the event and training kits along with garden tools and implements, vegetable seed kits, house pipes, etc. were also provided to trainees. Technical sessions & field visits were organised to Regional Horticulture Research and Extension Centre at Kumbapur Farm, Dharwad and progressive farmers' fields at Kadakol village of Shirahatti block in Gadag district.

(Smt. Hemavati R.H., SMS (Horticulture) & Shri N.H.Bhandi, SMS (Soil Science))

**INAUGURATION OF KRISHI SAKHI MODULE 3 TRAINING PROGRAMME**

ICAR-KVK, Gadag initiated 3rd Module of 6 days training programme on “Agro Ecological Methods” for Community Resource Persons i.e., Krishi Sakhis from 04-03-2024. The training programme was inaugurated by Shri M. V. Chalageri, Project Director, NRLM, Zilla Panchayat Gadag. In his inaugural address, Mr. Chalageri spoke about importance of Krishi Sakhis in dissemination of agro advisories and latest technologies to the farming community. Shri Chandrashekhar Yaligar, District Project Manager, NRLM, Zilla Panchayat Gadag advised Krishi Sakhis to actively participate in the training to gain the maximum possible knowledge from resource persons. Dr. Sudha V. Mankani, Senior Scientist & Head, ICAR-KVK, Gadag presided over the function and she highlighted the role of Krishi Sakhis in enhancing rural livelihoods through technology dissemination to farmers and SHGs in all the blocks of the District.

(Dr. Vinayaka Niranjana, SMS (Ag. Engineering))



ICAR-KVK-Haveri

Training programme on Production technology of Spices

KVK-Haveri (Hanumanamatti) in association with Department of Agriculture, Shiggaon and Vanasiri Rural Development Organisation, Ranebennur organised a training programme on “Spice crop production technology” under Central Sponsored Scheme – Mission for Integrated Development of Horticulture (CSS-MIDH) project.

In the introductory speech, Dr. R.V.Hegde, Professor, Principal Investigator- CSS-MIDH project, Dept. of Horticulture, UAS Dharwad highlighted the suitability of spice crops in diversifying cropping system and fetching very good price which provides sustainability in livelihood. Therefore trainings on spice crops is being organised under MIDH project. Since the area under arecanut is increasing day by day and spice crops can be grown as an intercrop in arecanut to overcome situation of price drop in main crop. Dr.G.S. Guruprasad, Senior Scientist and Head welcomed the dignitaries and farmers to the event in his welcome speech. Dr.S.S.Angadi, Director of Extension, UASD in his presidential remarks, narrated that spices are indigenous to India and various types of spice crops are being grown in the country. Because of export of these crops, country is getting more income. Further urged the farmers to adopt new technologies to enhance the production of spice crops.

Mr. Gopal achar, progressive farmer from Gejjehalli of Hanagal taluk shared his experience with the farmers on importance of cinnamon crop and its farming practices, processing and marketing which is helped him to sustain family. Mr. S.D. Baligar from vanasiri organisation urged the farmers to adopt integrated farming system by including spice crops to become financially stable. Later Dr.Prabhudeva Ajjappanavar, professor from Horticulture Research Station highlighted the dry chilli production technology. Dr.Babu P, Professor from Agriculture college Hanumanamtti provided the information about ginger and turmeric crop production technology. Dr.Santhosh HM, Scientist (Horticulture), KVK- Haveri highlighted cultivation and marketing of cinnamon and curryleaf crops. Mr.Bapugouda, field officer from Spice Board briefed the activities of spice board in Haveri district. After the training, planting material of spice crops were distributed to all the participants under the CSS-MIDH scheme. The staff and more than 100 farmers and farm women participated in the programme.





ICAR-KVK-Idukki

Scientific Advisory Committee Meeting

Scientific Advisory Committee Meeting 2022-23 of KVK Idukki was conducted at KVK Seminar hall. The programme was presided over by Ms. Reena Chacko, Chairperson, Bapooji Sevak Samaj. The meeting was inaugurated by Dr. BT Rayudu, Principal Scientist, ICAR- Bengaluru ICAR Agricultural Technology Application Research Institute(ICAR-ATARI), Zone XI, Bengaluru by lightening the lamp. After inauguration, Ms. Reena Chacko delivered the Opening Remarks and confirmed Last SAC proceedings. Dr. R. Marimuthu, Senior Scientist & Head, ICAR- Krishi Vigyan Kendra, Idukki presented Action Taken Report of last SAC proceedings, Progress report of KVK since previous SAC meeting, proposed Action Plan of KVK for the next year and Revolving Fund Activity. After the presentation Interaction and Discussions with all members were conducted. Dr. G. Jayalekshmi, Program Coordinator, ICAR- Krishi Vigyan Kendra, Kottayam, Ms. Selina, Principal Agricultural Officer, Idukki, Dr. Dhanapal, Scientist, Indian Cardamom Research Institute, Myladumpara, Dr. Radhakrishnan, Senior Scientist and Head, ICAR- Krishi Vigyan Kendra, Kozhikode, Mr. Vivek George, Vice Person Bapooji Sevak Samaj and other department officials participated. ICAR- Krishi Vigyan Kendra officials and 10 farmers participated in the meeting. ICAR-Krishi Vigyan Kendra newsletter, leaflets and logo of Kisan Samridhhi was released during the event. After SAC meeting, our Nodal officer visited the KVK demo units and inaugurated the newly started Natural farming demo unit.

Name of the contributor: Ms. Preethu K Paul, SMS (Agricultural Extension)





ICAR-KVK-Kalaburgi-II

D) Award of excellence (IIHR, Bengaluru) in the field of horticulture to the ICAR-KVK, Kalaburgi-II contact farmers

From 5-7th March 2024 ICAR-IIHR National Horticulture Fair 2024 organised by the IIHR, Hesarghatta, Bengaluru during the event felicitate the farmers of the nation with the “Award of Excellence” who are all achieved and contributed in utilization and dissemination of IIHR technologies effectively for the welfare of farming society in horticulture sector.

In the event, ICAR-KVK, Kalaburgi-II contact farmer Sri. Ogeppa Hosamani R/o Halagadla Tq. Jewargi and Sri. Siddu Tengali R/o Kallahangaraga Tq. Jewargi were selected for the award of excellence and they were felicitated for their immense contribution towards effective utilization of different IIHR technologies for betterment of different cultivated crops which fetched them highest economical income.



II) Celebration of International women day

ICAR-KVK, Kalaburgi-II in collaboration with NGO Spoorthi for women empowerment and child development celebrated “International Women's Day” on 13th March 2024. The Program was inaugurated by Dr. Chethan T, Scientist (Horticulture) and chief guest Kumari Akshata, The program preceded by Mrs. Farzana M.K, Sr. Technical officer (Soil Science) were present. The program highlighted the women empowerment. During the program technical session was conducted by KVK on various aspects of Agriculture, Horticulture and role of farm women in Agriculture Mrs. Sr. technical officer (Soil Science) addressed the session regarding role of farm women in Agriculture, Soil fertility management, Scientific method of soil collection and organic farming. Dr. Chethan T, Scientist (Horticulture) addressed the session regarding importance of nutria garden, preparing them to become self sufficient in nutritional diet and thereby create a healthy society. Mr. M.C. Patil, Technical officer (Farm Management) addressed the session on IPM in Pigeonpea. Mr. Sanjeevkumar Patil, Technical officer (Computer) briefed the farming community about “Kisan Sarathi” app for communicating farmers through messages in local language with respect to Agriculture and allied sector. Lastly Mr. Ramesh Mahindrakar, Resource person addressed the participants regarding floriculture and marketing aspects. More than 50 farm women's were benefited the program along with farmers.

Contributor: Dr. Vasudev Naik, Sr. Scientist & Head, Dr. Chethan T, Scientist (Horticulture), Mrs. Farzana M.K, Sr. Tech officer (Soil Science), Mr. M.C. Patil, Tech. officer (Farm Management), Mr. Sanjeevkumar Patil, Tech. officer (Farm Management)



SAC Meeting: Exploring the possibilities of convergence

Seventeenth Scientific Advisory Committee (SAC) meeting was held on 11th March 2024 at KVK Kannur. Dr. Jayaraj P., Programme Coordinator, KVK welcomed the delegates. The meeting was chaired by Dr. Jacob John, Director of Extension, KAU. In the opening remarks of the Chairman, he explained the importance of convergence among various agricultural stakeholders for developing a package of practice for each Agro Ecological Units and for formulating development plans. Dr. D. V. Srinivasa Reddy., Principal Scientist, ATARI and Nodal Officer of KVK Kannur pointed out that KVKs are providing technical guidance for increasing productivity of farm and income of farmers. KVK should act as a microlevel research institution to test location specificity of technologies.

SAC facilitated Sri. Parameswaran Nair, T. K., Farmer from Alakkode (Conservator of Tuber Crops), Sri. N. Raghavan from Ezhome (Best Spices Farmer), Sri. Haridasan K. from Bakkalam (Best Vegetable Farmer), Sri. Aneesh P. B. from Thabore (Karshakashree Award Winner, 2024) and Sri. Rahul N. V. from Iritty (National Millionaire Farmer Award Winner 2023). 'Sasyaposhaka paripalanam-Samgraham' (Handbook on Integrated Nutrient Management), 'Krishi Jalakam' (Compilation of QR codes of knowledge resources of KVK) and Newsletter of KVK were released by Dr. Jacob John, Dr. Vanaja T., Associate Director of Research, KAU and Dr. D. V. S. Reddy.

Dr. Jayaraj. P, Programme Coordinator, KVK, Kannur presented in brief, the action taken report based on the suggestions made in the last SAC meeting and the activities and achievements of KVK Kannur during the period under report. He also gave brief description about various interventions such as ARYA, NICRA, CFLD, SCSP, OFT, FLD, EDP and capacity building programmes and significant achievements in various disciplines. Discussions on field problems to be addressed in next year action plan of KVK and possibilities of convergence of departments for effective transfer of technology and implementation of schemes for betterment of farming community were conducted.

Dr. Sanju Balan, Assistant Professor (Plant Pathology), PRS Panniyur, Sri. Surendran A., Project Director, ATMA, Dr. M. Nisha, Senior Scientist, ICAR-SBIRC, Kannur, Dr. V. Prasanth, Deputy Director, Animal Husbandry Department, Sri. Vinodkumar A. V., Assistant Engineer, Minor Irrigation Section, Thaliparamba, Sri. E. Prasanth., Lead District Manager, Kannur, Sri. A. S. Shiras, General Manager, DIC, Sri. V. Sahadevan, District Resource Person, Haritha Keralam Mission, Kannur, Sri. Jayachandran C. V., Director, RUDSET Institute, Thaliparamba, Sri. T. K. Balakrishnan, MD, Mayyil Rice Producers Company, Sri. V. O. Prabhakaran., Chairman, Kuttiattoor Mango Producer Company, Sri. I. V. Lakshmanan, Farmer and Master trainer, Cheruthazham, Sri. Jayarajan T., Farmer and Entrepreneur, Cherukunnu, Smt. Princy Kurien, Entrepreneur and Farmer, Kelakam, Smt. Bijna K., Farmer and Karshaka Mithra, Chengalayi, Sri. Aneesh P. B., Progressive Farmer, Thabore, Sri. Rahul N.V., Mushroom Farmer, Entrepreneur and Master Trainer, Iritty and SMSs of KVK has attended the meeting and took part in discussions.





ICAR-KVK-Kasaragod

Interstate visit and training of farmers at Coconut gene bank, CPCRI Kidu

The ICAR KVK Kasaragod organised exposure visit and training of farmers at CPCRI-Research centre at Kidu in Karnataka state on 11th March 2024. The visit was organised as part of the Farmers fair, training and exhibition organised at Kidu by the CPCRI. The farmers fair was inaugurated by Sushree Shobha Karandalaje, Hon'ble Minister of state for Agriculture and Farmers welfare, Government of India and was presided over by the Deputy Director General, ICAR, Dr.S. K. Singh. Dr K.B.Hebbar, Director, ICAR-CPCRI welcomed the gathering and felicitations were offered by Dr. Prabhat Kumar, Horticultural commissioner, GoI, Dr Homey Cherian Director, DASD, Dr B Hanumanthe Gowda, CCDO, CDB and Sushree Bhagirathi Murulya, Hon'ble MLA Sullia. During the inaugural speech Hon'ble minister highlighted the welfare measures and schemes taken up by the Government of India in coconut and Arecanut sectors for the welfare of the farmers of the region.

The farmers also attended the training and the interface meet organised as part of the event. Various topics like 'Scientific management of leaf spot disease and Yellow leaf disease in arecanut', 'Coconut pest and disease management', 'Soil health management', 'Cocoa intercropping', 'Value addition' and "improved varieties and planting material production" were covered during the programme. The demonstration of drone was also carried out for the benefit of the farmers. A field visit was also undertaken to the international coconut gene bank of in Kidu farm. A total of 115 farmers from Kasaragod district including 50 members of SC community beneficiaries of KVK participated in the interstate visit and training programme.



ICAR-KVK-Kodagu

International Women's day celebration at KVK Gonikoppal

ICAR- Krishi Vigyan Kendra, Gonikoppal in collaboration with National Bank for Agriculture and Rural Development (NABARD),Kodagu organised International Women's Day on 8th March 2024. Sri.Veerendra Kumar K.V, Subject Matter Specialist (Plant Protection), ICAR-KVK, Gonikoppal addresses the gathering about the programme and welcome all the guests. The programme was inaugurated by Dr.Sridevi, Deputy Director (Extension), Coffee Board, Virajpet Taluk. In her inaugural address, she spoke about the importance of women in daily life as well as their significant contribution in overall development of a family. She also shared her experience of scaling up from a home maker to first person of the village, support to the family by homemade food processing activities and its marketing. Sri. Ramesh Babu, District Development Manager, NABARD, Kodagu brief about Importance of International Women's day and role of women's in development of county.

On the occasion, an opportunity was given to the participants to share their experiences of success and become a role model to the fellow women. Later, activities like agriculture quiz, games were organized for the participants and prizes were distributed as part of the celebration. On the occasion two entrepreneur Smt. Sindhu and Smt. Lancy Manages, homemade food entrepreneurs was felicitated as the best progressive women farmer by Sri. Ramesh Babu, District Development Manager, NABARD, Kodagu.



Awareness Programme on Use of Bee Star Labelled Energy Efficient Pump Sets and Water Conservation

ICAR Krishi Vigyan Kendra, Gonikoppal, Kodagu district organised awareness programme on use of BEE star labelled energy efficient pump sets and water conservation on 14th March 2024 in collaboration with Karnataka Renewable Energy Development Limited, Bengaluru and Bureau of Energy Efficient. The Programme was inaugurated by Sri.Unnikrishnanan, Technical Engineer, Dept. of Mechanical Engineering, Cauvery Polytechnic, Gonikoppal. Sri.Veerendra Kumar K.V, Subject Matter Specialist (Plant Protection), ICAR-KVK, Gonikoppal addresses the gathering about the programme and welcome all the guests. Sri. Prabhakara.B, Head Incharge, ICAR-KVK, Gonikoppal presided the programme and in his address spoke on the importance of energy conservation and its impact on climate change in agriculture. On the occasion technical bulletin on energy saving and water conservation was released by the guests.

A total of 62 farmers, farmwoman, rural electricians, Dealers of Agriculture Equipments and Machineries, officials and scientists were participated in the awareness programme.

1. Valedictory for 3 days skill development training program on "Biocrafts from cut waste cocoons"

ICAR-KVK Kolar organized 3 days skill development training program on "Biocrafts from cut waste cocoons" from 28.02.2024 to 01.03.2024 under SCSP programme and convened valedictory on 3rd day by distributing certificates to 21 participants who have successfully completed the training at KVK Kolar. Dr. V. Nachegowda (Former Director of Research, UHS Bagalkot) presided over the programme. Prof. M. Vijayendra (Retired professor of sericulture, college of sericulture, chintamani) served as resource person. Dr. Shivanad V. Hongal Senior Scientist & Head, Dr. Asha K. M, Scientist (Horticulture), KVK, Kolar & official from Sehgal foundation were present & accomplished the event.

2. Capacity building program on natural farming & climate smart agriculture and farm mechanization

ICAR- KVK, Kolar, Scientist (SS&AC) Dr. Anil Kumar, organized two capacity-building programs in collaboration with KSDA on 04.03.2024. Firstly, in Hulidenahalli village, Malur Taluk conducted a session on the significance of natural farming for soil health management, benefiting around 40 participating farmers. Additionally, at the ADA office in Malur Taluk, Dr. Anil Kumar, Scientist (SS&AC) addressed 50 farmers on climate-smart agriculture and farm mechanization, emphasizing mitigation strategies for climate change's impact on agriculture and the importance of mechanization in improving farm operations. This initiative reflects agricultural practices and sustainability, providing valuable knowledge to local farmers.

3. National Horticulture Fair-2024

ICAR-KVK Kolar, SS&H Dr. Shivanand V. Hongal enthusiastically took part in the National Horticulture Fair-2024, held by ICAR-IIHR Bengaluru from March 5th to 7th, 2024. We showcased a stall representing the University of Horticultural Sciences, Bagalkot, highlighting various aspects of horticulture. KVK Kolar contact farmers Shri Naganal Manjunath and Shri Bharat were honoured with the award of excellence by Shri. Shobha Karandlaje, Honourable union minister of state for Agril. Govt. of India. UHS Bagalkot awarded 1st prize for the best stall in the category of KVK's and SAU's during NHF -2024 organized by ICAR -IIHR Bengaluru.

4. Awareness programme on "Management of crop residue in organic farming" under Swacchata action plan 2023-24

KVK Kolar organized awareness programme on "Management of crop residue in organic farming" under Swacchata action plan 2023-24 in collaboration with Watershed organization trust, Chikkaballapur on 07.03.2024. Dr. Shashidhar K.R, Scientist (Sericulture) & Dr. Asha K. M, Scientist (Horticulture), KVK Kolar briefed on crop residue management in Sericulture & Horticulture. Sri Nagaraja, Organic farmer & KVK contact farmer from Chitnahalli, Kolar taluk explained about preparation & utilization of organic manures from locally available farm residues. Around 85 farmers actively participated and gained valuable knowledge from the program.

5. On campus training program on "Management of Diseases in Cows" under SCSP programme

ICAR KVK Kolar organized on campus training program on "Management of Diseases in Cows" & distribution of Cow mats to beneficiaries under SCSP programme on 11.03.2024. Dr. Shivanand V Hongal, Senior scientist & Head presided over the program. Dr. Lakshmi HA, Senior veterinary officer, Bangarpet was the chief guest & resource person for the training programme. Dr. Asha K. M, Scientist (Horticulture) & Dr. Shashidhar K.R, Scientist (Sericulture), KVK Kolar were the organizers & around 26 farmers & farm women participated & benefitted from the program. At the end of training programme Cow mats were distributed to 25 beneficiaries.



6. Workshop on Bio - fertilizer

ICAR-KVK KOLAR organized a workshop on Bio-fertilizer in association with ICFRE, IWST, IFGTB, and KFD for Forest Department officials and farmers from Kolar District on 12.07.2024. Scientists Dr. Muthu Kumar, Dr. Uma from IWST, Dr. Dakshayani from UAS Bengaluru, and Dr. Anil Kumar S, Scientist (SS&AC) from KVK Kolar served as resource persons, delivering various aspects on the importance of BIOAGENTS in maintaining soil health. Dr. Shivanand V. Hongal, SS&H presided over the function, while Dr. Asha, Scientist (Horticulture) and Dr. Shashidhar from KVK Kolar participated in the program. After the workshop, 1kg AMC and 1 sandalwood sapling each were distributed to a total of 60 farmers who participated in the workshop.





ICAR-KVK-Kollam

“Susthira” Emerging fodder variety in Dairy sector for production performance

As a part of Animal Husbandry Frontline Demonstration, 2023-24 Krishi Vigyan Kendra, Kollam, introduced the new Bajra Napier fodder variety "Susthira" to Pattazhy panchayat's dairy farmers in Kollam District. Released in 2019 from the College of Agriculture, Vellayani, under Kerala Agricultural University, the demo aimed to assess "Susthira" efficiency in daily production for crossbred dairy cattle. 4000 susthira stem slips were provided to farmers. Observations on intensive management of crossbred Jersey cattle revealed a 1.2 liters/day increase in average milk production after a month of daily 20kg Susthira intake, highlighting its palatability and positive impact. Recognizing its potential, a field harvest day at Pattazhy panchayat on the 70th day post-planting distributed Susthira fodder and stem cuttings among dairy farmers to promote the variety in Kollam District. Assistant Professors from Krishi Vigyan Kendra Dr. Parvathy S. (Animal Husbandry), Smt. Neeraja, C. R. (Agronomy) along with Dairy extension officers, Dairy Co-operative Society Secretary, and dairy farmers, participated in the harvest fest. The guidance from Krishi Vigyan Kendra has resulted in a 2.5-hectare expansion of Susthira cultivation in Kollam District.



KVK KLM Susthira

കൊല്ലം കൃഷിവിജ്ഞാനകേന്ദ്രം പട്ടാഴിയിൽ നടത്തിയ 'സുസ്ഥിര' തീറ്റപ്പുല്ല് പരിക്ഷണകൃഷിയിൽ വിളവെടുത്ത തീറ്റപ്പുല്ല് ശാസ്ത്രരീതിയിൽ ശേഖരിച്ചു. പാർവ്വതിയും, നിരഞ്ജനയും ചേർന്ന് കർഷകർക്കു കൈമാറുന്നു.



International Women's Day organized at KVK

Women farmers who have achieved success in various fields of agriculture were felicitated on the occasion of International Women's Day. Eight women farmers namely Smt. Santha, Maruthomkara, Smt. Shiny K, Nanmanda, Smt. Sibitha, Vadakara, Smt. Mini Wilson, Thiruvambadi, Smt. Rosie Tommy, Chembanoda, Smt. Sushitha Rajesh, Pannikootoor, Smt. Nirmala Gopalan, Muthukad and Smt. Sujisha M. P, Payyoli were honoured. The programme was inaugurated by Shri M. P. Babu, President, Perambra Block Panchayat and Dr. P. Ratha Krishnan, Head, KVK presided. Sri. Shaji, Deputy Director of Agriculture (SHM), delivered the keynote address on various schemes of MIDH for starting agricultural enterprises. Mr. Unmesh, Food Safety Officer, Government of Kerala conducted a class on 'License and Packaging for Marketing of Agricultural Products'. Dr. KM Prakash, Dr. S. Shanmugavel, Dr. K. K. Aiswariya, and Ms. A. Deepthi also spoke on the occasion. Over hundred woman farmers from various parts of the district attended the programme.

Field day on ginger conducted at NICRA village

A field day was organized on 5.3.2024 at Kothode during the harvesting of IISR Varada, a promising ginger variety, at the NICRA project demonstration plots. Smt. V. P. Reena, Ward member, Maruthomkara Grama Panchayat inaugurated the harvest and Sri. Rajilesh, P., Ward member felicitated on the occasion. During the event, Dr. P. S. Manoj, SMS Horticulture, delivered a keynote speech, while, Ms. K. P. Anjana, Senior Research Fellow, explained project interventions. Farmer representatives also spoke on the occasion. Around 50 farmers, including those from the NICRA project and the Pratheeksha Farmers Club, attended the event. The variety demonstrated, IISR Varada is a good quality, high yielding variety with plumpy rhizomes having flattened fingers and medium sized reddish brown scales. It gives an average yield of 22.6 t/ha.



Capacity building programme on Breeding and culture of ornamental fishes

A one day capacity building programme on breeding and culture of freshwater ornamental fishes was organised at KVK on 6th March 2024. Seventeen rural youth from different parts of Kozhikode district attended the programme. Various breeding techniques of ornamental fishes, their rearing, live feed culture, fish packing, water quality and disease management techniques were demonstrated to the participants apart from the theory sessions. The programme was coordinated by Dr. Pradeep, B., Subject Matter Specialist, Fisheries of KVK.

Capacity building programme on Tuber Production and Inter cropping practices in coconut

A one day off campus training on Tuber Production Technology and Inter cropping practices was conducted for Grama Jyothi Self Help Group at Maruthomkara. The programme was inaugurated by Mr. K. Sajith, President Maruthomkara Grama Panchayat. Seed materials of ginger variety IISR Varada and turmeric IISR Pragati were also distributed to the farmers. Thirty-three farmers attended the training programme. Dr. K. M. Prakash, SMS, Agronomy coordinated the programme.

Union Minister of State for Agriculture and Farmers' Welfare interacts with the farmers of Lakshadweep: Issues Soil Health Card and Vegetable saplings to the farmers.

Sushri Shobha Karandlaje, Union Minister of State for Agriculture and Farmers' Welfare visited Amini and Agatti Islands, Lakshadweep on 5-6 March, 2024. The Hon'ble Minister visited the Islands to review the activities of Agriculture. The visit was arranged by the UT Administration of Lakshadweep jointly with the KVK Lakshadweep, ICAR-CMFRI.

Prior to reviewing the activities on agriculture the Hon'ble Minister interacted with farmers and members of the self Help Group, young entrepreneurs promoted by the Department of Agriculture and the KVK. During the interaction the Hon'ble Minister distributed Soil Health Cards that were arranged by KVK in connection with the resurvey performed to renew the organic status of the U.T. Farmers raised the issue of Whitefly and its menace and sought if it can be controlled by organic methods. The Minister instructed the Administration to map out with the ICAR institutions the organic methods for controlling whitefly that decreases the coconut production. The Hon'ble Minister insisted the farmers to take advantage of the Development Schemes that are provided to the farmers by the Central Government. The Organic status of the island was appreciated by the Minister. The farmers lauded the efforts of KVK and ICAR-IIHR in promoting vegetable cultivation in the islands which was endorsed by the Hon'ble Minister. The interaction meet was attended by all the staff of the Department of Agriculture and KVK.

The Hon'ble Minister also distributed seedlings of vegetables to the farmers and appreciated the joint efforts by the organisations for promoting vegetable cultivation in the islands.





ICAR-KVK-Malappuram

Capacity development on Goat farming in tribal habitat

One days' capacity development programme was carried out on practical aspects of goat rearing in tribal habitat, for participants including 30 people from Ambamkunnu tribal colonies near Nilambur, where goats were distributed to all the families. The training was also attended by 70 NSS volunteers from College of Veterinary and Animal Sciences, Pookode, who were undertaking various management and health care interventions in goats of the tribal habitat on this particular day. Hands on training were imparted to the tribal members on fundamental aspects of health assessment and preventive health care interventions in goats. Various management tips for enhancement of fertility in goats was covered in details with hands on training to the students on techniques for the assessment of reproductive function, pregnancy diagnosis and infertility correction.

Local Farmers Enriched in Sustainable Practices: One-Day Natural Farming Training

The training session, which took place at the KVK premises, saw enthusiastic participation from farmers across the region eager to adopt eco-friendly farming methods. During the interactive session, Dr. Akhilraj elucidated various aspects of natural farming, including soil health management, organic pest control, and crop diversification. He highlighted the significance of harnessing natural resources effectively to optimize yields without relying on chemical inputs, thus reducing production costs and mitigating environmental degradation. Farmers were provided with practical insights and hands-on demonstrations to facilitate the implementation of natural farming techniques on their own fields. The training encompassed topics such as composting, mulching, and integrated nutrient management, equipping participants with the knowledge and skills necessary to transition towards a more holistic approach to agriculture. The training session concluded with a vibrant exchange of ideas and experiences among participants, with many expressing newfound enthusiasm and determination to adopt natural farming techniques in their agricultural pursuits. KVK Malappuram reaffirmed its commitment to supporting farmers in their journey towards sustainable and profitable farming practices, promising continued guidance and assistance in implementing eco-friendly solutions.





ATMA Facilitated Food Processing Training

In connection with the Agricultural Technology Management Agency (ATMA), a training session on food processing was conducted on March 6, 2024, at KVK Malappuram for beneficiaries of the Vaniyamkulam, Krishi bhavan in Palakkad district. Dr. Lilia Baby, Assistant Professor, Community Science led the training programme aimed at empowering participants with knowledge and skills in food processing techniques. The session commenced with an introductory presentation highlighting the significance of food processing in the agricultural sector and its potential for income generation. Practical demonstrations were conducted on various food processing techniques, including drying, pickling, jam, and squash making, utilizing locally available produce such as fruits and vegetables. The training session fostered a collaborative learning environment, encouraging participants to exchange ideas, share experiences, and seek clarification on relevant topics.

A Comprehensive Training Programme on Mushroom Cultivation

On March 1st, 2024, a comprehensive mushroom cultivation training session was held at KVK Malappuram, attended by 25 enthusiastic participants. The training focused on cultivating oyster and milky mushrooms, with an emphasis on understanding their nutritional and medicinal properties. Dr. Lilia Baby, Assistant Professor, guided participants through the training, helping them discover the wide-ranging benefits of mushrooms. The session included a hands-on component where participants learned the intricacies of mushroom bed preparation, ensuring they grasped practical skills essential for successful cultivation. By offering both theoretical knowledge and practical experience, the training equipped participants with the necessary tools to embark on mushroom cultivation ventures confidently.





ICAR-KVK-Mysore

Participation of KVK scientist in 4th National Conference organized by Society of Krishi Vigyan at JNKVV, Jabalpur, Madhya Pradesh

ICAR-JSS KVK, Suttur scientists Horticulture and Plant protection participated in 4th national conference organized by Society of Krishi Vigyan at JNKVV, Jabalpur, Madhya Pradesh. In the conference the horticulture scientist Dr. Vinay, G. M., presented the paper on “Introduction of Yard Long Bean (Arka Mangala) variety” to double the farmers income and “Introduction of high yielding and multiple disease resistant hybrid of Tomato (Arka Abhed) in Mysore district” and got best oral presentation award under the theme Farm production - from sustenance to sustainability. Dr. Prasad, Y. P. (Scientist, Plant protection) presented the paper on “Integrated Management of Gram Pod Borer in Field Bean” and got best oral presentation award under the theme Crop protection- towards ecological succession. In the same conference both the scientists got Young Scientist award by considering the remarkable efforts in their concerned field.



Celebration of International Women's Day at ICAR JSS KVK Suttur

ICAR-JSS KVK in collaboration with JSS Janashikshana Samsthan Mysuru and IAT Chapter Mysuru celebrated International Women's Day on 13th March 2024 at ICAR-JSS KVK Suttur. During the programme felicitated the progressive women entrepreneur Smt Lakshmi, Sargur. More than 80 women farmers participated in the programme and distributed certificates to tailoring trainees at ICAR-JSS KVK, Suttur.



Zonal Monitoring Committee Visit to NICRA Village of Palakkad district, Pattithara

On 13 th March, 2024, a four-member Zonal Monitoring Committee (ZMC), chaired by Dr.D.M. Hegde, former Director, IIOR Hyderabad and accompanied by Dr. Jacob John, Director of Extension of Kerala Agricultural University (KAU), visited the NICRA village of Palakkad district, Pattithara to review the progress of the NICRA project. Dr.B.Narayanaswami, Former Principal Scientist, IIHR, Bengaluru (DDG's nominee), Dr.Srinivasa Reddy, Principal scientist and nodal officer, ICAR-ATARI and Dr.G.Venkatesh, Principal scientist and nodal officer, ICAR – CRIDA were team members. Dr.Sumiya.K.V, programme Co-ordinator, KVK Palakkad presented the progress and impact of activities undertaken under the project. This was followed by visit to Pattithara, NICRA village. The visit included a meeting with VCRMC members including farmers, the Panchayat president, ward members and presidents of six padashekham committees (local farmer groups). Scientists from KVK Palakkad were also present to showcase their contributions to the project. The team visited sites of major activities undertaken in NICRA project. First plot visited was that of desilting the farm pond in the upstream end of Haritha Padashekham, promoting water conservation and microclimatic improvements. The team also demonstrated successful cultivation of summer crops as a third crop in rice fallows, potentially increasing agricultural output and income generation for farmers during the summer months. Additionally, they witnessed the enhancement of water holding capacity in coconut plantations through husk burial in a third field. Notably, drainage cum irrigation facilities were established by KVK under this project in a fallow land, enabling the farmers to reclaim 10 acres of barren land, which had remained uncultivated for the past 35 years utilizing the excess water from water logged field. The farmers expressed their gratitude and happiness to the NICRA team and KVK scientists, providing overwhelmingly positive feedback on the impactful work carried out by KVK at the NICRA village.



Women's Day Celebration at KVK Palakkad

On the occasion of International Women's Day, Krishi Vigyan Kendra Palakkad felicitated women entrepreneurs who have excelled in agricultural sector. The event was inaugurated by Dr. Raji. P., Associate Director of Research, RARS Pattambi. Dr. Sumiya K. V., Program Coordinator of KVK Palakkad, welcomed the gathering. The highlight of the event was the participation of women entrepreneurs from across Palakkad district representing diverse agricultural fields. These inspiring women shared their experiences. They spoke about the invaluable role played by KVK Palakkad in supporting their journeys to success. The session also provided valuable insights into the challenges they faced and how they persevered to achieve their goals. The program concluded with a vote of thanks delivered by Dr. Smijisha A. S., Assistant Professor, KVK Palakkad. The event served as a platform to acknowledge the significant contributions of women in agriculture and to inspire others to pursue careers in this vital sector.



ICAR-KVK-Pathanamthitta

KVK PAVES WAY FOR REVOLUTIONIZING AGRICULTURE THROUGH TRACTOR MOUNTED BED FORMER IN VEGETABLE CULTIVATION IN THE DISTRICT

Krishi Vigyan Kendra (KVK), Pathanamthitta attempts to maximise profitability in vegetable cultivation with the introduction of a tractor-mounted bed former for raised bed formation in the custom hiring centre of KVK. The technology was introduced in the 1.5 acre land of Ms. Prabha Satheesh, Thottabhogom, Kaviyoor Panchayat, Malappally block. The programme was inaugurated by Dr. C.P Robert, Senior Scientist and Head, ICAR-KVK, Pathanamthitta and the lead talk was delivered by Dr. Rincy K Abraham, SMS (Horticulture). The tractor-mounted bed former can create beds of 60-120 cm width and 15-30 cm height. This technology simplifies the process of raised bed formation which is the major labour intensive process in high tech vegetable production. The use of this machine results in a labor saving of 98.5% (Reduced from 25 mandays to 3 hours) and a cost saving of 70% (Cost reduction from Rs. 25000 to Rs. 7500) in bed preparation compared to conventional practices. This significant advancement in agricultural technology can greatly enhance productivity and sustainability in the district's agriculture sector.



ICAR-KVK-Raichur

Scientific Advisory Committee Meeting

The Scientific Advisory Committee meeting was held at 04.03.2024 at ICAR-Krishi Vigyan Kendra, Raichur. The members of the meeting Dr. B.T. Rayadu, Principal Scientist, ATARI, Bengaluru, Dr. S.B. Goudappa, Director of Extension, UAS, Raichur, Dr. A.R. Kurabar, Associate Director of Extension, UAS, Raichur, Dr. Hanumanthappa Shrihari, Senior Scientist & Head, ICAR-KVK, Raichur, Progressive farmers viz Suresh, H. Thimmapur, and all the professors and Heads of the departments and more than 20 farmers were actively participated.

The meeting was initiated by presenting the activities carried out during 2023-24 followed by discussion regarding the factors to be considered for enhancement of livelihood of the farming community. KVK, Raichur assured to provide facilities viz, seedling material, timely training programmes, demonstrations at farmer's field, introduction of new cropping system and new crops to the region to enhance the crop diversity. Farmers expressed their view and satisfactory opinion towards the approaches made by KVK, Raichur



ICAR-KVK-Ramanagara

CELEBRATION OF “INTERNATIONAL WOMEN'S DAY 2024”

ICAR-Krishi Vigyan Kendra, Ramanagara in collaboration with NABARD and Kartvaya foundation, Kanakapura celebrated the International women's day at Maralebekuppe village of Kanakapura with the theme “Invest in women: Accelerate progress”. The programme was inaugurated by lighting the lamp by dignitaries. Mrs. Harshitha, DDM, NABARD, in her inaugural address highlighted the role of women in society and talents of women and urged to utilize the skills learnt in capacity building programme to excel in their activity and to become good entrepreneur. Dr. Lata, R. Kulkarni, Senior Scientist and Head, KVK, briefed about the significance of celebrating International women's day, importance of this year's theme and role of women in agriculture and women's contribution in making a healthy society by highlighting the importance of healthy diet, hygiene and urged to save water and to reduce food wastage. Shri. Rajshekhar S. N., founder president of Karthavya foundation in his address briefed about the activities of foundation and said that it has organized many skill oriented trainings to transform women as entrepreneur. Shri. Ramesh M, ADA(vigilance), Ramanagara created awareness about Natural farming and significance of nutri garden in each house for nutrition security. Shri. Manjunath. Manager, UCO bank briefed about the bank facility available for SHG group. On this occasion four entrepreneurs viz., Smt Prasheela, Smt Shivaratnamma, Smt. Sudha, who are involved in food processing and Smt Sundaramma involved in tailoring were honored. More than 60 participants participated in the program and were benefited.



ICAR-KVK-Shivamogga

Recycling of Agricultural wastes for sustainable Soil management

One day training programme was conducted by ICAR-KVK, Shivamogga on 06.03.2024 in collaboration with Directorate of Extension, KSNUAHS, Iruvacki, Shivamogga. The programme was inaugurated by Dr. B. C. Hanumanth Swamy, ADE, KSNUAHS, Shivamogga and presided by Dr. G. K. Girijesh, Senior Scientist and Head, KVK, Shivamogga. The programme was Co-Ordinated by Dr. Anjali. M. C., Scientist (Soil Science), KVK, Shivamogga

During the training programme the trainees were enlightened about the importance of recycling Agricultural waste for sustainable soil management. Trainees were also educated about the different composting methods for different situations, importance of bio-fertilizers in improving the soil fertility, decomposition of areca husk into value added compost by using the decomposing compost culture, conversion maize waste into valuable compost and preparation of the vermin-compost. The trainees were taken to composting area and practically shown the different methods of composting pits.

Dr. Girijesh, G. K., Dr. Nagaraja, R., Dr. Shilpha, H. D. and Dr. Anjali, M.C, Involved in the programme as a resource Scientists. Totally 60 farmers from different taluks of Shivamogga participated and get benefitted.



INSPIRING INCLUSION: CULTIVATING A BRIGHTER FUTURE FOR WOMEN

This Women's Day, we celebrate the inspiring initiative of Krishi Vigyan Kendra Thrissur (KVK) that champions the inclusion and empowerment of women. Recognizing the challenges faced by SC women in rural areas, KVK's program goes beyond mere training – it fosters a path towards a more equitable and prosperous future. Twenty-three SC women from various parts of Thrissur district were trained for 20 days focusing on developing marketable skills crucial for success in agriculture and allied sectors. From nursery management to sustainable farming practices and value addition techniques, these women are gaining the knowledge and confidence needed to become active participants in the local economy. KVK's program doesn't stop at skill development. It encourages entrepreneurial thinking and self-employment, equipping women with the tools and inspiration to become agents of change within their communities.

In addition to its initiatives for SC/ST women empowerment, Krishi Vigyan Kendra (KVK) has also conducted five awareness programs in natural farming and millet cultivation, further fostering a spirit of resilience and innovation. The program aims to empower around 200 women with knowledge for producing crops through natural farming techniques. By equipping women with the skills and resources needed to thrive in natural farming and millet cultivation, KVK is not only promoting sustainable agricultural practices but also creating opportunities for women to increase their income and contribute to the overall socio-economic development of their communities.

KVK Thrissur is also equipping women with the skills and confidence to thrive through various capacity building programmes. As women become financially independent and self-reliant, they contribute not just to their own households but also to the overall socio-economic development of their communities. This inclusive approach ensures that no one is left behind. KVK's program embodies the spirit of International Women's Day's 2024 theme, "Inspire Inclusion." It is a shining example of how empowering women leads to a more inclusive, sustainable, and flourishing future for all.



VOCATIONAL TRAINING PROGRAMME ON FARM MECHANIZATION UNDER SCSP SCHEME

A nine day training programme for 20 scheduled caste rural youth on “Farm mechanization” was organized by Thiruvananthapuram KVK from 4th March to 15th March, 2024. The programme was organized under Scheduled Cast Sub Plan Scheme.

Dr.Binu John Sam, Senior Scientist & Head inaugurated the programme. In his inaugural address he talked about the labour problem faced by the farmers and high labour cost prevalent in current times. He touched upon implementing machinery in farming operation as the only solution to these predicaments. A variety of small and large implements/ machines can be used for farming operations and trained personnel are required to operate these machineries as mechanization is being implemented in a big way. He urged the participants to use the opportunity to get themselves trained in the use of various machineries that they would be exposed.

A group “Aryanad Agro Yenthra 2” was formed with the participants as members. Chithra G., SMS in Agricultural Engineering co-ordinated the programme. She addressed the trainees and informed that the skill development training enhances self employment. The trainees can use the machines to operate them in farmers' field for various agricultural operations. With a custom hiring centre being established at KVK, these can be taken on rent at nominal price and that indirectly increases the phase of farm mechanization within the reach of farmers.

The personnel were trained in the operation and maintenance of tractor, power tiller, power weeder, chain saw, earth auger, brush cutter, hedge trimmer, coconut climber, semi manual cassava harvester and tree pruner. All the farm trainees were made to operate all the machines.





ICAR-KVK-Tumkur-1

District level workshop on coconut

ICAR-KVK-Tiptur, Tumkur-1 in collaboration with Coconut development board and Swarnabhoomi FPO, Dabbegatta, Turuvekere Taluk organized District level workshop on coconut at Benakanakere village of Turuvekere taluk on 12/03/2024. The programme was inaugurated by Dr. M.J. Chandre Gowda, Principal Scientist and Nodal officer, ATARI, Bangalore. During his inaugural address he pointed out the facts that being largest coconut producing district in Karnataka and Tumkur has potential for production of coco peat and highlighted the importance of coco peat which can be used as soil microbial enhancer, a gardening mix and hydroponic system. Dr. V. Govinda Gowda, Senior Scientist and Head highlighted the importance of inter-crops in coconut to enhance farmer income. Dr. Keerthishankar, K. Scientist (Horticulture) delivered a lecture on scientific cultivation of coconut. Mr. Manoj, H. Scientist (Plant Protection) delivered a lecture on integrated pest and disease management in coconut and method demonstration of root feeding techniques in coconut. During this programme Mr. H.B. Nanjegowda, Ex MLA, Turuvekere, Mr. Basavaraju, Presedient, Swarnabhoomi FPO, Dabbegatta, Mr. Jayaram, President, Coconut producer organization, Mr. Lakshmi Sagar, Assistant Horticulture Officer, Turuvekere and 62 farmers participated in the programme.



Training programme for Krishi Sakhis on Natural farming

ICAR-KVK-Tiptur, Tumkur-1 organized 05 days training programme on Natural farming for Krishi Sakhis in association with MANAGE Hyderabad and Sanjeevini, Government of Karnataka from 11-03-2024 to 15-03-2024. The programme was inaugurated by Mr. Channakeshava, Assistant Director of Agriculture, Tiptur and addressed the participants regarding difference between Natural farming and Organic farming and also mentioned the schemes to be available for farmers from department of agriculture. Dr. V. Govinda Gowda, Senior Scientist and Head explained the steps for conversion of



ICAR-KVK-Tumkur-1

unfertilized and chemical applied land to fertile land using bio natural inputs. During this training programme resource person from KVK Tiptur and champion farmers delivered a lecture on concept of natural farming, and its eco system, soil health management, bio inputs preparation, farming system and seed system, water conservation practices, IFS system, crop and livestock model, extension method, natural product certification linkages etc during this 05 days programme. Total 36 krishi sakhis from 10 taluk of Tumkur district were participated and benefited this programme.

Awareness programme on Bee Keeping

ICAR-KVK-Tiptur, Tumkur-1 in association with Khadhi and Village industries commission, Bangalore organized one day awareness programme on Bee Keeping on 14th march 2024. The programme was inaugurated by Dr. E Mohan Rao, State Director, KVIC, and Bangalore and addresses the participants regarding benefits and schemes to be available from KVIC during 2024. Dr, M.S. Reddy, Ret. Professor, Department of Zoology and Genetics delivered the lecture on Bee Keeping and its importance and motivated the farmers to take up Bee Keeping activities with his real incidence. Dr. V. Govinda Gowda, Senior Scientist and Head in his presidential remarks he gave assurance for provide vocational training on Bee Keeping during coming days. During this programme KVK staff, KVK Scientists, and around 140 farmers were participated and 50 men were registered in advance for upcoming training programme.





ICAR-KVK-Tumkur-II

The Awareness Programme on Protection of Plant Varieties and Farmers' Rights Act, 2001

The ICAR-Indian Institute of Horticultural Research, Hessaraghatta, Bengaluru, ITMU, Bengaluru, and ICAR- Krishi Vigyan Kendra, Hirehalli jointly organized the Awareness Programme on the "Protection of Plant Varieties and Farmers' Rights Act, 2001" for farmers and different stakeholders on 29.02.2024 at Krishi Vigyan Kendra, Hirehalli, to create awareness of the PPV & FRA among farmers and stakeholders. Dr. Somashekhar SMS Plant Breeding, ICAR- KVK, Hirehalli welcomed all the delegates, resource persons, and farmers to the program.

Dr. B.L. Manjunath, Principal Scientist and Nodal Officer, Institute Technology Management Unit, IIHR, Bengaluru, highlighted the target and reach of this program in his keynote address and ensured support by the IIHR to protect existing varieties of different agriculture and horticulture crops under this Act.

The program was inaugurated by Dr. Niranjana Murthy, Retired Prof., ADR, UAS, Bengaluru, and other dignitaries. He spoke on the importance of this law for protecting landraces and other local varieties for future generations. He explained the various provisions available to protect the rights of breeders as well as farmers' varieties in India, emphasizing the need for such an act, which was very essential after Globalization and Liberalization.

Later, Dr. M. Pitchaimuthu, Principal Scientist, IIHR, and Dr.C.Vasuki, Principal Scientist, IIHR Bengaluru, elaborated on the Importance of DUS (Distinguish, Uniformity, and Stability) testing for the protection of different varieties in vegetable crops and fruit crops, respectively, under the PPV&FRA Act 2001.

Dr. Loganandhan, N., Head ICAR KVK, Hirehalli, Tumakuru, in his presidential remarks, assured farmers that KVK would support the documentation as well as the application for the registration of the varieties with the help of the host organization. In the program, a total of 60 participants participated, including farmers, farm women, developmental department officials, NGO officials, and Scientists. The program concluded with a vote of thanks by Sri KN Shashidhar Programme Assistant, KVK, Hirehalli.

Dr.Somashekar, Plant Breeding and K.N.Jagadish, Agril.Extension





ICAR-KVK-Udupi

Training programme on Scientific Cashew Cultivation

A DCCD sponsored cashew training programme was organized at KVK Brahmavara on 09.02.2024. The programme was inaugurated by Dr. Dhananjaya B, Senior Scientist & Head, KVK Brahmavara. Dr. Raviraja Shetty G, Scientist (Horticulture), KVK Brahmavara and Dr. Revanna Revannavar Prof (Entomology), ZAHRS, Brahmavara served as resource persons. The farmers were guided about scientific management of cashew plantation, plant protection and value addition. A field visit to cashew orchard of ZAHRS, Brahmavara was arranged where farmers are practically exposed to the Tea mosquito bug management and methods of training and pruning.



Scientific Cashew cultivation

A programme on “Scientific Cashew cultivation” sponsored by DCCD was organized at Amparu on 07.03.2024. The programme was inaugurated by Sri Uday Kumar Shetty, President, Kundanadu Farmers producers company Limited, Amparu.

Dr. Raviraja Shetty G, Scientist (Horticulture), KVK Brahmavara and Dr. Revanna Revannavar Prof (Entomology), ZAHRS, Brahmavara served as resource persons. The ways to improve cashew production and value addition to enhance the income was discussed and farmers were informed about intercropping to make cashew plantation more productive and remunerative. Dr. Raviraja Shetty G organized the programme.





ICAR-KVK-Udupi

Bee Keeping training programme

ICAR – Krishi Vigyan Kendra, Brahmavar, Udupi has organized 2 days capacity development programme on value addition in Honey bee products. The programme was inaugurated by the Honey Bee Icon of Karnataka State and Billionaire farmer award winner from Sirsi Mr Madhukeshwara Hegde has opined that Honey Bee products has the capacity to increase the life span and has the power to manage the several diseases. Its called the Amruth on this earth and bee keeping is in high demand because it gives employment and income to the farmer. Honey bee are helping the nature to conserve the bio diversity of plants. Value addition of honey bee product will help you to get more revenue to farmers and income of the country as whole.

Agriculture Diploma College Principal Dr. Sudheer Kamath K.V, Dr Kenchareddy, Extension Leader, EEU, Madikerei and the resource person Dr. Revanna Revannavar, Associate Director of Research, ZAHRS, Brahmavar were participated as guests on this occasion.

During the second day Dr. Vijay Kumar, Head, ACCRP on honey bees and pollinators delivered the talk on various products that could be prepared using Honey and Honey bees were taught to the participants. Dr Sangamesh Hiremath, Scientist from School of Agriculture, Deemed to be University Karunya Nagar Coimbatore demonstrated the different products that could be prepared as the bee wax. Lip balm was the most accepted product from the participants.





ICAR-KVK-Uttara Kannada Sirsi

Field day on Groundnut (Variety- G2-52)

ICAR - Krishi Vigyan Kendra, Uttara Kannda, Sirsi, KSDA and ATMA, Bhtakal jointly organized groundnut field day at Moodkeri, Bhatkal Taluk on 2.3.2024. Under CFLD-Oilseeds, 25 acres of demonstration was conducted in two Taluks, Honnavar (Haldipur) and Bhatkal (Moodkeri). The 17 demos conducted at Haldipur were vitiated due to unexpected heavy rains during first week of January 2024. In Moodkeri, 8 demos were conducted in December 2023 with newly released variety G2-52 from UAS Dharwad in 2017. The crop duration is 105 to 110 days. Variety is resistant to leaf spot and rust diseases, bears uniform flowers and even size pods. Oil content is 52%. Suitable for Kharif season, can be grown in Summer season too. The average yield is upto 25 to 30 q per ha.

Field day was conducted in Shri. Suresh Naik's field at Moodkeri. Dr. Roopa S. Patil, Senior Scientist and Head stressed about importance of quality seeds for coastal Uttara Kannada as groundnut is cultivated after the harvest of paddy under residual soil moisture and also with critical irrigation. She assured to conduct future activities in the village under KVK collaborations. SHri. B. C. Kolhar, Senior Technical officer gave detailed information about groundnut production aspects highlighting the role of gypsum, earthing up operations, irrigation schedule etc. Shri. Suresh Naik, Progressive farmer requested the KVK and KSDA staff to organize more of awareness programmes about Paddy, groundnut and pulses etc. Shri. G. L. Hegde, BTM ATMA, Bhatkal moderated the programme. More than 35 farmers/farm women participated in the programme.

(Source : Dr. Roopa S. Patil, Senior Scientist and Head)





ICAR-KVK-Vijayapura-I

INAUGURATION OF FARMERS HOSTEL OF KVK VIJAYAPUR-ION 13.3.2024

Farmer's hostel of ICAR-KrishiVigyan Kendra Vijayapur-I was inaugurated on 13.03.2024 by Sushri Shobha Karandlaje, Hon'ble Minister of State for Agriculture, Government of India, New Delhi. During the function Minister distributed power operated sprayer to farmers under SCSP project and 5 folders were released on QR code. Speaking on the occasion Sushri Shobha Karandlaje expressed her happiness for inaugurating the farmers hostel for which she had laid the foundation stone on 22.02.2023 and will be used for farmers training on recent advance in agriculture and allied subjects and promised more funds to farmers for project on processing and value addition in the coming years. Shri Vittal.D. Katakond, Member of Legislative Assembly, Vijayapur presided over the function. The Chief guest of the inaugural function were Shri Ramesh Jigajinagi, Member of Parliament, Vijayapur, Dr.VenkataSubramanian, Director, ICAR-ATARI, Zone –XI, Bengaluru, Dr.P.L.Patil Hon'ble Vice Chancellor, UAS, Dharwad, Dr.S.S.Anagadi, Director of Extension, UAS, Dharwad, Shri. Srinivas Kotyan, and Shri Jaykumar Member Board of Regents, UAS, Dharwad.

Shri Ramesh Jigajinagi requested more funds for upliftment of farmers in the under developed district like Vijayapur and Shri Vittal Katakond requested minister to give more funds for cold storage and value chains. Dr.P.L.Patil, Hon'ble Vice Chancellor spoke about the welfare of farmers and achievements of KVK, Vijayapur, Dr. S.S Angadi, Director of Extension welcomed the dignitaries. The function ended with vote of thanks by Dr.R.B.Belli, Associate Director of Extension, Zone-III, Vijayapur. The function was attended by 280 farmers and 200 students of college of Agriculture, Vijayapur.



Diagnostic field visit

Senior scientist and head and scientist (Horticulture), ICAR-KVK, Vijayapura-II (Indi) visited problematic watermelon field of Mr. shivanand at Loni Bk on 04.03.2024, observed wilting of watermelon young plants due to over dosage of Ridomyl Gold drenching. Suggested spraying of sugar solution and vermiwash drenching.

Senior scientist and head, Scientist (Horticulture and Agronomy), ICAR-KVK, Vijayapura-II (Indi) visited problematic watermelon field and mango and sapota orchard of Mr. Ravi at Nandral on 04.03.2024, observed wilting in watermelon, anthracnose in mango and leaf Webber and leaf spot in sapota suggested appropriate control measures.

PRAActivity:

Senior scientist and head, Scientist (Horticulture and Agronomy), ICAR-KVK, Vijayapura-II (Indi) conducted PRA Activities at ChikkaSindagi village (Sindagi taluka) on 06.03.2024, Halasani village (Chadchan taluka) and Salotagi village in (Indi taluka) on 11.03.2024. They engaged in mapping, group discussions focusing on major crops, prevalent issues, cropping patterns and irrigation methods. Additionally visited problematic fields and gram panchayats in the PRA villages. A total of 84 farmers actively participated in these PRA activities.

**Field day on Bahar and micro nutrient management in Acid lime**

ICAR-KVK, Indi (Vijayapura-II) organized field day on Bahar and micro nutrient management in Acid lime in Shri Nagappa Heggundi field at Gubbewada village of Indi Tq. on 15.03.2024. KVK Indi distributed the critical inputs (Arka Citrus special and Lihocin) to 10 farmers from different villages to conduct Front line demonstration for the year 2023-24 under leadership of Mrs. Heena.M S, Scientist (Horticulture). Scientist welcomed

all the farmer to the field day and explained about the programme. Dr. Shivashenkaramurthy M., Senior Scientist and Head, briefed about the KVK mandatories and urged to farmers to practice integrated farming system for higher yield as well as balancing the soil health during his inaugural speech. Mrs. Heena.M S, Scientist (Horticulture) event organizer explained on advance production technology of acid lime and use of citrus special to get higher yield during summer. Shri Nagappa Heggundi adopted technologies informed by the scientist and he got good results like attractive shiny large sized fruits which fetches highest price in the market and he expressed his happiness for adopting the technology. Around 35 farmers were witnessed the event.

Contributor: Smt Heena M.S. Scientist (Horticulture), KVK, Indi

ICAR KVK Wayanad- Helping hands to SC families under Tribal subplan

ICAR KVK Wayanad conducted one day training programme on vegetable cultivation and pest control in vegetables in households as part of Tribal Sub plan at Malankara, Nenmeni panchyath. Smt. Ashitha M.R, Assistant Professor, KVK Wayanad welcomed the gathering. The programme was inaugurated by Sri. Tigi cheruthottil, Nenmeni Grama Panchayath Vice President. In this event bio controls agents, bio pesticides and vegetable seedlings of cabbage, cauliflower, chilli, tomato, brinjal, onion were distributed to the tribal families in order to overcome the malnutrition and for sustainable vegetable production. Awareness on application of biocontrol agents and biopesticides were also included in the programme. Smt. Sruthi Krishna, Research Assistant, KVK Wayanad delivered vote of thanks to the gathering. There was a participation of 87 SC farmers in the event.

Flagship demonstrations in NICRA village

As part of NICRA project, field visit was conducted to the fields of farmers who implemented various flagship demonstrations at Kolavalli padasekaram of Mullankolli panchayat and assessed the progress. In this event, a training programme on rain water harvesting was lead by Sri. Rajesh P.D, Assistant Engineer. As part of the visit, ragi seeds were distributed to the farmers. Dr. Safia N.E Senior Scientist and Head KVK Wayanad, Dr. Arularasan G.S, Assistant Professor, Dr. Deepa surendran, Assistant Professor, Smt. Athira K.V, Assistant Professor and Smt. Alaka S Balan, SRF, NICRA Project , KVK Wayanad led the visit.



Foot Rot: An important bacterial disease of dairy animals

Introduction

- It is a sub acute or acute necrotic infection originating from a lesion in the inter digital skin that leads to a cellulitis in the digital region.
- Other common names for the disease are sore foot and foul foot.
- *Fusobacterium necrophorum* is the major cause of footrot.

Symptoms

- Severe lameness
- Animal holds leg in air to relieve pressure
- Swelling of interdigital space
- The skin of the interdigital space shows ulcerative changes.
- Affected animals may kick on the ground and disincline to move or try to move on two legs due to pain.
- There is elevation of body temperature, anorexia and loss of body weight.
- Anorexia
- Reduced milk yield

Prevention and control

- Ensure good health of the foot.
- Rough areas should be smoothed or fenced off from cattle, and debris should be cleared.
- To keep cattle from standing in wet, muddy conditions, barnyards should be scraped frequently, and measures to improve drainage should be taken.
- Zinc is important in maintaining the integrity of the skin and hoof.
- Feeding organic iodide (EDDI) at 10 to 15 mg per head per day has been helpful in decreasing the incidence of foot rot
- Mineral supplementation and vaccination programs increase the overall immunity of the cattle.
- Foot trimming should be done at least two times per year.
- Foot baths/foot soaks-formaldehyde/ phenols/copper sulphate - should be used 1-2 times per week for several weeks and may also be used routinely after foot trimming and as a preventive measure.

(D. V. Kolekar, Scientist, ICAR-ATARI Bengaluru)

Foot and Mouth Disease: An important viral disease of dairy animals

Introduction

- Is febrile, an acute, a highly contagious viral infectious disease of cattle
- This disease mostly manifests the lesions in the mouth, feet and mammary gland.
- Milk yield drops dramatically in milking animals, suckling calf usually die and pregnant animals may abort and infertility may ensure following abortion.
- It is caused by a virus Aphthous of the family Picornaviridae.

Symptoms of the disease

- High Fever and become weak and dejected, and there is a rapid loss of condition. Mortality in calves is high.
- Blisters in the mouth and on feet
- Drop in milk production
- Weight loss
- Loss of appetite
- Quivering lips and frothing of mouth
- Cows may develop blisters on teats
- Lameness
- In some instances heart failure may occur, causing sudden death.

Prevention and control

- Report occurrence immediately so as to invoke quarantine after the disease is confirmed by the veterinary authorities.
- Disinfect all the premises where the disease has occurred and motor vehicle tyres with suitable disinfectant to prevent further infections.
- Vaccinate regularly. Usually a multivalent vaccine is administered every 6 months as preventive measure.
- Vaccination of all the animals of an area or village is to be done at one time
- Strict adherence to sanitary measures e.g. destruction of feed and beddings of infected animals.
- New animals should not be purchased until six months following outbreaks.
- Isolation and confinement of affected animals immediately after detection of clinical symptoms.
- In case of outbreaks, healthy animals should be attended first and then the affected ones.
- Calves should not be allowed to suckle affected mothers and they should not be fed with milk from affected animals.
- Mouth of the affected animals may be washed with antiseptic mouth wash. 1% potassium permanganate solution may be applied 3-4 times a day.
- Feet of the affected animals may be washed with 2% copper sulphate solution.
- Antiseptic lotion and fly repellents are to be used to avoid infection and maggot formation on the wound.
- Disinfection of floors, premises and all infected materials by using Sodium hydroxide (2%), sodium carbonate (4%) and citric acid (0.2%) is advisable.

- Lime powder should be sprinkled around the animal houses.
- Shade them from the sun and give them plenty of water
- Give them soft feed such as green soft lush grass, better than hay as the blisters make it painful for the animals to eat. The addition of molasses is advised to give the animals energy.
- Give antibiotics by intramuscular injection to prevent secondary infection of the blisters

(D. V. Kolekar, Scientist, ICAR-ATARI Bengaluru)

Trypanosomiasis: An important parasitic disease of dairy animals

Introduction

- This is a protozoan disease of animals and humans caused by parasites of the genus *Trypanosoma*, which are found in blood plasma, various body tissues and fluids.
- Transmission : *Trypanosoma* are transmitted primarily by the *Glossina* spp., tsetse fly, *Stomoxys*, tabanid and reduviid bugs, and by venereal contact.

Symptoms

- Intermittent fever
- Anaemia
- Weight loss and weakness
- Edema, particularly observed in the face and legs
- Enlarged body lymph nodes
- Haemorrhage
- Opacity of the cornea, keratitis and photophobia
- Chronic form of trypanosomiasis is sometimes manifested by progressive weakness, despite absent parasitemia, and death.
- Prevention and control
- Control can be exercised at several levels, including eradication of tsetse flies and use of prophylactic drugs.
- Tsetse flies can be partially controlled by frequent spraying and dipping of animals, aerial and ground spraying of insecticides on fly-breeding areas, use of insecticide-impregnated screens and targets, bush clearing, and other habitat removal methods.
- Animals can be given drugs prophylactically in areas with a high population of trypanosome-infected tsetse. Drug resistance must be carefully monitored by frequent blood examinations for trypanosomes in treated animals.
- Several breeds of cattle and water buffalo have been identified that have innate resistance to trypanosomiasis and could play a valuable role in reducing the impact of the disease in these areas. However, resistance may be lost because of poor nutrition or heavy tsetse challenge.

(D. V. Kolekar, Scientist, ICAR-ATARI Bengaluru)

Abortion: A most common reproductive disease of dairy animals**Introduction**

- Is the production of one or more calves between 50 and 270 days of gestation; with calves being born dead or surviving for less than 24 hours.
- Abortion rates are usually calculated from cattle that abort from 120 days onwards.
- Non infectious causes are genetic defects, environment: e.g. high temperature, nutrition: e.g. mycotoxins and other: e.g. treatment with abortifacient drugs such as prostaglandin.
- Infectious causes are Infectious Bovine Rhinotracheitis (IBRT), Leptospirosis, Brucellosis, Mycotic abortion, Actinomyces, Trichomoniasis, Campylobacteriosis, Listeriosis, Chlamydiosis, and Epizootic Bovine etc.

Symptoms

- Protrusion of fetal membranes or water bags from the vulva prior to expected date of calving.
- Discharges from the vulva.
- Spontaneous expulsion of a dead or live recognizable size fetus without full development.
- Anorexia, dull and depressed condition of animal.

Prevention and control

- Proper hygienic and biosecurity measures in the cow's environment and feed storage
- Isolation of aborting cows and immediate removal of aborted materials
- Systematic evaluation of the feed for mycotoxins and other phytotoxins
- Adequate immunization against infectious diseases causing abortion
- Maintenance of adequate breeding and treatment records to avoid insemination of pregnant cows and administration of drugs that may cause abortion to pregnant cows.
- Proper disposal of the aborted foetus and its membranes.
- Prevention of infected materials (uterine discharges, fetal membranes) ingestion.
- To prevent abortion due to listeriosis, feeding of poor quality silage with high pH should be prevented.
- To prevent abortion due to brucellosis, vaccination of calves from 3 to 7 months of age with strain 19 Brucella vaccine and bull calves should not be vaccinated.
- Breeding should be stopped at disease outbreak.
- Contact between animals should be kept at a minimum during outbreak.
- Diseased bulls should not be used for breeding.
- The semen which is used for Artificial Insemination should be free from any infectious agents.
- Pregnant animals should be protected from other animals attack.

(D. V. Kolekar, Scientist, ICAR-ATARI Bengaluru)





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