



KVK TIMES



A Window to KVKs of ICAR-ATARI, Zone-XI, Bengaluru
Vol 01 Issue 13, 01-15 January, 2022

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Amrit Mahotsav



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

ICAR-Taralabalu Krishi Vigyan Kendra, Davanagere

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Dr. V. Venkatasubramanian

डॉ।वी।वेंकटसुब्रमण्यन

Director



Message

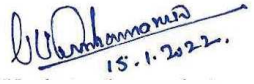
I extend heartiest greetings of New Year-2022 to the farming community and all the readers. I'm happy to know that ICAR-Krishi Vigyan Kendra (Taralabalu), Davanagere bringing out 13th issue KVK TIMES of Zone-XI for this fort night from 1-15 January 2022. Interventions of technology in agriculture is crucial and essential in the current agriculture to gain maximum crop yield and return. KVKs are well established front line extension system for effective dissemination of technology to the farmers in the country. Although Krishi Vigyan Kendras work on the principle of "seeing is believing", there is a need to do the documentation of various activities carried out by KVKs. This is an important task and this will help in furthering sustainable technologies in agriculture. It gives me immense pleasure to share the news of ICAR-Krishi Vigyan Kendra (Taralabalu), Davanagere, and worth to mention that it has bagged the most coveted NICRA best KVK award during 2019 and the 'Pandit Deen Dayal Upadhyay Rashtriya Krishi Vigyan Protsahan Puraskhar-2018' from ICAR.

I appreciate the efforts of Dr. Devaraja T. N., Senior Scientist & Head of ICAR-KVK (Taralabalu) Davanagere and his team in bringing out fortnightly issue of KVK TIMES during first fort night of January, 2022.

I wish them great success in future endeavors.

Date : 15-01-2022

Place : Bengaluru


15-1-2022.
(V Venkatasubramanian)

KVK TIMES



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**Keladi Shivappa Nayaka University of Agricultural and Horticultural Sciences,
Shivamogga-577 204**

Dr. B. Hemla Naik, *Ph.D.(Hort.);PGDH(Israel);eLng Ag Edn (USA)*
**Director of Extension
& Professor (HAG)**

Directorate of Extension
Savalanga Road
Shivamogga-577 204



PRELUDE

My warm happy new year wishes to all the KVK colleagues. I am feeling extremely happy that 13th issue KVK TIMES of Zone-XI is being brought out by ICAR- Taralabalu Krishi Vigyan Kendra, Davanagere. The KVKs are main pillars in introducing the technologies to the farming community and creating the sensitization on technologies in agriculture. They play a major role in enhancing the crop production and productivity through the adoption of technologies by the farming community. Documentation of various activities carried out by KVKs is an important task and this will help in furthering sustainable technologies in agriculture and to know works done by each other KVK's. So the novel idea of ICAR-ATARI, Bengaluru in bringing out '**KVK TIMES**' to continuously document the work of all the KVKs in Zone XI is highly appreciable.

I congratulate Dr. V. Venkatasubramanian, Director, ICAR-ATARI Bengaluru, zone XI, his team and all the members of KVK family for their collective effort in emphasizing the KVK activities of this fortnight. I extend my wishes to Dr. Devaraja, Senior Scientist & Head of ICAR-Taralabalu KVK Davanagere and his team in bringing out e-newsletter in a colourful way during first fortnight of January, 2022.

Directorate of Extension, KSNUAHS, Shivamogga feels proud to state that ICAR- Taralabalu Krishi Vigyan Kendra, Davanagere have brought laurels to the University by bagging best KVK awards at National and Zonal levels. I wish them all the best for their upcoming activities.

Date: 20-01-2022
Place: Shivamogga

**Director of Extension
KSNUAHS, Shivamogga**



Message

Agriculture and allied sectors are only critical to meet the food and nutritional demands of the teaming population but also the overall development of the country. At present, there are challenges like doubling of farmer's income by optimal and eco-friendly resources- land labour, capital and management, producing “more-from less for more” with agriculture becoming more and more knowledge demanding. KVK's are playing vital role in enhancing the agriculture food production by introducing technologies for location specific, organizing training to update the extension personnel with emerging advances in agriculture research, organizing short term and long term training courses and frontline demonstrations hence it is acting as an voluntary sector for improving the agricultural economy.

Am feeling very proud and happy about ICAR- Taralabalu Krishi Vigyan Kendra for their constant dissemination of technologies to the farming community across the district and helping out the farmers in adapting the same. At this juncture, I congratulate Taralabalu Krishi Vigyan Kendra for bringing the 13th issue KVK TIMES of Zone-XI for this fortnight from 1-15 January 2022.

My sincere thanks to Dr. V. Venkatasubramanian, Director, ICAR-ATARI Bengaluru, zone XI for his constant support in carrying out the KVK activities. I also extend my thanks to Dr. Hemla Naik, Director of Extension, KSNUAHS, Shivamogga for their constant encouragement to our KVK activities. I praise the attempts of Dr. Devaraja T. N., Senior Scientist & Head, ICAR –Taralabalu Krishi Vigyan Kendra and all the staff of the KVKs for bringing out the 13th issue of KVK TIMES. My best wishes to the KVK fraternity for their future tasks.

Date: 15-01-2022

Place: Sirigere

(Dr. Basavarajappa K. P.)

Secretary, Taralabalu Rural Development Foundation
and Member, Planning Commission, GoK.

Acknowledgement



It is a pleasure and great privilege for me to express my profound gratitude to Dr. V. Venkatasubramanian, Director and all the nodal scientists and staff of ICAR-ATARI Zone –XI, Bengaluru for providing us an opportunity to bring out 13th issue KVK TIMES of Zone-XI for this fortnight from 1-15 January 2022. I sincerely thank Dr. Basavarajappa K. P., Secretary, Taralabalu Rural Development Foundation and Member, Planning Commission, Government of Karnataka for his constant support and encouragement in overall development of KVK. I extend my sincere thanks to Dr. Hemla Naik, Director of Extension, KSNUAHS, Shivamogga for their technical support and constant encouragement for our KVK activities.

I record with immense pleasure, the over whelming response of Zone XI KVK family in sharing spectrum of their activities which largely helped to precisely compile and bring out the final edited issue of KVK TIMES for the first fortnight of January, 2022. I wish to place on record our sincere thanks to all my fellow colleagues of KVK family Zone-XI for their sustained efforts in sharing the required information in time.

I profusely thank Scientists and staff of Taralabalu KVK for their support in compilation of information, offering valuable suggestions and efforts to bring out this issue of KVK TIMES.

Date: 15-01-2022
Place: ICAR-Taralabalu KVK,
Davanagere

(Dr. Devaraja T. N.)
Senior Scientist and Head

ICAR-Taralabalu KVK, Davanagere

NMOOP-Cluster FLD- ICM Groundnut

Conducted On campus training program on Integrated Crop Management in groundnut to the farmers from Siddamanahalli, Jagalur taluk. Mr. Mallikarjuna B.O., SMS (Agronomy) explained to the farmers the characteristics of the groundnut variety G2-52, Importance of seed treatment with Rhizobium, PSB (500 g each /ha of seeds) and Trichoderma (2g/kg of seeds) at time of sowing.

Provided the information on application of the gypsum at time of sowing and 30 DAS in groundnut. Provided the critical inputs to farmers.



Field day of NFSM – CFLD Bengal Gram

Conducted the NFSM –CFLD Bengal gram field day at Kalledevarapura in collaboration with Department of Agriculture and ATMA , Jagalur taluk. The program inaugurated by APMC, Vice president, Jagalur and Field visit to the CFLD plots and farmers explained the technologies which helped them in improving the crop stand like use of HYV, Seed treatment with Bio fertilizers, Use of pheromone traps and spraying of water soluble fertilizer Pulse magic at time of 50 percent flowering.



Collaborative programs

Different methods of paddy production system to save water and reduction in cost of production at Kurki, Davanagere taluk in collaboration with department of Agriculture, Davanagere



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training kurki



“Fertilizer calculation and cost of production of different field crops” for DAESI at IAT, Davanagere

Farm Advisory services



Glimpse of Nutri -Cereals Mela, - 04.12.21



During this occasion Dr . V. Venkatasubramanian. Director ATARI, Bangalore, Sri Mahantesh Bilagi District commissioner , Sri Srinivas Chintal, JDA and Sri Raghavendra DDH, Davangere were present



Mr. Basavanagowda M. G, SMS (Horticulture) received District Rajyothsava award by Davanagere Corporation at 65th Karnataka Rajyothsava.



Mr. Basavanagowda M. G, SMS (Horticulture), received state level HN award by Karnataka State Scientific Research council, Bangalore at Shivamogga



Mr. Raghuraja J. SMS (Agricultural Extension) received the BEST KVK SCIENTIST AWARD by Indian Society of Extension Education. The award was presented during ISEE National Seminar at Banaras Hindu University, Varanasi on 06/10/2021.



ICAR-Taralabalu KVK conducted Swachhata Pakhwada activities on 16-31 December 2021 and took Swachhata pledge to keep cleanliness and sanitation in the villages and urban areas.



Miyawaki forest established at 10 different locations (parks) in the district with 50,000 tree samplings planted in Davanagere city premises by the city corporation with the technical guidance of Dr. Devaraja T. N. Senior Scientist Taralabalu Krishi Vigyan Kendra Davanagere.



ICAR –Taralabalu Krishi Vigyan Kendra, Davanagere celebrated World Food Day on October 16th, 2021 at Rameshawara village, Nymathi Taluk of Davanagere district. Sri Basanagowda M.G. Scientist (Horticulture) gave an inaugural speech and spoken about the importance of World Food Day and how better production, better nutrition and better environment lead to a better quality of life. Dr. Supriya Patil (Home Scientist) delivered a lecture on balanced diet & what are all the foods that should be included in a plate and gave training on preparation of Bhakahu to the farm women.



ICAR-Taralabalu Krishi Vigyan Kendra, Davanagere celebrated **Mahila Kisan Diwas** in collaboration with Raghavendra Hi-Tech PU College and Sri Sharadha Academy, Davanagere on 15th October, 2021. The Programme was inaugurated by Sri. Basavangowda M.G. scientist (Horticulture) and he spoken about the importance of Mahila Kisan Diwas and the percentage of women working in farming and the activities that they are carrying out. He also gave knowledge on role of women in value addition in agriculture.

Dr. Supriya P. Patil (Home Scientist) delivered a lecture on how women can improve their livelihood by doing value addition and also how they can improve the nutritional status of the family. Information on BAKAHU production technology was shared with participants.

Dr. Anilkumar M.R. Principal of Raghavendra Hi-Tech PU college, Davanagere in his presidential remark, we are very happy to be a part of Agriculture related Programme, students should think of utilizing the opportunities in the field of farm science courses.

On eve of Mahila Kisan Diwas essay competition on 'Role of Women in Agriculture' was conducted in the college for girl students and best three were selected and given the award. Around 60 students, 10 staff members and parents attended the Programme.



ICAR- Taralabalu Krishi Vigyan Kendra, Davanagere conducted a training on Importance of Nutrigarden in Rameshwara village of Nyamathi taluk on 4th January 2022.

Mr. Basavanagowda M.G., SMS (Horticulture) delivered a lecture on importance of Nutrigarden and organic practices that should be included in nutri-garden. Dr. Supriya P. Patil, Programme Assistant (Home Science) expressed that by adopting Nutrigarden we can reduce the malnutrition as well as we can also improve the family health status. Dr. Devaraja T.N., Senior Scientist & Head, stated that there is a need to create awareness among youths regarding their health and food habits as they are attracted towards junk foods.



Followup visit to the fishrearing ponds of Huchavanahalli and other villages. Dr. Devaraja T. N. Senior Scientist and Head guided the farmers to take up scientific rearing of fish to get the good profit.



World Soil Day was celebrated on 5th December, it was inaugurated by Dr. Vijaya Mahantesh Danammanavar, CEO, Zilla Panchayath, Davanagere and Prof. Gayathri Devaraja, Registrar, Davanagere University. Mr. Srinivas Chintal, Joint Director of Agriculture Davanagere, Mr. Raghavendra Prasad, DDH Davanagere, Mr. Thippeswamy DDA Davanagere and Rajendra Prasad Area Manager IFFCO Pvt. Ltd Davanagere were participated in the occasion



ICAR-Taralabalu Krishi Vigyan Kendra Davanagere has initiated Kitchen waste composting & terrace gardening under Swachha Bharath Pakwada in Davanagere city from last 7 years our Kendra is involved in educating city dwellers, farmers community hostels, Hotels, Choultries managers in managing the solid wastes scientifically by providing amenities like compost bins, culture powders etc at reasonable prices & promoting compost production and establishment of kitchen garden/terrace garden. This activity is liked by many & now more than 2000 families in the city are practicing & helping in making city clean & green.

Capacity Building Training Programme for Livestock Farmers



ICAR-Taralabalu Krishi Vigyan Kendra Davanagere has conducted 2 capacity building training programme for the benefit of women milk co-operatives in collaboration with Shivamogga Co-operative milk producers union on Profitable dairy farming between 10.01.2022 & 19.01.2022 more than 85 dairy woman farmers from 12 milk producers co-operative societies in Davanagere District participated in the 3 day training programme & learnt about different feed & fodder production technologies like silage making hay making, fodder & feed block making, Azolla production, compounded feed making & etc. The entire training programme was centred on reducing the feeding cost in dairy animals & enhancing clean & good quality milk for doubling farmer's income.



ICAR- KVK, Bagalkot

Twentieth Scientific advisory committee meeting of ICAR Krishi Vigyan Kendra was held on 4.1.2022 . at training hall of KVK bagalkote. Chairman of the programme and Hon'ble Vice Chancellor Dr. M B Chetti inaugurated the programme by lighting the lamp. In his opening remarks he highlighted the strengths of Baglakote district with regard to cropping pattern and potential for further research areas and also strengths of KVK Baglakote in serving the farming community He expressed his happiness on the performance of KVK Bagalkote since last few years and its efforts in getting the award under the guidance of able administration.

Dr. Mouneshwari Kammar Senior scientist and Head presented the action taken report for the suggestions given in the previous meeting , progress made in the reporting period and future plan of activities planned to house.

Principal scientist form ATARI Dr. DVS Reddy and Dr. Dnyaneshwar Kolekar were virtually present in the meeting and highlighted the need to emphasize on millets, Dryland horticulture and animal husbandry activities. Another principal scientist from Sugarcane breeding institute Dr. Mohanraj was also virtually present and spoke on the adoption of high yielding varieties.

Dr. Balachandra Naik, Director of extension UAS Dharwad addressed the need to work more on the technologies conserving natural resources. Dr S I Athani Director of Extension , University of Horticultural Sciences, Baglakote urged the need to emphasize more on the horticulture crops in enhancing the farmers income and also expressed the need to include horticulture technologies in the coming action plan of KVK Bagalkote. Associate Director of Extension, Dr. R B Belli and Nodal officer of KVKs of UAS Dharwad Dr. Shripad Kulakrni were present on this occasion.

Joint Director of Agriculture, Deputy Director of Horticulture, animal husbandry, fisheries, DDM NABARD, Head of ARS Bagalkote, AEEC Mudhol, Shri M Y Katti, Managing Director of Rohoni Biotech and Member SAC, Shri Mahadev Choli, State awardee and a member of SAC, Shri Shrikant Kumbhar progressive farmer of Mudhol were present in the meeting as special invitied were present on this occasion.



Bi monthly Workshop

Bimonthly Workshop held at Kulageri Hobli, KVK Bagalkot in collaboration with Department of Agriculture organized bilmonthly workshop for extension functionaries of Department. Dr. R.B. Belli, Associate Director of Extension chaired the session. Dr. Chetana Patil, Joint Director of Agriculture, Dr. Mouneshwari R Kammar, Sr. Scientist and Head were present after the detailed discussion. KVK Scientists Deliberated upon the pest and disease problem in Rabi crops. Major problems noticed were Fall army worm in maize, low seed setting in chickpea, Dry rot in pigeonpea, rust in Rabi Jowar, Root grub in sugarcane. Later visits were made to pomegranate inserted with blight, wilt and fruit borer, banana IFS plots of farmers.



Field Day on demonstration of new chilli hybrid (Arka Khyati)

Field day on demonstration of new chilli hybrid- Arka Khyati was conducted at Bevinamatti village, Bagalkot in farmer field of Shri Laxman Muttur on 11.01.2022. The field day programme was organized by team of ICAR- KVK Scientists, Bagalkot. On the day of harvesting Chilli farmers along with other farmers were gathered. The importance of this chilli hybrid- Arka Kyati was explained by Dr. Airadevi P. Angadi, Scientist (Horticulture), Dr. M. R. Kammar, Senior scientist and Head, spoke regarding chilli processing and value addition and Dr. Sudha S. Scientist (Plant Pathology) explained about the pest and disease management practices in chilli. Farmers were convinced by the performance (growth and yield) of

Arka Khyati compared to local varieties. This field day created interest among farmers group and many farmers expressed interest to cultivate Arka Khyati. Dr. Airadevi P. Angadi concluded by thanking all the farmers for their co-operation for making the field day a good success. About 16 farmers along with Zilla Pachayat members participated in the program.



ICAR-KVK, Chikkamagaluru

ICAR-Krishi Vigyan Kendra, Chikkamagaluru organized one day Workshop on Spice crops (Cardamom and Pepper) on 07.01.2022 at KVK, Mudigere, Chikkamagaluru.

Dr. Krishnamurthy, A.T., Senior Scientist and Head, KVK, Mudigere, in his inaugural speech he briefed about KVK activities and new invented Technologies.

Dr. Ankegowda, Head. Indian Institute of Spice Research, Appangala, Madikeri, participated as resource person and explained about the scientific cultivation practices of Cardamom crop and characteristic features of varieties of cardamom crop like IISR-Appangala-1 gives high yield about 1200 kg/ha and IISR-Avinash variety is tolerant to Rhizome rot and IISR-Vijetha variety resistant to Katte disease. He also suggested to apply micronutrients like Cardamom special to get higher yield.

Dr. Venugopal, Rtd. Chief Scientist, IISR,

briefed about scientific cultivation practice of pepper and also he suggested farmers to maintain drainage facility for crop at high rainfall regions and application Bordeaux mixture for 2 to 3 times in a year is best management practice for quick wilt disease further he gave the detail information about different varieties of pepper like Panniyur-1, Panniyur-2, Panniyur-3, Panniyur-4, Panniyur-5, Panchami, Pownami, IISR-Thevam, IISR-Shakti which suitable for different climatic conditions.

Dr. Hemla Nayak, B. Directorate of Extension, KSNUAHS, chaired the programme. In his presidential remarks briefed about the improved technologies related to Agriculture, Horticulture and subsidiary enterprises.

Dr. Narayan S Mavarkar (Dean Hort.), Mr. Shivram, Board Member of KSNUAHS, participated as chief guests. Total 200 Farm women and Farmers were participated the programme and got benefited.



ICAR-KVK, Chikkaballapura

On campus training programme was organised by ICAR Krishi Vigyan Kendra, Chikkaballapura in collaboration with College of sericulture, Chintamani on Home solar lighting systemes for rural areas on 05.01.2022. Dr. Papireddy, Senior Scientist and Head, KVK, Chintamani highlighted about the scope of use solar energy in agriculture. Mr. Rudregowda, Assistant Professor explained about the how to harness the solar energy and use it for lighting and agriculture purpose in rural areas. Literature on maintenance of solar lights was released during the programme. 55 participants witnessed the programme.



Demonstration on use of drones for spraying of chemicals was carried out by ICAR, KVK, Chikkaballapura at NICRA Village on 14.01.2022. Farmers were explained about the efficiency of drones in agriculture. Demonstration was carried out in tomato, brinjal, mango and beetroot crops. Farmers were also explained about advantages of saving of water, chemical and manpower by using drones. Demonstration on use of drones for spraying of chemicals was carried out by ICAR, KVK, Chikkaballapura at NICRA Village on 14.01.2022. Farmers were explained about the efficiency of drones in agriculture. Demonstration was carried out in tomato, brinjal, mango and beetroot crops. Farmers were also explained about advantages of saving of water, chemical and manpower by using drones.



ICAR - KVK,Chitradurga

Special training programme:

Awareness and training programme on “Energy efficient pump sets and water conservation for farmers and agricultural technicians” was organized by ICAR Krishi Vigyan Kendra, Chitradurga in collaboration with Karnataka Renewable Energy Development Limited, Bangalore on 4th January 2022 at Krishi Vigyan Kendra, Babbur Farm, Hiriyyur.

The programme was inaugurated by Mr. Devaraja Reddy, Member, Karnataka Planning Commission, Bangalore and Geologist, during his inaugural address briefed about importance of water conservation to future generation and different methods of water conservation in rural and urban areas. He stressed farmers and farm women on harmful effect of increasing bore wells and their consequences on water scarcity problems in future. Mr. Manjunath, Assistant General Manager, Karnataka Renewable Energy Development Limited, Bangalore advised farmers on efficient use and safety measures required in operating of pump sets. Mr. Dinesh Kumar, Assistant Technical Officer, Karnataka Renewable Energy Development Limited, Bangalore suggested farmers and farm women on effective use of solar energy in houses and pump sets. Use of LED bulbs saves maximum electricity and minimizes the operational costs in rural areas.

Dr. Rajashekar Barakera, Senior Farm Superintendent, Zonal agricultural and horticultural Research Station, Babbur Farm, Hiriyyur advised on specific use of pump sets depending upon depth of bore well and efficient use of irrigation water for agricultural

and horticultural crops. Dr. Hemla Naik, Director of Extension, Keladi Shivappa Nayaka University of Agricultural and Horticultural Sciences, Shivamogga during his presidential address suggested farmers and farm women to utilize the services of scientists for effective implementation of crop specific technologies which will improve their livelihood. Dr. S. Onkarappa, Senior Scientist and Head, Dr. Prakash Kerure, Scientist (Horticulture), Dr. Jyothi, T. V. Scientist (Soil Science), Mrs. Geetha Kumari, Programme Assistant, Krishi Vigyan Kendra, Babbur Farm, Hiriyyur and Dr. Praveen Choudhury, Assistant Director of Agriculture, District Agricultural Training Centre, Babbur Farm, Hiriyyur were presided in programme.



ICAR-KVK, DAKSHINA KANNADA

Awareness and Capacity Development Programme to Scheduled Caste Fishermen

ICAR-Krishi Vigyan Kendra, Dakshina Kannada conducted an Awareness and Capacity Development Programme for Scheduled Caste Fishermen, Farmers, Youth and Women under sponsorship of MANAGE, Hyderabad, with special emphasis on "Management practices in quality fish seed production". Mr. Bharat Kumar, Corporator inaugurated the programme and urged the participants to take up the fish seed rearing activity which is the most promising field in the fisheries sector to meet the needs of the aquafarmers in the Dakshina Kannada district. Mrs. Manjulashri Shenoy, Assistant Director of Fisheries, Mangaluru provided the details of various schemes available in the Fisheries Department and also explained the process for availing financial benefit from PMMSY scheme. Mr. Srinivas Hulakoti, Subject Matter Specialist, KVK, Bramhavara, explained the various methods of fish seed rearing and modern methods to produce quality fish seed. Quality fish seed production will have an impact on the culture with better yield and profit. Majority of the farmers go for the unscientific fish seed stocking, which eventually have an impact on the success of the culture at the end of the year. Dr. Ramesha T. J. Senior Scientist and Head explained the present scenario of fish farming in the district and the best practices to enhance the farming using scientific approaches. Fish seed rearing can be source of income for the youth with the collaborative approach.

Dr. Chethan N., Scientist (Fisheries) and Programme Coordinator, provided details about best management practices, water quality management and disease control in the fish seed production and rearing. Rural unemployed youth were urged to form a group and take up the rearing activity with the help of KVK and department of fisheries so that the demand for the fish seed in the district can be met with similar

such groups at various parts of the district. Right now, the fish seed is being procured from nearby districts and mainly from BRP, Shivamogga. Demonstration on fish seed identification and segregation was organised for the participants and one day training was concluded by issuing certificates to the 50 Scheduled caste participants.

Rural unemployed youth were urged to form a group and take up the rearing activity with the help of KVK and department of fisheries so that the demand for the fish seed in the district can be met with similar such groups at various parts of the district. Right now, the fish seed is being procured from nearby districts and mainly from BRP, Shivamogga. Demonstration on fish seed identification and segregation was organised for the participants and one day training was concluded by issuing certificates to the 50 Scheduled caste participants.



Pheromone traps as a component of IPM for Yellow stem borer management

The yellow stem borer *Scirpophagaincertulas* (Pyralidae: Lepidoptern) of rice is one of the major destructive pests in all rice-growing region of Asia and considered as dominant and a prime devastator responsible for major causing yield loss of about 10- 60 per cent. The larvae of yellow stem borer cause dead heart and white ear during the vegetative stage and reproductive stage of the crop respectively. Pheromone traps (Sex pheromone traps) are convenient tools to monitor the adult male moth population. Pheromone traps been used for monitoring the male moth population of YSB with three reasons, the first is to detect the occurrence of the pest, the second is to identify the occurrence of the pest and third is to estimate the actual field population density of the pest.

In this regard to educate and create awareness about the pheromone traps as a component in integrated pest management, ICAR-Krishi Vigyan Kendra (Dakshina Kannada) Mangaluru organized a capacity development programme cum method demonstrations on installation of pheromone traps for the Agri-input Dealers at ICAR-KVK (D.K) Mangaluru. In this program, Dr. Kedarnath, Scientist (Plant Protection) educated the Agri-input dealers about the installation of pheromone traps and their uses. Totally 40 Agri-input dealers participated in this programme., Dr. Chethan N, Scientist (Fisheries) and other KVK staff were participated.



ICAR-KVK, Dharwad

Nutrient management in rainfed Wheat using microbial cultures

Rainfed agriculture is highly prone to vagaries of climate and decline in soil health. The soil organic matter plays significant role in maintaining soil health through its effects on microbial community, soil physical structure, nutrient cycling and soil water storage. Farmers are unaware of importance of using microbial cultures in different crops. To create awareness about role of microbial cultures in Wheat, FLD on “Nutrient management in rainfed Wheat using microbial cultures” was implemented at Pudakalakatti village of Dharwad taluka. Follow up field visit was carried out on 01.01.2022 in the field of Shri Basavaraj Chandargi by Dr. Punitha B. C., Scientist (Soil Science), KVK, Dharwad along with Dr. P. S. Hugar, Associate Director of Extension, Dr. Shripad Kulkarni, Nodal officer, UAS, Dharwad and Dr. S. A. Biradar, Senior scientist & Head. Dr. P. S. Hugar, Associate Director of Extension recommended the farmer to apply cowdung slurry and Potassium Nitrate foliar spray, also to stop irrigation at seed filling stages.



Method Demonstration on use of Mango Special

Mango is a major fruit crop of Dharwad district and is covered under One District – One Product category. Presently mango is in flowering stage in the district and this is the right time for spraying of mango special. ICAR-KVK, Dharwad conducted method demonstration on use of Mango Special at peanut stage on 11.01.2022 at Mugali village of Dharwad taluka. Application of Mango Special 4 times in a year (October, November and 2 sprays after fruit set-peanut and marble size) will enhance the quality as well as quantity of mango

fruit. In this programme, Dr. Akkamahadevi D. Agasimani, Scientist (Horticulture), ICAR-KVK, Dharwad, Smt. Kalavathi K. Kambali, Scientist (Plant Protection), ICAR-KVK, Dharwad and Dr. Sudha T., Professor(Agronomy), UAS, Dharwad participated and guided the farmers regarding cultivation, plant protection and intercropping respectively. Around 25 farmers benefited from this programme.



Resource person in training programme to Extension functionaries

ICAR-KLE KVK, Mattikopp, Belagavi conducted training programme for extension functionaries of state department officials of Belagavi regarding “Recent advances in Horticulture crops” on 12.01.2022. Dr. Akkamahadevi D. Agasimani, Scientist (Horticulture), ICAR-KVK, Dharwad participated in the programme and delivered a lecture on High density planting system and improved varieties of horticulture crops. In this programme, Dr. Mahantesh Muragod, Deputy Director of Horticulture, Dr. S. S. Hiremath, Scientist (Plant Protection), Dr. Lokesh, Agricultural Extension Leader, AECC, Belagavi were present. Around 50 officials from Dept. of Horticulture participated in the programme.



Method Demonstration on fertilizer dispenser

Application of fertilizer to the horticulture crops is an important step in getting good crop yield. Usually farmers apply fertilizer manually by broadcasting. This method is easy and less time consuming but, lot of fertilizer will go as waste through leaching and evaporation and fertilizer won't fall near the plant root zone. Also, quantity and absorption of fertilizer differs from plant to plant. To address this issue ICAR-KVK Dharwad demonstrated Fertilizer dispenser technology to farmers of Pudakalakatti village on 13.01.2022 under Frontline Demonstration. The dispenser is designed by Adept foundation, Belagavi and use of this machine will help the farmers for efficient utilization of fertilizer, provide fertilizer directly near the root zone and helps to provide right quantity of fertilizer based on the crop and the stage of growth. Nearly 25 farmers participated in the method demonstration and practiced the application method. The machine can be used effectively in transplanted and cash crops.



Method demonstration on *In situ* composting of Sugarcane trash using UASD compost culture

Burning of sugarcane trash is a hazardous practice which has affected soil health, air, human health etc. Greater attention is given only in improving the sugarcane yield and not much awareness on sugarcane trash recycling. In-situ composting and sugarcane trash mulching can be a good alternate to mitigate these problems. Hence, using integrated system of composting with bio inoculants and subsequent incorporation in field is demonstrated at Haletegur village on 20.12.2021 by ICAR-KVK, Dharwad. Dr. Punitha B. C., Scientist (Soil Science) and Mrs. Kalavathi K. Kambali, Scientist (Plant Protection), KVK, Dharwad explained the importance of using effective microbes in Compost culture developed by UAS, Dharwad which contains four lignocellulytic fungi viz., *Plerotus*, *Phanerochate*, *Aspergillus* and *Trichoderma* that are capable of making a residue into valuable nutrient sources and educated the farmers regarding methodology of mixing

the compost culture in Cowdung slurry and its application in Sugarcane field. About 5 farmers participated in the programme.



ICAR-KVK, GADAG

CELEBRATION OF JAI JAWAN – JAI KISAN

Under Azadi Ka Amrit Mahotsav, ICAR-KVK, Gadag organized “JAI JAWAN – JAI KISAN” with the theme “Uttam Kheti – Unnati Kisan” during 23 - 24 December, 2021. The event was inaugurated by Dr. Naganagouda Reddy, Deputy Director of Agriculture, Department of Agriculture, Gadag, Dr. L.G.Hiregoudar, Senior Scientist and Head, KVK, Gadag presided over the function. Two Progressive Farmers viz., Shri Kuberagouda Doddagoudar of Shirol village of Gadag taluk and Shri Mohammadali Nadaf of Kalakeri village of Naragund taluk were felicitated for their achievement in agriculture.

During 2 days event, KVK organized training cum exposure visit on food processing, vermicomposting, dairy, dryland horticulture, rainwater harvesting and visit to exhibition hall at KVK was made. During the occasion, a total of 326 farmers, farm women and students participated in the programme.



ORGANISATION OF TRAINING PROGRAMME TO DAIRY FARMERS

ICAR-ATARI, Bengaluru, Zone-XI provided 3 special programme for organising training programmes to dairy farmers. A total of 40 dairy farmers in each batch participated in the programme. The programme were organised for 3 days from 08-12-2021 to 12-12-2021, 27-12-2021 to 29-12-2021 and 05-01-2022 to 07-01-2022 . The Scientific dairy management and exposure visit to demo units and experience sharing by dairy entrepreneur were organised.





SWACHHTA PAKHWADA PROGRAMME

ICAR-K.H.Patil Krishi Vigyan Kendra has organised Swachhata Pakhwada programme from 16-31 December, 2021 mainly through awareness programmes to children, farmers and farm women on sanitation, cleanliness and use of toilets, cleaning of public & social places, cleaning of streets, drains and back alleys through awareness drives, conversion of degradable and agriculture waste into

ICAR-KVK, Ballari

Dr. D.M. Chandargi, Director of Extension, UAS, Raichur delivered opening remarks on achievements of UAS, Raichur like IFS, DFI successful stories, E-sap for technology dissemination, marketing of horticultural produce through FPO's during COVID-19/ lockdown period, value addition of fig by KVK, Ballari and other extension activities of KVK, Ballari.

Senior Scientist and Head, KVK, Hagari, Ballari addressed the scientific forum with the welcome note and presented the action taken report for the suggestions made during 20th SAC meeting held on 08-02-2021 and overall progress report for year 2021-22. Scientists from respective disciplines presented their respective progress report for 2021-22 from February 2021 to December 2021.

Dr. M.J. Chandregouda, Nodal officer, ATARI, Bengaluru reviewed the progress and gave suggestions for improvement in upcoming activities of KVK.



Line department officials, progressive farmers and agri-preneurs were present during the meeting. Suggestions given by all the committee members were noted to execute before the commencement of next SAC.



ICAR-KVK, Haveri

Visit of Hon'ble Agricultural Minister to KVK Haveri (Hanumanamatti)

The Hon'ble Agriculture Minister Shri. B. C. Patil visited the Krishi Vigyan Kendra Haveri (Hanumanmatti) on 10.01.2022 when he came for putting foundation stone of second floor at college of agriculture, Hanumanamatti. The invited progressive farmers of the district exhibited the various crop produces and value added products which have been seen and appreciated by hon'ble agriculture minister and other VIPs. During this occasion Dr. P. S. Hugar, Associate Director of Extension UAS, Dharwad informed the hon'ble minister that this is the first KVK established in Karnataka at Hanumanamatti, Ranebennur taluk of Haveri district. He also highlighted about KVK activities which is functioning actively and in limelight addressing major problems of the agriculture and horticulture crops and animal husbandry in the district. Then the minister visited the agriculture museum of KVK which has been maintained for farmers who visit every day and witnessed various new technologies to increase farmer's income. The Senior Scientist and Head of KVK Haveri Dr. Ashoka P explained to the hon'ble minister about the various agricultural technologies released by UAS Dharwad, about the front line demonstrations and method demonstrations, field days which are displayed in the Museum.

Later, Dr. Mahesh Kadagi, Scientist (Animal Science) described about the hatchery unit, which is with temperature and humidity controller required to breed the chicken eggs. This would allow 200 hens to hatch in 21 days. Then, Dr. Santosh H.M. Scientist (Horticulture) explained about the seedlings of horticultural plants kept in the museum so which are grown in the nursery center of KVK. Dr. Shantveerayya SMS (Agricultural Meteorology) explained to the Hon'ble Minister that blockwise weather forecast for the next five days on every Tuesday and Friday will be given to farmers and weather advisories through WhatsApp groups will also be sent to their mobile numbers. After this agriculture minister along with other VIPs visited Trichoderma lab and soil testing lab. The Entomologist, Dr. Prasanna P. M at Tricoderma lab gave the information on manufacture and its sale. Then Soil scientist Dr. Rajakumar G. R. explained about the soil and water testing that is carried out at this laboratory based on which soil health cards have been provided to farmers along with recommendation of fertilizers for various crops. The agriculture minister and other VIPs personally seen the micro nutrient analysis and express that the farmers have to utilise the facilities and expert available at this KVK.





ICAR-KVK, Kalaburagi-II

ICAR-KVK, Kalaburagi-II (Raddewadgi) organized Off-campus Capacity development programme to farmers on Integrated Crop Management of Summer Blackgram, Greengram and IPDM of Safflower and Chickpea crops on 11.01.2022 at DFI Village Rasanagi Tq. Jewargi Dist. Kalaburgi. Dr. N.Manjuntha, Scientist (Agronomy) gave lecture on improved production practice of Summer Blackgram, Greengram, Safflower and Chickpea crops. Further, he explained fertilizer application and irrigation methods and intervals in Chilli and Tomato.

Dr. Basawaraj Kadanavar, Scientist (Agril. Entomology) explained the integrated pest and disease management of Summer Blackgram, Greengram, Safflower and Chickpea. In this program about 28 farmers were participated during the off campus capacity development program including CFLD beneficiaries (Blackgram, Greengram, safflower and Chickpea).





Diagnostic field visit of Groundnut at Nalwar Tq. Chittapur

During diagnostic field visit of Groundnut crop at Nalwar village, Chittapur taluka by the team of ICAR-KVK, Kalaburgi-II scientists on 12-01-2022. It was identified that Groundnut crop damaged by tobacco defoliator, *Spodoptera litura* and leaf minor or webber, *Aproreama modicella*. Hence, it is advised by Dr. Baswaraj, Scientist (Agril. Entomology) based on POP of UAS, Raichur to adopt integrated management approach for these pests as mentioned below.

1. Sowing of castor as a border crop to trap the egg masses of *S. Litura*
 2. Removal of alternate weed host of Groundnut leaf minor
 3. Foliar application of SLNPV 100 LE/ac or 5g Bt or 1g/lt *Namorea relyi*
- Spraying of 2ml/ of Profenophos 50EC or 0.12ml/l spinosad for Leaf minor and 0.2g Emamectin benzoate 5% SG or 0.5ml/lt lambda cyhalothrin 5% EC for *S. Litura*



ICAR-KVK, Kalaburagi-I

ICAR- Krishi Vigyan Kendra, Kalaburagi conducted 19th Scientific Advisory Committee (SAC) meeting on 05.01.2022 under the Chairmanship of Dr. D. M. Chandaragi, Director of Extension, UAS, Raichur. At the outset, the Member Secretary and Dr. Raju G. Teggelli, Sr. Scientist and Head, ICAR-KVK, Kalaburagi-I welcomed the gathering and presented the action taken report of 18th SAC meeting subsequently the activities carried out during the year 2021-22. Dr. M.J. Chandregowda, Principal Scientist & Nodal officer, ICAR-ATARI, Bengaluru; Associate Director of Research, MARS, Raichur; Professor and Head of Departments of UAS, Raichur; Head of departments of agriculture and allied departments of Kalaburagi district; Progressive farmers & Agri-Entrepreneur who are SAC members and invitees attended for the online & offline 19th SAC meeting. Dr. Suresh S Patil, Dean (Agri), Agriculture College, Kalaburagi and Dr. Siddramappa Patil Dangapur, President, District Krishika Samaja, Kalaburagi inaugurated the SAC meeting by lighting the lamp. The Director of Extension, UAS, Raichur in his inaugural speech suggested to agriculture and line departments, FPO's and NGO's collaborated with KVK for transfer of technologies of UAS, Raichur for the welfare of the farmers also directed taking up trainings

and demonstrations activities by KVK on value addition in banana, cereals and millets. The Nodal officer told to emphasize more on One District One Programme (ODOP) in collaboration with line departments and Pulse board, Kalaburagi, compile all the technologies from CFTRI, CIPHET, and other institutes and train the farmer on those technologies also provide market linkages to FPOs for value added products. The President of Krishika Samaja, advised to conduct trainings and demonstrations for youth on Integrated Farming System and marketing of agriculture produce at farmer's field (Gram Panchayat level) in collaboration with line departments. At the end, vote of thanked by Dr. Vasudev Naik, Scientist (Horticulture), ICAR-KVK, Kalaburagi. Finally, all the participants sung national anthem and closed the programme.



GI Tagged GULBARGA TUR DAL LAUNCHED

University of Agricultural Sciences, Raichur, Zonal Agricultural Research Station and ICAR-Krishi Vigyan Kendra, Kalaburagi-I took initiation to launch Geographical Indication (GI) tagged GULBARGA TUR DAL product to the market programme organized on 12.01.2022 at KVK campus in collaboration with Karnataka State Pulses Development Board, Kalaburagi.

The programme was inaugurated by Hon. Vice Chancellor of UAS, Raichur Dr. K. N. Kattimani stressed the need for organizing consultative trainings and workshops for popularize the importance of GI tagged Tur Dal to the farmers to address the marketing related issues being faced by the farming community. Chief guest Dr. Siddramappa Patil Dangapur, President, District Krishika Samaja, Kalaburagi said that it was a historic movement to get a GI tag to Tur being grown in Kalaburagi, and people of this region should publicize and utilize the GI tag tur dal in big way.

In this programme, Honourable Board members and Key officers of UAS, Raichur, staffs of Krishi Vigyan Kendra, Zonal Agricultural Research Station, College of Agriculture, Kalaburagi, Agriculture department officials and Managing Director, Karnataka State Pulses Development Board and more than 65 farmers were participated.



SKRDP Women group exposer visit to KVK

The SKRDP Afzalpur group visited KVK Kalaburagi demo units. Women play a significant and crucial role in agricultural development and allied fields. The nature and extent of women's involvement in agriculture varies greatly from region to region. Rural women perform numerous labour intensive jobs such as vermicompost preparation, weeding, hoeing, Kitchen garden, grass cutting, picking, Redgram and cotton stick collection for organic recycling, seed production, keeping of livestock, milk processing, preparation of ghee, etc. Dr. Zaheer Ahamed, Scientist (Pathology) during his introductory remarks he mentioned it is proud that 60 per cent of works in agriculture were carried out by women only also explained about the various government schemes for encouragement skill development works. Mr. Gundappa, Project Assistant, SKDRDP, Afzalpur and 55 farm women of Kalaburagi district were participated in the programme.



One day training programme on Natural farming

ICAR-Krishi Vigyan Kendra, Kalaburagi-1 organised one day training programme on Natural Farming as part of the "Uttam Kheti-Unnat Kisan" programme on 12.01.2022 at ICAR-Krishi Vigyan Kendra, Kalaburagi campus in association with MYRADA, Kamalapur. Dr. Yusufali, Scientist (Agronomy) in his guest lecture explained about the importance of natural farming and the benefits of adopting integrated farming system and increasing soil fertility through addition of sufficient organic matter to the soil and Dr. Shreenivas B V, (Soil Science) emphasised on importance of soil fertility and suggested the farmers for soil and water testing and use of soil health card to improve soil fertility and crop productivity by adopting new technologies and also encouraging natural farming. Later, Plant Pathologist Dr. Zaheer Ahamed briefed about major disease in pulses and their management and different government schemes for skill development of the farmers and youths. In this programme, Sri Veerabhadra Swamy, programme coordinator, Myrada, Kamalapur and more than 45 farmers and farm womens and KVK staffs attended.



ICAR- KVK, Kodagu

Hands on training on Phalaenopsis orchids

ICAR- KVK Kodagu conducted a training on Phalaenopsis orchids on 12th January 2022 at Kirugoor village of Ponnampet block. Phalaenopsis orchids are known for their potted flowering plants as well for cut flower purpose. The flowers are colourful, good shelf life and fetch higher price in the market. KVK Kodagutried to introduce this orchid among the farm women for additional income in the coffee based mixed farming system of Kodagu district by conducting few front-line demonstrations during the year 2021-22. Each farm woman was provided the tissue cultured hardened potted orchid plants from kvk. The KVK team conducted hands on training on orchids nutrition management, watering, pest and disease management, harvesting, marketing and utility in interior decoration to the women who participated in the programme. Shri. Prabkakar, SMS(Hort.), Dr. Harish SMS (Agrometeorology) and Rashmi Bhanuprakash (Woman entrepreneur) participated as resource persons in the programme.

Study tour under capacity building training programme to Hassan

ICAR-KVK Kodagu organised a study tour under capacity building programme on 11th January 2020. Twenty-five farmers from Ponnampet were taken for visiting demonstration units at Dept. of ILFC, Veterinary college, Hassan ICAR-KVKKandali, Hassan,Animal husbandry polytechnic college, Hassan.Laterthe team also visited Mr. Jagadish, a progressive farmer's sheep and goat farm at Dudda village of Hassan district.During this study tourunder capacity building training programme,various techniques likeselection, breeding, feeding and health management in sheep and goat farming were taught to the farmers. Dr. Suresh S.C, SMS(Livestock) coordinated the whole programme.

Animal health camp to demonstrate Ectoparasite control

ICAR-KVK Kodagu organised an animal health camp at DFI village CherandettiMadikeri Taluk on 5th January 2022. In the animal health camp about one-hundred and two cattle and buffaloes were brought, where Dr. Suresh S.C, SMS(Livestock) demonstrated latest technology in controlling ticks in livestock also gave a treatment for repeat breeding, anoestrous, etc. During the camp Dr. Suresh performed the rectal examination for pregnancy diagnosis, polycystic ovaries etc. About sixty eight famers participated in the camp.



ICAR-KVK, Kolar

Capacity development programme for RAWE students

KVK, Kolar has organized Capacity development programme for 60 RAWE (Rural Agricultural Work Experience) students from College of Agriculture, Chintamani on 3rd & 4th January, 2022. In this programme, the scientists of KVK, Kolar discussed various issues like major successful production technologies interventions by KVK in horticulture crops, soil deterioration and soil fertility enhancement measures, integrated disease and pest management practices in major crops of the districts, introduction about DAMU and Importance of weather forecasting in agriculture. The students were also exposed to IFS unit at Pashwaganahalli, which is supported by KVK, Kolar in various aspects.



Interface meeting with farmers

KVK, Kolar organized interface meetings in different taluks of Kolar in order to discuss major crops grown, area, production and productivity of various crops, major threats in production technology, nutrient management, plant protection and post harvest handling for selection of cluster villages and to prepare action plan. Muthanuru (Bangarpet taluk) on 10.01.2022, Bevahalli (Mulbagilu taluk) on 12.01.2022, Hosahalli (Malur taluk) on 13.01.2022 and Girnahalli (Kolar taluk) on 14.01.2022 villages were visited by KVK Scientists to prepare Action plan and implement programme during 2022-23.



ICAR-KVK, Mysore

Method demo and awareness on Safe Usage of pesticides

ICAR JSS Krishi Vigyan Kendra, Suttur, conducted Method demo and awareness on Safe Usage of pesticides to Farmers, Farm women and pesticide dealers on 11.01.2022.

In this program Smt. H.V.Divya, Senior Scientist and Head (I/C), ICAR JSS KVK, Suttur explained about the precautionary measures to be followed during, before and after the pesticide spray. Unscientific usage of pesticides causes respiratory problem, cancer, allergy, nausea, vomiting etc., Every farmer should wear full armed cloth, glass, glove, mask during the spray. Should not take any food or water during the spray, should not smoke. After the spray Farmer should take bath and wash their cloth with soap.

In this program 40 farm women from SKDRDP and 37 diploma students from DAESI program participated in the program.



Field day on Hebbal Avare (HA4)

Field bean variety HA4 field day has been organized at Arakere village of KR Nagar Taluk in Mysuru district by KVK, Mysuru. During last kharif 2021 season farmers were taught about the seed treatment and precautionary measurement to be taken about seed production of field bean var. HA4. Farmers have been adopted the technologies viz use of traps, use of fungicides, application of neem decoction. With all integrated nutrient and pest management crop registered good yield. Neighbouring farmers have put demand for the seeds for sowing to the next season.

Smt. H.V. Divya, Scientist (Seed Technology) pointed out that the most economical benefit would be from germination. She told the farmers that they would buy a good seed with well dried. Farmers can also store a good seed in their home mix with ash. This variety can be cultivate throughout the year.



Demonstration of value-added products from White Ragi KMR 340 and Foxtail millet DHFt 109-3 under FLD program

On 10th January 2022, ICAR JSS Krishi Vigyan Kendra, Suttur, Mysuru demonstration of value-added products from white ragi and foxtail millet was done at Arakere, K.R. Nagar taluk, Mysuru district. Under Front line demonstration, 2 Self Hef Groups were selected for White ragi value addition and Foxtail millet value addition. Seeds of white ragi KMR 340 and Foxtail millet- DHFt 109-3 were distributed to the selected groups. Mrs. Netravati Yattinamani, Scientist, Home Science demonstrated the white ragi chakkuli, pappad, malt, foxtail millet chakkuli and ladu. Information about packing and labelling was explained and distributed inputs, packing and labelling materials for value addition. About 30 SHG women were participated in the programme.



Latitude: 12.406702
Longitude: 76.389156
Elevation: 795.06±100 m

Desi cow dung and cow urine products training

On the occasion of India @ 75 years celebration, ICAR JSS KVK, Suttur, Mysuru conducted a training on Desi cow dung and cow urine products 11th January 2022 at KVK Suttur. Mrs. Netravati Yattinamani, Scientist, Home Science explained about importance of desi cow, cow dung and urine and products from cow dung urine. She explained about vibhuthi, dhoop stick, mosquito stick, etc from Desi cow dung and shampoo, hair oil, phenyl etc from desi cow urine. Demonstration about Vibhuthi and phenyl making was shown to the SHG women. About 40 SKDRDP SHG women and staffs were participated in the programme. After the programme, SHG women visited KVK demo units.



Latitude: 12.148009
Longitude: 76.1922719
Elevation: 659.64±100 m
Accuracy: 5.1 m
Time: 11-01-2022 12:11
Note: Desi cow products training

ICAR-KVK, Raichur

Sunflower Field Day:

Field day of sunflower was conducted by ICAR-krisi Vigyan Kendra, Raichur on 12th January 2022 at Feersab's field of Arakera village, Devadurga taluk, Raichur district. At outset, Dr. Pralhad, Senior Scientist and Head, welcomed the farmers and explained need of conducting such field day at Arakera village and also urged the farmers to grow oil seed crops amidst increasing edible oil demand.

Dr. S.N. Bhat, Scientist (Soil Science), narrated the importance of integrated crop management in sunflower and advised the farmers to adopt integrated crop management practices involving soil test based nutrient management and need based pesticide usage with more emphasis on physical and biological control of pests. Dr. Bhat also gave some

important tips to augment the sunflower productivity and also praised efforts of shri Feersab who has been cultivating sunflower every year following crop rotation. This field day was ended with vote of thanks and informed to the farmers of Arakera village to make use of such fun



ICAR-KVK, RAMANAGARA

The 10th Scientific Advisory Committee meeting of ICAR-KVK, Ramanagara District was held on 11th January 2022, under the Chairmanship of Dr. S. Rajendra Prasad, Hon'ble Vice-Chancellor, UAS, Bangalore. In the introductory remarks, the chairman of the SAC, briefed the mandates of KVK and the purpose of conducting the SAC meeting. Senior Scientist & Head, KVK, Ramanagara, Dr. Savita S. Manganavar, presented the action taken report on the recommendations of 9th SAC meeting and mandated activities of KVK such as On-Farm Testing, Frontline Demonstrations, Capacity building programmes and extension activities carried out from past one year and action plan for 2022-23. Dr. Devkumar, Director of Extension, UAS, Bangalore highlighted to take up need based activities to enhance the productivity. Dr. Timmappa, Principal Scientist, ATARI Zone-XI briefed about scope of millet processing and value addition for enhancing farm income and suggested to encourage the farmers for exporting agricultural produce. After detailed discussions suggestions were given by the other members of SAC. Hon'ble Vice-Chancellor of UAS-B, in the concluding remarks suggested to produce quality produce and also to support farmers in doubling their income through appropriate advanced technologies emphasising secondary agriculture, mechanization & cost reduction technologies and also highlighted about importance of Natural farming.



On this occasion, KVK sales unit was inaugurated by Hon. Vice chancellor and other dignitaries, *Rashi pooja* of Finger millet and Brown top millet was carried out and five extension folders were released. Dr. K. Narayagouda, Associate Director of Extension, UAS, Bangalore, Dr. Niranjanmurthy, Associate Director of Research, UAS, Bangalore, Scientists from IIHR, NBAIR, Line Department Officials, Neighboring KVK Scientists, UAS-B officials and progressive farmers participated in the meeting.



ICAR-KVK, Shivamogga

Awareness and Training programme on “Use of energy efficient pump sets and water conservation technologies in agriculture”

ICAR-Krishi Vigyan Kendra, Shivamogga conducted Awareness and Training programme on “Use of energy efficient pump sets and water conservation technologies in agriculture” on 11th January 2022. **Dr. Hanumanthaswamy, B.C.**, Senior Scientist & Head, KVK, Shivamogga has invited the dignitaries and given the primacy address on the programme. Hon'ble Vice chancellor of the KSNUAHS, Shivamogga **Dr. M. K. Naik** inaugurated the programme in his inaugural address he mentioned the purpose and importance of water and energy conservation in agriculture for future generations. In remarks he educated and stressed the farmers to know about the importance of rain water harvests. **Dr. Hemla Naik**, Director of Extension, KSNUAHS, Shivamogga presided over the programme and given information on importance in use of energy efficient pump sets in water lifting and urge farmers to adopt new scientific technologies in agriculture for better livelihood. In the programme **Dr. R. C. Jagadish**, Dean (Agri.) and Campus Head, College of Agriculture, Shivamogga and **Dr. S. U. Patil**, Associate Director of Extension, KSNUAHS, Shivamogga were participated as Guests. .

Sri. Devaraj Reddy, State Planning Commission Member and Water Specialist, Chitradurga participated as resource person and delivered the lecture on “Importance of water conservation in Agriculture ” with aims to raise awareness on importance of maintaining healthy ecosystems and human well-being by encouraging societies to conserve soil and water through efforts to tackle water scarcity which cause serious problems for future generations. **Sri. Dinesh Kumar**, Technical Officer, Karnataka Renewable Energy Development Board, Bengaluru, also participated as a resource person and delivered the lecture on “ Use of energy efficient pump sets in irrigation water lifting” with aims to raise awareness on importance of using energy efficient pump sets and and urge farmers to adopt the renewable energy sources like solar power generators. During the programme, farmers – Resource Persons interaction was held. Participated farmers were taken to

KVK demonstration plots to show the different types of cropping patterns, soil and water conservation techniques, and intercrops. Totally, 135 farmers were participated in the programme. All the scientists and staffs of KVK were also present in the programme.



ICAR- KVK, Tumkur-1

**CELEBRATION OF FARMERS DAY & FIELD DAY
On PIGEON PEA AT SHIVARAMANAHALLI, TIPTUR,
TUMKUR DISTRICT**

ICAR- KVK Tumkur-1 organized “National Farmers Day-2021” & “Field Day on Pigeon pea” at Shivaramanahalli, Tiptur taluk on 23rd December 2021 under climate smart agriculture programme of Department of Ag'l Extension in collaboration with AICRP on pigeon pea UAS, Bangalore. The programme was inaugurated by Dr. Indrapraksh Singh, Project Coordinator, IIPR, Kanpur, UP. The chief guests are Dr. Shivalingaiah, Professor of Ag'l Extension, Dr. Lohithashwa Pigeon pea Head and Dr. V. Govinda gowda, Senior Scientist and Head, KVK, Tumkur1. Sri Shivanna and Mallesh Farmers leaders were also participated. 60 farmers participated in the programme. The crop seminar on Pigeon pea was organized. Dr. Keshava Reddy, Entomologist and Dr Srinivasa, Pathologist conducted the crop seminar. Field day pigeon pea crop organized in Mallesh field where 60 farmers witnessed the growth status of the crop. On the eve of Farmers day Essay competition was organized for college students on “Importance of Agriculture in Rural Development. Totally 15 students participated in the essay and 4 prizes were distributed.

Final year B.Sc (Hons.) Agriculture student placement in KVK under student READY programme

Under student READY programme the final year B.Sc (Hons.) Agriculture students of UAS, Bangalore was placed in ICAR- KVK Tumkur-1 for the duration of 05 days. Totally, 60 students were placed in KVK in 02 batches from 20th to 24th December and 27th to 31st December 2021. Intensive practical exposure was provided to the students. Dr. Govinda Gowda V., Senior Scientist & Head of KVK oriented the students on KVK genesis, mandates and objectives. The SMS of KVK trained the students on diagnosing the pest & diseases of nutrition garden establishment, soil sampling and its analysis of different farm lands, campaign on Swachata Pakwada and also participated in essay writing competition on the occasion of Swachata pakwada and farmers day.

Celebration of Swachata Phakwaada in KVK Tumakuru from 16th to 31st December 2021

ICAR- KVK Tumkuru-1 celebrated the swacha bhārata abhiyan pakwada from 16th December 2021 to 31st December 2021. The fortnight long celebration started with pledge taking ceremony by all the staff members and students of Diploma in Agriculture on 16th December 2021. Thereafter cleanliness drives in and around the KVK premises was conducted. Other activities undertaken are, live demonstration on vermi composting of bio degradable waste, conducted rally to creation of awareness on swachata abhiyan through Jata essay writing competition was organised, seminar on green farming by converting agriculture waste in to compost. the overall programme was conducted under the chairmanship of Dr. V. Govinda gowda, Senior Scientist and Head, KVK, Tumkuru-1



ICAR- KVK, Tumkur-2

National Water Award for ICAR-KrishiVigyan Kendra, Tumakuru, Karnataka

ICAR-KrishiVigyan Kendra, Hirehalli, located in Tumakuru district of Karnataka is one of the KVKs which is involved in the Technology Demonstration Component (TDC) of the project - National Innovations in Climate Resilient Agriculture (NICRA) since 2010. This is an ICAR sponsored project, executed through ICAR-Central Research Institute for Dry land Agriculture, Hyderabad, supported by ICAR-Agricultural Technology Application Research Institute, Bengaluru. This project is being implemented in the D.Nagenahalli village of YelerampuraGrama Panchayat, KolalaHobli, Koratagere Taluk, Tumakuru District, Karnataka. Over the past 10 years various climate resilient activities were carried out in the four components of the project, viz., Natural Resource Management (NRM), Crop Production, Livestock and Fisheries and Institutional Interventions. Under NRM component, considering the potential for farm ponds, 81 new farm ponds were created in the village. Trench cum bunds and contour bunds were created in 124 ha which resulted in increased moisture content to sustain the crops during intermittent dry spells, benefitting around 112 farmer's. Tank silt was applied to fields to increase soil in-situ moisture conservation in 45 ha benefitting 61 farmers.

In addition mixed forestry species *Meliadubia*, *Acacia auriculformis*, Teak and Silver oak seedlings were planted on trenches in 27 ha. Dryland horticulture crops Tamarind (Gottipura/PKM1), Mango (Alphonso), Aonla (NA5/7/Krishna/Kanchana), Cashew (Ullal-3/5), Jamun (Doopadal) were planted in 16.5 ha area. The tree based farming has been increased to more than 200% in the village. In addition drought tolerant and short duration Finger millet ML-365, GPU-28, GPU-48, KMR-630 varieties, short duration and late sowing Pigeon pea BRG-2 and BRG-4 varieties, water efficient Aerobic Paddy MAS-26, Paustic-9 varieties, intercropping systems were

National Water Award for ICAR-KrishiVigyan Kendra, Tumakuru, Karnataka

demonstrated in 180 ha played a major role in climate resilience in the available rainfall pattern. Around 214 farmers were adopted these water efficient cropping pattern. These activities are being monitored by Village Climate Risk Management Committee (VCRMC) constituted by the village farmers. Considering all these water conserving activities, the ICAR-KrishiVigyan Kendra, Tumakuru and the YelerampuraGrama Panchayat were awarded '**Best Village Panchayat**'-South Zone, **First Rank** under **3rd National Water Awards-2020**, by **Ministry of Jal Shakti, Government of India**. Dr. G. Parameshwara Ex Deputy CM and MLA, Koratagere has visited the YelerampuraGrama Panchayat, D.Nagenahalli NICRA Village on 11th Jan 2022 and appreciated work done and congratulated the team ICAR-KVK, Hirehalli for winning 3rd National Water Award-2020 and witnessed the water storage structure and dry land horticulture crops demonstration under, NICRA Project, KVK, Hirehalli, Tumakuru



ICAR-KVK, VIJAYAPURA-II

On Campus training on nutrient management in Onion and Groundnut:

A Training programme on nutrient management in Onion and Groundnut was organized on 07.01.2022 at ICAR KVK Vijayapura-II (Indi) in this training programme 48 participants of Bhairunagi, Manankalgi of Indi taluka and Navadagi village of Sindagi taluka were participated. It is suggested to farmers to apply 16 kg sulphur per acre to enhance the yield and keeping quality.

FLD follow-up field visits and group discussion on 11.01.2022

Dr. S.S. Anjum Scientist (Plant Pathology) and Dr. Santosh Shinde, Scientist (Animals Science) were visited the FLD chilli fields at DFI village Bairungi and the farmers were suggested to go for eco-friendly integrated management of murda complex diseases in chilli and also a group discussion was held to aware the farmer about Nutri-garden and their health benefits.

Diagnostic field visit at tamba village indi taluka on 12.01.2022

Dr. Savita B Scientist (soil science) and Dr. S.S. Anjum Scientist (Plant Pathology) visited grape orchard affected with grape mummification and late Downy Mildew symptoms. Farmers were suggested to go for spray with calcium and magnesium (2-3 sprays) @3g/litre of water for mummification and suggested to cover the crop canopy and spray with dimethomorph @1g/litre for control of secondary infection of Downy followed by spray with bio-agent Trichoderma at 2-3ml/litre after few days of chemical spray.

Awareness on deworming and vaccination in goat as a part of FLD.

Dr. Santosh Shinde, Scientist (Animals Science) visited two goat farms on 13.01.2022 at DFI village Navadagi of Sindagi Taluka. As a part of FLD on integrated health management in Goats supplied the inputs like dewormers, growth promoters and different vaccines against various diseases. Further, created awareness on importance of deworming and vaccination in Goats to achieve higher productivity and income. More than 10 farmers were benefitted by the programme.

Vijaya Karnataka Super Star Award at KVK Indi on 06.01.2022

District level Vijaya Karnataka Super star award function was held at KVK Indi seven (7) farmers were awarded in which three (3) farmers are farm Indi taluks and all are of KVK contact farmers. Sri Yashwantraya gowda Patil, MLA Indi presided the function and Dr. R.B. Belli, Associate Director of Extension, A.E.E.C. Vijayapura was gave guest lecture on opportunity and challenges in agriculture.





ICAR - KVK, Belagavi-1

THREE DAY TRAINING PROGRAM ON "SCIENTIFIC SHEEP & GOAT FARMING"

ICAR BIRDS Krishi Vigyan Kendra, Belagavi-1 conducted three day training program on sheep and goat farming for forty farmers of different age group including farm women from 10th – 12th January 2022. Training program was sponsored by ICAR-ATARI under "capacity building of farmers through training programs". The training program included- theory, practical and exposure visits. The theory topics covered during training were housing, feeding, animal selection, vaccination and disease management. Under practical, silage making, hydroponics cultivation and azolla cultivation were demonstrated. Also farmers were demonstrated 18 fodder varieties maintained at KVK demo unit. Under exposure visit, farmers were taken to nearby farms maintained by farmers that were of low investment with high returns and high investment with high returns. After successful completion of training, farmers were given training completion certificate.

TRAINING ON "AQUACULTURE FARMING AND THEIR SCIENTIFIC MANAGEMENT"

NFDB and MANAGE, Hyderabad jointly sponsored 5 days Training on "Aquaculture farming and their scientific management" for schedule caste farmers of Belagavi district was conducted from 11th to 15th of January 2022 at ICAR-BIRDS KVK, Belagavi -1. The 5 days training program consist- theory, practical and exposure visits. The following topics are Composite fish farming, seed rearing, disease management, water quality management and entrepreneurship opportunities were dealt in the training. A total of 30 schedule caste farmers from different parts of Belagavi districts are benefited from this training.



ICAR - KVK, Belagavi-2

Training and Awareness programme on Energy Efficient Pumpsets and Water Conservation

Krishi Vigyan Kendra in association with Karnataka Renewable Energy Development Ltd (KREDL) organized training cum awareness programme on Energy Efficient Pumpsets and Water Conservation at its campus on 13.01.2022. Mrs. Sridevi B. Angadi, Senior Scientist & Head welcomed the dignitaries and participants. The programme was inaugurated by Shri. B.R. Patil, Director, KLE Society and Chairman, KVK, Mattikopp. In his inaugural address, he emphasized on the need for adoption of energy efficient pump sets in agriculture as there is huge gap between demand and supply of electricity in India. Presiding over the event, Dr. V.I. Patil, Director, KLE Society & President, CADA (M & L), Belagavi, felt that a large area of agriculture lands in Belagavi district has become saline and alkaline due to faulty irrigation practices. In this connection, he called on farmers to adopt scientific irrigation practices that will ensure judicious use of water and avoid soil salinization.

Speaking on the occasion, Dr. R.R. Hanchinal, Former Chairperson, Protection of Plant Varieties & Farmers' Rights Authority, Ministry of Agriculture and Farmers Welfare, Govt. of India, New Delhi and Former Vice-Chancellor, UAS Dharwad expressed that due to frequent climatic variations, the farmers are facing threat in agriculture production system and incurring loss. In view of this, he addressed farmers to minimize the use of chemicals like fertilizers, pesticides and use soil and water on scientific approaches and practicing of scientific approaches in soil and water management to maintain balanced production system and environment. Shri. Anil Joshi, Branch Manager, Aquasub Engineering, Hubballi delivered lecture on energy efficient pumpsets. He highlighted advantages of BEE star rated pump sets and solar pumpsets to conserve energy in agriculture sector. S.M. Warad, Scientist (Soil Science), KVK, Mattikopp briefed importance of water conservation, ill effects of excess use of water and water conservation measures. Shri. G.B. Vishwanath, Scientist (Agronomy) explained efficient irrigation methods and their advantages in agriculture. More than 145 farmers participated from different taluks. Dr.S.S. Hiremath, Scientist (Plant Protection) delivered vote of thanks.

. Training on Promotion of Fodder Production Technologies for getting higher Milk Productivity in Dairy Animals

Krishi Vigyan Kendra, Mattikopp conducted capacity building programme through training programmes on Profitable Dairy Farming & Livestock Management. During 3-5 January, 2022. KVK conducted 3 training programmes at KVK campus on three different topics separately for farmers & farmwomen. The three training programmes conducted are 1. Scientific dairy farming and entrepreneurship development with participation of 44 farmers & farmwomen 2. Scientific broiler and layering poultry farming with participation of 41 farmers & farmwomen and 3. Scientific sheep and goat farming in which 48 farmers & farmwomen participated.

Besides this, a training programme on Promotion of fodder Production Technology for Getting Higher Milk Productivity in Dairy Animals was conducted during 10-12 January, 2022 at KVK and 44 farmers & farmwomen participated and gained knowledge on fodder production for enhancing the milk productivity. Dr. B.M. Gomadi, Dr. H.B. Veeresh, Dr. Ashok D. Durgannavar, Dr. Sudarshan Gadad and Dr. M.B. Patil participated as Resource Persons and delivered lectures and interacted with farmers on related topics. Dr.S.S. Hiremath, Scientist (Plant Protection) coordinated the training programmes.

Training programme for CADA farmers

KVK organized two days on-campus training programme on Agricultural Technologies to command area farmers of Ghataprabha Irrigation project during 11-12 January, 2022. The programme was inaugurated by Shri. Suresh Mathapati, President, Raita Spoorthi Farmers Producer Organization, Naganur, Gokak taluk. In his inaugural address expressed that, two days training is most relevant in the context of increasing salinity in command areas due to unscientific irrigation by farmers. Presiding over the inaugural function, Mrs. Sridevi B. Angadi, Senior Scientist & Head said that the training will focus on educating farmers on scientific irrigation and management of saline and alkaline soil by expert scientists. During the technical session, Mrs.

Sridevi B. Angadi delivered lecture on processing & value addition of minor millets, S.M.Warad, Scientist (Soil Science) spoke on command area development and irrigation management, roles and responsibility of water user co-operative societies, reclamation of saline and alkaline soils and organic farming and INM practices. G.B. Vishwanath, Scientist (Agronomy) dealt on agronomic practices of cotton, maize, jowar, wheat and bengal gram. Dr.S.S. Hiremath, Scientist (Plant Protection) interacted with farmers on IPDM in cotton, maize, jowar, wheat and bengal gram. Praveen Yadahalli, Scientist (Horticulture) highlighted production technologies of banana and chilli, while Dr. Sudarshan Kittur, Veterinary Officer discussed on

Praveen Yadahalli, Scientist (Horticulture) highlighted production technologies of banana and chilli, while Dr. Sudarshan Kittur, Veterinary Officer discussed on production technologies of fodder crops in command areas. Fifty command area farmers from



ICAR-KVK, Alappuzha

Cluster FLD on oil seeds (Sesamum) initiated

Sowing of Sesamum for the Cluster Front Line Demonstration programme on oil Seeds was inaugurated by Smt. Rukmini Raju, President, Harippad Block panchayath on 12th Januray, 2021 at Munjanattu padasekharam of Pallippad panchayath. The demonstration, as part of the NFSM programme of Government of India, is taken up in 20 ha area in Pallippad and Cheruthana panchayaths of Harippad Block and Thekkekkara panchayath in Mavelikkara block in Alappuzha district. Technologies like high yielding Sesamum variety TMV-7, secondary and micro nutrient management for enhancing the soil fertility, and sprinkler irrigation at critical stages like 2-3 leaf stage, branching, flowering and pod formation are included in the demostration. Dr. P. Muralidharan, PS and Head, ICAR-KVK-Alappuzha briefed about the implementation of programme in the presence of Smt. Ajitha Aravindan, President, Pallippad Panchayath; Sri. George Varghese, Smt. Santhy Krishna, Standing committee chairpersons of Harippad Block; Smt. Mani S Nair, Member, Pallippad panchayath; Sri. Rajeev M S, SMS (Agronomy); KVK, Sri Shaji, Agricultural Officer, and Sri. Surendranath, farmer leader. More than 40 farmers associated with the demonstration attended the programme.

Skill training on “Small Poultry Farmer” completed

Skill Training programme on “Small Poultry Farmer” for 20 participants (15 men and 5 women) including farmers, rural and gulf returned youth concluded on 05.01.2022. The trainees were exposed and oriented to Egger nursery, Broiler farming, Layer farming, and Alternative poultry faming such as Quail, Turkey, Goose, and Duck farming during the 30 days programme. Various skill activities like poultry vaccination, de-beaking, poultry meat processing, incubator and hatchery management were trained to the participants. In addition, modules on farm licensing, Banking & Financing, safe handling of meat with emphasis on public health were also arranged with resource persons from Animal husbandry, banking and public health departments. Exposure visits were arranged to different government farms and progressive farmers' field during

this programme to obtain firsthand experience. The trainees were very happy and satisfied with the exposure obtained and skills learned and expressed confidence of establishing enterprises with continued technical support.



ICAR-KVK, Calicut

Field day on Milk fish harvest

Milk fish (*Chanos chanos*) leaping out of water was a treat to the eyes and witnessed the bumper harvest of milk fish on 8th January 2022 at National Aqua Farm, Atholi, Kozhikode, Kerala. Mr. Manoj K.K. is a KVK nurtured farmer with IARI innovative award winner and recipient of many awards stocked 15,000 milk fish seed in brackish water pen of 0.3 ha water spread area adjoining Korapuzha River which had attained average body weight of 850 g in 8 months. The harvest was inaugurated by Honorable MP Shri. M .K Raghavan in the presence of Smt. Sheeja Sasi, District Panchyath President, Kozhikode. Dr. P. Ratha Krishnan, KVK head, Smt. Ranjani Deputy Director Fisheries and Mrs Sheeba Ramachandran, Grama panchayat President, Atholi are special invitees. r. B Pradeep, SMS Fisheries KVK narrated the Milk fish cultivation methods and background of this harvest. Another highlight of the farm is selling of fishes immediate after harvest using gill net and is directly sold to buyers at a farm gate price of Rs.350/Kg.



Cluster demonstration on Tanjore wilt management and Jeevamrutham preparation

Awareness programmes and field level demonstration was conducted by KVK to control Tanjore wilt in coconut at Elankamal, Naduvannur, Kozhikode. Cluster basis of Integrated measures to curtail the disease was emphasized to farmers and drenching of

Hexaconazole 5EC @ 80ml in 40L water per palm was demonstrated at farmers' fields. Similarly, as an effort to promote natural farming three days capacity building programme on "Livestock waste based organic preparations and their use in organic farming" was organized at KVK for forty participants including 2 women and one general SHGs who practice organic vegetable cultivation on commercial scale. The trainees were given on hand learning experience in the preparation of various preparations like Jeevamrutham, Vermicompost, etc.



ICAR-KVK, Ernakulam

ERNAKULAM KVK DEMONSTRATES PROFITABLE CAGE FISH FARMING FOR LANDLESS FARMERS

The Krishi Vigyan Kendra Ernakulam of ICAR-Central Marine Fisheries Research Institute, Kochi in collaboration with Palliakal Service Cooperative society, Ezhikkara demonstrated a lucrative model of fish farming for landless farmers. The cage fish farming was done in Veerampuzha backwaters, a public water body near Ernakulam, Kerala. The KVK initially conducted an entrepreneurship development programme for the farmers and subsequently conducted a series of follow up trainings and provided constant technology backstopping while the Society provided low interest loan to meet the farming cost. Ten metric tons of fish worth INR 50 lakh were produced by group of 30 landless young farmers during this year. Asian Seabass, Pearlsnapper, Red Snapper, Giant Trevally and Tilapia were the species farmed. This is the consecutive 4th year, KVK-society partnership is proving this cage fish farming model a success. Marketing being the major issue faced by farmers, the Society with guidance of KVK organized a fish tourism mela during this Christmas season where live, fresh, ready-to-cook and ready-to-eat fish varieties were made available to consumers. Wide coverage in various media attracted large number of consumers and the 4 days mela could market 2.3 MT fish worth INR. 12 lakhs. The major advantage of the mela is that this arrangement could avoid middle men and also transportation expenses thereby farmer could realize 20 per cent additional profit.

PM Kisan Samman Nidhi Fund Release webcasted
The PM Kisan Samman Nidhi Fund Release was done by Honorable Prime minister Shri. Narendra Modi in a National level programme held via video conferencing on 1st January 2022. KVK Ernakulam webcasted this programme for farmers of Ernakulam at Karumaloor. Progressive farmers and members of Kisan Service Society participated. Dr. P. A Vikas Subject Matter Specialist explained role of Farmer producer organizations (FPOs) on enhancing income and reaping higher profits from Agro enter



ICAR-KVK, Idukki

METHOD DEMONSTRATION ON MIXING AND ENRICHMENT OF POTTING MIXTURE FOR BLACK PEPPER NURSERY

Method Demonstration on mixing and enrichment of potting mixture for black pepper nursery was conducted at farmer's field of Udumbanchola. In Black pepper nursery the percentage recovery of plants is very less due to fungal infection. The Plants start yellowing at young stage itself and lose its pest and disease resistivity. An awareness was created among farmers on use of different potting mixtures for producing healthy planting material in Black Pepper. The different potting mixtures enriched with bio-inoculants may reduce the percentage incidence of fungal infection as compared to normal media. Method Demonstration was conducted by demonstrating mixing of Coir-pith compost + Soil + VAM + Trichoderma. The procedure was made aware by demonstration in the field BY Ms. ManjuJincy Varghese, SMS (Soil Science)



ICAR-KVK, Kannur

Training on Health Management of Livestock

As part of the capacity building of farmers through training programmes on profitable dairy farming and livestock management, training on Health Management of Livestock was conducted from 10 to 12 January 2022 at KVK Kannur. Classes on Livestock management in summer season, Parasitic diseases in animals, Diseases of domestic animals, Vaccination in livestock were handled by subject matter specialists in animal husbandry of Kerala Veterinary and Animal Sciences University and Kerala Agricultural University. Forty farmers/farm women participated in the capacity building programme and online face to face interactive session of dairy farmers with experts was also organized as a part of training.



ICAR-KVK, Malappuram

Demonstration of Betaine supplementation to alleviate thermal stress in dairy cows

Stress management is very crucial in case of dairy farming, because whenever the animal is in stress, it will ultimately affect its productivity. Field level demonstration on supplementation of amino acid "Betaine" for stress management in lactating dairy cows was initiated by KVK, in order to familiarize the technology among dairy farmers. Betaine is also expected to improve feed utilization and reproductive performance of the animal as well.



Practical classes of INM course for fertilizer dealers (12th batch)

Three days capacity development programme on integrated nutrient management for fertilizer dealers was conducted at KVK Malappuram from 6/1/2022 to 10/1/2022. The six sessions on various composting technologies viz., vermicomposting, coir pith composting, *Trichoderma* enrichment, soil sampling, soil test based fertilizer application, biofertilizers, & in situ organic input production were included in the programme. Thirty participants were trained in the programme.



Enhancement of income from dairy farming through practical management

KVK Malappuram conducted three days training programme for dairy farmers on 4th to 6th January focusing on enhancement of income from dairy farming through practical management. First day sessions covered various aspects such as introduction to dairy farming and general management, selection of animal and housing. Second day a sessions were fodder cultivation, health care and disease control. A exposure visit to Dairy farm of Veterinary University was organised on third day and practical sessions were carried out including silage preparation and demonstration of silage making.



Field day conducted at Kambram Padasekharam , Aalipparambu Village

Field day and harvesting of high yielding paddy varieties was conducted in Kambram Padasekharam of Alipparambu Panchayth as a part of assessment of medium duration high yielding Paddy varieties under Rice - Amorphophallus cropping system. The programme was held under the supervision of Ms. Prasanthi K. SMS Agronomy KVK Malappuam. The good agricultural practices in the cultivation & yield attributing traits of paddy were explained to farmers. The biometric data were also collected from the fields.



ICAR-KVK, Trivandrum

Farmers' Seminar on Energy Efficient Pump sets and Water Use Efficiency

Energy efficiency is an integral part of sustainable energy management. Reduction of energy consumption is a necessity to decouple it from economic growth. Thus, improvement of energy efficiency in agricultural practices is essential to reduce energy demand and consequently reduce costs. Further, improved energy efficiency reduces reliance on fossil fuels and therefore contributes to reducing GHG emissions.

ICAR – KVK, Mitraniketan, Velland, Thiruvananthapuram, in association with Energy Management Centre, Sreekariyam , Kerala conducted

seminars on Energy Efficient Pump sets and Water Use Efficiency on 07/12/2021 and 10/12/2021 for farmers at KVK in two batches of 25 farmers each.

The session was handled by Mr Suresh Babu B V, a BEE-Certified energy auditor and EMC Resource person. During the sessions thrust was given on designing pumps and solar panel capacity required for their operation. Details of Pradhan Mantri Kisan Urja Suraksha evam Utthan Mahabhiyan (PM KUSUM) Scheme were imparted to the participants and they were made aware of the advantages of renewable energy sources. Pumping of water by harnessing solar energy was attractive to farmers. Solar water pump offers a viable alternative to electric irrigation pumps and a promising option for small and marginal farmers.

The participants showed interest to implement and utilize the PM Scheme for agricultural sector.



ICAR-KVK, Palakkad

Skill development programme for farmers of Attapady ICAR-Krishi Vigyan Kendra Palakkad with the collective association of Department of Agriculture and Farmers welfare, Extension and training centre, Attapady and Block level agriculture knowledge center (AKC) conducted skill development trainings for farmers of Attapady. Two trainings were conducted, one at Pudur and another at Sholayurpanchayath. Farmers of Pudur were familiarized on methods such as stone grafting in mango, approach grafting in jack, air layering in guava, serpentine layering in pepper, and patch budding in rambootan. Dr. Resmi J, Assistant Professor (Horticulture), KVK Palakkad gave a brief introduction to the topic. Hands on training was given by Sri. Biju S, (Skilled Assistant, RARS Pattambi). Dr. Darsana S, Assistant Professor (Agricultural Extension, KVK Palakkad) and Sri, Rejith, Agricultural Officer Pudur participated in the programme. A capacity development programme on pepper cultivation was conducted by Dr. Sreelakshmi K, Assistant Professor (Agronomy, KVK Palakkad) at Sholayur Panchayat. A total number of sixty trainees attended the sessions.





'Tryonce' Startup for fresh packed milk at urban areas-A success story

TryOnceAgro Pvt Ltd a farmer collective from Palakkad is launching door delivery of fresh milk in glass bottle across Kochi. Initiative is led by Sri. Swaroop Kunnampully, a young organic farmer of Palakkad. He is also a recipient of KarshakaPrathibha award for the best student farmer of the state and many more to name. Swaroop, an MTech Graduate is practicing organic farming and is quiet interested in agriprenuership. This startup came from the idea of providing fresh, environment friendly and healthier alternative of milk to urban areas, where the provision of getting milk directly from the farm is challenging. This initiative was launched in the year of 2020. Milk is collected from farmers of Kanjikode under TryOnceAgrofarmers society. The collective has over 100 indigenous cows, where they have been following traditional method of cattle rearing and providing organic feed for the cattle. Daily an average of 300-350 l milk is collected. Once the milk is sourced, they completely waive practices like homogenization and adulteration. Only pasteurized milk

Delivery executives of TryOnce distribute the bottles and on next day collect back the bottles after use. Processing and packing unit of the company is located at Kanjikode of Palakkad district. Now, TryOnce is being delivered to more than 500 households of Ernakulam and Palakkad District in 500 and 1000 ml bottles costing around Rs. 40 and 70 respectively, which is inclusive of delivery charges. Byproducts like curd, paneer, ghee and kova is produced for customers. Sri. Swaroop is backed by a team of his farmer friends from various profession and academics. The initiative is beneficial for urban households to get quality milk at doorstep. They are now trying to expand their business to other districts of the state. Innovativeness of company and quality of products has been highly accepted by the consumer society.

ICAR-KVK, Thirssur

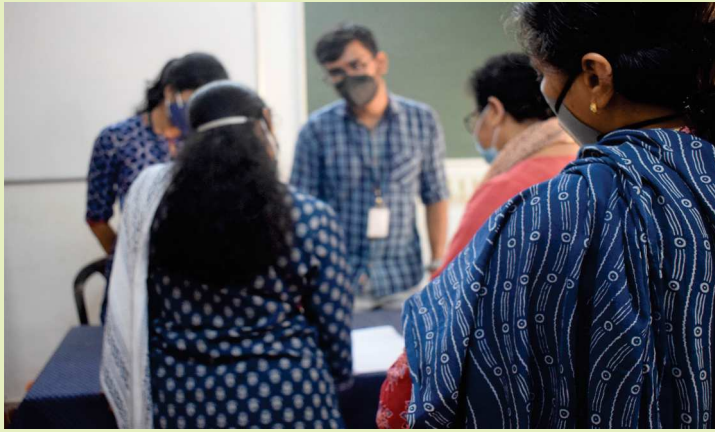
The Directorate of Extension, Kerala Agricultural University organised an agricultural exhibition and market fair "Rathiri Vipani" as part of the new year celebrations from 1st January to 3rd January 2022 at its campus at Mannuthy. Krishi Vigyan Kendra, Thirssur being one of the participating institution of the fair, opened a counter for the dissemination of knowledge and sale of agricultural inputs and chicks of BV-380 and Gramasree breeds.

"Swachhtha Pakhwada" Quiz programme

A quiz competition for the staff of Krishi Vigyan Kendra, Thirssur on cleanliness and general agricultural practices was conducted to create awareness as part of the Swachhtha campaign. The members of the institution actively participated in the competition and the winners were awarded and congratulated.

Covid Awareness Programme

A Cookery Competition on the theme "Value addition of milk for better price" was conducted on 7th January 2022 as part of Bharath Ka Amruth Mahotsav. Milk products on the bases of their novelty, quality, presentation and scope of marketing were evaluated and Mr. Anoop V., Ms. Krishna Kavitha K.S., and Mr. Harisankar P.V., Final year students of B.Tech, Dairy Technology, College of Dairy Science and Technology, Mannuthy Thirssur bagged the first prize on the event.



ICAR-KVK, Wayanad

KVK Wayanad organised Technology week “Pratheeksha 2021” in convergence with [ATMA](#) Wayanad and Department of Agriculture. Training programmes on fodder grass, pepper, banana, passion fruit, pisciculture, animal husbandry were dealt during the week. The seven days programme was inaugurated by Smt. Hafsath C.K, Ambalavayal Grama Panchayath President. Dr. Allan Thomas, Programme Coordinator, KVK Wayanad welcomed the gathering. Presidential address was given by Dr. Jayasree Krishnankutty, Director of Extension, KAU. On initial day, seminar on fodder grass was dealt by Dr. Usha C Thomas, Associate Professor and PI, AICRP on Forage crops, RARS(SZ),Vellayani. Competitions on quiz, painting and postersto VHSE students and competition on value added products using millets were also organised. Distribution of pepper seedlings to the farmers was inaugurated by Sri. C Asainar, Block Panchayath President, Sulthan Bathery. Classes on pepper was dealt by Dr. Sreekumar K.M, Professor and Head, College of Agriculture, Padannakkad. Seminar on “Entrepreneurship in livestock sector- Opportunities and challenges” was handled by Dr. Deepak Mathew, Assistant professor and Head, KVASU, Pookkode. Sri Ashique Babu C., Fisheries Extension Officer, Wayanad lead classes on “Entrepreneurship in pisciculture, opportunities and challenges”. Distribution of goat kids to tribal families was inaugurated by Sri. Sobin K.K, Sub Inspector, Ambalavayal Police station. Classes on Integrated crop management practices of Passion fruit and Banana were dealt by Assistant Professors of KAU, Dr. Meera Manjusha and Dr. Radhika N.S. Farmers who had done remarkable contributions in their field were also felicitated during the technology week.

The closing ceremony of Technology week was inaugurated by Sri. I C Balakrishnan, Honorable MLA, Sulthan Bathery. The meeting was presided by Dr. Madhu Subramanian, Director of Research KAU. Sri. I C Balakrishnan, Honorable MLA, Sulthan Bathery distributed Beebox and bee colonies to trainees who attended beekeeping training and small farm implements to tribal farmers as a part of tribal village adoption program in collaboration with AICRP on Forage crops and utilization. The Honorable MLA opined that the Technology week will help to boost the confidence of

farmers who were severely affected by drastic climate change, price decline, market fluctuation and restrictions due to Covid- 19 pandemic. He also told that skill developing capacity building programs and exhibition of innovative technologies will guide the farmers to resume their farming activities in full swing. The programme ended with vote of thanks by Dr. Safia N.E, Assistant Professor, KVK Wayanad.

decline, market fluctuation and restrictions due to Covid- 19 pandemic. He also told that skill developing capacity building programs and exhibition of innovative technologies will guide the farmers to resume their farming activities in full swing. The programme ended with vote of thanks by Dr. Safia N.E, Assistant Professor, KVK Wayanad.




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Azadi Ka
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USPs of Davanagere



Shanthisagara Lake



Santhebennur Pushkarani



Glass House



Kondukuri



Benne Dosa



Mirchi Mandakki

KVK TIMES

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