



# KVK TIMES

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

Vol-01-Issue 44 ; 16-30 April 2023



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# KVK TIMES

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

Vol 01 Issue 44 ; 16-30<sup>th</sup> April 2023

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Director, ICAR-ATARI, Zone-XI, Bengaluru

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# ಕೃಷಿ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಧಾರವಾಡ

UNIVERSITY OF AGRICULTURAL SCIENCES, DHARWAD



ಡಾ. ಪಿ. ಎಲ್. ಪಾಟೀಲ

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M.Sc.(Agri.). Ph.D.

**VICE-CHANCELLOR**



It is my immense pleasure to thank Dr. V. Venkatasubramaian, the Director, ICAR-ATARI, Bengaluru for his overwhelming support, inspiration and encouragement to serve the farming community and for his valuable guidance in bringing out this edition of KVK Times.

Krishi Vigyan Kendras work as Knowledge and Resource Centre on agricultural technologies for supporting initiatives of public, private and voluntary sectors in improving the agricultural economy of the district. Since, KVK's are having a district as jurisdiction, they are playing a pivotal role in agricultural technology transfer and in turn in increasing productivity and income of the farming community. They are models for adaptive research, and co-ordinate to diagnose and solve field problems from time to time within the district agro-ecosystems. KVKs attempt to increase the net returns of farmers and also augment self-employment opportunities among farming communities in agriculture and allied enterprises. They conduct need based training for farmers to update their knowledge and skill in state of the art agricultural technologies, secondary agriculture, animal husbandry and other allied sectors for improving the agricultural economy of the district. KVKs are primary centre for implementing diversified interventions based on the needs of the farming community in agriculture and allied fields aimed to enhance income of farmers. ICAR- ATARI Bengaluru has provided a platform to facilitate the dissemination of such valuable wealth of knowledge through publications. The best instance is the recently launched fortnightly e-Publication "KVK TIMES". The initiative of ATARI Zone XI to showcase the plethora of activities undertaken by 48 KVKs of the Zone which is a commendable task. Besides documentation this effort will result in boosting the morale of the KVK staff as well as increase the exposure and cross learning among KVKs. This newsletter brought out during second fortnight of April 2023 prepared by KVK Uttara Kannada gives an excellent overview of the diverse interventions Zone XI. I take this opportunity to express my appreciation the combined efforts of ATARI, Bengaluru, Directorate of Extension and the staff of KVK, Uttara Kannada for bringing out this fortnightly publication of "KVK TIMES".

Through this KVK Times, we proudly unfold, the salient interventions and technology backstopping of all Krishi Vigyan Kendra's of Zone XI that has helped the farmers to lead a better life. Let us believe that, together we can make this decade a 'DECADE OF HOPE'.



PLP

(P. L. Patil)



ICAR-Agricultural Technology Application Research Institute, Zone XI

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Director

निदेशक



## Foreword

Krishi Vigyan Kendras are innovative first line science based front line extension system for application of technologies. KVKs play an important role in adaptation of technologies from the research system to farmers field. The aim of the KVKs is to bring transformation in farm families through technological interventions and planning strategies for sustainable agriculture.

However, for meeting the new challenges, it is important to focus on conservation of natural resources, achieving higher productivity, keeping sustainability of agriculture, enhancing farmers income through linking to market and strengthening the value chain management.

KVKs are serving as scientific knowledge centers which are useful to entire district. There are 48 KVKs working under Zone-XI covering Karnataka, Kerala and Lakshadweep. Cross learning among them will help to understand and appreciate the strengths of each others. Documenting this cross learning is very much valuable and will act as a platform for sharing of knowledge among KVKs and stake holders.

"**KVK TIMES**" is a fortnightly, first of its kind of virtual platform created by KVK in Zone XI to highlight the good work done by each one of them.

It also serves as ready reckoner for accessing important milestones achieved by KVKs in the Zone. I congratulate Dr.S.S.Inamati, Senior Scientist and Head, ICAR-KVK Uttara Kannada and team which has done commendable job in bringing out this 44<sup>th</sup> issue of "**KVK TIMES**" for capturing the important events

Bengaluru  
28 April 2023

  
(V Venkatasubramanian)



ಕೃಷಿ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಧಾರವಾಡ  
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ವಿಸ್ತರಣಾ ನಿರ್ದೇಶಕರು &  
ನಿರ್ದೇಶಕರು, ಸಮೇತಿ (ಉ)

**Dr. A.S. Vastrad**

M.Sc.,(Agri), Ph.D

DIRECTOR OF EXTENSION &  
DIRECTOR, SAMETI (N)

## Message



Totally financed by Govt. of India, Krishi Vigyan Kendras have been functioning as Knowledge and Resource Centre of agricultural technology initiatives of public, private and voluntary sector for improving the agricultural economy and livelihood security of the district. Since its inception in 1974 the number of KVKs has risen to 731, falling under one of the 11 Agricultural Technology Application Research Institutes (ATARIs) throughout India. They are aimed at assessing location specific technology modules in agriculture and allied enterprises through technology assessment, refinement, demonstrations and training. In addition, KVKs produce quality inputs (seed, planting material, bio-agents and livestock) and make it available to farmers, organize frontline extension activities, identify and document selected farm innovations and converge with ongoing schemes and programs within the mandate of KVKs. Being the only institution at the district level for technological backstopping in agriculture and allied sectors. KVKs are envisaged to reduce the time lag between generation of technology and its application for increasing production, productivity and net farm income on a sustained basis, thus acting as a crucial lynchpin in fulfilling the target of doubling farmer's income.

Towards this end the efforts of ATARI, Bangaluru which regularly brings out a newsletter entitled "KVK TIMES" highlighting the myriad activities KVKs coming under the jurisdiction of Zone XI is laudable. I congratulate Dr. S. S. Inamati, Sr. Scientist and Head, KVK, Uttar Kannada and his team for presenting comprehensive activities of KVK Uttar Kannada.

Date: 09.05.2023

(A. S. Vastrad)





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**Dr. S. S. Inamati**  
Ph.D. (Forestry)  
Senior Scientist & Head



## Acknowledgement

I feel extremely happy and privileged to be given an opportunity to compile and edit 44<sup>th</sup> issue of KVK times Vol.I. It is essentially a cross learning experience that helps each KVK to fine tune their activities.

I express my sincere gratitude towards Hon'ble Vice chancellor of UAS, Dharwad, Dr. P.L. Patil for his valuable guidance and invincible support for carrying out the activities of KVK.

I wish to place on record, my deepest sense of gratitude for our Director of Extension, Dr. A S Vastrad for his constant support and guidance that has helped KVK Uttar Kannada to serve farming community better.

With deep respect and immense happiness, I offer my heartfelt gratitude to Dr. V. Venkatasubramanian, Director, ATARI Bengaluru for his overwhelming support, motivation and encouragement that has inspired us to work more efficiently and focused. I would also like to thank Dr. Shripad Kulkarni Nodal Officer UAS, Dharwad for his valuable guidance and encouragement.

I extend my sincere thanks to ATARI Bengaluru for giving us an opportunity of documenting the activities of KVKs in zone XI during the last fortnight of April.

I thank all 48 KVKs of zone XI for sharing their activities and achievements during this period for compilation in KVK times.

I take this opportunity to express my heartfelt gratitude and appreciation towards the vibrant team, KVK Uttar Kannada for their sincere and whole hearted co-operation and involvement in each and every activity of KVK. I feel fortunate to be a part of this team.

Date: 08.05.2023

(S. S. Inamati)



# Unique and Heritage Crops of Uttara Kannada

Ishadi Mango



Joni-Bella  
(liquid Jaggery)



Kari Kagga Paddy



Bhatkal Jasmine



Sirsi Supari



Honnavar Rani Betel Leaf



Appemidi



Kumta Onion



# Prestigious Padma Shri Award to the District



Tulasi Gowda, the **Encyclopedia of forests** and  
Sukri Bommana Gowda, the **Nightingale**  
of Halakki Vokkaliga tribes

**Sukri Bomma Gowda receiving  
Padma Shri Award 2017  
from President Pranab Mukherjee**



**Tulasi Gowda receiving  
Padma Shri Award 2020  
President Ram Nath Kovind**



### 'Mann Ki Baat' : Facilitating Mobilization of Farmers Producer Organizations (FPOs)

The Hon'ble Prime Minister of India has been addressing the nation every month, since 2014, with a series of messages through his *Mann Ki Baat* programme in radio, set up a milestone, listened by people with live examples and enlighten their minds with thoughts. In the 97<sup>th</sup> episode, Hon'ble Prime Minister gave some exciting examples of people involved in farming and the business of millet products of Farmer Producer Organizations (FPOs) like 'Hulsoor Mahila Kisan Millets Producer Company Ltd' in Bidar, 'Aland Bhootai Millets FPO' in Kalaburagi and Tribal FPO in Sundargarh district of Odisha, became wide publicity throughout the country. Similarly, 99<sup>th</sup> episode covered FPO in Dal Lake of Kashmir who started exporting *Kamal Kakdi*, locally called as *Nadru* to foreign countries. In fact, inspirational and encouraging words of Hon'ble Prime Minister motivated farmers to spur entrepreneurship and innovation among the FPOs, which led incentives in the way of sustainable production, better backward and forward integration in the marketing of agricultural produce and products. Keeping this in view, a study was undertaken during 2023, while following exploratory research design with 44 selected FPOs located across the country, covering 40 districts from 19 states, in order to know the status, lessons learnt, feedback and way forward among FPOs.

The study indicated that out of 44 FPOs covered in the study, 42 FPOs (98%) were established during the *Mann Ki Baat* Programme (2014-2023) itself, with the business objectives including production of almost all major crops, seed production of important crops of their local demand, agricultural inputs at door steps, agricultural machineries and implements as custom hiring service, and value-added products of agriculture and allied sectors. Data further showed that half of the selected FPOs had less than 500 shareholders followed by 34% FPOs had in the range of 501-1000 shareholders and 16% FPOs had more than 1001 shareholders. FPO-Krushidhan Producer Company Limited at Ahmedabad, Gujarat had highest number of 4409 shareholders. Seventy-five per cent of the selected FPOs had less than Rs.10 lakh share capital followed by 7% FPOs in the range of Rs.10-20 lakh, 9% FPOs in the range of Rs.20-30 lakh, 2% FPOs in the range of Rs.30-40 lakh, and 7% FPOs had more than Rs.40 lakh. However, the FPO-Puthari Farmers Producer Co. Ltd. at Kodagu, Karnataka accounted highest share capital of Rs.1.31 crore. The study observed that there was a reduction in the cost of cultivation by 20-25% due to their collective action.

The feedback provided by the FPOs indicated that members of FPOs became aware on different schemes and policies being communicated either through *Mann Ki Baat* or the developmental institutions facilitating the related activities. The FPOs were ensuring several benefits to member farmers like acquainting with different government schemes, dissemination of good agricultural practices, increasing bargaining power, accessing to digital platforms.

However, FPOs face certain difficulties while in operation and suggested way forward to standardize policy framework on mechanism for selecting shareholders and scale up of activities, capacity building, capital, credit, infrastructure, market linkages, etc. Thus, the new generation FPOs being promoted by the Central Government will step towards mobilizing small and marginal farmers into FPOs and make them influential market forces in the years to come to improve their income by developing value-chains in agriculture and allied sectors.

# ICAR - ATARI ZONE - XI

## Karnataka & Kerala KVKs



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### Field days of Frontline Demonstrations conducted

Salinity management and soil moisture conservation for vegetable cultivation in coastal sandy soils of Alappuzha: Use of dolomite as amendment, growing of a legume and incorporation to soil prior to cultivation of vegetables like chilly, brinjal, tomato, snake gourd and yard long bean were demonstrated in this FLD to the women farmers, often engaged in group farming activities. Eco-friendly nutritional and plant protection technologies also were followed. Field Day was conducted on 06.04.2023 at Madampil in Kandallor panchayath. The partner farmers shared their experiences highlighting the benefit of legume growing and incorporation to soil in salinity management and soil moisture conservation and resulting higher moisture content and organic matter in soil in the demonstration plots compared to the control plots. LSG representatives and progressive farmers ensured to spread these technologies to larger areas during the next season. A total of forty eight participants attended the programme. Dr.K.Sajnanath, SMS (Soil Science) coordinated the programme.



### Integrated management of weedy rice in Kuttanad region:

The demonstration was conducted in 5 ha area with the support of 20 partner farmers in Muttarpanchayath. Technologies like Stale seed bed technique, pre-emergent application of Oxyfluorfen 23.5%EC, and post emergent application of Glufosinate using KAU Wick applicator were demonstrated to farmers in this programme. Officials of Agri Dept., and partner farmers shared their experience on effectively managing the wild rice menace utilizing these technologies in the field day conducted on 5<sup>th</sup> April, 2023. Mr. M. S. Rajeev, SMS (Agronomy) and Dr. T. Sivakumar, SMS (Entomology) coordinated the programme.

#### (a) Scientific calf rearing for increasing dairy farm income:

In this demonstration, 25 calves of 15 days age were selected and scientifically fed with calf starter feed up to eight months. On completion of 8 months, an average body weight of 120 and 102 kg were attained by male and female calves providing an additional income of Rs.12680/- and 9700/-, respectively compared to non-fed animals.

#### (b) Fodder cowpea for yield improvement of dairy cattle:

In this demonstration, fodder cowpea seeds of CO (FC)-8 were provided to 20 farmers for cultivation and feeding @ 6 kg per day along with Hybrid Napier grass. By this practice, they could save 120 kg of cattle feed per cow in a lactation period.



Fifty dairy farmers in the purview of 3 milk societies in Kandallor panchayath were the partners in these two demonstrations. A combined field day was conducted on 06.04.2023 in which the Milk society presidents, and partner farmers shared their experience of rearing the calves and cattle utilizing these technologies to improve their dairy farm income and urged upon other farmers to follow the same. Dr.S.Ravi, SMS (AH) coordinated the programme.



## Integrated management of leaf blotch and rhizome rot diseases in turmeric

(I) When turmeric HYVs were promoted on a large scale for area expansion and enhancing production, the crop became susceptible to diseases like leaf blotch and rhizome rot in a severe manner in the district. To manage this problem, the ICAR-IISR technology package of seed rhizome treatment with Mancozeb 0.2% and shade drying for 30 min, prophylactic foliar spray with 2% *Pseudomonas fluorescens* at monthly intervals and need based fungicide spray (Propiconazole(0.1%)) at 90, 105 and 120 DAP was demonstrated to 50 partner farmers of Bharanikkav panchayath.

Field day of the demonstration was conducted on 13<sup>th</sup> April, 2023. Sri.C.S.Jayaprakash, gramapanchayath member in his address stressed the need of protecting turmeric crop as Alappuzha turmeric is having huge demand in the world market. Smt. Rajini Jayadev, Managing Director of the KVK promoted Onattukara Spices Farmers Producer Company also shared her experience in managing the diseases using the demonstrated technology and urged the turmeric farmers to follow the same. Smt. G. Lekha, SMS (Plant Pathology) coordinated the programme.



ICAR - KVK Bagalkote

## On Campus Farmers Awareness Programme at KVK Bagalkote

An awareness programme was conducted on 21.04.2023 to KFRC Farmers of Bagalkote district at KVK Bagalkote. A total of 25 members participated and got benefit of this programme. Mr. Basavaraj Nagaleekar (SMS Agrometeorology) explained about Objectives of GKMS project, details about DAMU and Weather based Agro-advisories. Also explained importance of Automated weather station in agriculture and weather related mobile applications like meghdhoot, Damini and Mausam.





## ICAR - KVK Belagavi - I

### ONE DAY TRAINING PROGRAM ON “SCIENTIFIC SHEEP & GOAT FARMING”.

ICAR-BIRDS Krishi Vigyan Kendra, Belagavi-1 conducted one day on campus training program on scientific sheep and goat farming for sixty-three farmers of different age group including farm women on 3<sup>rd</sup> week of April 2023. The training program included-theory, practical and method demonstration. 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. Scientific use of endo & ectoparasiticides and use of total mixed ration (TMR) was advised to trainees.



## ICAR - KVK Belagavi-II

### Vocational Training Programme on Nursery Management in Horticulture Crops

ICAR-KLE Krishi Vigyan Kendra, Mattikopp organized 21 days vocational training programme on “Nursery Management in Horticulture Crops” to the rural youths at KVK campus held during 1-29 April, 2023. Inaugurating the programme Smt. Sridevi B. Angadi, Senior Scientist and Head, ICAR-KLE KVK, Mattikopp suggested the trainees to acquire knowledge and skill in production of quality planting material in horticulture crops so that they can establish the nursery unit in the rural areas to meet the local demand for the vegetable seedlings and seedlings/graftings of fruit crops.



Shri Praveen Yadahalli, Scientist (Horticulture) imparted training on propagation techniques like air layering, budding, grafting, wedge grafting, approach grafting, selection of scion material from mother plants, preparation of media for raising seedlings, factors influencing rootings of cuttings and layering, use of growth regulators in propagation techniques through specialized organs; runner, suckers, selection and maintenance of mother trees, collection of scion wood sticks and seed treatment for breaking seed dormancy including vigorous seedling growth. In addition, he discussed on nursery registration act/propagation structures like mist chamber, green house, poly houses, hardening chamber, micro-propagation and hardening of plants in nurseries. He also briefed the advantages of structures like poly house, shade house, poly tunnels, mist house in raising different horticulture seedlings/grafting for better establishment of planting materials. Dr. S. S. Hiremath, Scientist (Plant Protection) interacted on the importance of plant protection in raising of seedlings in nurseries and explained various plant protection measures to be taken up in raising of quality and disease free planting materials of horticulture crops.



## Certificate Course on Organic Farming

A six days Certificate course on Organic Farming was organized in collaboration with KLE's Lingaraj College, Belagavi for college students from 24 to 29 April 2023 at KVK Campus. The programme was inaugurated by Dr. H S Melinamani, Principal KLE's Lingaraj college, Belagavi. During his inaugural speech, he suggested that students have to learn various aspects of organic farming practices along with practical applications in the agriculture and horticulture fields. Smt. Sridevi B. Angadi, Senior Scientist and Head, in her presidential address briefed on the importance of students in gaining of the knowledge and extension of the organic farming technologies to the farmers for adoption as a better practice to replace chemical farming which aims at production of healthy food. Dr. G N Sheeli, Assoc. Professor welcomed the gathering and Dr. C Mallanna, Asst. Professor extended vote of thanks.

During the technical sessions, Sri G B Viswanath, Scientist (Agronomy) briefed about importance of green revolution in Indian agriculture, history, importance, principles and practices of organic farming along with package of practices of agriculture crops under Organic farming, improved methods of composting and vermicomposting using farm waste and types, cultivation practices of green manuring crops to enrich soil fertility status.

Dr. S S Hiremath, Scientist (Plant protection) explained about different types of plant based pesticides, method of preparations and application to control various pest and diseases.

Shri S M Warad, Scientist (Soil Science) interacted with trainees on importance of soil testing, soil sampling method and use of soil test based plant nutrients on integrated mode. In addition, he highlighted concept, principles of Natural farming practices and preparation of various inputs like Beejamruth, Jeevamruth, Agniashtra, Panchagavya, Dashaparni and other inputs to be used in Natural/organic farming.



During the training programme students were practically involved in vermicompost production, preparation of various bio-agents and organic farming inputs like NSKE, jeevamruth, etc., and visited different demonstration units at instructional farm. As part of the programme the students were facilitated to visit organic farmer's field at Chachadi village.



During the valedictory function, Certificates of Participation were provided to all the participating youths.



ICAR - KVK Ballari

## Home Scientists of UAS Raichur visit to Milky mushroom cultivation unit at Ballari

Home scientists from UAS, Raichur made a visit to Shri.Manjuntah's milky mushroom cultivation unit while they were at ICAR-KVK, Ballari on 10.04.2023. Shri Manjunath is a software engineer by profession and working from home since COVID outbreak. His interest and curiosity towards farming got fulfilled during lockdown period. He took guidance from scientists of ICAR-KVK, Ballari



and started his venture. Manjunath began his cultivation in a shed of 50×40-foot area and enclosed it with green shade net and bamboo. He has made partitions for a working area, one dark room, and four lighting rooms for batch wise production. He harvests around 25kgs of milky mushrooms every day and fetched Rs3750 per day. The main markets for Manjunath's milky mushrooms are Bangalore and Anantpur. He also sells the mushrooms for parties and weddings on orders. B:C ratio for mushroom cultivation is 1.3.



## ICAR - KVK Bengaluru Rural

### Examination for One year Diploma (Agri.) under Distance Education

ICAR – KrishiVigyan Kendra, Bengaluru Rural District organized second semester examination for One year Diploma (Agri.) students under distance education mode in collaboration with Co-ordinator, Distance Education Unit, SAMETI (South), University of Agricultural Sciences, Bangalore from 24.04.2023 to 29.04.2023 (six days). The examinations were conducted for 46 enrolled students. Dr. Darshini, G.M., Scientist (Plant Pathology) coordinated the Diploma (Agri.) classes and examinations of both the semesters during the year 2022-23.



## ICAR - KVK Bidar

### Business Men Turned To- A Progressive Fish Farmer

Diversification in farming is the need of the hour, In making decisions about diversification farmers need to consider whether income generated by new farm enterprises will be greater than the existing activities, with similar or less risk. While growing new crops or raising animals may be technically possible, Along with the regular animal husbandry activity Inland fish farming gives an opportunity to establish themselves in better position for sustained income from farming sector.

Mr. Sharekhan Shemsharekhan, presently aged 40 years, was born and brought up at Janawada Village, of Bidar district has started the inland fish farming after undergoing the training at ICAR – Krishi Vigyan Kendra, Bidar. Initially Mr. Sharekhan Shemsharekhan interested in animal husbandry with regular technical advice and technical backup by KVK Bidar. Mr. Sharekhan started the construction of inland fish pond of size of 1 acre in his non usable agricultural land. During 2022-23 ICAR- KVK Bidar has demonstrated a composite fish farming under front line demonstration (FLD), KVK has been supplied with 6000 fish finger lings which includes Catla, Rohu and Common carp to the farmer from the Fisheries Research Information Center (FRIC), Bhutnal, Vijapura. Dr Akshaykumar, Scientist (Animal Science) in his supervision after releasing the fish fingerlings in the pond, every day farmer has fed them with fish feed and a mixture of wheat flour, rice bran and pulverized ground nut



oilcake (GNOC) procured from market. He started harvesting fish after 10 months of release and has sold 3.5 tons of fish each weighing around 1.2 – 1.5 kg. Earlier he had invested Rs. 2 lakh in production costs in addition to the construction of fish pond and total investment within one year with a satisfactory profit as well. This is accounting to a total business of Rs.3.85 lakh per annum. This could not have been possible without the support, service, technical help and motivation from the KVK Bidar & State Fisheries Department says Mr. Sharekhan.

By the initial support of KVK he is taking up Inland fish farming. He earns from sale of fishes. Now his farm has become visiting spot for the beginners of fish farmers and he has become farm youth icon to the surrounding villagers. The success of Khan does not stops here. He has inspired dozens of farmers towards fisheries activities to become fish farmers. It is now a model fish farm model fish farm.



## ICAR - KVK Chamarajanagara

### Integrated crop management in Sorghum

A capacity development programme on integrated crop management practices in

Sorghum was organized on 17.04.2023 at ICAR KVK Chamarajanagara. Mr. Rajath H. P.,

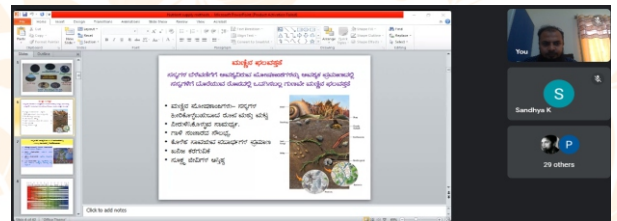
SMS (Agromet) explained the importance of short duration hybrid CSH 30 and climate ICAR KVK Chamarajanagara. Mr. Rajath H. P., SMS (Agromet) explained the importance of short duration hybrid CSH 30 and climate resilient practices to be adopted to combat climate change. As a part of the programme, seed treatment with Azospirillum and PSB was demonstrated to the participants. Dr. Deepa J., Scientist (Home Science) highlighted the importance of practicing Nutrition Garden and consumption of millets in daily life.



## ICAR - KVK Chikkaballapura

### Online training on nutrient management in vegetable crops

Online training on nutrient management in vegetable crops was organized by KVK, Chikkaballapura on 28.04.2023. Dr.Sandhya, Scientist (Soil Science) explained about different sources of nutrients and fertigation schedule in important vegetable crops like tomato, potato, chilli, brinjal etc., 38 farmers participated in the programme.



Online training on natural farming was organized by KVK, Chikkaballapura on 29.04.2023. Mr.Vishwanath, Scientist (Agronomy) explained about importance of natural farming, green manuring, waste decomposer, liquid organic manures and principle of natural farming. Farmer's queries were answered at the end of the training programme. 323 Farmers participated in the programme.



## ICAR - KVK Chikkamagaluru

### Energy efficient pump sets and water conservation programme

ICAR-Krishi Vigyan Kendra, Chikkamagaluru in collaboration with Karnataka Renewable Energy Development limited, Bengaluru organized the Energy efficient pump sets and water conservation programme at Garugadahalli village of Kaduru taluk.

Dr. Krishnamurthy, A.T, Senior Scientist and Head, KrishiVigyan Kendra, Chikkamagaluru, in his introductory remarks briefed that Global temperature is raising and advised the farmers to save the energy and environment as we fulfil our duty by saving energy. Further

briefed that, preliminary analysis of energy used in irrigation suggests that 30% to 50% of total energy used could be saved through improved technologies in the Agriculture.

Dr. Ullasa, M. Y, Scientist (Agronomy), KVK, Chikkamagaluru, participated as resource person and said that, one of the largest single users of energy is agriculture, and within the field, the energy used for irrigation is quite significant. Approximate estimates indicate that ground water pumping requires more than 16x10<sup>9</sup>kwh of electricity and about 2,000 million liters of diesel oil annually and requirement of energy for pumping ground-water can be reduced if the power for this purpose is used most efficiently. Further explained about causes for low efficiencies and how to enhance to efficiencies while using irrigation pump sets.

Dr.Ganapathi, M.R, Assistant Professor, Department of Crop Physiology, College of Horticulture, Mudigere delivered the lecture on importance, uses and methods to follow energy conservation practices in Agriculture and methods to follow energy conservation while using irrigation pump sets. During this programme total 163 farmers participated and got benefit out of it .



## ICAR - KVK Chitradurga

### “Eduverse” an education expo

Eduverse 2023 was organized by Deccan Herald and Prajavani at Palace grounds, Bangalore. Here the information about the colleges and courses available at one place. It was one of the Karnataka's Biggest Education Expo. They provided mock tests, win prizes, free career guidance, direct contact with experts. Students had the option of interacting directly with officials from CET and Comed-K, and explore perspectives in choosing the right career. KVK Scientists Dr. Ravikumar and Dr.Preethi represented Keladi Shivappa Nayaka University of Agricultural and Horticultural Sciences,

Shivamogga the event on 22.04.2023 and 23.04.2023.The team guided the students about the farm science courses, colleges, admission procedure, course fee structure, career opportunities and clarified the doubts of the visitors.



## DAESI students visit to KVK Chitradurga

Mrs. GeethaKumari B N., Programme Assistant, KVK delivered a guest lecture on Importance of Soil testing to the DAESI, students of Chitradurga during their exposure visit to KVK on 24-04-2023. She briefed about soil sampling procedure, precautions to be taken while drawing the sample, depth of sampling, time of sampling, details to be provided along with the sample. After the guest lecture the participants were taken to the field and conducted a method demonstration on Soil sampling and quartering technique to be followed to make the representative soil sample were briefed to the students.



## ICAR - KVK Davanagere

### Mechanical harvesting of FLD Finger Millet (ML-365)

Mr. Mallikarjuna B.O., SMS (Agronomy) made a follow up field visit to the Frontline demonstration plots of Finger Millet at Hireharakere, Jagalur taluk. The summer finger millet with variety ML- 365 which is medium duration variety and grown under sprinkler irrigation. The labour force is the biggest problem in finger millet harvest and increased cost of harvesting charges lead to area reduction in finger millet. With KVK intervention introduced the mechanized combined harvester for harvesting of finger millet in our FLD plots. The hiring charges of the machine per acre is Rs. 3000/- . The expected grain yield was about 35-38 q/ha



with good fodder quality. The farmer Mr. Shivakumar. Expressed that the machines are very useful and the increase in finger millet area is due to this combined harvesters. We suggested the farmers to sell the grains as seeds to the KSSC, instead of selling in the open market.

### Celebration of Field Day of Minor millet

Conducted the Field day of Brown top Millet (Korale) at Tumbigere village of Davanagere taluk. The program was sponsored by SAVAYAVA SIRI by department of Agriculture and TRDF, Sirigere. The Program was inaugurated by the progressive farmer Mr. Nagaraju who has grown korale. Mr. Mallikarjuna B.O., SMS (Agronomy) delivered



lecture on the Importance of Millets as we are celebrating this year as International Year of Millets. We have to encourage the farmers to grow millets. Also explained to the farmers to go for value addition of millets to get good income and sell the products in the name of your FPO Company. The line department officers, KVK Subject matter Specialist and progressive farmers from different village attended the program.

## **Training on Waste Management and Organic farming**

Mr. Mallikarjuna B.O., SMS (Agronomy) interacted with students on the Conversion of agriculture waste to organic manure. Explained in detail about the waste decomposer which can be used for the decomposition of the waste for vermicomposting. Final Year Engineering Students from BIET, college Davanagere attended the program and visited the different organic and natural demonstration units in KVK.



## **Demonstration on Natural Farming**

Demonstration under Natural Farming were initiated with 8 farmers from Kariganur village of Channagiritluk. Arecanut, Coconut, Banana and Rice crops were covered under demonstrations. The initial organic carbon content is analyzed and production and use of Jeevamrutha, Ghanajeevamrutha, Neemstra and Bhrahmastra were encouraged.



**ICAR - KVK Dakshina Kannada**

## **Field Day on Demonstration of High yielding Yardlong Bean variety Arka Mangala**

The ICAR- Krishi Vigyan Kendra (Dakshina Kannada) Mangaluru has organized the FLD -Field Day on Demonstration of High yielding Yardlong Bean variety Arka Mangala on 21-04-2023 by at Hosangady, Belthangady taluk, on this occasion Dr. Rashmi R., Scientist (Horticulture) coordinated the programme and gave detailed information to farmers about Yard Long Bean variety Arka



Mangala cultivation practices to achieve higher yields. Dr. Kedarnath, Scientist (Plant Protection), ICAR-Krishi Vigyan Kendra (Dakshina Kannada) Mangaluru explained about plant protection activities for sustainable and effective management of pest and diseases. Mr. Jeromias Morasa progressive farmer shared feedback on Arka Mangala variety has excellent shelf life, Pods are very long compared to local variety, Stringless and pods are straight which is easy for making bunch. During the event Mr. Hariprasad,



Director PACCS, Peradi, Farmers and BSW students of Alva's College, Moodbidri graced the occasion.



## ICAR-KVK Dharwad

### Method demonstration on Azolla cultivation

ICAR-KVK, Dharwad organized on method demonstration on Azolla for II year Diploma (Agri) students on 19.04.2023. Dr. Jayashree Pattar, Scientist (Animal Science), ICAR-KVK, Dharwad explained that Azolla is protein supplement which can use environment nitrogen for synthesis of protein there by reduce the concentrate feed cost. For cattle 2-3 kg, poultry 10 -50 grams, Sheep/goat 250-500g can be given in divided ration. Also Azolla can be used as fertilizer source to various field crops. She also briefed about Azolla cultivation methods, importance of



Azolla feeding for livestock and poultry. Students were also exposed to different demonstration units established at KVK farm. About 30 students participated in the programme.

### Training on Nursery Management

ICAR-KVK, Dharwad organized nursery management training for Gardeners of police department, Dharwad from 24.04.2023 to 29.04.2023. Dr. Airadevi P. Angadi, Scientist (Horticulture), ICAR- KVK, Dharwad explained about potting and repotting, pruning techniques, grafting and layering in different fruit crops and kitchen garden management. This hands on training was successfully conducted for 4 staff of police department. They were also exposed to different demonstration units established at KVK farm.





## ICAR-KVK Ernakulam

### Training on Inland Aquaculture



ICAR-KVK Ernakulam conducted hands-on training on Inland Aquaculture for staff members of District Agriculture Farm, Neriamangalam on 19th April 2023. Dr.P.A.Vikas, Subject Matter Specialist (Fisheries) conducted the training. As part of the training, a practical session was conducted at Kaipramatt Fish Farm, Mookkanoor. The Mookkannur Malsya Karshaka club president Shri.Polachan K and Aqua promoter Shri. Biju Mookkannur interacted with the trainees and shared their experiences.

### KVK to promote supply of quality fish seeds



The KVK is extending technology backstopping on quality Pearls spot fish seed production to farmers and also providing marketing avenues. A fish seed booking counter was set up at the Njatangadi Fest 2023, an exhibition organized by Kerala State Agriculture Department at State Seed Farm Okkal, from 25th to 27th April 2023 in collaboration with KVKs partner farmer group Karimeen Vithulpadaka Sangham. The stall was inaugurated giving fish seeds to Master Sandeep, a student farmer. Dr. Vikas PA, Subject Matter Specialist (Fisheries), partner farmers Shri. Shibu T.S, and Shri. Venu TV were present.



## ICAR-KVK Gadag

### Training of Extension Functionaries

On 13-04-2023, ICAR-K.H.Patil Krishi Vigyan Kendra, Hulkoti organised training to the Extension Functionaries of Mahila Samukhya. Dr.Sudha V.Mankani, SMS (Home Science) briefed the extension functionaries on Food and Nutrition, Millet Nutrition and Value addition of Millets. Further, the exhibition of millet grains was also organised to create awareness on different types of millets. Smt. Manjula, State Project Director, Mahila Samukhya, Bangalore, Smt. Arati Sabarad, DPC, Dharwad and Gadag and 80 Extension Functionaries participated in the programme



### Visit of Dr. Rajendra Singh, Waterman of India

Ichalahalla stream in Gadag Block was rejuvenated by Zilla Panchayat, Gadag under the guidance of Dr. Rajendra Singh, a renowned Waterman of India during the year 2005. During this process ICAR-K.H.Patil Krishi Vigyan Kendra, Hulkoti played a vital role in creating awareness through campaigns and capacity building programmes to farmers of 6 villages on importance of rejuvenation of Ichalahalla stream from Nagavi to Hirehandigol villages in Gadag taluk.

In this backdrop, on 18-04-2023 Dr.Rajendra Singh visited Ichalahalla stream to see the present benefits of stream for agriculture and allied activities. Dr.Rajendra Singh interacted with KVK Scientists and farmers. Farmers expressed their happiness over benefits accrued due to rejuvenation of Ichalahalla stream as they are getting higher productivity in the crops due to perennial flow of stream. Dr.Rajendra Singh was overwhelmed with the impact of rejuvenation of Ichalahalla stream and congratulated all Stakeholders.





## ICAR- KVK Hassan

### Scientific bee keeping training Programme

Scientific beekeeping can be very profitable and there are 5 types of honey bees, some of which are suitable for beekeeping. Dr. Vasudevan, S. N., Dean, College of Agriculture, Karekere, Hassan said that not only honey but also by-products like wax and royal jelly can be obtained from beekeeping and we need to save the bees and save the human race. He addressed the inaugural function of a 5-day scientific beekeeping training program held at the ICAR-Krishi Vigyan Kendra, Kandali, Hassan in collaboration with Skill Development Centre, University of Agriculture Sciences, Bangalore.

Like farmers are backbone of the country, beehives are the backbone of agriculture. Stating that honey bees is the most important part of agriculture as bees were the basis for pollination of 90% of the crops, he explained the importance of honey for health. Further, they inform the gathering about the facilities and incentives available for bee cultivation from the government departments. Dr. Rajegowda, Senior scientist and head, ICAR-Krishi Vigyan Kendra, Kandali, Hassan Presiding over the programme said that farmers should start beekeeping as part of integrated farming so that the yield of the crop can be increased by 30 per cent and also he can earn more income by selling honey. Plant Protection Scientist Dr. Nagaraja, T., in his introductory remarks of the program told



the farmers about the importance of this training and the benefits of beekeeping. Home scientists Dr. Shivashankar, M. welcomed gathering and agricultural engineering scientist Dr. Srinivas Deshpande delivered the vote of thanks. Soil scientist Dr. Arunkumar, Crop physiology scientist Dr. Pallavi, N., Extension Scientist Dr. Sanket, C. V., DASEI facilitator Mrs. Bindu, N. and farmers from different parts of the district were participated in the programme.



## ICAR - KVK Haveri

### Agriculture Skill Council of India (ASCI) Sponsored Small Dairy Farmer training programme

ICAR-Krishi Vigyan Kendra, Haveri (Hanumanamatti) conducted twenty six day's training programme on "Small Dairy Farmer" from 03.03.2023 to 28.03.2023 sponsored by Agriculture Skill Council of India (ASCI), Ministry of Skill Development & Entrepreneurship, Government of India.

Proposed programme was organized by Dr. Mahesh



Kadagi. Scientist (Animal Science) and inaugurated by Dr.Guruprasad.G.S, Senior scientist and Head, KVK Haveri. Totally 20 trainees were participated. During 210hrs of training period all the topics including different breeds of dairy animals, selection of dairy animal, balanced feeding, process of milk procurement, concept of clean and antibiotic free milk, synthetic milk, opportunities and challenges in dairy business, Feeding Chart and process of feed storage, preventive care for maintaining the health of animals, importance of personal hygiene and safety precautions, methods of waste segregation and waste disposal in eco-friendly way, mastitis and its control, milking machine and its maintenance, proper milk storage techniques, methods of hay making, silage preparation and treatment of straw, etc. Fourteen experts from Department of Animal

Husbandry, Karnataka Milk federation and UAS Dharwad were invited for the programme. Method demonstration like California Mastitis Milk test, teat dipping, and machine milking and full hand milking, vermicomposting, cattle feed preparation, dry fodder enrichment were arranged.

Exposure visit to progressive dairy farmers field were also arranged and taken to Jevakosh Gir Farm owned by Smt. Sahana Honnatti, Meduru , Shri. Basavaraj Hulikatti Dairy farm, Chalgeri and A1 Buffaloe farm owned by progressive farm women Smt.Vijaya.S.G at Gangapura.

The programme was concluded on 28.03.2023 and assessed by third party on 19.04.2023, which includes evaluation of trainees based on theory online exam, practical and viva voce by an external examiner.



## ICAR- KVK Idukki

### Low cost vermicompost units at Vattavada village

ICAR, KVK, Idukki initiated a Project at Vattavada village under the sponsorship of VFPCCK on “ low cost vermicompost unit establishment”. As a part of the Swatchta action plan on microbial inoculam based vermicomposting many awareness programmes and trainings were conducted by KVK Idukki for Tribal farmers. 82 tribal farmers were selected from Vattavada village for this project. The farmers were made aware on importance of vermicomposting and its low cost production. Low cost vermicompost unit production was demonstrated to farmers at field level by using low cost silpaulin sheet. Low cost silpaulin sheet installation was demonstrated to farmers by filling it with



organic substrates for pre-decomposition. Vermiculture was released in pre-decomposed material which was demonstrated to them. Ms. Manju Jincy Varghese, SMS (Soil science) and Ms. Preethu K.Paul, SMS (Agril.Extn.) Created awareness among tribal community as a part of SAP scheme to motivate the farmers in low cost vermicompost production from farm waste.



## ICAR KVK Kalaburagi-I

### 'Pashu Sakhi' visit to KVK, Kalaburagi-I

'Pashu Sakhi' XI batch farm women's from different villages of Kalaburagi district visited to ICAR-Krishi Vigyan Kendra, Kalaburagi-I on 29.04.2023 for exposure trip from Department of Animal Husbandry & Veterinary Sciences, Kalaburagi.

Field visit was organized to orient them on different demonstration units established in KVK farm like Dairy, Poultry, Soil & Water Testing Lab, Vermicompost Unit, Azolla, organic Products unit, Hydroponics, medicinal & Aromatic Garden, Terrace Garden, Krishi Museum, etc. They learnt economics of indigenous cow dairy farming, preparation of By-product'sviz., Vibhuti, Dhoop, Agarbatti, Pranati, Pots and Soap from cow dung& Urine. Pic 33Dr. Manjunath Patil, Scientist (Animal Science) gathering and welcomed to the Pashu Sakhis and explained about importance of indigenous livestock in integrated farming system and vermicompost and azolla preparation. Dr. Shreenivas B. V,



Scientist (Soil Science)briefed about Importance of Soil Health and Soil & Water testing and soil and water conservation in Agriculture,integrated farming system. Dr. Zaheer Ahamed, Scientist (Pathology) nourished about the different disease and their management practices in Pulses.Dr. Devendra Biradar, Chief Veterinary Officer, Animal Husbandry department Kalaburagi, staff and 40 farmer womens interacted about agriculture technologies in the programme.



## ICAR- KVK Kalaburgi - II

### Guest lecture on Improved production technologies in major fruit and vegetable crops to DAESI Participants of AEEC, Bheemarayangudi on 20thApril 2023

Dr. Chethan T., Scientist (Horticulture) ICAR-KVK, Kalaburgi-II (Raddewadgi) delivered guest lecture on Improved production technologies in major fruit and vegetable crops to DAESI Participants of AEEC, Bheemarayangudi on 20th April 2023. During the lecture covered the following



topics. Importance of soil and water test before planning the orchards, Importance of natural resource viz., Land, Water & Sunlight in agriculture, Selection of crops according to the locality and its suitability, Management of

biotic and abiotic stress in fruits and vegetable crops, Suitable crops and cropping system under both irrigated and dry land condition, Awareness about post harvest handling operations of fruits and vegetables to fetch high prices. ■



## ICAR- KVK Kannur

### Training on Scientific Cultivation of Ginger and Turmeric



KVK Kannur organized a training programme on Scientific Cultivation of Ginger and Turmeric to beneficiaries of Scheduled Caste Special Programme (SCSP) on 30th April 2023. Dr. Manju K. P., Assistant Professor (Entomology) briefed about the SCSP programme. Dr. Jayaraj P., Programme Coordinator, KVK handled an interactive session on scientific cultivation of ginger and turmeric. Thirty farmers attended the training programme and discussion.

Input kits were distributed to farmers including bioagents. In feedback session farmers shared their experiences in farming and expressed their satisfaction in timely training on scientific cultivation before planting of improved varieties of ginger and turmeric distributed by KVK as part of SCSP programme.



## ICAR- KVK Kasaragod

### SCSP Programme

The ICAR-KVK Kasaragod is promoting self employment and agri entrepreneurship for youths under Scheduled Caste community through various skill trainings and custom hiring of agricultural machinery. Under the SCSP scheme, various machinery and equipments were procured. These include weeding and sowing operations, harvesting of arecanut and spraying, arecanut leaf sheath plate making, processing of honey and poultry production

The machinery and equipments purchased to facilitate the SC beneficiaries for income

generation through group activity or through individuals by imparting Skill oriented trainings at KVK are brush cutter for weeding operations, pre-germinated paddy seeder for line sowing (8 rows), telescopic carbon fiber pole harvester with motorized powder sprayer for harvesting of arecanut bunches as well as for crown spraying, egg incubator with a hatching capacity of approx.200 eggs to facilitate and upscale poultry as enterprise, honey extraction unit to upscale apiary as enterprise and facilitate clean honey extraction.



Pre-germinated Paddy Seeder



Egg Incubator



Areca Sheath Plate Moulding Machine



Honey Extractor



Brush Cutter



## ICAR - KVK Kodagu

### Capacity development programme on Scientific Nursery Management

One day capacity development on Scientific Nursery Management was conducted at ICAR-KVK Instructional farm. Mr.Veerendra Kumar. K.V, SMS (Plant Protection) explained in detailed about Scientific Nursery Management skills in Black Pepper, different methods and pest management in nursery. Mrs. Lakshmi R, Senior technical assistant (Field/farm) ICAR-KVK,Kodagu Demonstrated the propagation of pepper trellis (mother plants) , production of single node pepper cuttings and maintenance



of pepper nursery by scientific method was demonstrated single node method of Black Pepper nursery production. A total of 41 farmers, youths and farm women attended the programme.

### Method demonstration on Soil Sampling procedure to Rural youths

Method demonstration on Soil Sampling procedure was conducted to rural youth at ICAR-KVK, Gonikoppal. Mr.Prabhakara.B. SMS (Horticulture) highlighted the importance of soil testing and role of organic carbon and beneficial micro organisms in maintaining soil health and its crop production to the gathered farmers. Method demonstration of Soil Sampling procedure, soil pH was demonstrated to the 40 participants.



## ICAR-KVK Kolar

### Field visit to problematic banana plantation

Dr. Anil kumar. S., Scientist (Soil Scientist) and Dr.Asha K. M, Scientist (Horticulture) made field visit to problematic banana crop at Mathikunte village of Kolar Taluk on 24.4.2023. Identified Fusarium Wilt and Nutrient deficiency and suggested management practices for the same.



## Field visit to problematic Jasmine and Gladiolus flower crops



Dr. Anil kumar. S., Scientist (Soil Science) and Dr. Asha K.M, Scientist (Horticulture) made problematic field visit to problematic Jasmine and Gladiolus crops at Hosahalli village of Kolar Taluk on 24.4.2023. Identified Budworm damage, Agronomic mismanagement and Nutrient deficiency in Jasmine crop. Diagnosed root mealybug and Nutrient deficiency in Gladiolus crop and suggested management practices for both the crops.

## Fourth Batch DAESI programme at KVK ,Kolar



ICAR-KVK, Kolar organized Fourth Batch DAESI programme at KVK, Kolar on 26.04.2023 for DAESI input Dealers. Dr. Dhanunjaya P, Assistant Professor(SST) COH, Kolar delivered lecture on Seed quality testing methods. Mr. Pottappa, K, Assistant Professor (Agricultural Extension), COH, Kolar gave information on Communication skills for better Business Establishment. A total of 39 DAESI trainees were benefited from the programme.



## ICAR- KVK Koppal

### Popularization of weather based Apps to farmers of Koppal district

Popularization of weather based Apps to farmers at Challari village of Koppal district. The programme was conducted under the guidance of Dr. Raghavendra Yaligar, Senior Scientist and Head, ICAR-KVK, Koppal. Dr. Fakeerappa Arabhanvi, SMS (Agromet) had given a lecture on importance of weather forecast in agriculture and usage of weather based apps to farmers. More than 25 farmers were participated in this programme.



## ICAR - KVK Kottayam

### Farmers meet

Farmers meet was conducted by KVK Kottayam in collaboration with Olassa Public Library on 30.04.2023. Around hundred farmers took part in the programme. Sessions on Integrated farming system, scientific technologies in rice cultivation and fish farming was conducted. Farmer scientist interaction was also organized in the afternoon session. The farmers actively took part in

the interactions and discussed about the latest technologies for enhancing productivity and reducing cost of cultivation. Leaflets and brochures on different aspects were distributed to farmers. Panchayat president Smt. Sabitha Premji and ward member Smt Anu Gopi Krishnan attended the programme. Seeds, planting material and bio inputs were also distributed.



## ICAR - KVK Kozhikode

### Exhibition on Millets value added products

During the Zonal Annual Review 2022-23 and Annual Action Plan 2023-24 Meeting of KVKs of Kerala & Lakshadweep held at Silver Jubilee Hall, ICAR - Indian Institute of Spices Research, Kozhikode, an exhibition cum

awareness programme on Millets value addition was held. The programme was inaugurated on 25th April by Dr. V. Venkatasubramanian, Director, ICAR-ATARI, Bengaluru with the presence of Dr R. Dinesh, Director, ICAR -



IISR; Dr Jacob John, DE, KAU; Experts from KAU, ICAR- IISR, CMFRI- RC, Calicut, CWRDM, DASD and Fifteen KVK experts of Zone XI. All the millet seeds and value added products like biscuits, noodles of Ragi, Sorgam, etc prepared by M/S. Pragathi Foods, Kayana was displayed and sold to participants. Cooked products like millet puttu, noodles, ragi pakoda prepared by IISR processing unit were also displayed. The participants were served with multi millet drink and millet snacks.

## Field visit of ATARI and IISR experts to review the progress of new introductions in Kozhikode district



Murrel fish, *Channa striata* locally known as "viral" is a high value fish, which was once abundant naturally in paddy fields, later its stock declined over the period due to various reasons. Krishi Vigyan Kendra, Kozhikode had taken up this demonstration to revive murrel farming and to help fresh water fish farmers who are facing marketing contains. The fishes had attained an average size of 450g in 5 months. Field day of this FLD by harvesting of fishes was inaugurated by Dr.B. T. Rayudu, Nodal Officer ATARI Bengaluru at a demo plot of Mrs. Subaida Mayan, Naduvannur. The programme was presided by Dr. P. Ratha Krishnan head KVK Peruvannamuzhi, Kozhikode. Dr. Thimmappa, Principal Scientist, ATARI Bengaluru; Dr. P. Rajeev Principal Scientist, IISR, Kozhikode and Dr. B. Pradeep, SMS- Fisheries, KVK Kozhikode spoke on the occasion.

The Team of experts were also visited the uncommon crops like green gram, Til and Finger millet cultivated by Mr K. Dasan, Naduvannur. Even though these crops were cultivated earlier, presently its cultivation in Kozhikode district is nil due to the decline of interest of farmers, unseasonal rain and drought. The farmer narrated





his interventions of early sowing (January) of these crops in baddy fallow and harvesting prior to the Monsoon showers. The team appreciated the efforts by Mr Dasan and recommended for its large scale adoption.



## ICAR -KVK Malappuram

### Natural farming demostration unit at KVK Campus

A demonstration unit was setup at KVK to promulgate the concept and practice of natural farming to the wider public. As an initial move, a desi cattle unit was established with a local breed of cow, a storage room and a yard for making natural farming preparation. A nutrition



garden plot near the cattle unit maintained by natural farming principles was applied with Jeevamritam and botanical plant protection measures made in the yard. The entire setup functions as natural farming demonstration unit for homesteads which can be replicated by individual households.



## ICAR-KVK Mandya

### Capacity Development Programme on Importance of soil testing

Capacity Development programme was organised by ICAR- Krishi Vigyan Kendra , V.C Farm, Mandya on 25.04.2023 with respect to Importance of soil testing and soil health, at B.Hullukere village of Mandya Taluk. The programme was conducted to deliberate to create awareness with respect to importance



of soil testing and maintenance of soil health. During the programme Dr. Atheefa Munawery, Scientist (Soil Science) emphasized on the need of soil testing in agriculture, how the soil health can be improved on getting soil test at regular basis and productivity of the soil can be improved. The information on procedure for the soil sampling and season for sampling and depth of sampling for different crops was discussed in detail and what are the precautions to be taken up during soil sampling and how the soil test results can be

used in calculating the required fertilizers with respect to a particular crop, the approaches for integrated nutrient management to increase productivity was provided. Mr. Yogesh, Farmer leader, urged the farmers to get soil tested three years once so that soil health can be maintained and use the fertilizers as per suggestions from the scientists from the centre. Subsequently for better understanding on procedure of soil sampling a method demonstration was conducted.



## ICAR - KVK Mysuru

### Scientist visit to COE Madduru



ICAR JSS KVK Suttur Mysuru Scientist Plant protection Dr Prasad Y P and Scientist Horticulture Dr. Vinay G M visited COE Maddur to gain the knowledge of production of Arka Microbial Consortium, Vermiwash, Fruit crops Mother block establishment, nursery techniques and other ongoing activities of the centre. Shivakumar, AHO, COE, Maddur explains neatly about the activities of the centre.

### Diagnostic field visit



ICAR JSS KVK Suttur Mysuru Scientist Horticulture Dr. Vinay G M visited NABARD adopted Mango orchards at Kasuvinahalli village of Nanjungud Taluk. Scientists diagnosed heavy fruit dropping, inadequate management of nutrients and pruning of mango and suggested the farmers to take spray of growth hormones to control fruit drop and practice to follow INM along with proper pruning to get higher yield along with good quality fruits.

## ASCI Gardner Assessment



ICAR JSS KVK Suttur, Mysuru with the collaboration of ASCI completed assessment for job role Gardner. Total of 23 participants attended in gardner online exam, viva voce and practical exam conducted by external Dr. Narayanswamy on 21-04-2023 at KVK campus.



## ICAR - KVK Palakkad

### Tribal sub plan project to improve livelihood security of tribes of Attappady

KVK Palakkad distributed Attappady black does and buck to the farmers from the ST community of Attappady region of Palakkad district under TSP programme on 19th April 2023. Around ten families were benefited by the project. Twenty other ST families of Kunnanchalaooru was also benefited with ten number of improved variety of native Thalassery female chicks. Under the program, the ST families were supplied with native breeds of goats and poultry to improve their nutritional as well as livelihood security.

An animal healthcare camp was also conducted on the day as a part of Tribal Extension Center of KVK, operating at



Attappady for the benefit of Tribes. More than thirty farmers were benefited in the camp. Health examinations, distribution of medicines and other nutrients were held during the occasion. Dr. Smijisha, Assistant Professor, KVK and Dr. Naveen, SVS, VH Agali and the officers from extension center conducted the animal health camp.

### Capacity building programme on preparation of instant weaning mix from millets

Svojas is a farmer group involved in processing of millets. They are marketing various products such as whole millet, millet flour, upma mix, millet semia, cookies, flakes etc. Considering the nutritional value of millets, baby foods from millets are a good option. But such products are not available in the market. If such a product is introduced, there will be good



demand in the market, due to its nutritive value. In this background, a capacity building programme was organised by KVK for the members of the farmer group on preparation of instant weaning mix. Dr. Reshmi, Assistant Professor, KVK handled a session in online

mode. Hands on training was given to the participants on preparation of weaning mix by Dr. Smijisha.A.S, Assistant Professor, KVK. The group has initiated the product preparation process.

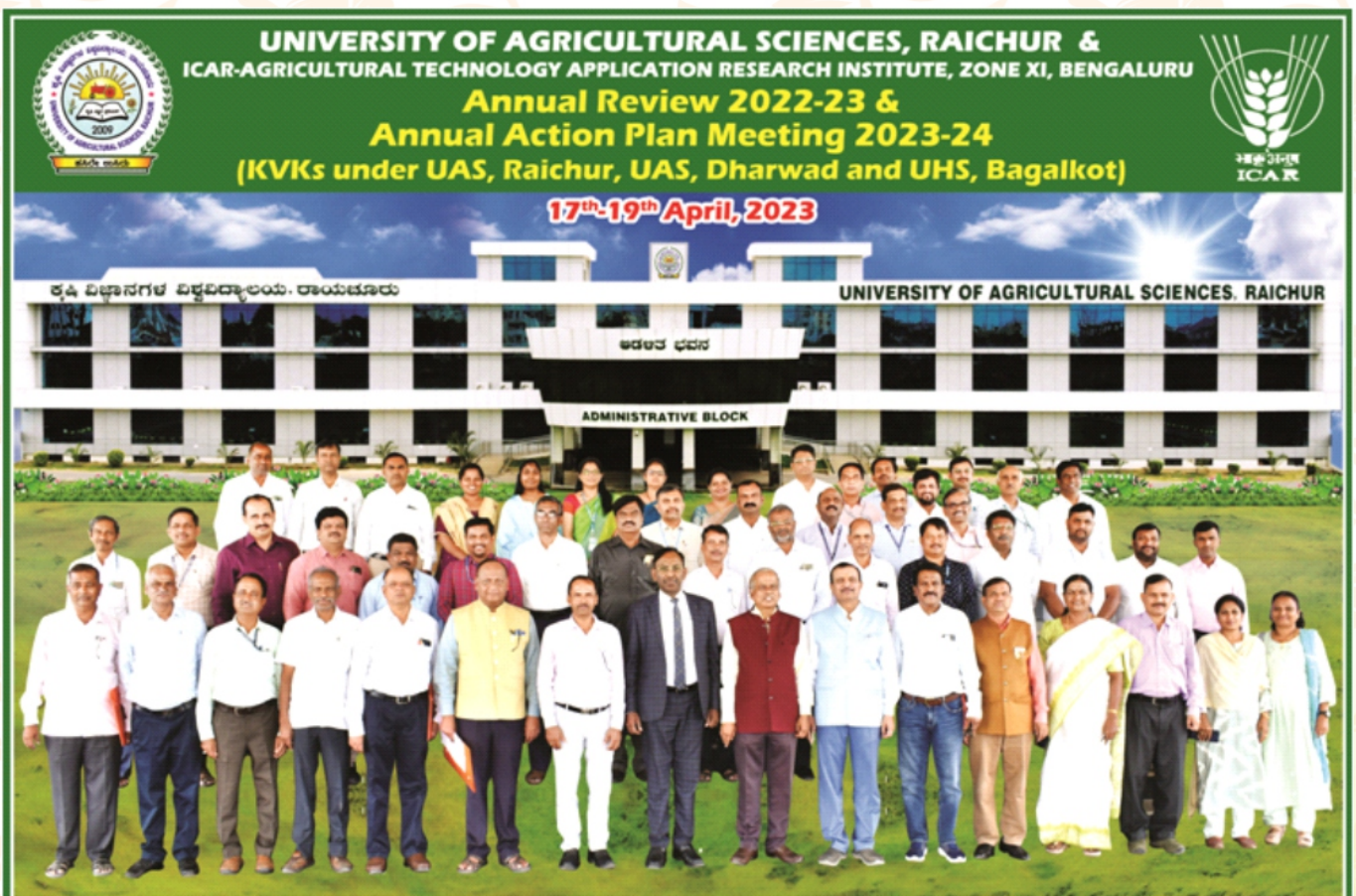


## ICAR - KVK Raichur

### Annual Review 2022-23 & Annual Action Plan Meeting 2023-24 (KVKs under UAS, Raichur, UAS, Dharwad and UHS, Bagalkot)

Annual Review 2022-23 and Annual Action plan meeting 2023-24 of KVKs of UAS, Raichur, UAS, Dharwad and UHS, Bagalkot under ATARI Zone XI was jointly organized by the ICAR-ATARI, Bengaluru and UAS, Raichur during April 17-19, 2023, at UAS, Raichur. The main objective of the workshop

was to develop out come oriented actionable plan of works and targets with respect to mandated activities for different disciplines in a KVK keeping in view the location specificity and potential of the respective districts under the zone.



The workshop inaugurated under the Chairmanship of Dr. M. Hanumanthappa, Hon'ble , Vice – Chancellor UAS, Raichur and the Dr. M.J. Chandre Gowda & Dr. D.V.S. Reddy Principal scientists, ICAR-ATARI, Bengaluru, Dr. M.G Patil, Director of Education, UAS, Raichur, Dr. B.K. Desai, Director of Research shared the dias. The workshop is also attended by the officers viz., Dr. N.K. Hegde, Director of Extension, UHS, Bagalkot Dr. S.A. Gadanakeri, ADE, UAS, Dharwad, Dr. R.B. Belli, ADE, UAS, Dharwad and Dr. Sripad Kulkarni, Nodal Officer KVKs, UAS Dharwad, Dr. Mallikarjun B. Hanji, Senior Technical Officer, ICAR-ATARI, Bengaluru, University HoDs of UAS, Raichur as subject experts. Dr. M.K.Naik, Director of Extension, UAS, Raichur, in his introductory remarks highlighted the emerging and challenging roles of KVKs in the changing agriculture scenario in the country. He further appealed all KVKs to work hard with strong commitment towards discharging their responsibilities in convergence mode with different stakeholders in the region.



The technical sessions were conducted in three session. Detailed power point presentations on Annual Review 2022-23 & Annual Action Plan 2023-24 were presented by Sr. Scientists & Heads of respective KVKs. Over 75 participants including Sr. Scientists & Heads of KVKs, Key Officers of UAS, Raichur, UAS, Dharwad and UHS, Bagalkote, Experts from college of Agriculture and college of Agricultural Engineering, Raichur, AICRP Scheme Heads besides invited guests attended the workshop.





## ICAR - KVK Ramanagara

### Demonstration of Optical Fruit Grading and Sorting Machine



The Mango Board, Government of Karnataka and Indian Institute of Horticultural Research, Bengaluru initiated work on “Optical Fruit Grading & Sorting Machine” for Mango and tomato in technical collaboration with Zentron Labs Pvt. Ltd., Bengaluru. The optical fruit grading and sorting machine is an innovation that automates the task of sorting fruits with higher accuracy and greater throughput. A combination of rigorous image processing algorithms and robust hardware ensures that each fruit is scrutinized comprehensively for all defects before exiting the inspection line. Fruits are also categorized into different grades based on a combination of colour, size, weight, and defect. The grading machine leverages on a machine vision system capable of i) Inspecting defects on the surface of fruit; ii) Determining the colour of fruit; iii) Determining the shape of fruit; iv) Measuring the size of fruit; v) Measuring the weight of fruit and vi) Creating farmer wise and

bin-wise reports. Ramanagara District Mango and Coconut Farmers Producer Organization and Krishi Vigyan Kendra, Ramanagara jointly participated in the demonstration of optical fruit grading and sorting machine for Mango and Tomato crop at District FPO office, APMC yard, Channapatna taluk of Ramanagara district on trial basis for further improvement and the services can be used by farmers as well the traders of the district on custom hire basis. Dr. Rajendra Prasad, B. S., Scientist (Plant Protection) from KVK Ramanagara, Dr. C. G. Nagaraju, Managing Director, Karnataka State Mango Development And Marketing Corporation Limited, Govt. of Karnataka; The Scientists from IIHR Bangalore; Dr. Krishna, Joint Director of Horticulture, GoK; Mr. C. M. Patil, CEO, Krishikalpa Foundation, Bangalore; Directors and members of District FPO and Engineers from Zentron were present in the programme.



## ICAR - KVK Shivamogga

### Bengaluru Division level Technical seminar for veterinary doctors on Diagnosis and Management of Intestinal affections in cattle



ICAR – Krishi Vigyan Kendra, Shivamogga in collaboration with the Department of Animal Husbandry and Veterinary Services, Shivamogga and Karnataka veterinary Association, Shivamogga organized technical seminar for Bangalore division veterinary doctors on Diagnosis and management of Intestinal affections in cattle on 15.04.2023 at M. S. Swaminathan Hall, College of Agriculture, Shivamogga. The programme was inaugurated by Dr. Manjunath S. Palegar ,Director, Department of AH and US, Bengaluru. Advised to all veterinarians to adopt new Technologies in treatment of animals. Hon'ble Vice Chancellor of KSNUAHS, Shivamogga Dr. R. C. Jagadeesh, Honorary guest and explained about the integration of Agriculture, Horticulture and Veterinary to combat the nutritional security of the farming community.

During the technical programme session, Dr. Ashok, M., Scientist (Animal Science), Krishi Vigyan Kendra, Shivamogga explained in detail about the present problems in Indian livestock. Dr. Manjunath, S. P., Senior Veterinary Officer, Department of AH &VS, Tumkur gave brief information about diagnosis and management of intestinal affections in cattle. The farmers also interacted with the scientist related to the other problems faced by them on livestock management. Totally 154veterinary doctors from 12 different districts participated in the Technical seminar.





## ICAR-KVK Thiruvananthapuram

### Sweet taste of training with bee keeping and honey production

Apiculture will provide opportunities for farmers and poor and landless families through developing honey production and marketing, improving the knowledge of bee keepers and to contribute to food Security via diversified value chains providing products of high nutritional quality.

**Interventions** : During 2022-23, ICAR-KVK, Mitraniketan has conducted long duration training program with 20 participants on Apiculture for farmers and farm women. 22 sessions including method demonstrations and practical sessions on different aspects of honey rearing and production i.e., from new born stage to the productive stage were carried out . On campus training conducted by KVK with the support of a master trainer Mr. P Radhakrishnan with an objective of developing apiculture entrepreneurs in Thiruvananthapuram District. During the training, farmers were given practical training as well as theory sessions related to different

aspects like feeding the colonies, managing the pests, splitting and multiplying the colonies, harvesting and on farm processing of honey. Support also provided through the practical classes which were scheduled in and outside KVK campus and they themselves arranged based on their requirements.

Farm Advisory services related to all the aspects were also provided through telephone & WhatsApp messages in the group developed especially for this newly emerged members.

The practical knowledge acquired during training programs conducted by KVK increased their confidence level and they themselves developed as master trainees. Now the group members are extending their help and providing advisory services to the newly developing honey bee farmers through social media like WhatsApp and field visits. Almost all the participants developed a mini apiary unit in their home place and maintaining the colonies with support of family members.





## ICAR – KVK Thrissur

### Jaithri - Born to win

Under the mega Agri-Eco-Tourism Project in Peechi, Thrissur a new vegetable and fruit processing centre was inaugurated by the Honourable Minister of Revenue and Housing, Shri K Rajan and the Honourable Minister of Law, Industries and Coir, Sri P. Rajeev on April 17, 2023. Set in the rustic village of Chennaypara, Pananchery grama panchayat, this new venture has bagged a huge investment of one crore and is primed to win the market in future under the brand name "Jaithri". It was a proud moment for Krishi Vigyan Kendra, Thrissur as well, as we were instrumental in grooming the task force behind the fruit and vegetable processing unit. To commemorate the contributions of KVK, the dignitaries honoured the Programme



Coordinator, KVK Thrissur on the occasion. Hence, "Jaithri" is not only another name of success but also a synonym for hope, skill, dedication and women empowerment.

The story began with a capacity building programme given on "Value addition of fruit and vegetables" to 30 selected farmers of Pananchery gramapanchayath at Krishi Vigyan Kendra, Thrissur. By constant hand holding and technical support provided by KVK, ten ladies among them were skill upgraded to the role of master trainers. A ten days vocational training programme on various aspects of fruit and vegetable production, processing and value addition were again conducted to prep them up. The interest and entrepreneurial skills exhibited by the group attracted the attention of Pananchery Service Co-operative Bank and provided them with modest but safe financial backup. The women group thus initiated small scale production of various value added products embarking on a journey to grand success under the brand name "Jaithri" which means "Victorious". Pananchery Service Co-operative Bank has now set up an Agro processing cum sale centre



including all major and minor processing equipment and accessories. They also have standardised mechanised packing systems for food items as well as certified safety grades. This initiative is anticipated to open up livelihood opportunities to at least 100 rural families of the village and the ten ladies trained and supported by KVK are the “women power” who runs the processing centre. We wish them all success.



## ICAR-KVK Tumkuru- I

### Field visit to Ginger plot

Dr. Keerthishankar, K., Scientist (Horticulture), ICAR-KVK, Tumkur-1 visited newly planted Ginger fields at Gowdanakatte village, Tiptur taluk on 18/04/2023. During the visit the scientist briefed about cultivation aspects of ginger such as suitable climate and soil condition, Rhizome selection and its treatment, Bed preparation, Spacing, Nutritional requirement, Pest and diseases management, yield and value addition of ginger. The farmer's are also interacted with the scientist related to constraints faced by them on the cultivation of ginger.

### Diagnostic visit to spiraling white fly infected coconut orchard

Dr. Keerthishankar, K., Scientist (Horticulture), ICAR-KVK, Tumkur-1 visited coconut orchard at Lakkasandra village, Turvekere taluk on 24/04/2023. The visited orchards was severely infected by spiraling white fly and scientist advise the farmers regarding integrated pest management on spiraling white fly. During this time 5 neighboring coconut farmers are also participated and gain the information regarding management of spiraling white fly.





## ICAR-KVK Tumkur- II

### Sri. B.S.Sadashivaiah Conductor cum Innovative Vegetable Farmer

**Background:** Sri. B.S.Sadashivaiah aged 42 is from the village Baychapura, Haraluru in Tumakuru district of Karnataka. He is working in BMTC as a Conductor in Bengaluru city for his livelihood after the completion of ITI Fitter Course. He used to earn around Rs.30,000 per month in this way. He has a landholding of 4.75 acres with irrigated, rainfed and agro-forestry areas in his village. He was identified by SMS Agril. Extension from KVK Hirehalli during 2009.

**Interventions:** Today, he is a vegetable farmer, growing vegetables like french beans, tomato, brinjal and green leafy vegetables also fruit crop Mango for the last 14 years. Earlier, he used to grow field crops like ragi, and redgram, but the income was not satisfactory. He is now growing Arka Suvidha, & Arka Anoop, improved french beans varieties & Arka Anand F1 Hybrid brinjal of Indian Institute of Horticultural Research (IIHR), Bengaluru.

The yield of French beans ranged from 13.5 –15.5 t/ha, which is the highest among nearby villages. Arka Suvidha variety fetched more price in market as it is a stringless variety. Whenever labour problem arises, harvesting can be done even after a gap of 5 days, as the beans of this variety do not lose its quality. Yield wise Arka Anoop is found to be the best. He could get 16.2 t/ha, and the variety is also resistant to important diseases like rust and bacterial blight. He got a market price of about Rs.24/kg for Arka Suvidha compared to Arka Anoop and Arka Komal (where he fetched Rs.22/kg). He now prefers to grow Arka Anoop and Arka Suvidha because of their additional



qualities and high yield. According to Sri. B.S.Sadashivaiah Arka Anoop and Arka Suvidha are having good cooking quality. Arka Suvidha fetches higher price in the market because of its preference by working women. Also Arka Anand yield: 30 to 50 t/ha in 145 – 150 days.

**Output and outcome:** Earlier, Sri. B. S. Sadashivaiah, as a small time farmer used to bring his vegetables for sale to important markets of Bengaluru. Once he started growing in large scale, neighbouring vegetable vendors came to know about his produce and quality of the vegetables. Hence, the vendors come to his place and purchase the produce at attractive prices.

The seeds of improved varieties were provided for demonstrations by the KVK (IIHR) during the year 2010. After knowing the performance of these varieties, Sri. B. S. Sadashivaiah visited and interacted with scientists of KVK and procured the seeds. He started growing improved varieties from 2010 onwards and he is now realizing higher yields. Sri. B. S. Sadashivaiah is constantly in touch with Subject Matter Specialist (Agril. Extension) and as a follow up, the SMS and

other KVK staff visit his field regularly. He has been provided with all the need based knowledge and skill, which included enrichment of fertilizer, pest management, foliar spray – Vegetable Special, Mango Special and AMC etc.

**Impact:** During his visit to KVK, he came to know about the vegetable special for the tomato, beans and other vegetables. The recommended dosage of vegetable special for tomato is 75 grams in 15 litres of water along with 1 shampoo sachet and 2 medium sized lemons. For french beans, it is 2 grams per litre. He is now using vegetable special regularly as he has noticed that the fruit quality and diseases resistance of the crops have improved. It also helps in retaining more number of flowers, thus increase in the fruit set, leading to higher yield.

Similarly, as an intercrop in mango, he was growing mucuna with the technical guidance from KVK Scientists. He follows techniques

like mulching technology, use of fruit fly traps in mango, use of bio-fertilizers for enrichment of soil. He started using both bio-fertilizer Arka Microbial Consortium and bio-pesticides Neem and Pongamia Soap. He has also started growing other improved varieties like, Arka Anand (a hybrid green long Brinjal from IIHR, resistant to bacterial wilt) and Tomato ArkaRakash F1 hybrid

He has been recognized by KVK for adoption of IIHR Technologies during March 06-07, 2019 had gained knowledge in the concerned subject. He also participated in the Vocational Training programme – Mushroom. Documentation by DD Chandana crops like Mucuna and Brinjal. A private channel Samaya TV documented Mucuna – Arka Dhanwanthri

The key to his success seems to be his eagerness to learn and understand quickly, hard work and positive attitude. He is now a model vegetable farmer for the region.



## ICAR- KVK Udupi

### Honey Bee farmer valedictory Programme

A 25 days skill development training program on “Honey Bee Farming” was jointly organized by Keladi Shivappa Nayaka University of Agriculture and Horticultural Sciences, Shivamogga; Indian Council of Agricultural Research - Krishi Vigyana Kendra, Brahmavara, Udupi District; Agriculture Skill Council of India, New Delhi and Zonal Agriculture and Horticultural Research Station, Brahmavara. The program concluded on 20th April 2023 at ICAR - Krishi Vigyana Kendra, Brahmavara, Udupi District. The valedictory ceremony was inaugurated by Dr. Lakshmana, Associate Director of



Research, Zonal Agriculture and Horticultural Research Station, Brahmavara. In his inaugural address he explained how bee farming can be taken up as an entrepreneurship in rural areas. Dr. Dhananjaya B, Senior Scientist and Head,

Indian Council of Agricultural Research - Krishi Vigyana Kendra, Brahmavara, Udupi Presiding over the session, shared his experiences and gave an account on how to continue with this farming practice. Explaining the importance and conservation of nature, the Principal of Diploma College of Agriculture, Brahmavara, Dr. K. V. Sudhir Kamath mentioned about the value of bee keeping practices. As chief guests, Shri Suresh Karkera, Progressive honey bee farmer, Dr. Revanna Revannanavar (Agriculture Entomologist), Zonal Agricultural and

Horticultural Research Station, Brahmavara, Dr. Raviraj Shetty, Scientist (Horticulture)KVK, Brahmavara, Shri Lakshmana Naik, Honey bee demonstrator, Udupi were present during the occasion. Dr. Sachin U. S. Scientist, (Plant Protection), Krishi Vigyana Kendra, Brahmavara, with an introductory talk welcomed and thanked the guests and trainees, while Remedina Presca D'Costa (Research Associate - Agriculture Entomology - Natural Farming), Zonal Agriculture and Horticultural Research Station, Brahmavara compered the program.



## ICAR -KVK Uttara Kannada

### ARYA-Attracting and Retaining Youth in Agriculture

ICAR-Krishi Vigyan Kendra, Uttara Kannada, Sirsi has implemented entrepreneurship programme in Processing and Value addition, Plantation crop Nursery and Goat farming to Rural youth of Uttara Kannada during 2022-23 under ARYA project funded by ICAR-New Delhi. Organized skill development with hands on training to 20 youths under processing and value addition, 30 under plantation crop nursery and 20 under Goatery, totally 70 youths were benefited from the programme. Youths were provided with essential inputs like, Dryer, Pulvarizer, jackfruit chips cutter, moulds, sealing machine for establishment of processing and value addition units. Wheel barrow, shade net, poly bags, grafting and nursery equipments to establish plantation crop nursery units and Osmanabadi Goats, chaff cutter machine, fodder seeds to establish Goatery unit. Totally 12 entrepreneurship units were established, 4 units in processing and value addition, 5 in plantation crop nursery and 3 units in Goatery.



Banana Sukeli, Banana Powder, Jackfruit chips and Papad are the major products prepared by processing units, Arecanut, black pepper, cardmom, mango, Nutmeg are the plants producing from nursery units, Osmanabadi goat kids produced from Goatery units. 23 youths established their own units to generate self employment, among which 6 in processing and value addition, 8 in nursery and 9 in Goatery.

Osmanabadi goats and chaff cutter provision to rural youths in presence of Director ATARI, Bengaluru and Director of Extension, UAS, Dharwad

## Skill upgradation of women in dairy farming sector

The programmes were organized by ICAR-Krishi Vigyan Kendra, Uttara Kannada, funded by National commission for Women, New Delhi. Two, 5 days skill upgradation training programmes were organized to women dairy farmers during March 2023, 63 farm women were participated in the training. The programmes were inaugurated by women entrepreneurs Smt. Mamata Hegde, and Smt. Leela Devendra Shetty and inspired the trainees to take up self-employment activities to enhance family socio-economic status. The hands-on training sessions were organized to impart knowledge on mechanization in dairy farming, advanced technologies to control production disorders, biosecurity measures to control infectious diseases, fodder production technologies, feeds, balance feed formulation, TMR preparation, different methods of silage making, milk and milk products preparation, registration, licensing and marketing of new



products. One day exposure visit was organized to scientific dairy farm, milk processing units and organized milk products preparation competition to encourage the trainees. On the final day post training evaluation was conducted and provided training certificate and mastitis prevention kits to popularize the technology in controlling mastitis.



## ICAR-KVK Vijayapura-I

### Webinar on Management Strategies to Control Mastitis in Cattle and Buffalo

Animal scientist, KVK Vijayapura has participated as resource person in webinar organized by krishi jagran, Karntaka on management strategies to Control Mastitis in cattle and Buffalo on 29.04.2023. In the webinar, topics like role of dairy industry in the

economy of India, the status of mastitis, effect of mastitis on quality and quantity of milk, reasons for mastitis and its control measures... etc were discussed. Around 207 farmers were participated during the webinar



## ICAR-KVK Vijayapura-II

### Field Day on Groundnut under CFLD-NMOOP

A Field Day on groundnut was organized in the field of Sri. Eranna Kuradi, a progressive farmer from Ahirsang village of Indi taluka on 24.04.2023. In Ahirsang village 25 demonstrations were taken provided with GBPD-4 pods @ 30 kg/farmers under CFLD-NMOOP scheme. Dr. Shivashenkarmurthy, Sr. Scientist and Head, ICAR-KVK, Vijayapura-II (Indi) explained details of groundnut crop production technology (GPBD-4) to the farmers. Dr. Savita B. Scientist (Soil Science), ICAR-KVK, Vijayapura-II (Indi) explained important of gypsum and micronutrient (FeSO<sub>4</sub>, ZnSO<sub>4</sub> and Boron) in groundnut to the farmers. Sri. Eranna Kuradi, farmer expressed that in new variety of GPBD-4 pod size is good and disease incidence is less as compared local variety TMV-2. Further, this variety is expected



to give yield around 6-8 quintals per acre. In this programme around 35 farmers and 8 women farmers were benefitted by the programme. All farmers were taken to the demonstration field and they were shown both GPBD-4 and local variety. The programme was ended with vote of thanks by Mrs. Heena M.S. Scientist (Horticulture), ICAR-KVK, Vijayapura-II (Indi).



## ICAR -KVK Wayanad

### World Bank Officials Visited ICAR-KVK Wayanad

As part of the KERA-Technical Mission on Extension Advisory Services, Ms. Azeb Fissah Mekonnen (Senior Agricultural Specialist at the World Bank Group), Dr. Rasheed Sulaiman V (Director-CRISP, FAO consultant), Mr. Jacob Joy (Team Lead, PPT) visited Krishi Vigyan Kendra Wayanad on April 2023. Dr. Safia N.E, Senior scientist and head deliberated about the extension activities undertaken by the Krishi Vigyan Kendra in the district. Scientist in charge of



various units of KVK described the working of each unit.

The motive of the visit was to document and contribute towards reforms in the agriculture sector by identifying climate-resilient agricultural practices for mitigation of regional production constraints. Understanding the scope of value addition and market assurance in enhancing livelihood security of the rural farmers was the other major agenda of the discussion. The progress of the NICRA project (National Innovations in Climate Resilient Agriculture) implemented via the institution was also discussed. The team also visited the common facilitation centre for agricultural commodities, cool chamber, processing unit,



soil testing laboratory, biocontrol unit, and mushroom unit of the Kendra. They were quite impressed by the ground-level extension work and institution's policy towards the betterment of the farming community.

## ICAR KVK Wayanad Inaugurated common facilitation centre for processing of millets

As The United Nations has been celebrating 2023 as the International Small Grain Year, Government establishments, non-governmental organizations and agri producer companies have taken up millet farming as a farming capable of surviving drought in the changing climate to ensure food security. The lack of technical facilities for processing and value- addition of small grains is creating a huge difficulty for farmers and entrepreneurs in the sector. There is a growing demand in the market for products made of small grains that can be easily prepared to solve health problems. In this situation, with the financial help of the NABARD, KVK Wayanad has started the processing centre of millets. The inauguration of the facilitation centre of millets was held on Friday, April 28. Dr. G.S Arularasan, Assistant Professor, KVK



Wayanad welcomed the gathering. KVK Senior Scientist and Head, Dr.Safia N.E presided over the function. NABARD Chief General Manager, Dr. G Gopakumaran Nair inaugurated the program. NABARD AGM, Wayanad Smt. Jisha Vadakkumparambil and Wayanad Kisan Group representative Sri. Sunil Mannankuzhyil described the scope and importance of small grains in human diet. Vote of thanks was delivered by Smt. Ashita M.R, Assistant Professor, KVK Wayanad.



## ICAR- KVK Yadgir

### Capacity development programmes



ICAR - KVK Yadgir has conducted capacity development programme on Integrated farming system to 60 farm womens of yadgir district. Dr.Kotresh Prasad, explained about different animals components and its management under IFS system and Dr. Hanumanthappa briefed about different agricultural crops to be integrated under rainfed and irrigated system of IFS. Dr. Jaiprakash Narayan briefed about importance of horticulture crops and importnace of IFS for doubling farmers income to the farm women's and they visited demonstration units at ICAR-KVK, Yadgir



ICAR - KVK, Yadgir has conducted capacity development programme for 52 farm womens from Gurmitkal taluk of Yadgir district on garden management and different propagation techniques. Dr.Jaiprakash Narayan, Senior Scientist and Head explained about different propagation techniques at ARS, Kawadimatti and gave hands on training to the womens

# Nature at its BEST to attract the Tourist's



**Kali River Rafting**

**Sahasra Linga**



**Madhukeshwar Temple**



**Tibetan Monastery**



**Shri Marikamba Temple**



**Lion-Tailed Macaque**



**Murdeshwara**



**Om Beach**



**Satodi Falls**



**Yana**



**Sharavati valley**



**Horn Bill**