

A Window to KVKs of ICAR-ATARI, Zone-XI, Bengaluru
Vol 01 Issue 18, 16-31st March, 2022



KVK TIMES



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Azadi Ka
Amrit Mahotsav

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Zone-XI, Bengaluru

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KVK TIMES

A Window to KVKs of ICAR-ATARI, Zone-XI, Bengaluru
Vol 01 Issue 18, 16-31st March 2022

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FOREWORD**ಕೃಷಿ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಧಾರವಾಡ****University of Agricultural Sciences**

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I am happy to note that ATARI Bengaluru is publishing KVK-Times, an online, fortnightly magazine, highlighting the activities carried out by various KVKs of Karnataka, Kerala and Lakshadweep. It is a new approach of transfer of technologies started recently by ICAR-ATARI-Zone XI, Bengaluru to help farmers of its jurisdiction and converging the ideas of many KVKs into a single platform. I am pleased to note that KVK Hanumanamatti has been given the responsibility of publishing this 18th issue during second fortnight of March, 2022.

The KVK Hanumanamatti (Haveri) being the first KVK in Karnataka state established in 1976 and second KVK in South India, has contributed immensely for the welfare of farmers of Haveri district, which is known as seed bowl of Karnataka state. The KVK has made tremendous contribution specially towards popularization of new varieties of millets, groundnut, sunflower, soybean, bengal gram, *rabi* sorghum which are developed by UAS Dharwad, other SAUs and ICAR institutes. In spite of many constraints, the KVK, Hanumanamatti has achieved measurable contribution by conducting demonstrations of various technologies pertaining to major crops such as maize, cotton, paddy, sugarcane, soybean, groundnut and chilli in the district which has helped to enhance the farmer income.

I am confident that the KVK Haveri has attempted to publish this issue of 'KVK-Times' in a befitting manner and I wish them all the best and hope this KVK will reach newer heights in the days to come.

Dharwad

31st Mar, 2022**Dr. Mahadev B. Chetti**Vice Chancellor
UAS, Dharwad

MESSAGE**ಕೃಷಿ ವಿಜ್ಞಾನವಿಶ್ವವಿದ್ಯಾಲಯ, ಧಾರವಾಡ****University of Agricultural Sciences**

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In agriculture sector, extension plays a pivotal role in transferring new technologies from lab to land. Krishi Vigyan Kendras are one of such institutes mainly involved in technology transfer through Trainings, FLD and OFT programmes. Haveri district has two agro-climatic zones, viz, Northern transition zone and hilly zone and major crops grown include Maize, Cotton, Jowar, Groundnut, Sunflower, Mango, Arecanut, Chilli and Banana Among the horticultural crops mango stands first and yield levels and taste has caught the attention of concerned authorities to select it as the ODO (One District One Product) crop of the district. The 18th issue of KVK times brought out by KVK, Haveri (Hanumanamatti) the period of March 16-31, 2022, is a document that records and publishes various extension activities of KVKs coming under ATARI Bengaluru, Zone XI. It is an opportunity for documentation of extension programmes carried out by various KVKs which helps in cross learning for KVKs situated in different zones of the Country.

The unique approach of bringing out KVK Times online edition by ATARI Zone - XI for documentation of KVK activities is a model for other systems working on extension activities of ICAR.

I take this opportunity to congratulate KVK-Haveri for compilation of KVK Times and all KVKs of zone-XI constantly working for the farmers welfare.

Dharwad

31st Mar, 2022**Dr. Balachandra K. Naik**

Director of Extension

UAS, Dharwad



FOREWORD

ICAR-Agricultural Technology Application Research Institute, Zone XI



भा.कृ.अनु.प. - कृषितकनीकी अनुप्रयोग अनुसंधान संस्थान, जोन XI

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एम.आर.एस. एच.ए. फार्मपोस्ट, हेब्बाल, बेंगलुरु ५६० ०२४

Krishi Vigyan Kendra is the Knowledge and Resource Centre of agricultural technologies for technological empowerment of farmers. KVKs proved as the grass root level institutions for farming community and these are well established frontline extension system for effective dissemination of technologies for the farmers in the country. These centers play an important role in doubling farmer's income.

There are 48 KVKs established under Zone XI comprising the states of Karnataka, Kerala and Lakshadweep. The "KVK Times" now has become a platform to facilitate the sharing of valuable wealth of knowledge among the KVKs in the zone which also facilitate cross learning among them, understand and appreciate each other strengths.

KVK Haveri (Hanumanamatti) is the oldest KVK started in 1976 which is the first in Karnataka and second one in South India. KVK Haveri (Hanumanamatti) is doing its best service to the farming community through various extension activities and deserves my appreciation.

I acknowledge with gratitude the support rendered to KVKs by Dr. M.B. Chetti, Vice Chancellor, Dr. Balachandra Naik, Director of Extension, Dr. P.S. Hugar, Associate Director of Extension and Dr. Shripad Kulkarni, Nodal officer KVK's, UAS Dharwad for their effective service to the farming community.

I Congratulate Dr. Ashoka P, Senior Scientist and Head, ICAR-KVK Haveri and his team which has done commendable job in bringing out this edition of "KVK TIMES". I also recognize the services of other KVKs which have contributed for the welfare of farmers.

Bengaluru
31st Mar, 2022

(V Venkatasubramanian)
Director, ICAR-ATARI, Bengaluru



ACKNOWLEDGMENT**ಕೃಷಿ ವಿಜ್ಞಾನವಿದ್ಯಾಲಯ, ಧಾರವಾಡ****UNIVERSITY OF AGRICULTURAL SCIENCES, DHARWAD****ಐ.ಸಿ.ಎ.ಆರ್-ಕೃಷಿ ವಿಜ್ಞಾನ ಕೇಂದ್ರ, ಹಾವೇರಿ****ICAR-KRISHI VIGYAN KENDRA, HAVERI**

Hanumanamatti-581 115 Tq: Ranebennur Dist: Haveri

I would like to express my gratitude to ATARI, Bengaluru for giving us an opportunity to compile and bring out KVK Times of Zone-XI for this second fortnight of March, 2022. I whole heartedly thank Dr. V. Venkatasubramanian, Director, ICAR-ATARI, Bengaluru for his constant inspiration, encouragement to serve the farming community and valuable guidance in bringing out this edition of KVK Times.

The encouragement and constant support of our Honorable Vice-Chancellor, Dr. Mahadev B. Chetti, has always been supportive in executing our services to the farming community.

I would like to express my gratitude to our beloved Director of Extension Dr. Balachandra K. Naik, Associate Director of Extension Dr. P. S. Hugar, and Nodal Officer Dr. Shripad H. Kulkarni for their timely guidance and inspiration to carry out the various activities successfully.

I also extend my heartfelt thanks to Dr. DVS Reddy, Principal Scientist and Nodal Officer ICAR-ATARI, Bengaluru for their constant support and guidance. I sincerely acknowledge the whole Zone-XI of KVK family who shared their achievements timely to bring out this "KVK Times" 18th newsletter.

wholeheartedly thank our KVK team for their complete involvement in bringing out this issue effectively.

Dr. Ashoka P.Senior Scientist and Head
ICAR-KVK, Haveri (Hanumanamatti)

Hanumanamatti

31st Mar, 2022

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World water day-2022

Let's Look Together: "Groundwater - Making the Invisible, Visible" with GLOBE



KVK Haveri

ONE DISTRICT ONE PRODUCT (ODOP)

Mango (*Mangifera indica* L.) belonging to Family Anacardiaceae is an important commercially grown fruit crop of Haveri district. Mango crop has been selected as ODOP crop of Haveri district. Total area under mango in Haveri district is 5600 ha with a production of 48482 metric tons and productivity of 7.82 tons/ha. Hangal (3844 ha) and Shiggaon taluks (1191 ha) are major mango growing belts in district and they contributed 68.64 and 21.26 per cent respectively to the total of district mango production. To enhance the mango crop area, productivity and to create awareness about post-harvest handling of mango, Farmers Field School (FFS), frontline demonstration and trainings were conducted at Hude village of Hanagal taluk and Tadas village of Shiggao taluk. Farmers Field School provides an opportunity for farmers to learn through practical exposure. A group of mango growing farmers who are also active members in Kumareshwara Horticulture Farmer producer organization (25 farmers) learnt ICM approaches by active participation. The participants (farmers) in small sub groups took the observations on integrated crop management practices conducted in the field. The method demonstrations on 'mango special' application and installation of pheromone traps were also taken up in the same field.

Under 'Integrated crop management in Mango' frontline demonstration technology like application of mango special, application of Thiomethoxam 25% WG @ 0.25 g + Hexaconazole 5% SC @ 1 ml for management of leaf hopper and powdery mildew, installation of pheromone trap for fruitfly management and to prevent flower and fruit drop, application of Planofix 4.5% @ 0.25 ml during flowering period were demonstrated.

Further to encourage a greater number of farmers to take up mango crop, a separate whatsApp group has been created and maintained by KVK. Various issues related mainly concerned with mango production and post-harvest handling were discussed in the group.



KVK Haveri

"World Water Day" celebration at NICRA village Rahutanakatti

Under swacchata programme "World Water Day" was celebrated on 22.03.2022 at Rahuthankatti village of Ranebennur Taluk by KVK, Haveri (Hanumanamatti). Preliminarily a Jatha was conducted by school children in the village. It was led by Senior Scientist and Head of KVK Dr.Ashoka P and teachers of higher primary school of the village. The jatha of the 6th, 7th and 8th grade school children of the same village was taken up by shouting slogans in order to create awareness on better use of water in the village. The Hon'ble MLA of Ranebennur constituency, Shri.Arunakumar Poojar, witnessed the programme by visiting as a guest during the Jatha. While addressing children, he said that water management is very important in agriculture and if the importance of water is realized, the problem of scarcity and pollution will be reduced in future. In this regard, the KVK, Hanumanamatti conducting this programme at right time.

During the Jatha, the president of Rahutanakatti Gram Panchayath, Shri Parameshappa Lamani said that conservation of water is our responsibility and we need to ensure that it is not lost for the next generation. In the Jatha, village Gram Panchayath PDO, panchayat members and 5 progressive farmers / farmer women were participated.

Later at the school premises speeches were delivered by Dr.Ashoka P, and said that soil and water are the most valuable natural resources. These have a significant impact on the country's

economic, political and social life. Internationally, World Water Day is celebrated on March 22nd of every year. Each year a ritual is given and is celebrated accordingly. This year's slogan is "Groundwater - Making the Invisible Visible" This will increase the water intake by the earth. May everyone be aware of World Water Day and use less water this summer to avoid being affected by water scarcity. There is a debate that the days of buying of water in petrol bunk is close. Knowing that water is important resource of life in the world it can be a major blow only if you have a need for water. There is no tree without water. And then the head master of the school, Mr.M. F.Eeligara. said that everyone should focus on using less water. The KVK scientists Dr.Rajkumar and Dr.Shanthverayya were associated in organizing the programme.



KVK Haveri

Celebration of World Meteorology Day

KVK Haveri celebrated World Meteorology Day on 23rd March, 2022 at Govt high school of Rahutankatti village of Ranebennur taluk. During this event Dr.Shantveerayya SMS (Agrometeorology) DAMU, KVK Haveri briefed the students that, meteorology day was celebrated to commemorate the formation of World Meteorological Organization on March 23, 1950. Since 1961, the day has been celebrated with a different theme each year. For 2022, the theme is "Early Warning and Early Action." This year, the World Meteorology Day intends to showcase the contribution of the National Meteorological and Hydrological Services to the safety and well-being of people across the country.

Later he added that earth's temperature is increasingly being affected by climate change as a result of global warming. Earth's ice peaks melting and the sea levels are rising, causing cities to sink. Due to climate change, crops are being devastated; severe food shortage and high temperatures can drastically affect the diversity of life. Highlighted the importance of weather forecasting in this same context, weather forecasting helps in urban governance and



natural disasters management. He also



delivered the role of weather forecasting is important in the delivery of weather-based farming advice and long-term weather warnings, which will help to prevent crop damage from natural disasters and helps to take up agricultural activities in advance. At the end he briefed that awareness of weather forecasting is essential to address future challenges in agriculture and for farmers to plan their future farming activities. During this occasion more than 120 students and six teachers of higher primary school were attended.

Soil testing training program at NICRA village

ICAR - Krishi Vigyan Kendra, Haveri conducted "Soil Testing Awareness Training Program" at Rahutankatti village of Ranebennur taluk on 30.3.2022 under NICRA project. Dr. Rajakumar G.R. Scientist (Soil Science) briefed on technical information on the importance of



soil test based nutrient management and the use of fertilizers in agriculture. Scientist also highlighted the use of lime and gypsum to problematic soils based on soil test result. When salinity is high in the soil ($>4.0\text{ds m}^{-1}$), salt should be removed through proper drainage. A well decomposed organic manure should be added prior to sowing. The method of soil sampling was demonstrated to farmers.

On this occasion, Dr. Shantveerayya, SMS (Agrometeorology) KVK Haveri briefed on



about environment protection. Later students visited to Automatic Weather Station (AWS) at



KVK Haveri, at this point Dr. Shantveerayya SMS (Agrometeorology) KVK Haveri conveyed the information on operational techniques of weather instruments (sensors) and its utility at every 15 minutes. In addition to this, he delivered lecture on climate change, importance of weather forecasting in agriculture, role of District Agro Met Unit (DAMU) in reducing the abiotic risk involved in farming.

importance of weather forecasting in farm activities. A newly established District Agro Meteorological Unit (DAMU) at KVK Haveri disseminating the block wise weather forecast and weather based agro advisories to farmers through whatsapp groups which are created by DAMU. Farmers are advised to register the whatsapp mobile number and make use of this service for minimising the loss occurred by abiotic factors.

Students exposure visit to Farm Science Centre

Govt. high school students of Hulihalli village of Ranebennur taluk were visited to ICAR – KVK Haveri to acquire the knowledge on agriculture. During the visit Dr. Rajakumar G.R. Scientist (Soil science) KVK Haveri delivered information on soil and nutrient management, importance of soil and water testing in agriculture. Students also visited College of Agriculture, Hanumanmatti and gained



information on seed testing procedure. Dean of the college and Campus Head Dr. C.P. Mansur addressed the students and briefed about agriculture diploma and degree programmes at the Hanumanamatti campus. He highlighted

NABARD Sponsored training programme maize and millet processing to millet FPO From 22.03.2022 to 28.03.2022.

Seven days training on processing of millets and maize from 22.03.2022 to 28.03.2022 to members of millet Farmers Producer Organisations (FPOs), Haveri district by Krishi Vigyan Kendra, Haveri (Hanumanamatti). The programme was inaugurated by Shri. L. S. Ajjaganavar, Hon'ble member, Board of Management, UAS, Dharwad. The Dean of Agriculture College and Campus Head (IC), Hanumanamatti Dr. M. V. Majunath, Deputy Manager, NABARD, Haveri district Shri. Mahadev Kirthi, FPO Consultant, Bengaluru, Yogish Appajigowda and Nodal officer of KVKs, UAS, Dharwad, Dr. Shripad Kulkarni, were participated in the programme. In the inaugural talk, Board member asked the trainees to make the best use of training and should carry the knowledge & implement in their FPO to get more income. Shri. Mahadev Kirthi, suggested to all the trainee to get benefits of this training effectively and work for development FPO as well as farming



community and he also said that financial assistance has been given for FPO for establishment of food processing units especially millet and to make a branding to all processed products. Dr.Sripad Kulkarni, spoke about the training objectives, importance of training especially millet and maize processing, FPOs of Haveri, district. He explained in detail about seven days activities including exposure visits and he interacted with various FPO members, CEOs and Presidents regarding progress, activities and problems faced by FPOs and he also suggested the trainees to involve specially during exposure visits.



On first day, lectures on varietal development and agronomic practices in millets were given by Dr.Nagappa Govinakoppa, UAS, Dharwad. Later Shri.Yogish Appajigowda, spoke about objectives, structure and function of FPOs and explained the benefits of FPO, brand making and marketing strategies. He also interacted with three FPO's viz. Bhoomika FPO, Kantesh FPO, and Medini FPO regarding past, present and future activities of FPOs. During second day of the training lectures were given on sweet corn, baby corn and their agronomic practices etc. by Maize Breeder Dr.Sidrama Talekar, later professor, Dr.Sarojani Karkannanavar, gave lecture on Processing of coarse grain especially popping, malting weaning of food and snacks making. Dr.Suvarna C Hegde demonstrated the pop corn making, malting and snacks making. Dr. Geeta Tamagale, Home scientist, KVK, Dharwad, briefed on nutritional superiority of minor millets, composition of millets, dehulling and pearling studies in millets.

Capacity Building of Farmers through Training Programmes on Profitable Dairy Farming And Live stock Management

The ICAR-Krishi Vigyan Kendra, Haveri (Hanumanamatti) conducted three day's training programme on "Integrated Health management in sheep and Goat" from 18.03.2022 to 20.03.2022 under the project entitled "Capacity Building of Farmers through Training Programmes on Profitable Dairy Farming And Livestock Management" sponsored by Ministry of Fisheries, Animal Husbandry and Dairying, Department of Animal Husbandry and Dairying, Government of India New Delhi.

Programme inaugurated by Dr. Narendranath Chowdal, Assistant Director, Department of Animal husbandry and Veterinary Services, Byadagi in his speech he briefed about recent advances in health management of small ruminants Dr. Ashoka.P, Senior Scientist and





Head, during his presidential speech briefed about Animal husbandry depended integrated farmingsystem. Dr.Shivamurthy D, Scientist (Agronomy) given lecture on green fodder cultivation. Dr.MaheshKadagi,given lecture on infectious diseases of small ruminants and Vaccination Schedule.Arranged for exposure visit to Kenguri Sheep breeding station, Guttaland demonstrated deworming and vaccination in sheep.A total of 40 farmers wereparticipated.

Software engineer couple of Ranebennur turned into Dairy Entrepreneurs

Mr.Harshawardan and Mrs. Sahana were software engineers worked in different countries. From the beginning they are interested in desi cow dairy farming, however because of their busy schedule failed to execute. Finally in 2018 they left the job and shifted to their native Gangapura, Ranebennurutq where they have got 2 Acre of land, to start dairy farm.

Initially the couple brought 8 Gir cows from Gujarath. The big challenge was to marketing of desi milk with suitable price. During the initial period the entire milk was converted into ghee to preserve it for a longer period. Later Mr and Mrs Harshawardan visited the KVK-Haveri, interacted with scientists regarding Gir cow maintenance, clean milk production, feed and fodder management vermicomposting and marketing of

milk etc. Scientists suggested them to create their own brand for the purpose of marketing. The new technologies on milking, bottling, labeling and marketing were dealt to the couple. Later they created their own marketing channel where milk was sold under the brand name of "Jeevakosha" and ghee as a "Aadhya". To provide further opportunity KVK Haveri selected Mrs.Sahana for 5 days training programme on "Entrepreneurship development in dairying" organized by AIC-SRS-ICAR-NDRI foundation in collaboration with ICAR-ATARi, Zone-XI, Bengaluru at NDRI Bengaluru. During the state level training she learnt the advanced dairy technologies in value addition and marketing. Now the Jeevakosha dairy farm has expanded with 22 Gir cows, 3 Bulls, 5 heifers and 10 calves. Total milk production is around 60 liters. Now they are selling milk @ 80 Rs./liter and ghee at the rate of 2500 Rs/kg at nearby city and Davanagere.

Jeevakosha Gir Dairy farm has become a point of attraction for new aspirant dairy farmers. Lot of people visiting the farm, 3 farmers started dairy farming inspired by them. Mr.Suresh olasangada farmer from Savanuru tq, Haveri district inspired by them, started small scale Gir dairy farm. He started selling ghee to different parts of Karnataka with help of Jeevakosha farm. Total milk production per day is around 60 liters and he is getting Rs.86,000 net income per month. Utilizing this amount they are planning for small scale Deccani sheep farm and Backyard poultry farm. Throughout the year, one male and one female employed in their dairy farm.



KVK, Bagalkote**On Campus FAP at KVK Bagalkote**

An awareness programme was conducted on 29.03.2022 to farmers of the Bagalkote district at KVK Bagalkote. A total of 17 farmers participated and got benefit of this



programme. Mr. Basavaraj Nagaleekar (SMS Agrometeorology) explained to farmers about weather, climate, climate change, reasons for climate change, effects of climate change on agriculture, mitigation strategies, Objectives of GKMS project, details about DAMU and Weather based Agro-advisories. Also explained about Weather related mobile applications like Meghdoot, Mausam, Damini.

Capacity Development Trainings for Dairy Farmers

An ICAR sponsored trainings for Dairy Farmers organised by KVK Bagalkot from 28th to 30th March. Various topics including clean milk production, Breeds of animals, Vaccination Fodder and Vermicomposting were covered under these trainings. Recourse persons from Department of Animal Husbandry and Veterinary Science and KVK deliberated all these aspects. An exposure visit was organised under this training to Dairy Farm at Ilkal Village.

**KVK, Belagavi-1****Celebration of World Water Day**

ICAR-BIRDS Krishi Vigyan Kendra, Tukkanatti, Belagavi-1 has organised Special day celebration of "world water day" on 22/03/2022. Program was presided by Shri. R. M. Patil, Chairman, ICAR-BIRDS KVK, Belagavi-1, Chief Guest of the program Shri. B. K. Baralayi, Principle, BSW College, Tukkanatti and Shri. Omprakash Hulli, Head master, Def and Dem School, Tukkanatti. Program went very well with agenda consist initially ICAR song followed by welcome speech by Sushri. R. B. Karabhari, Scientist (Home Science), Shri D. C. Chougala, Scientist (Plant Protection) made introductory remark on world water day celebration and its importance.

Dr. D. A. Mhetre, Senior Scientist & Head, KVK Belagav-1 delivered the lecture on present scenario of water in worldwide, proper way for utilisation of available water resources and step to be taken to avoid the water scarcity in future are covered in detail during lecture. Chief Guest of the programs are expressed their views Shri. B. K. Baralayi, Principle, BSW College, Tukkanatti told about water is the fundamental element for every living organism that need to be proper use and conserve for future. Shri. R. M. Patil, Chairman, ICAR-BIRDS KVK, Belagavi-1 addressed his presidential remark that adoption of Rain water harvest technology will help to increase ground water level and awareness on water conservation and proper utilisation of water need to be done.



KVK, BELAGAVI-II

Soybean & Sugarcane Farmers -Scientists-Industry Interface Meeting

ICAR-Krishi Vigyan Kendra, Mattikopp (KVK-Belagavi-II) in association with ICAR-ATARI, Bengaluru, KLE Society, Belagavi, ICAR-IISR, Indore, ICAR-SBI, Coimbatore and CB Kore Sahakari Sakakre Kharkhane Niyamita, Chikodi organized Soybean & Sugarcane Farmers-Scientist- Industry Interface Meeting at Shivalaya, Ankali on 14.03.2022.

The programme was inaugurated by Shri B.C. Patil, Hon'ble Minister of Agriculture, Govt. of Karnataka, Bengaluru by pouring the soybean seeds to earthen pots. Speaking on the occasion, the Minister addressed stating, India is importing edible oil worth of Rs. 75,000 crores to meet the demand of growing population. Further, added that the country has to attain self sufficiency in oil production as envisaged in the Prime Minister Atmanirbhar Yojana. To meet this challenge, he emphasized to increased production of soybean by extending the area in new region and enhancing the productivity in the existing area. In addition to this, he stressed for adoption of soybean based intercropping system to boost the soybean production. Soybean is an important oil seed crop in Karnataka with an area of 3,60,000 ha and



production of 4,18,060 t and the crop

occupies an area of 98,000 ha in Belagavi district. Apart from this, Sugarcane is being cultivated in an area of 2,88,000 ha in Belagavi district and due to its large area under sugarcane in the district is called as Sugar Bowl of Karnataka. Hence, the district has wide scope for introduction of soybean as intercrop



in the sugarcane growing areas and due to this intervention in the district, can achieve self sufficiency in soybean seed production and can be a role model for other states growing soybean. Apart from this, farmers can gain an additional income as a bonus. Hence, he called on farmers to adopt this intercropping system as per the advice of the Scientists interacting in the interface meeting.

Presiding over the function, Dr. Prabhakar B. Kore, Hon'ble Chairman, KLE Society, Belagavi, highlighted that the KLE Society's ICAR-Krishi Vigyan Kendra is striving hard to promote soybean production in the district to meet the challenge of soybean seed production. As part of its efforts, KVK has entered into MoU with ICAR-Indian Institute of Soybean Research, Indore to produce quality seeds of high yielding varieties of soybean under 3S1Y project. He called on farmers to adopt these varieties to boost soybean production in the district and emphasized the importance of cultivation sugarcane + soybean as intercrop to get additional income without affecting the yield of sugarcane.

KVK, Ballari

ICAR-KVK, Ballari organizes Capacity Building Programme and Campaign on 'Immunity Boosting Foods'

Two days capacity building programme and campaign on 'Immunity boosting foods to combat effects of COVID-19' was held at ICAR-Krishi Vigyan Kendra Ballari on 24-25-March 2022. The programme was conducted as a part of RKVY project on "Mitigation of effects of COVID-19 outbreak through empowerment of rural women and youth by incorporating health foods, immunity boosters and life skill training methods". Mrs. Usha, CDPO (Rural) inaugurated the programme. In her inaugural address she emphasized on importance of nutritious foods for infants & school going children and also about the hygienic practices to be followed to ensure the safety of the family. She also addressed the gathering about the importance of immunization to battle against deadly diseases in infants and children.

Dr. Ramesh B K, Senior Scientist and Head of KVK in his presidential remarks mentioned the importance of foods of animal origin to enhance our immunity. Dr. Shilpa H, Scientist (Home Science) explained the importance of food groups and the nutrients which helps to increase the body's immune power. Dr. Yogesh L.N, Assistant Professor and Millet breeder gave lecture on importance of



consumption of millet foods and the millet varieties suitable to grow in Ballari district. Dr. Jayaprakash Narayan, Scientist (Horticulture) briefed about the importance of

nutri-gardens. Mr. Shivaji Rathod, Food Technologist demonstrated the preparation of papaya jam. Dr. Ravi S., Scientist (Soil Science) delineated the gathering about the importance millets and important millets grown in the district. Dr. Govindappa M R Scientist (Plant Pathology) explained about importance of bio-agents, bio pesticides, Integrated Farming System and their impact on health. A total of 100 participants in the programme.

KVK, Chamarajanagara

Pre Action Plan 2022-23 of UAS, Bengaluru KVKs held at ICAR KVK, Chamarajanagara

ICAR KVK, Chamarajanagara hosted 3 days (16.03.2022 to 18.03.2022) pre-action plan 2022-23 for KVKs of University of Agricultural Sciences, Bengaluru and was organized by Director of Extension, UAS, Bengaluru in collaboration with ATARI, Zone-XI, Bengaluru. The programme was inaugurated by Dr. N. Devakumar, Director of Extension, UAS, Bengaluru. In this occasion Dr. Chandregowda, and Dr. D.V. Sreenivasa Reddy, Principal Scientists from ATARI, Zone-XI, Bengaluru and Dr. N. Nagaraj, Former Director of Extension, UAS, Bengaluru participated in the programme and provided valuable suggestions were given by them to improve the Action plan 2022-23.

As a part of this programme, Dr. C. Ramachandra, Extension leader, EEU, Naganahalli, Mysuru, Dr. G.G. Kadalli, Professor and Head, AICRP on LTFE, Bengaluru, Dr. O.R. Nataraju, Professor and University Head (Animal Science), UAS, Bengaluru, Dr. Srinivas Reddy, K.M, Agriculture Entomologist, AICRP on Sunflower, UAS, Bengaluru and





Dr. Umashankar, Associate Professor (Plant Pathology), CoA, Chamarajanagara were participated as a subject resource persons. Dr. Shashikumar. C, Jr. Agronomist, AICRP on Cotton, Chamarajanagara, and Dr. Somu. G, Jr. Plant Breeder, AICRP on Sorghum, Chamarajanagara participated there in the programme.

KVK, Chikkamagaluru

Taluk Level Coconut Workshop

ICAR-Krishi Vigyan Kendra, Chikkamagaluru in collaboration with Coconut Development Board, Bangalore has organized the Taluk level Coconut workshop on 22.03.2022 at Yaradekere village of Kadur taluk.



Dr. Krishnamurthy, A.T, Senior Scientist and Head, Krishi Vigyan Kendra, Chikkamagaluru, in his introductory remarks

he briefed about the cropping patterns of the Kadur taluk and advised the farmers to adopt advanced technologies, Pest and Disease resistant varieties and high yielding varieties to enhance the productivity.

The programme was inaugurated by Dr. Aravali, Director, Coconut Development Board, Bangalore. During his inaugural speech he briefed about coconut varieties and hybrids released for cultivation in Karnataka and also briefed about maintenance, manuring, irrigation practices and coconut based cropping systems.

Dr. S. Adashiva Nudukeri, Associate Professor, Department of Plantation Crops, COH, Mudigere, delivered the lecture on selection of Mother palm for seed material to raise the nursery and briefed on irrigation, fertilizer and inter crops in coconut plantation.

Dr. Girish, R., Scientist (Plant Protection), KVK, Chikkamagaluru, explained about integrated pest and disease management of Coconut and improved production technologies in coconut. During this programme total 162 farmers participated and got benefit out of it

KVK, Chitradurga

Virtual Farmers Field School's Field Day ICM in Pomegranate

A Field Day on ICM in pomegranate was organised on 17-03-2022 at Doddaullarthi village of Challakere taluk, Chitradurga district.

Dr. O. Kumara, Senior Scientist and Head addressed the advantages of Farmers field School programmes organised by KVK. The programme consisted of 12 sessions starting from planting of pomegranate up to the harvest of the crop, technical information on various



aspects of pomegranate cultivation involving soil testing, nutrient management, pest and disease management, pruning techniques, growth hormones and Bio input usage were briefed through method demonstrations during the FFS sessions. Adoption of all these practices by farmers can minimise the cost of production and earn more profits.

This programme was inaugurated by lighting up the lamp by Mr. Virupakshappa, Senior Assistant Director of Horticulture, Challakere taluk. He delivered the inaugural speech and opined that the pomegranate growers in Chitradurga district are facing majorly pest and disease problems. The Farmers field school programme organised by Krishi Vigyan Kendra has provided very useful technical information through FFS one to one learning programme and it has helped the farmers to get acquainted with the identification



of pest and diseases and their management. Chitradurga district has been selected as Pomegranate cluster at National level and this programme will support the farmers by providing subsidy for pomegranate cultivation.

Dr. Prakash Kerure, Scientist (Horticulture), briefed about the technical information on Pomegranate and Oil palm cultivation. Dr. Rudramuni, Farm Manager, KVK discussed about the integrated pest and disease management in Pomegranate. Mrs. Geetha Kumari, B.N., Programme Assistant,

briefed about demonstrations carried out and Soil Health cards were also distributed during the programme.

World Water Day- 2022

World water day was celebrated on 22-3-2022 at ICAR - Krishi Vigyan Kendra, Babbur farm, Hiriyur. Dr. Kumara, O., Senior Scientist and Head, ICAR-Krishi Vigyan Kendra, Chitradurga has inaugurated the programme and addressed the importance of ground water conservation and water conservation practices in agriculture. He also opined that, out of 100 per cent only 2% per cent of fresh water is used for irrigation, drinking and domestic use, with this 8-10 percent water is from ground water. The main source is rain water to increasing ground water table level to be conserved for future generation. Hence, the farmers should adopt effective rain water harvesting and percolation water in their fields thereby water table level will be increased. Dr. Onkarappa S., Scientist (Plant protection) described the importance of water in agriculture, rain water harvesting structures and suggested the farmers to utilize the water effectively. Dr. Prakash Kerure, Scientist (Horticulture) explained about the flowering crops suitable for Chitradurga district and advised the farmers to grow need based flower crops to get higher yield and income. Dr. Parashuram Chandravanshi, Associate Professor (Soil Science), Dr. Ramesh, Assistant Professor (Biotechnology), College of Horticulture, Hiriyur, Smt. Geetha Kumari, Technical Assistant, KVK, Hiriyur and Shri G. Hanumantha Naik, Field Assistant, ZAHRS, Hiriyur were present in the programme.



KVK, Dakshina Kannada

Inauguration cum orientation of DAESI programme at KVK Mangaluru

An efficient extension system capable of timely dissemination of need based farm technology among farming communities is vital for achieving sustained growth in agriculture. Agri-Input Dealers are playing major role in reaching the farmers by performing dual role of providing agri-inputs as well as technological back up to the farming community. In this context, ICAR-KVK, Dakshina Kannada organized a inaugural programme in association with MANAGE Hyderabad, SAMETI (South), UAS Bengaluru and Department of Agriculture, Dakshina Kannada at KVK Mangaluru on 29.03.2022 to orient agri-input dealers about the DAESI guidelines. Dr.Kedarnath, Scientist and Coordinator (DAESI Batch V) welcomed all the guest and input dealers and briefed about the implementation of program and its impact on the trained input dealers. The Programme was inaugurated by Dr S M Shivaprakash, Former DE, KVAFSU, Bidar. Mrs. Sitha, JDA, Zilla Panchayat (DK) and Dr.Shivakumar M, Dean, College of Fisheries, Mangaluru participated in the programme as a chief guest. The programme was presided by Dr T J Ramesha, Senior Scientist and Head, ICAR-KVK (DK), Mangaluru and advised the participants to learn the latest technologies and suggested to transfer adoptable technologies to the farmers of their area. A total 40 agri-input dealers of the district participated in the programme.



Scientific Sheep and Goat farming

A Three days training programme was conducted on “Scientific Sheep and Goat farming” from 21.03.2022 to 23.03.2022 under the project entitled “Capacity Building of Farmers Through Training Programmes on Profitable Dairy Farming and Livestock Management” sponsored by Ministry of Fisheries, Animal Husbandry and Dairying, Department of Animal Husbandry and Dairying, Government of India New Delhi.

Dr.Shivakumar, R. Scientist (Animal Science), organized the training programme at Bettampady village, Puttur Taluk, Dakshina Kannada. Inauguration was done by Mr. Vinodkumar, Vice-president, Bettampady grama panchayath. Dr. T. J. Ramesha, Senior Scientist and Head in his presidential speech briefed about the importance of Scientific Sheep and Goat farming. Experts from the field of animal husbandry and agriculture were participated as resource persons and delivered lectures on various topics. A total of 47 farmers were benefitted by this training programme.



KVK, Davanagere

Celebration of World Water Day: “Ground water, making the invisible visible”

ICAR-Taralabalu Krishi Vigyan Kendra, Davanagere celebrated the “World Water Day” at Godabanahal, Chitradurga.

Mr. Raghuraj J. Subject Matter Specialist (Agriculture Extension) explained to farmers on the theme of World Water Day-2022 i.e. “Groundwater, making the invisible visible”. He was addressing the gathering, in agriculture available water is very less and day by day ground water level decreasing for various reasons. To overcome this farmers need to think on increasing the available water use efficiency. This can be achieved by use of proper irrigation methods, recharge of bore wells and need based irrigation for crops based



on the soil type and stage of the crops. Further, he also stated “Save water, it will save you and future generation. 40 farmers were participated in the program.

On Campus training program on Natural Farming

ICAR- Taralabalu Krishi Vigyan Kendra, Davanagere conducted the natural farming training program for the farmers of Hirekogalur, Belliganudu, Kakanuru, Mallapura and Siddanamatta of the Channagiri taluk. Dr. Devaraja T.N., Senior Scientist and Head, in preamble remark expressed that

natural farming is the need of the hour and farmers should involve in the natural farming for the good benefits. It is not the new practice and it an age old practice where the farmers found it as beneficial.

Mr. Mallikarjuna B.O., SMS(Agronomy) delivered lecture on the Importance of Natural farming and ill effects of the Inorganic farming on the life of the people and soil health. In the natural farming neither we add chemical fertilizer or organic fertilizer to the soil.

Mr. Shivakumar, Progressive farmer expressed that our ancestors are practicing this



method of cultivation and now in the dry land horticulture crops we are following the natural farming where we do not cultivate the land for many years. Mr. Basavanagowda M.G., SMS (Horticulture) also attended the program. More than 60 farmers participated in the program

KVK, Dharwad

His Excellency, Governor of Karnataka visit to ICAR-KVK, Dharwad

Governor of Karnataka and Chancellor of



University of Agricultural Sciences, Dharwad Shri. Thawar Chand Gehlot visited ICAR-Krishi Vigyan Kendra, Dharwad on 26.03.2022. He interacted with the staff of KVK and discussed about the technologies disseminated from the centre. Discussed about mulching technology in demonstration plots, usefulness of hatchery unit and functioning of Soil and Water Testing Laboratory. Trainees of Scientific Beekeeping had an opportunity to interact with the Governor. His Excellency discussed about the present scenario of apiculture and trainees experience in Beekeeping activity. Dr. M. B. Chetti, Hon'ble Vice Chancellor, UAS, Dharwad, other officers of the University and district level officers were present during the visit.

Sponsored/ vocational training on "Scientific Beekeeping"

Beekeeping is emerging as a very successful agricultural practice for local people in rural areas. The practice of beekeeping have intrinsic health benefits through providing a food source of great nutritional value which is lacking in rural areas. In this context, the Sponsored/



vocational training on "Scientific Beekeeping" sponsored by National Bee Board, Delhi was organized by ICAR-KVK, Dharwad from 22-28 March, 2022 at ICAR-KVK, Dharwad to motivate the rural youth for taking beekeeping

as profession and hobby. Various topics of beekeeping like history of beekeeping, different species of honeybees, life cycle, role in pollination of agriculture and horticulture crops to enhance the yield, collection, processing and value addition, management of natural enemies of honey bees, bee keeping as a subsidiary enterprise etc., were covered during the programme. Exposure visit was arranged to Bio-diversity park of UAS, Dharwad also visited successive beekeeper Mr. Veeresh Dharwad's field at Honnapur village of Dharwad taluka to provide first hand experience. The bee keepers were also invited to share their experiences with the participants. Smt. Kalavathi K. Kambali, Scientist (Plant Protection) and Dr.Punitha B.C., Scientist (Soil Science) of ICAR-KVK, Dharwad co-ordinated the programme. About 25 trainees from various districts of Karnataka participated in the training.

Animal Health Camp at DFI adopted Shirur village

ICAR-Krishi Vigyan Kendra, Dharwad in association with ICAR-IIPR, RRS, Dharwad and Department of Animal Husbandry and



Veterinary Services, Dharwad conducted Animal Health Camp at ICAR-KVK, Dharwad adopted DFI village Shirur on 25.03.2022. During the programme, Dr. M. H. Kodandaram, Principal Scientist and In-charge



Head, ICAR-IIPR, RRS, Dharwad addressed the farmers about importance of livestock in integrated farming system and the their health management to improve the production. Dr. Jayashree Pattar, Scientist (Animal Science), ICAR-KVK, Dharwad explained about leguminous and non-leguminous fodders for animal reproduction and health, also explained about the detrimental effects and protective measures to control the spread of zoonotic disease. Dr. Kiran, Veterinary Officer from Veterinary Dispensary, Shirur and Dr. Tippanna, Veterinary Officer from Veterinary Dispensary, Amminabhavi participated and treated the animals for repeat breeding, anestrus, mastitis, lameness, diarrhea, lumpy skin disease, respiratory tract infection and other digestive disorders. More than 45 farmers/ farm women were participated in the animal health camp and total 85 animals were treated.

KVK, Gadag

Training On Scientific Dairy Management

Ten days duration training programme on Scientific Dairy Farming organised by KVK in collaboration with SBI-ASF-RSETI, Hulkoti from 7th to 16th March, 2022. Various topics related to suitable breeds of cattle for rearing, shed construction, nutrition and disease management, project report preparation and insurance were covered. Exposure visits to entrepreneurial dairy farmers were also organised. A total of 16 youths belonging to BPL families participated in the training.



SUPER NAPIER : High yielding perennial fodder crop

KVK, Gadag promoted high yielding perennial fodder crops through Front Line Demonstration since 3 years. This fodder crop is found to be superior, yielding 450-500 tons/hectare/annum under demonstration. The fodder is very much suitable for making silage and use as dry fodder. Dairy farmers are of the opinion that intake by the livestock is high owing to its palatability compared to other fodder crop species. Root slips and stems are available for sale with dairy farmers nurtured under FLD and ASCI Programme and interested one are requested to contact ICAR-K.H.Patil Krishi Vigyan Kendra, Hulkoti for facilitation.

Training To Shg Federation Members

ICAR-KVK, Gadag in collaboration with Shri Shivachidambara Education and Rural



Development Society, Shirol and Zilla Panchayat, Gadag organised 5 days duration training programme from 21-03-2022 to 25-03-2022. The programme was organised to SHG Federation Members under NRLM Project on solid waste management, vermicomposting, health, nutrition, cleanliness, personal hygiene etc. Dr. Sudha V. Mankani, SMS (Home Science) trained the participants on importance of balanced diet, food and nutrition & personal hygiene. Thirty SHG Members participated in the programme.

KVK, Kalaburgi-I

Awareness and Training Programme on Immunity boost food products production technologies for control of effects of corona virus

University of Agricultural Sciences, Raichur, College of Agricultural Engineering, Raichur, RKVY and ICAR-Krishi Vigyan Kendra, Kalaburagi-I jointly organized one day training programme on “Awareness and training programme on Immunity boost food products production technologies for control of effects of corona virus” on 18.03.2022.

In the programme Dr. Suresh S. Patil, Dean, College Of Agriculture, Kalaburgi, inaugurated the workshop by watering to the plant and his inaugural speech he expressed that role of women in agriculture and making of healthy food to their family and everyone should encourage to have healthy and nutritional food also emphasised on corona virus and its impact on human health and call on to the participants to overcome the low immunity problem should add healthy foods in your diet especially womens and childrens.

The programme was presided by Dr. M. M. Dhanoji, ADR, ZARS, shared the details on the importance of balanced food and nutrition to overcome the malnutrition problem should use millets in diet especially in rural areas. Dr. Vasudev Naik, Horticulture Scientist explained the need to take the healthy and nutrition food to improve the health by using different leafy vegetables and fruits.

Smt. Dr. Bhavani Professor and Head department of Home Science, College of Agriculture, Kalaburagi who delivered a lecture on role of millets of good health and shared the details on the importance of food nutrition to overcome the malnutrition problem in womens and childrens and to build up the immunity. Dr. P. F Mathad, Assistant Professor, Department of Food Processing and

Technology, College Of Engineering, Raichur, gave a lecture on millets processing and storage and Dr.Yusuf Ali Nimbaragi, Scientist (Agronomy), ICAR-Krishi Vigyan Kendra, Kalaburagi on different production technologies of millets. KVK staffs and 60 participants were attended the programme and received the health kits.



Workshop on Climate Change and impacts on Environment

Two days' workshop on 'Climate change and its impact on environment' was organised by NABARD with collaboration of Zilla Panchayat Kalaburagi on March 15th and 16th, 2022 to the FPOs of Kalaburagi district.



In this occasion Sri. Ramesh Bhat, District Deputy Manager, NABARD, Kalaburagi, inaugurated the workshop by lightning the lamp and emphasised on climate change and



its impact on environment, future days it will create a big problem to the environment also advised to the FPO members to create awareness on climate change and its adverse effects on the nature to the publics. Dr. Zaheer Ahamed, Scientist (Pathology), ICAR-KVK, Kalaburagi-I delivered lecture on due climate change crops are prone to significant losses in yield due to pest and disease incidence during various stages of the crops. Dr. Manjunath Patil, Scientist (Animal Science), ICAR-KVK, Kalaburagi-I explained about the climate change effects on animals especially cows and buffalo's. The NABARD officials, FPOs representatives, members and around 45 farmers of the district were participated in the programme.

been covered. Again Dr. Basavaraj, Scientist (Agril. Entomology) ICAR-KVK, Kalaburgi-II delivered a lecture on integrated pest and disease management in Bt-Cotton. Simultaneously also interacted with farmers, farmwomen and input dealers of Jewargi taluka about the recent burning problems in Bt-Cotton and to overcome them in feature season 2023. Finally Smt. Shruthi N. Prog. Asst (Lab Tech) given valuable suggestion on importance of soil sample analysis to know the fertility status of the soil and to recommend and adopt the fertilizer application in Bt-Cotton. About 56 farmers, farm women and Input dealers were witnessed the Cotton seminar.

KVK, Kalaburgi-II

Crop seminar on Cotton organized at ICAR-KVK, Kalaburgi-II (Raddewadgi) on 17-03-2022



ICAR-KVK, Kalaburagi-II (Raddewadgi) in collaboration with Rastriya Chemicals and fertilizers Pvt Ltd regional office Kalaburagi organized crop seminar on Bt-cotton dated 17.03.2022 at ICAR-KVK, Kalaburagi-II (Raddewadgi). During the crop seminar Dr. Pandit Rathod, Sr. Scientist (Agronomy) ZARS, Kalaburagi gave a lecture on improved cultivation aspects in Bt-cotton crop via., Sowing, inter cultivation, weed management, irrigation schedule, Fertilizer management, Fertigation, Fertigation schedule, Leaf reddening and clean cotton harvesting for higher market prices and productivity have

KVK, Kodagu

Climate change sensitisation workshop in collaboration with NABARD organised at KVK Kodagu

ICAR-KVK Kodagu in collaboration with NABARD conducted a one-day training program on "Climate change and its mitigation and adaptation strategies in Kodagu" on 18th march 2022 at KVK campus. Forty-two farmers attended the workshop. The whole programme was sponsored by NABARD. Dr. Saju George welcomed the guests and farmers to the programme and talked about the



importance of climate change in the context of Kodagu. Captain Ranan Najappa, a progressive farmer from Gonikoppal spoke about how climate change is affecting farmers based on his experience. The untimely rainfall has forced many farmers to invest on ponds for harvesting water. So, during recent years only the farmers having their own irrigation facilities are getting good harvest of coffee and pepper.

Officials from Coffee board, veterinary department, agriculture department, IISR regional centre, Appangala and NGOs were present. It was followed by technical session was handled by Dr. Harish M N, SMS(Agrometeorology) on climate change emphasising mainly on weather abnormalities and its adaptation and mitigation strategies in Kodagu district. Later Dr. George Daniel, DDR Coffee Research Sub-station, Chettalli delivered a talk on coffee physiology and its adaptation to changing climate. Finally, Dr. Anke Gowda, Principal Scientist & Head IISR-RS, Appangala spoke about black pepper and cardamom cultivation vis-a-vis to changing climate. The program concluded with a positive remark from Mr. Ramesh Babu (DDM, NABARD). At the end of workshop, the participants received participation certificate and a fruit sapling of rose apple.



KVK, Kolar



Orientation cum capacity development programme for newly recruited AHOs of the department of Horticulture, Kolar district

KVK, Kolar has organized an Orientation cum capacity development programme for newly recruited AHOs of the department of Horticulture, Kolar district on 22.3.2022. The Senior Scientist & Head has welcomed the ten newly recruited AHOs & gave information on the horticulture scenario of the district & also

about various activities carried out by the KVK



for the benefit of farming community. Scientist (Horticulture) has delivered lecture on improved production technologies in major horticultural crops with special emphasize on protected cultivation. Scientist(Plant Protection) explained about Integrated management of major pest & diseases in various horticultural crops grown in the district. Similarly, information on ODOP project, scope & prospects of small & medium processing units in the district and successful entrepreneurs supported by KVK, Kolar was given by Scientist (Home Science) while SMS (Agromet) gave information on importance of weather forecasting in agriculture & weather based mobile applications and also functioning of DAMU in KVK.

Off campus capacity development programme

ICAR-KVK, Kolar has organized an off campus capacity development programme in



collaboration with Criyagenagri and biotech Private limited at Reshme Belagara Sangha at Vakkaleri, Kolar on 28.03.2022. Scientist (Horticulture) gave information on points to be considered during summer tomato production technologies. Scientist (Plant Protection) served as resource person and delivered lecture on integrated pest and disease management in tomato. Around 70 farmers had benefitted from the programme.

Jal Shakthi Abhiyana 2022

KVK, Kolar has organized an Awareness programme on Jal Shakthi Abhiyana at KVK, Kolar on 29.03.2022. Scientist (Soil Science) delivered lecture on soil & water conservation techniques in agriculture. Scientist (Horticulture) gave information on importance



of water conservation in horticulture crops. Scientist (Sericulture) delivered lecture on importance of water conservation in sericulture crops. Senior Scientist & Head in his presidential remarks highlighted the Importance of water conservation & reuse of rain water. Progressive farmer, state level Krishi Pandit Awardee farmer highlighted the dry land horticulture by using rain water. Scientist(Plant Protection) in her introductory speech briefed about celebration of water day and themes for each year. Around 50 farmers had benefitted from the programme.



KVK, Mysuru



Hi-Tech Horticulture training programme for Agriculture Bank Officers

IIHR, Bengaluru and ICAR JSS KVK, Suttur has organized One day training programme on Hi-Tech Horticulture for NABARD bank agriculture officers on 25.03.2022 at ICAR JSS KVK, Suttur, Mysuru. Dr.Santhil Kumar, Principal Scientist, IIHR, Bengaluru and Sri. J.G. Rajanna, Programme Assistant, ICAR JSS KVK, Suttur, were participated as resource persons.



Soil Health Camp for tribals at H.D. Kote

Swami Vivekananda Youth Movement (SVYM), H.D Kote and JSSKVK Suttur oragnized one day soil awarness camp for tribals at Kanchamalli village, H.D. Kote taluk. During the programme Sri. J.G. Rajanna, Programme Assistant (Soil Science) participated as a resource person and conducted method demonstration on soil sample collection. During the programme 50 soil samples have been colleted for testing at free of cost from JSSKVK, Suttur.



Participation at Agriculture Machineries Mela



Agriculture machineries mela was held on 30.03.2022 at V.C. Farm, Mandya, organized by UAS, Bengaluru and IIHR, Bengaluru. KVK scientists were participated in the event and gather the information about newly designed and developed agriculture machineries with the main focus on drones & other equipments suitable for agriculture and horticulture crops.



KVK, Raichur



Field Day on Paddy Follow Mustard crop

A field day on integrated crop management of mustard grown on paddy follow was conducted by ICAR-KVK, Raichur on 7th March 2022 at Srinivas’s field of Sriramnagar camp, Raichur taluka. Dr. S. N. Bhat, Scientist (Soil Science) welcomed all the farmers gathered for the field day and made a introductory speech highlighting importance of oilseed crop in the present scenario. He added that India has been importing 70 per cent of edible oil requirement which amounts



to about Rs. 65,000 crores. During his speech

Dr. Bhat suggested the farmers to adopt IPNS and IPM approach to obtain sustained yield of mustard crop and to reduce cost production.

Traditionally, farmers are following paddy-paddy cropping system. Intailend area, ample quantity of water is not available for the second crop of Paddy. To save the water and



enhance oil seed production, KVK Raichur introduced mustard on paddy follows utilising residual soil moisture and nutrients. Farmer Shri. Srinivas of Sriramnagar camp shared his experience on mustard cultivation. About 30 farmers participated in the field day programme.



KVK, Shivamogga



Technical Seminar for Veterinary Doctors on “Management of Current Diseases in Live stock”

ICAR-Krishi Vigyan Kendra, Shivamogga conducted one day technical seminar on “Management of Current Diseases in Livestock” for Shivamogga district Veterinary Doctors in coordination with department of Animal Husbandry & Veterinary Services, Shivamogga on 11.03.2022 Dr. Ashok, M., Scientist (Animal Science), KVK, Shivamogga has given the primacy address about the programme. Dr. Shivayogiyali, Deputy Director of Animal Husbandry & Veterinary Services department, Shivanogga has invited the dignitaries. Dr. Selvamani, R. District



Commissioner, Shivamogga inaugurated the programme and in his inaugural address mentioned the purpose and importance of knowing Current Diseases in Livestock and there management helps agriculture for future generations and advised to conduct seminars and workshops frequently which will benefits extension workers and farmers. In his remarks he stressed the participants to know about the importance of disease diagnosis in livestock. Hon'ble Vice chancellor of the KSNUAHS, Shivamogga Dr. M. K. Naik presided over the programme and given information on importance of livestock in Indian economy and Indian livestock population influence on world livestock economy and urge participants to adopt new scientific technologies in animal husbandry for better diagnosis and cure of diseases. In the programme Dr. R. C. Jagadish, Dean (Agri.) and Campus Head, College of Agriculture, Shivamogga, Dr. S. U. Patil, Associate Director of Extension, KSNUAHS, Shivamogga and Dr.



Hanumanthaswamy, B.C., Senior Scientist & Head, KVK, Shivamogga were participated as Guests. Dr. Ashok, M., Scientist (Animal Science), KVK, Shivamogga has given talk on current issues in livestock management and production, Dr. Nikith, M. S., Veterinary Doctor, Department of Animal Husbandry & Veterinary Services, Mysuru participated as resource person and delivered the lecture on "Therapeutic management of hoof disorders in cattle" with aims to raise awareness on

importance of maintaining healthy livestock. Dr. S. P. Manjunatha, Senior Veterinary Doctor, Department of Animal Husbandry & Veterinary Services, Tumkuru, also participated as a resource person and delivered the lecture on "Diagnosis and management of GIT problems in ruminants" with aims to raise awareness on importance of Diagnosis and management of problems of GIT in ruminants. During the programme, Veterinary Doctors – Resource Persons interaction was held. Totally, 90 Veterinary Doctors were participated in the programme. All the scientists and staffs of KVK were also present in the programme.



KVK, Ramanagar



STRY Training on "Goat rearing and management"

ICAR-Krishi Vigyan Kendra Ramanagara has organised 6 days Skill training for rural youth (STRY) on "Goat rearing and management" from 21st to 26th of March 2022 at KVK Ramanagara in collaboration with National Institute of Agricultural Extension Management (MANAGE), Hyderabad for selected 15 rural youths. During the Programme, participants were trained on introduction to goat rearing, important goat breeds, management practices; different types of shed construction; information management and project report preparation; feed and fodder resources for livestock management; nutrition management in goats;



demonstration of creep and grower feed



formulation; growing of suitable fodder crops and cultivation practices; demonstration on silage preparation; major pest and diseases in goats and their management practices; various schemes under National Livestock Mission (NLM) for Goat rearing; information about breeding stock maintenance and breed upgradation in Goats and policies to improve Goat breeds, and interaction with progressive farmers regarding Goat rearing practices. Also, as part of training an exposure visit was organised to progressive goat rearing unit at Aaralakuppe, Magadi taluk. Scientists from NIANP Adugodi, officials from Department of Animal Husbandry Veterinary Services, UAS(B) scientists and bank officials served as resource persons. Dr. Dinesh, M. S., Scientist (Agronomy), has taken lead to organize the training Programme.

KVK Hirehalli, Tumakuru II

Plantation Crops SCSP programme and activities of KVK in the Tumakuru District

Off campus training programme on Plantation Crops was conducted on 23rd March, 2022 at Badavanahalli, Dodderi Hobli Madhugiri Taluk by Krishi Vigyan Kendra, Hirehalli, Tumakuru. The training programme was organized in collaboration with BESST-HORT, ICAR-Indian Institute of Horticultural Research, Bengaluru under Scheduled Caste Sub Plan:2021-22. In the inaugural session,



Dr. Loganandhan .N., Principal Scientist and Head, explained about the SCSP programme and activities of KVK in the district. Shri. Prasanth J.M., SMS-Horticulture delivered lecture on Plantation crops production in detail. Dr.B.H.Gowda, SMS –Plant protection, gave a lecture on pests and diseases and their management in plantation crops. This training programme was attended by 50 SC farmers and farmwomen from Badavanahalli, Rangapura, Nagenahalli of Madugiri taluk of Tumakuru district.

ICAR-KVK, Hirehalli, Tumakuru bagged First Prize in 3rd National Water Award for their NICRA Project

The NICRA Village of Tumakuru District, D. Nagenahalli (Yelerampura Gram Panchayat) being implemented by the ICAR - Krishi Vigyan Kendra, Hirehalli, Tumakuru, Karnataka was best owed with the 1st Prize in the “3rd National Water Awards-2020” on 29th March, 2022 in New Delhi



Dr. N. Loganandhan, Principal Scientist & Head, ICAR-KVK, Hirehalli received the Award from the Honourable President of India, Shri Ram Nath Kovind ji, in the third National Water Awards and Launch of Jal Shakti Abhiyan: Catch the Rain Campaign 2022 in New Delhi. Shri. P.R.Ramesh NICRA Nodal Officer, President and PDO of Yeleramapura Gram Panchayat also

accompanied him during the award function.

The President said that in order to make water everyone's business and to make the Jal Andolan a Jan Andolan - a mass movement, the Government of India in 2019 launched the 'Jal Shakti Abhiyan'. And in the same year 'Jal Jeevan Mission' was also launched. Last year on 22nd March, on 'World Water Day', the 'Jal Shakti Abhiyan: Catch the Rain' campaign was launched by the Prime Minister which was taken up in all districts in rural as well as urban areas of the country during the pre-monsoon and monsoon period. He appreciated state governments for their commendable contribution in the success of this campaign amidst the challenges of the corona pandemic. Noting the exemplary work done by the National Water Award-winners for water management in their respective fields, the President said that on the basis of such examples, we could find hope for a water-secure future.

The Yeleramapura Gram Panchayat, Tumakuru District, Karnataka was felicitated with the Award by the Ministry of Jal Shakti, Government of India while recognizing the commendable efforts in the area of water conservation and management in the category of the "Best Village Panchayat - South Zone".

Dr. B.N. Srinivasa Murthy, Director, ICAR-IIHR, Bengaluru and Dr.V. Venkata subramanian, Director, ICAR-ATARI, Zone XI, Bengaluru congratulated the Team KVK Hirehalli, Tumakuru and urged them to continue being exemplars and source of motivation. They expressed confidence that these Awards would usher in a water consciousness in the minds of people of India and would help in bringing about a behavioural change.

KVK, Udupi

World Water Day

Keladi Shivappa Nayaka University of Agricultural and Horticultural Science, Shivamogga, Indian Council of Agricultural Research, New Delhi, ICAR-Krishi Vigyan Kendra, Brahmavarhas organized World Water Day on 21.03.2022 at Krishi Vigyan Kendra, Brahmavar Udupi dist.

Dr. Lakshmana, Associate Director of Research, ZAHRS, Brahmavar has inaugurated the programme. In his inaugural speech he spoke about importance of water, its uses in homestead, Industry and also in agriculture. He also encouraged the gatherings to save the water to save the earth.

Dr. Dhananjaya B, Senior Scientist and Head, ICAR-Krishi Vigyan Kendra, Brahmavar presided over the function and in his presidential speech he highlighted the importance of water in Agriculture different



irrigation system and its application. Also he opined that, wasting of water may leads depletion of water resources in the earth.

Dr. Sudhir Kamath, Principal, Agriculture Diploma College, Brahmavar, Dr. Jayaprakash S M, Associate Professor (Soil Science), ZAHRS Brahmavar were chief guests of the programme. Dr. Jayaprakash R, Scientist (Soil Science), coordinated the programme.



KVK, Uttara Kannada**ICAR-KVK, Uttara Kannada, Sirsi celebrated WORLD FOREST DAY 2022**

ICAR-KVK, Uttara Kannada, Sirsi celebrated World Forest Day by planting of Lakshman phal and Jjamun seedlings at Nutri-garden of KVK on 21st March, 2022 with the theme of Forests and Sustainable Production and Consumption. The planting programme was inaugurated by Dr. A.G. Koppad, Dean (For), College of Forestry Sirsi and Scientists, Technical staff of KVK were also participated in the planting programme

Diseases of Livestock, Diagnosis, Management and Control

Three days training programme was organized at Jambekoppa by ICAR-Krishi Vigyan Kendra, Uttara Kannada, Sirsi on Diseases of Livestock Diagnosis Management and Control under "Capacity building of farmers through training programmes on profitable dairy farming and livestock management". Total 56 Participants were attended and benefited from the training programme. The training programme was inaugurated by Shri. Shankar Hegde, Director, KMF, Sirsi. Dr. Govind Bhat, Rtd. DD, Veterinary Polyclinic, Yellapur and Dr. Rakesh, Assistant Manager., KMF, Sirsi delivered a lecture on common diseases of sheep and goats, disease management in livestock and its prevention. Cultural diseases and their remedies. Diagnosis and control measures of livestock diseases.

**KVK, Vijayapur-I****Integrated farming for sustainable livelihood security**

Smt. Dondubai Hunnu Chavan is a resident of Arkeri village. She is 38 years old with three children. She has completed her 5th standard of education. She does majority of agricultural activities in her field and her husband is involved in marketing activities. Earlier she was growing only cereal crops and facing losses when there were no rains. She was one of the members in an NGO and attended collaborative trainings conducted by Krishi Vigyan Kendra, Vijayapur wherein she got information on integrated farming system. By taking the technical guidance and also inputs under front line demonstrations provided by KVK scientists she started diversification in her farming system. The farming situation is rainfed and irrigated. The composition of the IFS model is Crop + livestock + horticulture + vegetables + Fish culture. The area possessed is 3.5 acres. She is growing agriculture crops such as maize and pigeonpea. Horticulture crops such as guava, fig, curry leaf, drumstick, papaya, coconut, sapota and custard apple. She also possesses live stock component such as cow, buffalo, goat, poultry, duck and turkey hens. She is also rearing fish in farm pond. There is a borewell and a big farm pond in the farm. She started different components such as dairy, poultry, goatry, fisheries, sericulture, horticulture along with annual crops. Under dairy component she has murrah and Gir breeds. Under goatry component, she has shirohi and osmanabadi breeds. Under poultry she has 70 birds of local and swarandhara breeds which were given under front line demonstrations. She has adopted fish rearing in farm pond. This component too was given under fish culture in farm ponds by KVK Vijayapur. Under horticulture component she has grown guava, fig, papaya, coconut, curry leaf, drumstick and vegetables which were



given to her by KVK under Integrated farming system and nutrigarden projects. She is very



inquisitive and tries to adopt the new technologies seen during her exposure visits. The farm women used to get annual income of Rs. 53800 from Maize, goat, Poultry, etc. She faced problems like less income. With interventions like diversification of components and Integrated farming system, she is getting annual income of Rs. 364200. She has received the District level Best Women farmer award conferred by University of Agricultural Sciences, Dharwad. She has become the role model to other farm women of her community.

KVK, VIJAYAPURA-II (Indi)

World Water day : Celebrated World Water



day on 22.03.2022 at ICAR Krishi Vigyan Kendra, Vijayapura-II (Indi). Dr. Savita B, Scientist (Soil Science) told about the importance of World Water day: Groundnut making Invisible the visible and also organised on-campus training programme on management of saline water in agriculture. In

this programme around 25 farmers were participated.

Field day on Groundnut : A field day on Groundnut variety G2-52 was conducted by



ICAR-KVK Indi on 23.03.2022 in the field of Shri Prakash Nimbal, Bairunagi village, Indi taluka. Dr. Savita B, Scientist (Soil Science) gave information on role of gypsum application in Groundnut at 45 days after sowing and G2-52 varietal characteristics. Demonstration taken farmers of Bairunagi village were given positive response on G2-52 variety as it matures one week earlier than local groundnut variety during this programme. Mrs. Heena M.S, Scientist (Horticulture) and around 40 farmers were participated in the field day programme.

KVK, Yadgir

Training Programme on "Immunity Boosting Food for combating COVID-19" under RKVY in collaboration with Dept of Agricultural Processing & Food Engg, CAE, Raichur organized by ICAR-KVK Yadgir

ICAR-Krishi Vigyan Kendra, Yadgir has organized training programme on "Immunity Boosting Food for combating COVID-19" under RKVY in collaboration with Dept of Agricultural Processing & Food Engg, CAE, Raichur" at ICAR- KVK Yadgir. Dr.Amaresh Y. S., Senior Scientist & Head shared the benefits of daily habits eating food in our diet which can prevent the effects of bad health from





Covid- 19. Dr. Umesh Barikara, Scientist [SWE] delivered lecture on nutrient fruits and vegetables that everyone should eat healthy foods to avoid harmful viruses. Mr. Santosh Programme Coordinator of Sri. Dharmastala Manjunath NGO’s Agency, Shorapur delivered lecture on people with all kinds should eat healthy foods on their daily diets to be free from any diseases. In this training programme around 50 women’s of self help group women’s were participated and the kit was distributed to them. Scientist of ICAR-KVK, Yadgir Mr. Satishkumar Kale, Dr.Kotresh Prasad, Mr. Guruprasad. H, Smt. Shreedevi Technical Officer (Computer) and other KVK, Staffs were participated in the training programme.

21st to 24th March including exposure visit to a processing unit. They were trained on the preparation of more than 25 products from Jackfruit through hands-on-training. A business plan also was prepared for their situation including details of jackfruit processing machineries. Another group of 22



tribal women along with 5 officials as a part of the Jackfruit mission of Odisha State visited KVK on 21st March, 22 for an orientation on the prospects of value addition of Jackfruit. The tribal women group was sponsored by RRDO (NGO) Thakkumunda, Mayurbhanj. Both the programmes were supported by NABARD.

Skill Training for Rural Youth conducted

Skill training for 13 rural youth on “Mushroom production and organic farming” was conducted for seven days from 22nd to



29th March, 2022. The participants for the programme were selected from different parts of the district by the sponsoring agency, ATMA-Alappuzha. The trainees underwent

KERALA

KVK, Alappuzha

Capacity building programme conducted for tribal groups from Odisha

Two groups of tribal farmers from Odisha visited the KVK during the period for capacity building on “Value addition of Jackfruit”. One group of 16 persons including officials of ITDA, Volunteers of the Good Samaritans NGO and tribal farmers attended the on campus training programme for four days from



hands-on-training on mushroom and spawn production technologies, recycling of the spent waste for organic manure production, conversion of other organic residues to manure using EM solution, organic farming practices for vegetables, and value added products from mushroom and vegetables during the period. In addition they were exposed to the real field situation by visiting the mushroom entrepreneurs' units supported by the KVK.

KVK, Ernakulam

Capacity building programme on Livestock manure conducted

The KVK-Ernakulam conducted three days capacity building programme Livestock



manure and usage in organic farming during March 15-17, 2022 at Pallari mangalam, Ernakulam under the project Capacity Building of farmers through training programmes on Profitable dairy farming and Livestock management sponsored by Ministry of Fisheries, Animal Husbandry and Dairying, Government of India. The programme was inaugurated by Pallarimangalam Grama panchayat President Smt. Khadeeja Mohammed and presided over by Vice president Shri. O E Abbas. The KVK Subject Matter Specialists Shri. F. PushparajAnjelo and

Shri. Shojijoy Edison led the sessions. Method demonstrations were also part of the programme. 64 farmers participated.

KVK participated in Kothamangalam Block Kissan mela

KVK participated in the block level Kissan mela conducted at Kothamangalam Mar Athanasious College indoor stadium on 22nd March, 2022. Shri Shoji Joy Edison, Subject



Matter Specialist (Horticulture) conducted an interactive session on Recent trends in vegetable cultivation and plant protection. KVK's partner farmer and Scientific advisory committee member Shri Davis C.A received Haritha mithra award for the best organic vegetable farmer in the district. Farmers and Self Help Group (SHG) members from various parts of the district participated.

Assessment of participants of Small holder poultry conducted

The KVK associated in the assessment of candidates of Small holder poultry training conducted by Jan Shikshan Sansthan sponsored by Ministry of Skill development and Entrepreneurship, Govt. of India held at Kunnamavu and Narakkal respectively on 22nd March 2022 and 23rd March 2022. Forty candidates trained in backyard poultry rearing were assessed for their theoretical and practical knowledge acquired during the training. Dr. K Smita Sivadasan, Subject Matter Specialist (Animal husbandry) was the expert.

KVK, Idukki

Diploma in Agriculture extension service for input dealers (DAESI) Certificates to Agri-Input Dealers of Idukki District

Valedictory programme and certificates distribution to two batches of Diploma in Agriculture extension service for input dealers (DAESI), MANAGE was conducted at ICAR, KVK, Idukki. The course was conducted in association with ATMA, Idukki and SAMETI, Trivandrum for two batches viz., Nedumkandam and Kattappana. Each Batches comprised of 40 students. The course comprised of 80 theory classes and 8 field visits for two batches. The sessions were designed in such a way in order to make them a well-equipped para extension professional. The field visits helped them to identify nutrient deficiencies, pest and disease symptoms at field level. The 11-month course concluded with the theory examination and practical. The valedictory function of the programme was inaugurated by Sri. Jiji K. Philip, Idukki Jilla Panchayat president. The function was presided over by Sr. T J Shine, Santhanpara



Grama Panchayat president. Certificates issued from MANAGE, Hyderabad with memento was distributed to candidates by Sri. Jiji K. Philip, Idukki Jilla Panchayat president. Rank holders, DAESI students, DAESI Course teachers, team leaders were honored during the event. Smt. Usha kumara Mohankumar, Idukki Jilla panchayat Vice President, Smt. Elizabeth Pannoos, PAO Idukki, Smt. Ancy Thomas, PD ATMA, Idukki, Smt. Susan

Benjamin, DD(E&T), Idukki, Sri. C D. Sreekumar, President IDAIDA, Idukki, Sri Sajeevan P. B, Facilitator, Nedumkandam Batch, Sri John P A., Facilitator Kattappana Batch, Sri K V Antony, Nedumkandam Batch leader. Words of gratitude was delivered by Sri Antony P S Kattappana batch leader. Input dealers of Idukki district were made pride in the moment with the coordination of Dr. R Marimuthu, Senior Scientist and Head and other ICAR-KVK officials.

KVK Kannur

NABARD supported FPO's conclave and innovative project launching

Conclave of FPOs supported by NABARD from Kannur and Kasaragod districts and launching of innovative project supported by NABARD was conducted on 20th March 2022 at SATCOS Auditorium Mayyil. Conclave was inaugurated by Sri. S. S. Nagesh, Chief, Agriculture Division, Kerala State Planning



Board. Flag off of Mobile rural mart of Mayyil Rice Producers Company and launching of AI powered Farmer's Assist mobile application developed by Deep Flow Technologies Pvt. Ltd, an agristartup supported by KVK Kannur and PRS Panniyur was done by Dr. G. R. Chintala, Chairman, NABARD. Sri. P. Balachandran, CGM, NABARD, Smt. Susheela Chintala, MD, NABKISAN, Sri. R. Sankar



Narayan, GM, NABARD, Sri. V. K. Rohilla, DGM, NABARD, Sri. Jishimon, DDM, NABARD, Kannur, Smt. Divya K. B., DDM NABARD, Kasaragod, Dr. Yamini Verma, Associate Professor (Plant Pathology), PRS, Panniyur. Board of Directors of FPOs were attended the function organized by KVK Kannur and Mayyil Rice Producers Company. Felicitation was given to Sri. Anil Odessa, for National Award for Malayalam documentary on Mayyil FPO 'Nenmakam'. Technical sessions on good governance for FPOs, Forthcoming business models for FPOs were handled by Sri. V. N. Babu, Senior faculty, ICM, Kannur and Dr. P. Jayaraj, Programme Coordinator, KVK Kannur.

Training for fertilizer dealers



KVK Kannur has organized three day practical training programme for fertilizer dealers as part of certificate course on integrated nutrient management for fertilizer dealers. Sessions on integrated nutrient and soil health management, assessment of soil fertility status, collection and analysis of soil samples, collection and processing of fertilizers and manures, bioinputs in agriculture, fertilizer sampling and licencing were handled by subject matter specialists of KVK. Certificates were distributed for participants.

KVK, Kasaragod

Among the many innovative areas in Agriculture explored for value addition, Dehydrated fruits and vegetables has now captured market and gained importance. Considering the potential of dehydrated products and its marketability demonstrations on "Scientific Dehydration of Fruits and Vegetables" was conducted with a aim to bring a change in the traditional practices and to diversify the Agricultural products to achieve self- sufficiency. To overcome the energy intensive process in dehydration, fuel efficient options using Bio Fuel dryer for dehydration of locally available fruits and vegetables was introduced with the objective to exploit the remote area labour force. Entrepreneurs and women SHG's were imparted skill training for one week duration on scientific dehydration techniques from Jackfruit, Mango, Banana,



Amla, Tapioca, Sweetpotato, Arrowroot, Moringa, Curry leaves, Chilli, Garlic, Tomoto, Bhenidi, Bittergourd for production of dehydrated vegetables, green leaf powders, Pappads from Jackfruit, tapioca, Sweetpotato, Banana, Dehydrated powder from raw mango, Amla, Garlic, Onion, Sprouted ragi, Banana, Arrowroot, Jackfruit seed etc. These dehydrated products demonstrated has a potential to be marketed locally and across the state with a potential to build up economic strength of rural population.

KVK, Kollam

Agromet Advisory Bulletins- A Guide to Farmers Financial Security

District Agromet Unit (DAMU) has been functioning at KVK, Kollam since 2018. One of their major activities of preparing and disseminating the Agromet Advisory Bulletins has achieved a wide acceptance from the farming community as it includes timely advices related to existing and forecasted weather conditions.

An Automatic Weather Station (AWS) was installed by IMD at Krishi Vigyan Kendra, Kollam for the smooth conduct of weather-based services extending through the Kendra. The AWS unit was officially inaugurated by Adv. K Somaprasad, MP of Rajya Sabha.

The weather parameters such as Maximum & Minimum temperature, Relative Humidity, Sunshine hours, Wind speed, Wind direction, Rainfall, Soil temperature and Moisture are measured using respective sensors fixed in AWS and the recorded data is transmitted through data logger every 15 Minutes in a day. The measured data can be used for the forecast and research studies and also the DAMU project is utilizing the data for the preparation of Agromet Advisory service bulletin. Apart from this, the project also carries out activities such as Farmers Awareness programs, Promotion of weather-based mobile applications like Meghdoot, Damini etc. The set-up of AWS unit is the major achievement under the project.

During last year, the number of farmers receiving the Agromet advisory services has increased to 8565 and recorded lots of success stories as an impact from the advisories provided. Among the recorded success stories, the major impact was achieved by the farmer named Mr. Aneesh Babu. He is one of the successful pisciculturist in the Sasthamcottah

Block of Kollam District. He was supplied with fingerlings under the FLD named “Demonstration of Amur Carp Hungarian strain rearing in FW natural pond” which was conducted by KVK, Kollam. He rears the fish in his pond with water capacity of 1214.1 m³. As a part of FLD, 250 fingerlings were distributed to 3 farmers from Sasthamcottah block including Mr. Aneesh Babu. Unlike from the rest two of them, he used to follow the advisories regularly. They received the fingerlings in the month of March and they started rearing it successfully in their own ponds. But in the Month of October heavy rainfall occurred and Aneesh Babu could save the Fish stock of 7 month old as he followed the rainfall forecast provided in the advisory. He pumped out the water to avoid overflow of water from his pond and thus he protected his fishes. But



in case of other two farmers, they were unaware about the forecast and faced great loss in their fish farming. The economic benefit of Aneesh Babu because of following the advisories was about Rs. 50,000/-.

Apart from him, a lot of farmers came forward with their benefits obtained by following the AAS advisories. Many young and flourishing farmers are also making use of these bulletins to share among their friend's group through their YouTube channels and other Social Medias which caused the wide popularity of the project and its services. Until now a total of 1220 AAS bulletins were prepared and disseminated to the Farmers of KVK, Kollam.



KVK, Malappuram

EDP on Fruit and Vegetable Processing

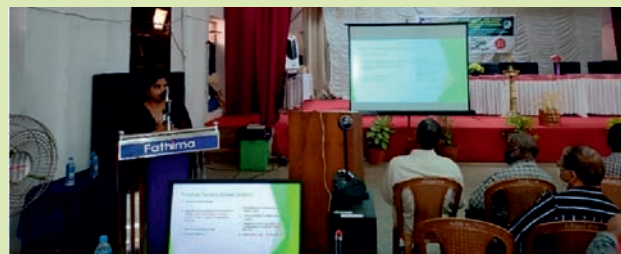
Under the ICAR ARYA Project KVK Malappuram organized training sessions for the beneficiaries of Malappuram district from 16th March to 24th March on 'Entrepreneurship Development in Fruit and Vegetable Processing and Value Addition'. A batch of 60 Trainees were oriented about recent trends in fruit and vegetable processing, scope for value addition in Jack fruit, Banana, Coconut, processing of pickles and packaging & storage of processed products. Trainees were also made aware of Entrepreneurship development, Marketing and Branding, Business Opportunity Identification and importance of Food Safety in food processing unit. Demonstrations of different equipment and machineries used in food processing, hands-on training sessions on different products from fruits and vegetables like beverages, sauces, pickles, concentrated products, dehydrated vegetables, baked items, osmo dehydrated products were also conducted for the trainees. Exposure visits were also conducted to various stations of



Kerala Agricultural University such as Banana Research Station, Agri- Business Incubator, Cocoa Research Centre and Cashew Research Station, AICRP on Post-Harvest Engineering and Technology etc. Experts from Kerala Agricultural University and Department of food safety handled different sessions. Dr. Lilia Baby Assistant Professor, Home Science coordinated the training programme.

Farm Mech 2022 Exhibition cum workshop on Farm Machineries

KVK participated in two days exhibition cum workshop on Farm Machinery organized under AICRP FIM on 17th and 18th of March 2022 at Tavanur. Besides, arranging exhibition stall of KVK at the venue, one of the technical sessions was handled by Er. Priya G Nair (SMS SWE) on Agricultural Engineering – entrepreneurship opportunities



STRY Training on Repair and maintenance of Farm Equipments

One week long skill training for rural youth (STRY) was organized by the KVK with the support of ATMA, on Repair and maintenance of Farm Equipments from 21st March to 27th March 2022. Fifteen trainees from three blocks of the district; Perumpadappa, Tirur, Manjeri participated in the programme. Hands on training covered working of farm equipments and small machineries such as different types of Brush cutters, lawn mowers, garden tillers, mini tillers, sprayers, pole pruners, coconut climbers and their repair and maintenance sessions. A visit to Kerala Agro Machinery Cooperation Limited, Athani, Aluva, a Govt. undertaking company in Kerala, producer of Power Tillers, Reapers, Mini tractors etc. was also done as a part of the training programme. The various sections in



KAMCO factory like engine assembling, gear box assembling, engine testing, quality control, marketing section etc. were visited. Er. Priya G Nair, Asst. Professor (Ag.Engg.) coordinated the programme.



Training on Infertility management in dairy cattle

Fifth capacity development programme in the series on profitable dairying and livestock management was conducted from 22nd to 24th



March 2022 on the major issue faced by Dairy farmers Viz; Infertility management in dairy cattle. The programme covered in detail on infertility problems in AI bred cattle and management interventions needed. The sessions were handled by Veterinary Gynaecologists including Dr Abdul Azeez C. P. Assistant professor, Department of Animal Reproduction and Gynaecology, of Kerala Veterinary University, Pookode. An exposure visit to Cattle and buffalo farms, Rabbitry as well as Bull station at Mannuthy was also conducted.



KVK, Palakkad



Capacity building programme on Commercial Mediculture



Krishi Vigyan Kendra Palakkad conducted a two day capacity building programme on Commercial mediculture to a group of interested trainees. The programme primarily focused on creating an awareness on importance of cultivating medicinal plants, its marketing and value chain opportunities. The day 1 commenced with a theory class on cultivation of different medicinal plants by Dr. Reshmi J, Assistant Professor (Horticulture). The second class was on marketing and value chain aspects of medicinal plants by Sri. Mahesh Kumar M.K, Assistant Manager (Estate), Arya Vaidyashala, Kottakal. Day two had field visits, where the trainees had an opportunity to visit the AICRP on Medicinal Plants at College of Agriculture, Vellanikkara, Thrissur. They were introduced to different medicinal plant collections at the institute. In the afternoon session, a visit to SNA Oushadashala, Arimbur was arranged where their processing storage and stacking units were visited. The team members of SNA oushadashala also explained on the work and marketing opportunities of the medicinal plants. A total of 40 trainees participated in the



programme.

Farmer outreach programme on Natural farming

KVK PALAKKAD conducted an exposure visit and capacity building program to Deesan farm as part of farmer outreach programme on

natural farming on 26/03/2022. Deesan farm situated at Meenakshipuram of Palakkad district is known for their different organic farming practices. The farm has 36 acres of land, with 33 acres of coconut plantation. Four years back they started to cultivate guava in 1.5 acres of land. The farm includes crops like mango, vegetables, and other fruit plants of exotic varieties too. The main attraction of the farm is the indigenous breeds of cattle (15 nos.) which include kankrej and kankayam. The manure and urine of these indigenous cattle is well utilized for the production of beejamrutham, panchagavyam and other organic products utilized for the natural farming system followed in the farm. Guava is planted in high density and the dried leaves and ripen fruits of guava are powdered and sold. Value added products from milk like ghee, butter and curd is also produced in farm. 60% of the coconut is utilized for the production of coconut oil and two units are there to extract oil from coconut. A large scale vermicompost unit in the farm utilizes all the biodegradable waste at the end of production or cultivation of crops and that enriches their lands biomass too. 27 farmers from KVK Palakkad visited the farm. They were too much inspired by the farm owner Sri. Saravana, a 35 year graduate who resigned his high paid job to start an organic farm.

Participatory Data Collection conducted at NICRA Village.

Pattithara Grama Panchayath of Thrithala block is selected for the interventions of



NICRA project. Primary data collection and interactions with villagers are essential for the successful implementation of project. KVK has organized participatory rural appraisal techniques for data collection. Students pursuing Diploma in Agriculture were involved in the PRA along with the scientists of KVK Palakkad and RARS Pattambi. Representatives from Grama panchayath, Dept of Agriculture, senior citizens in the village and experienced farmers took part in the participatory method. Students were divided into 5 groups and made them to interact with farmers and local people. Nine PRA techniques including social mapping, transect walk, resource mapping, venn diagram, wealth ranking, matrix ranking, trend line, time line and seasonal calendar were illustrated. After sketching the maps focus group discussion were conducted to analyze the field problems identified during PRA. Pattithara Grama panchayath President, Shri P Balan, Vice President Smt. Sebu, farmer representative Sri. Saidalavi addressed the students.

KVK, Pathanamthitta

Awareness Programme on Kitchen Gardening and Its Role in Tackling Antibiotic Resistance

Numerous studies across the world have cited presence of medicines especially Antibiotics in farm produce. The presence of antibiotics in animal and farm based food products can be a driver for antibiotic resistance. This can be attributed to numerous reasons such as irrational use of antibiotics in farming in the form of growth promoters and pesticides, use of untreated wastewater containing antibiotic residues and unscientific disposal of antibiotics. It is necessary to have a



bottom up approach to change people's behavior and practices towards farming sector. It is equally important that people as a community should encourage local production and have sustainable farming practices for a better tomorrow. In order to create awareness on safe farming methods to mitigate antimicrobial resistance issue, KVK, Pathanamthitta joined hands with ReAct Asia Pacific, a global network working for antimicrobial resistance advocacies and organised an awareness programme on 19th March 2022. The event on March 19th focused on how local agriculture production helps in tackling antibiotic resistance through multiple ways. When people focus on producing food for consumption they tend to abstain from using harmful products. Also, Local production and consumption of food



eliminates the use of preservatives as it will not require transportation. Moreover, it aids in household food security. Better availability of nutrition reduces the chance for infection and thereby resulting in reduction of antibiotics usage. Dr. Hyfa Mohammed Ali, Consultant, ReAct Asia Pacific Project and Dr. Sindhu Sadanandan, SMS (Agril Extension), ICAR-KVK, CARD, Pathanamthitta spoke on the problem of Antimicrobial Resistance due to Unscientific farming practices. The training session on Kitchen Gardening for safe food production was lead by Ms. Ambily Varughese, Farm Manager, ICAR-KVK, CARD, Pathanamthitta. During the occasion safe to use products in agriculture was also exhibited.



KVK, Thrissur



Skill Training of Rural youth



Krishi Vigyan Kendra, Thrissur, conducted Skill Training of Rural Youth on the topic Organic Farming from 19/03/2022 to 26/03/2022. Hands on training on preparation of various liquid organic fertilizers, organic pesticides, Trichoderma enriched compost, establishment of Integrated farming system units were imparted during the programme. The participants were also given an orientation in techniques such as grafting, budding and layering. A demonstration on production of VAM was also conducted at Banana Research Station, Kannara. Exposure visits were arranged to the fields of organic farmers of Thiruvilwamala Panchayath and Bio Control of Crop Pest Laboratory at Vellanikkara.

12 Day Certificate Course on Insecticide Management for Insecticide dealers and Distributors



Valedictory function of 12 Day Certificate Course on Insecticide Management for



Insecticide dealers and Distributors was conducted at Krishi Vigyan Kendra, Thrissur on 22.03.2022. The programme, funded by SAMETI, aims to orient the participants in various aspects of management of pests and weeds affecting the major crops. In the pandemic situations, the theoretical knowledge were imparted via the online platform. Exposure visits to various organizations at Ooty imparting practical know-how on agriculture related topics was organized. The participants also visited the Insect Museum and Integrated Farming System Research unit under the TNAU at Coimbatore.

KVK, Thiruvananthapuram

Banana Bunch Covering Device Demonstration at Ottashekhamangalam

Banana is a major fruit crop cultivated by farmers of Thiruvananthapuram district. The diminishing quality of banana bunches primarily due to damages caused by insects, pests and birds is a chief problem faced by farmers. This affects the market price of the fruit. To alleviate this, use of banana bunch covering device developed by Kelappaji College of Agricultural Engineering and Technology, Tavanur during 2019, was demonstrated to the farmers.

KVK demonstrated this device at Ottashaekharamangalam Grama panchayat on 25/02/2022. Farmers cultivating banana as a major produce attended the training and practiced operation of the device. The programme was inaugurated by Agricultural Officer Shri.K.G.Kiran. The banana bunches were covered by non-woven material after the flower removal. The equipment was used to cover red and nendran banana variety bunches. The device was light weight (1kg)

and farmer friendly. The major parts of the device are; a supporting pole, a curved Aluminium assembly, screws to attach the curved part to pole and a spring on attachment giving elasticity to silicon rubber band which was initially wound around the screws. On the top of the screws, a non woven cloth is hung below the pole. A rope is fixed on the top end of the device, which when pulled gives a movement to curved plates wherein a rubber band gets wrapped on stem of the banana bunch covering it. The cover can be used for three seasons when kept carefully without any damage.

Performance Parameters

A farmer using the traditional method, of using ladder to cover the banana bunches, took more time i.e. 10-15 minutes/plant. This partly enhances the labour cost as more man days are required for the process using conventional method. This prevented the farmers from embarking on covering the bunches.

However, the device found wide acceptance from the farmers primarily because of its low cost and ease of its use. Its field capacity was 20 – 30 Nos. / Hr. Also,



according to farmers', a Banana Farmers' group needed to buy one device only and this can be shared by others on hiring basis.

The training programme for use of this device and its technical details were published in Malayala Manorama newspaper (01/03/2022) and in Venad Pathrika. Many farmers attended the meet and got acquainted with the device.



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Birth Place of Sarvagna, Abaluru



Santa Shishuvinahal Sharif Gadduge, Shishuvinahal



Kanaka Gurupeetha, Kaginle



Tarakeshwara Temple, Hanagal



Siddheswara Temple, Haveri



Kanakadasa Birth Place, Baada



Mukteshwara Temple, Choudayadanapura



Janapada Vishwa Vidyalaya, Gotagodi



Kadaramandalagi Hanumantha Temple



Red Chilli Market, Byadagi



Blackbuck Sanctuary, Ranebennur



Peacock Sanctuary, Bankapura



Utsava Rock Garden, Gotagodi



Agadi Thota, Shiggao



Haveri Cardamom Garland





University of Agricultural Sciences, Dharwad



ICAR Krishi Vigyan Kendra, Haveri (Hanumanamatti)



Honorable Agriculture Minister Shri B. C. Patil, Visited KVK, Hanumanamatti