

KVK TIMES

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

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KVK TIMES
A window to KVKs
of ICAR-ATARI
Bengaluru

Published by

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Foreword

Dr. V. Venkatasubramanian
Director

Agriculture is the primary source of livelihood of about 58 % people either directly or indirectly. Food production stuffed with nutrition and hygiene ensures income, wealth and health security of the nation. Conservation and improvement of Jameen, Jan, Jal, Janwar and Jungle are possible only by Agriculture and vice versa. In this juncture, Krishi Vigyan Kendras, a farmer friendly institutional support of ICAR plays pivotal role to increase the production, enhancing income and secure livelihood of farming community. KVKs are serving the door step requirements of the farming community and this publication "KVK Times" is a platform created by ICAR-ATARI, Bengaluru to document fortnight achievements of KVKs of Zone XI and sensitise the opportunities of making replication of success stories by cross leaning and adoption. 1 to 15th September fortnight issue of KVK times (Vol - 1, Issue: 29) is being compiled by KVK, Kozhikode. It's parent organization, ICAR- Indian Institute of Spices Research, Calicut, a premier ICAR institution received several laurels including three time winner of "Sardar Patel Outstanding ICAR institution award" guiding this KVK effectively and compassionately. Reorganization of our KVK nominated farmer (Best farmer award of South West zone – Mr. K.T. Francis, Maruthonkara) and Scientist (Best Extension Personnel – Dr Sivakumar, T, SMS, KVK, Alappuzha) by Coconut Development Board, Cochin were also happened during this fortnight period, which gives immense pleasure to share with all.

I whole heartedly appreciate the guidance, care and support given by Dr (Smt). C.K. Thankamani, Director, ICAR-IISR and Directorate of Extension, KAU to KVK, Kozhikode for their exemplary activities and achievements even though it is located in remote location Peruvannamuzhi. My Best wishes to Dr. P. Ratha Krishnan and Team KVK, Kozhikode for this nice compilation.

(V. Venkatasubramanian)

Bengaluru
20September 2022



Message

Increasing the agricultural productivity through sustainable practices can be an important way to maintain the land for farming, to slow the environmental degradation, to mitigate climate change and to enhance the income of farmers. Spices not only improve the taste of food but also are good source of vitamins, antioxidants and they have medicinal as well as nutraceutical properties. India's spice production stood at 10.7 million tonnes (2020-21), exports nearly doubled Rs 30,973 crores from Rs 14899 crores in 2014-15 and five year Compound Agricultural growth rate of India's Spice export was 12 %. The quality spice production is a reflection of Research & Developments efforts by institutions and extension activities by agencies like Krishi Vigyan Kendras. Our KVK, Kozhikode is working for the betterment of farmers since 1992 and is recognised as one of the best KVK at zonal level. Other than our mandated spice crops they are also popularizing and demonstrating good agricultural practices of coconut (ODOP of Kozhikode), banana, tapioca, fruit plants, etc. Its role in income and livelihood improvement of farmers is being well accepted through nursery establishment, ornamental fish culture, backyard poultry rearing, value addition of fruits, etc.

Krishi Vigyan Kendras are fulfilling the farmer's requirements and bridging the gap between institutions and line departments effectively. KVKs all over India have documented more than 110 doubling farmer's income cases per district and the publication "KVK Times" of ATARI, Bengaluru is a novel mode of documenting and recognizing the activities of KVKs of Zone XI. It shows the potential and success of KVK system as best extension agency.

I also value and appreciate the guidance and support provided by ATARI, Bengaluru; Directorate of Extension, KAU and other KVKs for cross learning and adoption of technologies for the benefit of farmers. I congratulate the Programme co-ordinator and his team for bringing out the 29th edition (Vol.1) of KVK Times, KVK, Kozhikode.

Dr. C.K. Thankamani
Director
IISR, Kozhikode



Message

Kozhikode district is blessed with diverse climatic situations and farm holding size. At present agriculture based eco-tourism is getting popularized especially in the coastal region and dam sites of the district. District Panchayat is rejuvenating farming in paddy fields, back water sites and wastelands. Farm mechanization along with group farming is being focussed to get the success. In this juncture, the linkage of KVK, Kozhikode with line departments of the district and agencies like NABARD, CDB, DASD, FPOs, Cooperative banks, Societies, etc are appreciable and the doubling farmer's income, impacts are seen visibly along with recognition of farmers at national level through awards.

The role of Krishi Vigyan Kendra, IISR is very well accepted by all regions especially on bush pepper production, ornamental fish culture, bio-floc & aqua-ponic fish rearing techniques, rearing of animals, mushroom cultivation, etc. Myself personally associated and seen the progress of pulses area augmentation, introduction of new crops like strawberry, small onion by KVK, Peruvannamuzhi in this district. The recent attempt viz., "KVK Times" of ATARI, Bengaluru compiled by Kozhikode KVK deserves appreciation and our heartfelt wishes to the team KVK, Kozhikode and other associated agencies.

Smt. Sheeja Sasi
President, District Panchayat
Kozhikode



Message

Krishi Vigyan Kendras (KVKs) are Farm Science Centres operating in each district and serving as first line extension systems of ICAR. They are putting in tremendous efforts to increase the farmer's income, attract youths into agriculture, creating self-employment opportunities through development of allied enterprises. KVKs also organize and conduct need based skill / capacity building trainings and mass awareness programmes on various scientific aspects of agriculture. Kerala Agricultural University is the technological partner of KVKs in Kerala and are very closely associated with their activities. The attempt of "KVK Times" compilation by Kozhikode clearly depicts its impact in the district and role in serving as a platform for cross learning between KVKs of Zone XI.

KVK, Kozhikode team deserves appreciation for their commendable effort.

Dr. Jacob John
Director of Extension, KAU



Message

Improvement of farmers welfare and doubling farm income are the focal points of Agriculture department. Towards this, combined effort of all the stakeholders is being attempted, in which the major role of Universities and institutions as technology partners and KVKs as extension partner are fetching more important. The part of KVK, Kozhikode is appreciable and we are closely associated with them through Krishi bhavans, ATMA and region specific projects implementation. This present compilation "KVK Times" by KVK, Peruvannamuzhi is reflecting the activities carried by other KVK's too from Zone - XI. This effort deserves appreciation and our best wishes to team KVK, Kozhikode.

P. R. Remadevi
Principal Agriculture Officer
Kozhikode



Acknowledgement

I am extremely proud and privileged to be entrusted with the responsibility to compile and edit the KVK times Vol – 1, Issue no: 29 covering the period 1 to 15 September 2022. I express my sincere gratitude to Dr. V. Venkatasubramanian, Director for his guidance and encouragement and Dr. K. Thimmappa, nodal scientist and staff of ICAR-ATARI, Zone-XI, Bengaluru for providing us a great opportunity to bring this issue with contribution of all KVKs of this Zone.

It is my pleasure to express deepest sense of gratitude and heartfelt thanks to Dr. C.K. Thankamani, Director, IISR, Calicut for the support and care. I am also obliged to Smt. Sheeja Sasi, President, District Panchayat, Kozhikode; Dr. Jacob John, Director of Extension, KAU, and Smt P. R. Remadevi, Principal Agriculture Officer, Kozhikode for their association and contributions.

Indeed, it is a memorable period which made all our KVK staff involvement and collect information from total 47 KVKs located in Kerala, Karnataka and Lakshadweep. This task made opportunity for cross learning and exposed us to the activities of other KVKs. This compilation reflects the Onam period activities and Poshan Abiyan programmes of Kerala KVKs and Community Resource Persons of Farm Livelihood (Krishi Sakhi) events and seasonal field activities of Karnataka KVKs.

I wish to thank all my fellow colleagues of KVK family, Zone-XI for sharing the valuable information in time. My heartfelt thanks to my entire team of ICAR-Krishi Vigyan Kendra, Indian Institute of Spices Research, Kozhikode for their continual support and valuable time to collect, compile and draft this Magazine effectively.

P. Ratha Krishnan

Programme Coordinator
Krishi Vigyan Kendra, IISR, Kozhikode

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Congratulations



KVK, Kozhikode nominated progressive farmer selected as best coconut farmer

Sri. K.T.Francis, Kaithakulathu House, Maruthonkara (P) Kozhikode received the 'National Award for the best coconut farmer – South West region (Large) instituted by Coconut Development Board, Kochi in the World Coconut Day function held on September 2nd. Hon.ble Union Minister of Agriculture and Farmers' Welfare Sri. Narendra Singh Tomar announced the awards online and physically handed over by Shri. K. Babu, MLA, Tripunithura. He is practicing innovative mixed farming with spices such as pepper, nutmeg, ginger, turmeric, etc along with arecanut, cocoa, coffee, tuber crops, fruit plants, fodder grass, upland rice in his coconut garden covering 3 acres of land. His main coconut cultivar are WCT including Kuttiyadi, Kerasree, Malayan dwarfs etc. He is also maintain dairy, goatery, duck rearing, apiculture, fish culture, poultry units and earning decent income after his retirement as a Physical Education Teacher in a local school.

KVK, Alappuzha staff received national recognition

Dr. T. Sivakumar, SMS (Agrl. Entomology), KVK-Alappuzha received the 'National Award for the best coconut extension personnel' instituted by Coconut Development Board, Kochi in the World Coconut Day function held on September 2nd. Hon.ble Union Minister of Agriculture and Farmers' Welfare Sri. Narendra Singh Tomar announced the awards online and physically handed over by Dr. Jelfina C. Alouw, Executive Director, International Coconut Community, Indonesia. The award comprising of cash prize, certificate and mementowas bestowed to him on his meritorious extension work in supporting the coconut farming community through various activities like FFS, demonstrations of technologies, trainings, publications etc.

Bushpepper Production: A Flagship Entrepreneurship Activity

Background

Black pepper, the “King of spices” is a major spice crop cultivated in Kozhikode district. It is mainly grown as an intercrop in coconut and arecanut gardens and also as a pure crop on various tree standards. Cultivation of bush pepper is a viable option wherein pepper can be grown without trailing on a standard tree in potted form in places where no land space is available especially in urban or semi urban areas. In this backdrop, KVK, IISR attempted to promote the production as well as cultivation through trainings, demonstrations etc since 2005.

Interventions

KVK organized on and off campus training programmes on the technology to create awareness as well as to promote its cultivation in Kozhikode and neighbouring districts. During the period 2015-2022, 25 training programmes were organized benefitting > 1000 farmers. In addition, KVK also took up the production and sale of bush pepper plants to meet the demand from farmers. A total of 30,834 plants were supplied to 6728 farmers mainly for homestead cultivation. Further, cultivation of bush pepper in pots was promoted in different panchayats of Kozhikode and neighbouring districts by supplying bush pepper plants through schemes of Krishi Bhavans.

Impact of Technology

After attending the training programmes about 25 nursery units were started by KVK trainees over a period of time. The income of these units ranges from Rs.10,000 to Rs.15 lakhs per year. The presence of bush pepper plants in each and every home of Kozhikode is the reflection of acceptance of this technology by people. Many farmers are also producing bush pepper and selling in commercially as livelihood activity.



Horizontal Spread

The technology has spread to many panchayaths like Naduvannur, Balussery, Kuttiyadi, Atholi, Velam, Unnikulam, Changaroth, Kayakkodi, Kakkodi etc. in Kozhikode district and Muthuvalloor, Ponnani, Nediyruppu, Cherukavu and Kondotty in Malappuram District. Bush pepper plants were also supplied to Tamil Nadu, Karnataka and Andhra Pradesh farmers.

Importance and Economic Gains

The bush pepper plants started yielding even after six months of planting. Yield levels of 4 to 4.5 kg green pepper per plant per year is being realized from 8 to 10 year old potted plants. Grafted Bush pepper on Colubrinum shows wilt resistance and getting more popularity.

Bush pepper is a viable technology for production of black pepper especially in areas where land availability is a major constraint. The technology is spreading fast in neighbouring districts also. KVK is supporting the technology through trainings, demonstration and production of bush pepper plants. Many KVK supported farmers received awards and recognitions, in which the recent award (Pandit Deen Dayal Anthyodaya Krishi Puraskar) to Smt. Bindhu Joseph is remarkable.



ODOP - COCONUT



KVK activities and way forward

The technology of coconut climbing by using climbing machine was popularized by KVK in association with Coconut Development Board, Kochi. Use of the machine can reduce drudgery of climbers, enables faster climbing, saving energy and ensuring safety. It can be used for gathering nuts or spraying pesticides. The gender neutral machine can be used to climb about 40-50 trees in an hour. Under this scheme, more than 500 persons had been trained through Krishi Vigyan Kendra, Kozhikode since 2012. The trained climbers are earning Rs.700-1300/- per day through coconut climbing. About 77 trainees among the participants were women who got self employment opportunity in this field.



Promotion of Coconut value added products

Virgin Coconut Oil (VCO) is the purest form of coconut oil, white in color, and contains natural vitamin E. KVK trained 2 women groups of 10 members for making VCO, Medicated soap and medicated coconut oil in Kottur village as group activity.

Kera Bouquet, a special type of dry flower arrangement made from perianth of coconut inflorescence and other parts of coconut were used and developed by KVK Kozhikode as a value added product and branded as Kera Bouquet.

KVK hand holds farmer groups like Peramrba Coconut producer company, Vatakara coconut producer company, processing units and several CDB accredited coconut nurseries for production of products and quality seedlings.



Other important activities

- Promotion of coconut based integrated farming systems and quality Kuttayadi coconut seedling nurseries with CDB accreditation.
- Demonstration on Tanjore wilt management
- Inter institutional (CPCRI, CDB, KAU) programme on Pest & Disease Management, trainings, awareness programmes.
- Diagnostic visits and remedy to recover affected farms.
- KVK nominated farmers received Kera Kesai, IARI & CDB Awards.



NEW INTERVENTIONS

Empowering farmers through introduction of new crops

KVK Kozhikode has introduced new crops such as green gram, strawberry, small onion with potential suitability, market and demand in the district to woo and empower farmers to tap the untapped possibilities in crop diversification.

Cluster FLD on green gram

The CFLD was taken up in three clusters viz. Kottur, Naduvannur and Marudonkara covering 25 farmers in 10 ha area with the bold seeded variety BGS- 9. Farmers have realized that if climate is good, instead of fallowing rice field they can get a bumper yield in a short time by adopting the improved technologies for green gram. Because of the intervention the pulse area in Calicut is improving gradually from mere 3 ha to more than 10 ha.



Small onion for homestead cultivation

The assesment of multiplier onion varieties viz.Co5 and Co6 in plain areas showed that small onion cultivation is viable as a cool season crop for homestead system to meet the partial demand of household.



Strawberry tested in High hills of Kozhikode

The assesment of three varieties of strawberry viz. Sweet Sensation, Winter Dawn and Florida Beauty in high altitude areas of Kozhikode showed that Florida Beauty was superior in yield (4.28q/ha). The climate change and high temperature during the cropping season is a challenge for realizing high yield.

Broiler Goat rearing

The method of broiler goat rearing (male goat rearing in sheds using home made feed for meat purpose) was standardized and popularized by KVK since 2000. Yearly two trainings were conducted by KVK and it is one of most viewed Yuetube post of KVK. Many Farmers from Kerala, TamilNadu, Andrapradesh, Karnataka, Assam were trained and practicing it successfully.



ORNAMENTAL FISH SECTOR BLOOMING AT KOZHIKODE

Ornamental fish keeping is considered to be the second most popular hobby globally after photography. This passion for ornamental fishes in global market gives aqua farmers in India, a source of livelihood and export earnings for the country. Off late there has been a renaissance in India especially in Kerala to boost this sector. KVK Kozhikode has taken many steps in popularizing freshwater ornamental fish culture by providing regular vocational trainings, organizing demonstration and on farm trials to farmers in order to strengthen the sector. The Kendra has developed high density farming practices like aquaponics and biofloc. Mrs. Rekha T, one of the pioneer aquaponics farmers in the district was nominated and became finalist in doordarshan's Mahila Kisan award 2018. She also received the certificate of appreciation from ICAR at National level, during International women's day on 8th March 2021. For ornamental fishes KVK has also developed low investment culture techniques by utilizing scrapped refrigerator/fridge boxes, used flex banners, plastic sheets and wooden planks for setting up pools to culture fishes. This technology has encouraged farmers to do up-cycling of unwanted scrap materials which can be procured at low price and transform them to fish tanks for producing ornamental fishes. OFTs and FLDs were conducted at farmers' fields to improve water quality by using biofilters, enhancing the colour and quality of fishes with carotenoid incorporated feed and by using live feed for rearing ornamental fishes. These techniques have helped in improving survival and growth rate of ornamental fishes. A new fish feed formulation "Peruma" for enhancing colour and disease resistance in ornamental fishes was developed by KVK and is sold to farmers. A marketing facility has been established at KVK which enables direct marketing of fish produced by farmers to buyers and wholesalers giving them higher returns. Presently more than 500 farmers in the district are involved in breeding and culture of freshwater ornamental fishes. Recently KVK has taken initiative to mobilize small scale ornamental farmers residing within 40 Km radius of KVK by forming their society named FRANK (Fish Rearers Association North Kozhikode). The society has 106 members and is registered under societies registration act (KKD/CA/62/2021). The Kendra has received financial assistance from Department of Biotechnology New Delhi and NABARD to strengthen the sector in Kozhikode. The farmers involved in ornamental fish and aquarium plants culture in the district are getting a monthly income of Rs.5000 when done as a part time activity and a full time farmers earns more than Rs.50,000/- per month providing him a livelihood.



Inauguration of weekly ornamental fish market at KVK by Chakkittapara Panchayat President Mr. K. Sunil

ICAR-KVK-Alappuzha



FFS ON VEGETABLE CULTIVATION: A UNIQUE EXPERIENCE TO WOMEN FARMERS

A Farmers' Field School (FFS) on pest and nutrient management in vegetable cultivation was initiated at Thrikkunnappuzha panchayath in Alappuzha district with twenty farm women participants. Different activities of FFS comprised of agroecosystem analysis, insect zoo, do it myself, interactive sessions and collective action. Women members who were engaged in commercial vegetable cultivation were selected for the programme with the active involvement of Krishi Bhavan and Panchayath. The participants are actively taking part in all the learning activities which is a first time experience for them. The sessions are scheduled on every Monday at 2.30 pm at each farmer's plot on rotation basis and facilitated by KVK subject matter specialist. The participatory activities improved their learning experience and knowledge level. Timely adoption of pest management practices and nutrient application methods learned through FFS could save their crop from pests like mites in chilly, stem borer in snakegourd and fruit fly attack which in turn saved their income. Active collaboration of Krishi Bhavan and peoples' representatives in providing all continued support for the participants make this programme a grand success.



ICAR-KVK-Bagalkote



Celebration of World Coconut Day

World Coconut day celebrated at KVK Bagalkote on 02.09.2022 with the B.Sc. (Agri) students college of Horticulture, Mudigere and staff of KVK. On this occasion, Dr. Airadevi Angadi, Scientist (Horticulture) briefed the students about the celebration of World Coconut day by coconut seedling planting in KVK.

Sunflower Field day at Vil: Hosakote of Badami taluka

A Field day of Sunflower (RSFH-1887) at Hosakote village was conducted in which Shri Arjun Galagali, the progressive farmer who participated in this demonstration actively expressed his happiness regarding the performance of the hybrid which is far better than any other hybrids. Dr. Mouneshwari R Kammar Senior Scientist and Head, addressed farmers regarding the facilities available in KVK. Dr. Dinesh kumar S P, Scientist (Agronomy) explained about the varietal characteristics cultivation aspects of Sunflower and answered the queries of the farmers regarding striga management and greengram followed by rabi jowar sequential crop management. Dr Sudha S, Scientist (Plant Pathology) explained about the pest and diseases management in sunflower.



Poshan Maah programme at Badami

National Poshan Maah programme was organized at Taluka Health Office, Badami in collaboration with Department of Women and Child Development, Badami. Dr. Mouneshwari R Kammar, Senior Scientist and Head, KVK



Bagalkote delivered lecture on the importance of celebrating Poshan Maah, importance of traditional toys and traditional recipes in overcoming the malnutrition. A Jatha was also organized to create awareness about balanced nutrition. This programme was inaugurated by Shri V. Hanumanthappa, Civil Judge, JMFC Badami, presided over by Smt Akkamahadevi K. H., Deputy Director, Women and Child Development, Bagalkote and attended by B. C. Kalyanshetti, P. B. Kalal, M. K. Kaladagi and Shri M. B. Patil, taluka Health Officer Badami.

Field Day on FLD-Bajra (VPMV-9)

At Mangalagudda village of Guledagudda taluka, a Field Day on Bajra (VPMV-9) under Frontline Demonstration was organized by ICAR-KVK, Bagalkote on 15.09.2022. During the event Dr. Dinesh Kumar S P, Scientist (Agronomy) explained the varietal characteristics of VPMV-9, which contains more quantity zinc & iron in the grains, which helps in meeting the daily requirements of the humans. He also explained cultivation practices of the variety. Dr. Sudha S, Scientist (Plant Pathology) explained about insect-pest and disease management in Bajra.



ICAR-KVK-Ballari



DAESI students exposed to fields by ICAR-KVK, Ballarimake

Field visit to progressive farmer fields as a part of meaningful learning during the course of DAESI programme is always marked with enthusiasm and joy of learning. Forty DAESI (TP:1800) students of ICAR-KVK, Ballari had the opportunity to visit Sri. Srinivasa Raju's Murrah buffaloe unit at ChikkaBallari in Siruguppa taluk. Sri Raju started his venture with 70 locally purchased Murrah buffaloes. He envisioned the need for improving breed characters and personally went and chose an elite he-buffaloe with best pedigree record from native tract of Murrah-Hariyana. With a careful supervision for over 5-6 years, he is now proud to have nearly 80 Murrah heifers of near true-to type. One more pedigreed breeding bull for high milk production has been added two years back for further breed improvement.

Large sized lake covering nearly 12 acres of his land is hallmark of his intensive buffaloe rearing wherein he leaves his animals for wallowing all through the day. Scientific feeding practices, ample amount of green forages (both grasses and legumes) offered from his 15 acres of fodder production unit and careful labour management coupled with his passion for animals has shaped his farm into one of the best managed Murrah buffaloe units in the state. As of now he has 280 Murrah animals and has opened an outlet of his own by name '**Surabhi**' to sell the milk produced from his elite animals. DAESI students expressed their appreciation for the efforts that Sri Raju has put in and promised to take this inspiration to inspiring rural youth in their respective areas.

Later, the students also visited ARS, Siruguppa and interacted with the Campus Head Prof. Basavanappa.





National Nutrition Month in a remote village in Vijayanagara district

Each year, National Nutrition Month is celebrated in the month of September with a unique theme. The theme for this year is ‘Celebrate a World of Flavors’ which encourages people to have a healthy lifestyle while enjoying the flavors of food. The National Nutrition month is commemorated to educate people about the healthy and nutritious foods.

ICAR-KVK, Ballari organised two programmes to educate villagers and children about good nutritional practices on the eve of National Nutrition Month-2022 at Ramasagarahatti ,a remote village in Kudligi Taluk of newly formed Vijayanagara district. On 8th of September a demonstration and nutrition education programme was conducted for the benefit of the mothers of anganwadi children and the villagers at Ramasagarahatti village. Recipes including vegetables, cereals and pulses were demonstrated to show the importance of each food group in the diet. Further, taking note of the fact that groundnut is the major crop of the area with lower consumption, recipes based on groundnut were demonstrated to the villagers by Dr.Shilpa H, Scientist (Home Science). Dr.Ramesh B K, Senior Scientist and Head of KVK educated women on the importance of milk, meat & egg and the consumption pattern for a healthy living. Members of Village Panchayat and other leaders of the village also took part in the programme.

Another programme on nutrition education to the school children was held on 09.09.2022 at the same village. A total of 100 students of Government High School were engaged for more than 2 hours on various aspects of nutrition. After the deliberations, Scientists of KVK brief lecture Dr.Ramesh B K, Dr.Shilpa H and Dr.Govindappa MR interacted with the students to clear the doubts of the young minds about nutrition. Head Master and other teaching staff of the school were present during the programme and made the programme meaningful.



ICAR - KVK - Belagavi - I



Celebration of National Nutrition Week

ICAR-BIRDS Krishi Vigyan Kendra celebrated National Nutrition week from 1st to 7th September 2022 to educate people about the importance of nutrition. The theme for this year is to celebrate a "World of Flavors" which encourages people to have a healthy lifestyle while enjoying the flavors of food. A healthy body supports a healthy mind, thus we must eat sufficient proteins and vitamins through variety of food. The importance and role of a healthy diet in the human body are emphasized. During this week various training programmes, guest lectures, method demonstrations, nutrigarden plot visits organized and created awareness among anganwadi workers, school children, farm women, Primary health centre staff etc. National Nutrition week celebrated in different villages Shelapur, Mudalgi, Beerangaddi, Shiragaonwadi, Belavi and at KVK campus to create awareness about food and nutrition and total 253 participants get benefitted through this celebration.



ICAR - KVK - Belagavi - II

Field Day on Green gram under CFLD-NFSM programme

KLE KVK, Mattikopp organized Field Day on Green gram variety DGGV-2 at Sangreshikoppa village, Savadatti taluk. Mrs. Sridevi B. Angadi, Senior Scientist & Head briefed about the usage of spiral separator for grading of green gram and for household storage of pulses use of save grain bags was also highlighted. Dr.S.S. Hiremath, Scientist (Plant Protection) explained about improved genetic traits of DGGV-2 and pest management technologies from field to harvest and storage.



Campaign on Carrot disease control

KVK organized Campaign on Carrot Root Cracking in association with Dept. of Horticulture, Belagavi. A team of KVK Scientists (Horticulture and Plant Protection) along with SADH, and AHO, Dept. of Horticulture, Bailhongal found the problem is due to the high soil moisture during root growth period, more space between seed to seed, more use of nitrogenous fertilizer and farmers were also used disease susceptible hybrids. During the campaign awareness was created regarding use of seeds recommended for *Kharif*, maintaining ideal seed rate, and removal of excess water in the fields and also advocated suitable plant protection measures.



ICAR-KVK-Bangalore Rural



Community Resource Person Training for Krishi Saki/ Mahila Kisan

ICAR Krishi Vigyan Kendra has organized a 6 days training from 05.09.2022 to 10.09.2022 to mahila kisan community resource persons under Krishi Saki programme of National Rural Livelihood Mission. Krishi Sakhi is a Community Agriculture Care Service Provider (CASP) which will enable the last mile coverage in rural areas, where farm based services for agriculture activities is not available on time or expensive to afford for rural poor women. Krishi Sakhi Programme is envisaged to create awareness and capacity building of Mahila Kisan on agricultural activities and facilitates aggregation and marketing of the agricultural produce. Krishi Sakhi model has been developed for sustainable agriculture based livelihoods at SHGs/household level. The objective of this training is to make agriculture based livelihoods sustainable and viable enterprises for the rural poor/mahila kisan.

The aim is at strengthening the existing livelihoods of the rural poor by bringing in a clear impetus on agriculture related activities.

The KVK scientists have trained the Krishi Saki's/ Mahila Kisan's on various aspects of Soil sample collection, Agronomic practices of various crops, Agro-ecological farming, Seed science and technology, Agri-nutri garden, Integrated nutrient Management, Integrated pest and disease management, water management, Skills of facilitation, Mahila kisan and her identity, Livelihood management, Income generating activities, Preparation and use of organic inputs of agriculture, Processing and value-addition to agricultural produce and marketing strategies of the agriculture produce. A pool of 30 identified Krishi Sakhi's were participated in the training programme and they are provided with the basic technical support, which inturn helps them in performing their role as Krishi Saki in rural areas.



ICAR-KVK-Bidar



PBW Gel –An Innovative Pink Bollworm Management Strategies

ICAR- Krishi Vigyan Kendra, Bidar in collaboration with Central Institute for Cotton Research, Nagpur has been organized training cum awareness programme on Innovative Pink Bollworm Mating disruption product CREMIT PBW unveiled for the first time in Bidar district to manage the menace Pink bollworm in Bt-Cotton field at Basanthpur-Chimkod village of Bidar district on 05th September, 2022. In this programme Dr. Sunilkumar N.M, Senior Scientist and Head given brief introduction about the present crop condition of Cotton and briefed about the IRM-Dissemination of Pink bollworm management strategies and also the innovative agricultural practices in Cotton cultivation for higher cotton yield.

Dr. S.G. Hanchinal, Senior Scientist, Department of Agricultural Entomology, UAS, Raichur explained about mating disruption

technology and said “The Pheromones are specific chemicals released by female insect into the air to attract the mails for mating.” This mating disruption aims to disrupt chemical communication between the two sexes of the same insect species and it is capable of reducing the negative impact of PBW. Dr AG Sreenivas Professor (Agricultural Entomology), UAS Raichur said the innovative CREMIT PBW is a pheromone based auto confusion and mating disruptor of Pink bollworm which has been tested and recommended for cotton PBW, relieve the cotton farmers of this problem. A method demonstration on using the CREMIT PBW Gel in cotton ecosystem over an area of 25 acre was done. The scientist from KVK Bidar Dr Ningadalli Mallikarjun, Dr Akshaykumar, Agriculture officer Mr Rajakumar Ekkelli, ATGC officials Dr Shashidhar, Dr Vinod Reddy present and more than 95 farmers from Chimkod, Chillargi, Basanthpur, Gadagi, Immambad and nearby villages were participated and got benefited.



ICAR-KVK-Chamarajanagara



Capacity Building Programme – Agro Ecological Practices for Community Resource Persons (Krishi Sakhi) of farm livelihood

A six days capacity building programme on Agro Ecological Practices for Community Resource Persons (Krishi Sakhi) of farm livelihood was organised by SANJEEVINI- Karnataka State Rural Livelihood Promotion Society, Department of Skill development, Entrepreneurship and Livelihood, GOK in collaboration with UAS, Bangalore, ICAR, KVK, Chamarajanagara at ICAR KVK, Chamarajanagara from 05.09.2022 to 10.09.2022 for 30 stakeholders. The programme was presided by Smt K.M. Gayathri, CEO, Chamarajanagara and the chief guest was Mr. Rajendra Prasad, Project Director, Zilla Panchayath, Chamarajanagara. Different sessions covering the detailed aspects of various topics like livelihood perspective, Mahila Kisan and her identity as farm woman, skills of facilitation, agro-ecology, nutri garden, soil components, properties & its relation to nutrition, seed science, water management practices, plant protection measures and agronomic practices were organised and conducted successfully with the support of respective KVK scientists, resource persons from other institutes and development department officials.

Dr. Yogesh G S, Senior Scientist and Head, provided information on soil, its components and importance, soil properties and their relation to nutrition. Also composting and azolla cultivation were demonstrated. Dr. Chandrakala Hanagi,

Assistant Nutritionist, AICRP on Maize, ZARS, V. C. Farm, Mandya, sensitized the women about commonly occurring issues in child and women health and healthy diet. Mr. Nithyanandha, Assistant Professor (Seed Technology) delivered a lecture on seed production, quality seed/planting materials, importance of seed rate, plant spacing, seed selection. Seed germination testing, preparation of Jeevamurtha and seed treatment with bio-fertilizer were demonstrated.

An exposure visit to Kotekere farm and Paduguru village to seek information and to visualise the practical aspects of integrated farming system was arranged and all the stakeholders were taken to the farm of Mr. Shesh kumar and Mr. Pramith Kumar, Progressive farmers, who provided detailed information regarding dryland agriculture and horticulture, Dragon fruit cultivation, organic cultivation practices and mulching practices in sugarcane.



ICAR-KVK-Chikkaballapura

Krishi Sakhi Programme

Krishi Sakhi Programme was organized at ICAR-KVK, Chikkaballapura from 05.09.2022 to 10.09.2022. Dr. M. Papireddy, Senior Scientist and Head along with ZillaPanchayath officials inaugurated the programme and emphasized on role of Krishisakhis in dissemination of technologies to the farming community. Mr. Girija Shankar, Project Director, ZillaPanchayath, Chikkaballapura along with other officials visited the KVK, Chintamani during the training programme, interacted with the trainees and explained about purpose of the training programme and motivated them to make use of the training effectively. Along with technical sessions, trainees were taken to exposure visit to progressive farmers' fields and demo units. 30 KrishiSakhi benefitted from the programme.

Poshan Abhiyan

Poshan Abhiyan programme was organized by ICAR-KVK, Chintamani at Kutharajanahalli village of Chintamani taluk. Dr. Akshata Ramannanavar, Scientist (Home Science) explained about importance of balanced diet for healthy life and also anthropometric parameters like weight and height were recorded and BMI was calculated to know the nutritional status of the school Children and farm women. Nutritionally rich balanced food was provided to all the students, participants during the programme. Dr. Vinoda.K.S Scientist (Sericulture), Dr. Sandhya K., Scientist and Aruna G.R., Technical Officer and 30 participants were present in the programme.



ICAR-KVK- Chikkamagaluru



Krishi Sakhi Training Programme

ICAR Krishi Vigyan Kendra, Chikkamagaluru district has organized Agricultural livelihood community resource persons (KRISHI SAKHI) training programme in collaboration with Mission Director, Sanjeevini-KSRLPS, Bengaluru. Dr. Krishnamurthy, A.T., Senior Scientist and head, briefed the Krishi Sakhi training programme aim as create awareness and capacity building among community on agricultural activities and facilitates aggregation and marketing of the agricultural produced and advised the participants to make utilization of this training programme for sustainable development of agriculture based livelihoods at self help group and house hold level. Dr. Munegowdru, Deputy Director of Agriculture, Department of Agriculture, Chikkamagaluru, inaugurated the event and explained agriculture based livelihoods as sustainable and viable enterprises for the rural community and it would aim at strengthening the existing livelihoods of the rural by bringing in a clear impetus on agriculture related activities.

Mr. Rajendra, K.K, District project coordinator, NRLM, Zilla Panchayath, Chikkamagaluru, participated as Chief guest. He explained about role, mandates, purpose and also

explained criteria, process, roles and responsibility of Krishi Sakhi and procedure for selecting candidates for the Krishi Sakhi training programme and briefed about the training programmes conducting under the panchayath level. Mr. Suresh. K.P, National Resource person, Agriculture livelihood activity, graced the occasion as guest and in his speech explained Agro ecological practices under Farm based agriculture, pest management and disease management of farm produced along with identifying the marketing linkages to sale the agriculture produces and this training is also to bridge the gap between rural farmers and agriculture experts.

During this programme Dr. Shivaprasad, M, ADE, ZAHRS in his presidential remarks briefed about six days Krishi Sakhi training programme and this training programme is a pool of identified Krishi Sakhi, who shall provide the basic technical support to the rural farmers. On this occasion Mrs. H.S. Shalini, taluk project coordinator, NRLM, taluk Panchayath and Mrs. Chandravathi, President, taluk level sanjeevini group addressed the participants and graced the occasion and total 30 participants were got benefit out of this training programme.

ICAR-KVK- Chitradurga

World Coconut day

ICAR-KVK Chitradurga celebrated world coconut day on 2-09-2022, the program was inaugurated by Dr. Sharanappa Jangandi, Associate Director Research, ZAHRS, Babbur Farm and he entitled importance of coconut farming and he said as Kalpavruksha, each and every part of palm can be utilized for various purposes. Dr. Kumar O, Senior Scientist and Head narrated about Arasikere tall, one of the important variety well known for copra production and great demand in market. Dr.



Prakash Kerure, Scientist, Horticulture explained the scientific production of coconut, introduction of intercrops like cocoa is an good option in coconut farming, recently hybrids are gaining importance in recent day coconut cultivation to 35 horticulture diploma students.

Interstate Educational Tour For The FPO Farmers

An Interstate educational tour for the FPO farmers of Sirigere, Chitradurga taluk was organized from 03-09-2022 to 07-09-2022 by Krishi Vigyan Kendra, Chitradurga. They were exposed to Vermicomposting technology and Dry land unit at GKVK, Bangalore; Agriculture research station, KVK and College of Agriculture, VC Farm, Mandya and viewed various demo units. 3rd and 4th day they have visited KVK and Puttur FPO at Gonikoppal and CPCRI, Kasaragod, Kerala. On fifth day, visited Krishi Vigyan Kendra at Hassan, Rabbit rearing unit, Paddy demo plot, Dragon fruit and Cardamom demo units were shown. They were also briefed about different varieties of Cardamom suitable for Chitradurga district and cultivation aspects of Dragon fruit



Krishi Sakhi training Programme

Six days training programme of Krishi Sakhi's for the community resource persons of National Rural Livelihood Mission was organized by Krishi Vigyan Kendra, Babbur Farm, Hiriyur in collaboration with Zilla panchayath, Chitradurga in two batches. The Project Director, Zilla Panchayath, Chitradurga Mr. Mahantheshappa inaugurated both the programmes. The candidates will be trained up to 54 days in Agriculture and allied subjects to make them knowledgeable resource person in Agriculture and these people will acquired knowledge and can serve as Krishi Sakhi's at Grama Panchavath level.



ICAR-KVK- Dakshina Kannada

Training on Aquaculture using farm ponds at KVK, DK

KVK, Dakshina Kannada in collaboration with Bejja Watershed (NABARD WDF) organised a training programme on aquaculture using farm ponds at KVK, Dakshina Kannada. Mr. Sadashiva Rao, Secretary, Bejja watershed Committee was the inaugurator for the programme. President for the programme was Dr. Ramesha T. J., Senior Scientist and head, KVK, Dakshina Kannada.

Farm ponds in the coastal districts are exclusively used for storage purposes till date and due to the awareness programs and educating the farming community about the sustainable utilization the available water resources, the farming community is keen to take up aquaculture for an additional income with minimal cost of production. Dr. Ramesha T. J., Senior Scientist and Head, explained how a successful fisheries enterprise can be developed without much investment and by utilizing the available resources. Dr. Chethan N. Scientist (Fisheries) trained the farming community on water usage, basic aquaculture technics, fish seed selection and stocking, culture methods and management aspects in the farm ponds aquaculture. Method demonstration of liming and fertilization was also carried out. The participants checked the primary production levels by filtering the water from the culturing pond for concentration of plankton. Fertilizing the pond was also demonstrated with the fresh cow dung to enhance the primary productivity and liming was carried out in a new pond to correct the pH of the water.



Nutri garden traning programme for SC Farmers

The ICAR-Krishi Vigyan Kendra, Mangaluru organized training programme on Nutri garden for SC farmers under SCSP programme of ICAR-CPCRI, Kasargod at Daregudda, Panapila, Nelliakaru and Hireabdadi villages of the district. Dr. Ramesha T.J, Senior Scientist and Head addressed that Nutrition is the science or practice of consuming and utilizing foods. A balanced diet is important for good health and well being. Dr. Rashmi R., Scientist (Horticulture) coordinated the programme and in her deliberation focused on plan, layout and establishment of Kitchen garden. Vegetable seeds of IIHR were provided to 80 selected SC farmers. Dr. Mallikarjuna, Scientist (Soil Science), Mr. Subramani NRLM, programme coordinator and Mr. Iatheesh graced the occasion.



ICAR-KVK- Davanagere



Celebration of World Coconut Day

World Coconut day celebrated in UjappaVadeyarahalli, JagalurTqDavanagere District. Dr. Devaraja T. N. Senior Scientist and Head explained the importance of coconut in terms of its economic significance and its nutritional value. Mr. Basavanagowda M. G. SMS (Horticulture) addressed about nutritional management in coconut for higher yield. Dr. Avinash T. G. though light on the pests and diseases in coconut and their management practices. About 150 farmers were participated in the program.

Attachment of BSc. Horticulture Students

Dr. T.N. Devaraja, Senior Scientist and Head, gave orientation of KVK activities and fisheries activities to BSc. Horticulture students from Mudigere. Dr.SupriyaPatil (Home Scientist) gave hands on training on preparation of turmeric powder and amla candies to the students. Mr.Basavanagowda M.G. Scientist (Horticulture) gave hands on training on preparation of Banana special, took them to Glass House and also imparted knowledge on Nutri-garden. Mr.Sannagoudra H.M., Scientist (Soil Science) enlightened about importance of soil testing and gave a practical knowledge on this. Dr.Jayadevappa G.K., Scientist (Animal Science) explained about the dairy activities of KVK. Mr.Mallikarjuna B.O., Scientist (Agronomy) showed the different implements used in KVK for agricultural purpose. Mr.Raghuraja J., Scientist (Agriculture Extension) imparted knowledge on the records and reports maintained by KVK and also on FPOs and Dr.Avinash T.G., Scientist (Crop Protection) gave knowledge on production of Trichoderma.



Inauguration of Fruit Storage and Marketing stalls at Kadalivana Campus

ICAR-Taralabalu KVK in collaboration with the Department of Horticulture Zilla Panchayath Channagiribring out the fruit storage and marketing stall, which is constructed under Paramparagat KrishiVikasYojana to promote the local marketing of fruits.

Mr. Raghavendra Prasad G. C. DDH, Davanagere inaugurated the stalls and opined that this kind of platforms will helps for local sellers and buyers. Dr. Devaraja T. N. Senior Scientist and Head, Mr. Basavanagowda M. G. SMS (Horticulture) and all the staffs of the KVK presented during the occasion. Organically grown fruits and Vegetable sellers were also participated in the inauguration.



ICAR-KVK- Dharwad

“Agro Ecological Practices” for Community Resource persons of Farm Livelihood (Krishi Sakhi)

Training programme on “Agro Ecological Practices” for Community Resource persons of Farm Livelihood (Krishi Sakhi) was organized by ICAR- Krishi Vigyan Kendra, University of Agricultural Sciences, Dharwad in association with KSRLPS Skill Development, Entrepreneurship and Livelihood Department, Government of Karnataka from 5-10 August 2022. Dr. Suresh B. Itnal, Chief Executive Officer of Zilla Panchayat, Dharwad inaugurated the programme, Krishi Sakhis will make available the latest technologies at the door steps of farmers. Dr. Sivananda B Karale, Registrar, UAS, Dharwad expressed that the technologies like drones, precision farming are about to reach the doorsteps of farmers. Shri. B.S. Muganoormath, Project Director, Zilla Panchayat, Dharwad spoke about the idea behind selecting Krishi Sakhis, their activities, work details and significance of training programme. Dr. P. S. Hugar, Director of Extension, UAS, Dharwad requested the trainees to utilize the farmer friendly technologies available at University and help the farmers by implementing in their fields. Dr. Shripad H. Kulkarni, Nodal Officers of KVKs, UAS, Dharwad gave an introductory speech about the programme. Dr. S. A. Biradar, Senior Scientist and Head, ICAR-KVK, Dharwad welcomed the guests.



Poshan Maah Abhiyan

Poshan Maah Abhiyan was organized by ICAR-KVK, Dharwad in association with IFFCO and Department of Women and Child Development at Uppinabetageri village of Dharwad taluka on 13.09.2022. The programme was inaugurated by Dr. H. H. Kukanur, Deputy Director, Department of Women and Child Development. During the inaugural address she stressed on the need of poshan abhiyan in combating malnutrition in the country. Dr. Geeta S. Tamgale, Scientist (Home Science), ICAR-KVK, Dharwad shared details about balanced diet, bio-fortified varieties and importance of kitchen gardening. Dr. Anupama Angadi, Programme Officer, Department of Women and Child Development, Officials from Health Department, ASHA workers, Anganawadi workers were present. About 70 women participated in the programme. Prizes were distributed to the winners of cooking competition. Kitchen garden kits and plants were also distributed.



ICAR-KVK- Gadag



POSHAN ABHIYAN PROGRAMME

Awareness on Nutrition rich foods was organized at Hosalli village of Gadag district by ICAR-K.H.Patil Krishi Vigyan Kendra, Hulkoti in collaboration with Department of Women and Child Welfare, Gadag on 09-09-2022. Shri. Parashuram Shettammanavar, Deputy Director, Department of Women and Child Welfare, Gadag participated and briefed about various Government programmes beneficial for women and children. Dr.Sudha V. Mankani, SMS (Home Science) spoke on Nutrient rich foods, millets, super foods and importance of nutrition garden. On this occasion, the exhibition of nutrient rich foods like sprouted pulses, millet grains, fruits, leafy vegetables, groundnut chikki etc were organized. Smt. Joger, CDPO, Gadag, Assistant CDPO, Supervisors Anganwadi Teachers, Rural women were participated in the Poshan Abhiyan programme.

Training on food and nutrition garden

One day training on nutria-garden was organized to Community Resource Persons of National Rural Livelihood Mission under Sanjeevini Project of Zilla Panchayat, Gadag on 13-09-2022. Videos on demonstration of Nutrition Garden and Terrace Garden were shown. 70 trainees participated in the programme.



ICAR-KVK- Hassan

KRISHI SAKHI TRAINING PROGRAMME



ICAR-KVK, Hassan organized the six days training programme on “Agro Ecological Practices” for Community Resource Persons (Krishi Sakhi) of Farm Livelihood Training programme in collaboration with SANJEEVINI- Karnataka State Rural Livelihood Promotion Society and Department of Skill Development, Entrepreneurship and Livelihood, Government of Karnataka at KVK Hassan. Mr. Kantharaju, CEO, Zilla Panchayath, Hassan has inaugurated the programme and in his inaugural speech he said that participants of this programme should transfer the technology in effective manner, kirshi sakhi’s should encourage integrated farming systems in the farmers field and help them to achieve sustainability in their income. He also mentioned the objectives, motto, roles and aim’s of SANJEEVINI and Kirishi sakhi’s. Mr. Parappaswamy, Projrect director and Dr. Punith, deputy secretary, Zilla Panchayath, Hassan were participated as chief guests in the programme.

Dr. Rajegowda, senior scientist and head, KVK, Hassan has chaired the programme and during his presidential remarks he said that trainees should understand the importance of climate change before transfer the technology to the end users and also encourage group marketing rather than individual marketing of products because it will fetch more profit to the farmers. Mrs. Veena, District Manager, NRLM, Zilla Panchayath, Hassan has made introductory remarks. 30 participants and Dr. M. Shivashankar, Dr.Nagaraja, T., Dr. Srinivas Deshpande, Dr. Arunkumar, Dr. Pallavi, N., Scientists, KVK, Hassan were also present in the programme. The programme was anchored by Dr. Sakamma, S., Farm manger, KVK, Hassan and Dr. Sanketh, C. V. Scientist (Agricultural Extension), KVK, Hassan has coordina ted the programme.



ICAR-KVK- Haveri

An awareness programme on use of weather apps

An awareness programme sponsored by ATMA - Animal Husbandry Department, Haveri on use of weather apps to farmers of animal husbandry, Ranebennurtaluk was conducted by DAMU KVK Haveri. On account of this, Dr. Ashoka P. Senior scientist and Head of the Krishi Vigyan Kendra explained weather apps MEGHDOOT and DAMINI for the benefit of farmers and animals safety. MEGHDOOT app seamlessly aggregates district and crop wise contextualised advisories issued by District Agro Met Unit (DAMU) every Tuesday and Friday with the forecast and historic weather information to the fingertips of the farmers.

Green gram Field Day

Field day on summer green gram (DGGV-2) was held at Shri. Chandrashekar Hanumanappa Pujar, Rahutanakatti village of Ranebennurtaluk. Dr. Ashoka P., Senior Scientist and Head, KVK Haveri briefed the cultivation aspects and benefits of the variety. Dr. Rajakumar G.R. Scientist (Soil Science) emphasized growing of pulses as inter crop to improve soil fertility to increase income. The programme was attended by more than 30 farmers were present.

Nipping operation in Red gram of NICRA Village

A cluster demonstration of nipping operation in red gram was shown in the field of Mr. Neelappa Dilleppa Bankara, a progressive farmer of Rahutanakatti village, Ranebennurtaluk. New variety of red gram GRG - 152. Dr. Ashoka P. explained the need to enhance the productivity of this crop by pinching, which prevents the plants from growing too high and induce profuse branches, more number of flowers, pods and increases the yield.

Flower drop and bud fall are quiet natural in red gram which are due to nutrient deficiencies in soil as indicated by Dr. Rajakumar G. R. Soil Scientist, KVK. On this occasion, Kumari. Shruti Annigeri, Senior Research Fellow, NICRA project, Mr. Kariappa Hanumanthappa Pujara and Mr. Neelappa Dilleppa Bankara of Rahutanakatte village were present and more than 25 farmers benefited by the field demonstration.



ICAR-KVK- Idukki

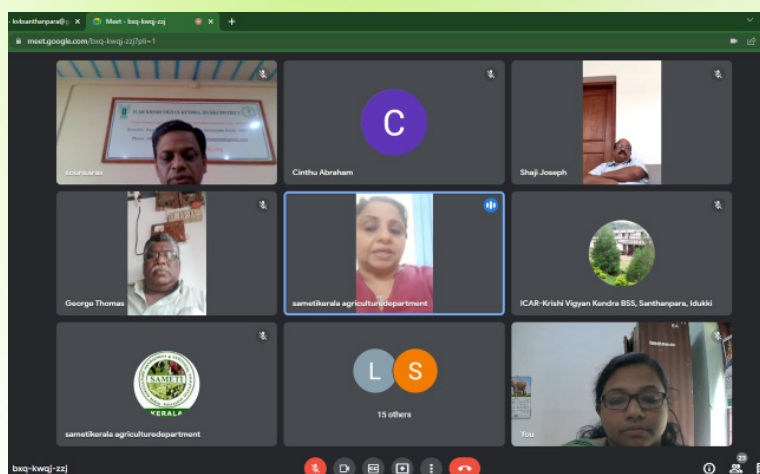


Distribution of Vegetable seeds under SCSP scheme by KVK Idukki

As part of the SCSP scheme promotion in Idukki district, IIHR, Bengaluru developed vegetable seeds supplied from CPCRI, Kasargod was distributed to SC farmers of Muttukad village in Idukki district. Ms. Preethu K Paul, SMS (Agricultural Extension), ICAR-KVK, Idukki welcomed the farmers. Mr. Sivan SC Promoter, Muttukad village inaugurated the programme and in his inaugural address he stressed the importance of pesticide free vegetable consumption among the farmers to ensure a healthy tomorrow. Ms. Ashiba A, SMS (Agronomy), ICAR-KVK, Idukki, handled technical session on Vegetable cultivation. After the technical session, the seed packets were distributed to the farmers and package of practices to be ensured were discussed.

Onset of NIPHM Batch II at ICAR - KVK Idukki

Onset of 12 days Online Class on “Certificate Course on Insecticides Management for Insecticide Dealers /Distributors” was conducted via google meet. The participants were welcomed by Mr. Sudhakar Soundarajan, SMS (Plant Protection), ICAR-KVK, Idukki. Introductory remarks about the NIPHM course was delivered by Dr. Lavanya, Scientific Officer, NIPHM. Ms. Mini Jacob, DD of Agriculture, SAMETI, Trivandrum inaugurated the programme virtually. Mr. Sreekumar, President, Idukki District Agri- Input Dealers Association, delivered the felicitation address. Words of gratitude was expressed by Ms. Preethu K Paul, SMS (Agricultural Extension), ICAR-KVK, Idukki. The programme aim to enrich the technical expertise of the Agri- input dealers of Idukki district with latest curriculum and technologies of Insecticides. The programme with 12 days of classes were coordinated by Mr. Sudhakar Soundarajan, SMS (Plant Protection), ICAR-KVK, Idukki.



ICAR -KVK - Kalaburagi - I

Training on Scientific Sheep, Goat and Poultry farming

ICAR-KVK, Kalaburagi-I organized one day capacity development programme on Scientific Sheep, Goat and Poultry farming in collaboration with MYRADA, Kalaburagi for womens of different Sthree Shakti Sangh's of Aland taluk. The programme was inaugurated by Dr.Raju G. Teggelli, Senior Scientist & Head, KVK, and he emphasized the importance and role of sheep, goat and poultry in integrated farming system. Dr. Manjunath Patil, Scientist (Animal Science) delivered a lecture on sheep and goat breeds suitable for stall feeding system, improved back yard poultry breeds, male lamb/kid fattening, first aid treatment for diseases of sheep, goat and poultry birds, timely deworming and vaccination to livestock and poultry. The trainees were also exposed to azolla, hydroponics, vermi compost units and stall fed goat farm.



“Krishi Sakhi Capacity Development Programme”

University of Agricultural Sciences, Raichur, ICAR-KVK, Kalaburagi-I organized 6 days Krishi Sakhi capacity development programme to the extension functionaries from various gram Panchayats in collaboration with Zilla Panchayat, Kalaburagi and Sanjeevini-Karnataka State Rural Livelihood Promotion Society for Agricultural Livelihood Community Resource Person (Krishi Sakhi) at ICAR-KVK, Kalaburagi campus. The programme was inaugurated by Dr. Samad Patel, Joint Director of Agriculture, Kalaburagi and presided by Dr. M. M. Dhanoji, Dean (Agri) College of Agriculture. Dr.B. M. Doddamani, ADR, ZARS, Kalaburagi attended as chief guest. KVK staff and more than 38 extension functionaries were participated in the programme.



ICAR - KVK - Kalaburagi - II

Diagnostic field - Chilli crop at Hipparga S N Tq. Jewargi

Diagnostic field visit to chilli crop at Hiparga S N village Tq. Jewargi was carried by Dr. Basavaraj, Scientist (Agril. Entomology) and found invasive black thrips, *Thrips parvispinus* in the farmer's field. Recommendations of sowing of border crops like maize, bajara, sorghum as trap crops for thrips, installation of yellow sticky traps 35 No.s / acre, Application of neem cake 200kg/acre to induce resistance, Foliar application of fipronil 5% SC @ 0.5 ml/lt or diafenthiuron 1.0g/lt or spinetoram 11.7% SC @ 1.0 ml/lt of water were provided.



Problem diagnostic field visit of Redgram crop at Harnoor Tq. Jewargi

Dr. Basavaraj, Scientist (Agril. Entomology) and Dr. Chethan T, Scientist (Horticulture) visited to redgram field at Harnoor village Tq. Jewargi along with Sri. Sharanagouda Inamadara, Asst. Director of Agriculture, KSDA, Jewargi. The crop was damaged by white grub. The crops were drying due to cutting and feeding of roots of redgram standing seedlings by the root grubs. It can be identified when pulling the plant by hand, the plant will come into the hand easily, which is damaged by root grub. The suggested remedy are deep summer ploughing, crop rotation with cereals and non host crops, mass trapping of adults during pre-monsoon season on the next day of receipt of the first rain fall, Spraying of chlorpyrifos 20 EC @ 2ml/lt to neem tree, banyan tree (which were on the borders) in the evening hours on the next day of the receipt of the rain, Soil incorporation with *Metarhizium anisopliae* @ 4kg in 100 kg of FYM before 10-15 days of sowing and Soil drenching of *M.anisoplea* @ 5g /lt of water applied to standing crop, Soil drenching of insecticide like chloropyrifos 20 EC 5ml/lt.



Ameliorative measures to recover flood affected plots

There were frequent rains during first fortnight of September which caused stagnation of water in the most the crops fields which made farmers to worry about the crops yield. In this regard, Dr. Chethan T, Scientist (Horticulture) and Dr. Basavaraj, Scientist (Agril. Entomology) visited to redgram and cotton fields on 14-09-2022 which was majorly affected in Chigrahalli and Khadyapur of Jewargi taluka. During the visit scientists suggested ameliorative measures like drainage channels to remove excess water from filed, application of nano and water soluble fertilizers through foliar application, cleaning of the connecting water channels to facilitate the easy moment of water, contingent crops suggested where there was complete destruction of crop and recommended drenching of bio-inoculants and fungicides based on crop situation.



ICAR-KVK- Kannur



One day workshop on Prospects of Coconut based products through FPOs and Agri start-ups

Krishi Vigyan Kendra, Kannur in collaboration with Coconut Development Board, Kochi organized one day workshop on Prospects of Coconut based products through FPOs and Agri start-ups as part of World Coconut Day on 2nd September 2022. The workshop was inaugurated by Sri. C. M. Krishnan, Block Panchayat President, Thaliparamba and presided over by Dr. Jayaraj P, Programme Coordinator, KVK Kannur. Keynote address was given by Sri. Anoop M. P, Deputy Director (YP), Department of Agricultural Development and Farmers' Welfare, Kannur. A wholehearted felicitation was given to Sri. Abdulla Abdul Khader, CTO and Co-founder, NataNutrico Coconut Food Products, for exploiting the entrepreneurial opportunities in value added products of coconut.

Technical lectures with role of Farmer Producer Organizations in Agricultural Sector, Agristartups in Processing and Value Addition, Agricultural Infrastructure Fund, Digital innovations in agriculture were held. A farmer scientist interface session on rejuvenation of coconut cultivation, farmers shared their experiences and suggestions for increasing productivity and exploiting processing and value addition possibilities of coconut. Smt. Elizabeth Joseph, Assistant Professor (Home Science) elaborated the processing and value addition technologies provided by KVK to coconut

farmers. Products like neera, coconut oil, coconut face cream, coconut-dantapala oil, nata de coco based soft drinks, coconut vinegar, coconut milk soap, coconut chips, coconut chutney powder, coconut jiggery rice balls, coconut water syrup, coconut sugar, coconut jiggery were displayed in the exhibition.



ICAR-KVK- Kasaragod



Celebration of National Nutrition Month

An Awareness programme on “Local Food Diversity and flavours in Promoting Nutrition and Health of Mother and child” was celebrated by ICAR-KVK Kasaragod marking the event on National Nutrition Month based on the theme “Celebrate World of flavours” on 06.09.22 at Peraremoole, Manjeshwar grama panchayath with the co ordination of Women and Child Welfare Department, ICDS, Manjeshwar. The programme was attended by around 150 participants including Panchayath members, ICDS officials and local community including mothers, adolescents and children. Public awareness was created on healthy lifestyle and eating habits, Vocal for Local and significance of traditional foods focusing on the vision of Suposhith Bharat (Malnutrition-free India). Nutrition games, Nutrition quiz and Display of Nutritious food preparations were organized. Nutraceutical food, Amylase rich mix was distributed to selected vulnerable children, mothers and old age women marking the occasion. Nutrition Month was celebrated focusing on Millets in view of the millets being notified by the Government as Nutri cereals and included

under the Poshan Mission Abhiyan and marking the year 2023 as “International year of Millets”. Training programmes were conducted at Nachada padavu and Vorkady Anganwadi Centres on 13.09.22 on “Incorporation of Finger Millet in Diet for Upsclaing Nutritional Status of Vulnerable groups” wherein around 61 women participants attended. Also training programme for Extension Functionaries was conducted in co ordination with ICDS, Manjeashwar on “Nutrition Education on Nutraceutical Food Preparations” at Vorkady panchayath of Manjeshwar Block with the participation of 25 Anganwadi teachers.

Incubation Support on Food Processing by KVK

Entrepreneurs trained in Coconut pasta making (CPCRI technology) under FLD launched their products under the Brand name Noryx and Pulleri food products and participated in Exhibitions conducted at CPCRI Kasargod on the occasion of coconut day celebrations and Onam fair at Badiaduka panchayath and Kasaragod Municipality. Enriching of coconut residue based pasta using *Cassia tora* (a wild super food), jackfruit seed flour, jackfruit bulb flour, Moringa powder and Amylase rich mix were also introduced to the entrepreneurs.



ICAR-KVK- Kodagu



Mushroom cultivation training under SCSP funding of IIHR

A training programme on mushroom cultivation was organised for 50 SC farmers on 14th September, 2022 at ICAR- Krishi Vigyan Kendra, Gonikoppal in collaboration with ICAR-IIHR, Bengaluru under SCSP programme. Mr. Devaiah K.A, Head Incharge, KVK Kodagu welcomed all the guests and farmers to the programme and briefed about the programme. Dr. Rajendiran, Head CHES Chettalli inaugurated the programme by lighting the lamp jointly with other dignitaries. In his inaugural address, he briefed about the importance of mushroom cultivation on human health. Shri. Prabhakara, SMS (Horticulture), spoke about the



scientific cultivation of mushroom technologies, various benefits of mushroom and the different types of mushrooms available in the market. Shri. Veerendra kumar, K.V. SMS (Plant Protection) briefly explained about quality spawn production. Smt. Rashmi Bhanuprakash highlighted the possibilities of Value addition in mushroom. Smt. Veena conducted Method demonstration of mushroom cultivation for the benefit of the participants. Training certificate, ready to fruit mushroom bags and mushroom spawn were distributed to all the participants at the end of the programme.

Sirigere FPCL member's exposure visit to KVK Kodagu and Puthari FPCL

A team of Sirigere FPCL member under the guidance of KVK Chitradurga visited ICAR-KVK Gonikoppal, Kodagu on 5th September, 2022 as a part of their exposure visit. KVK Subject matter specialist Mr. Prabhakar B, interacted with the participants about the ongoing activities of KVK and Puthari FPCL. He also explained about the pre and post FPO formation Compliances, business development, maintenance of various registers and accounts to the members during the programme. Later the farmers were taken to the FPCL office inside the KVK premises where Mr. Ponnana Rana, CEO of Puthari explained the different concepts of sales, digital billing, etc. to the farmers.



ICAR-KVK- Kolar

Poshan Maah 2022

ICAR- KVK, in collaboration with Department of Women and Child Development and Dept of Health and Ayush, Kolar have jointly organized POSHAN MAAH-2022 at KVK Kolar on 01.09.2022 and conducted it at Hosahalli Malur taluk on 12.09.2022. Dr. Chikkanna, Scientist (Home Science) delivered lecture on Importance of Nutri Garden and Minor Millets to maintain good Health. Dr. Nagapadma, Ayurvedic Doctor, General Hospital, Bangarpet delivered lecture on “Role of ayurveda in Management of Malnutrition”. Around 147 anganwadi teachers participated and benefited from programmes.

Capacity Building on IPDM of groundnut

ICAR-KVK, Kolar organized off campus capacity building programme in association with ATMA, Kolar and Department of Agriculture, Bangarpete on 02.09.2022. Dr. Sadanand K. Mushrif, Scientist (Plant Protection) delivered lecture on integrated management of pests and diseases of groundnut at Gullahalli village, Budikote, Bangarpete taluk. Dr. Jyothi Kattagoudar, Scientist (Horticulture) served as resource person and delivered lecture on points to be considered during rainy days in tomato cultivation. Around 40 farmers participated in this programme.

District Workshop on “Improved reeling machinery for superior gradable raw silk”

KVK Kolar organized District Level Workshop on “Improved reeling machinery for production of superior gradable rawsilk” for Silk reelers of Kolar district in collaboration with Department of Sericulture, Kolar & Central Silk



Technological Research Institute, CSB, Bangalore on 6.9.2022 at KVK, Kolar. Dr. B.M.Mahadevaiah, Scientist D, CSTRI, Bengaluru explained about rearing machinery package for production of superior IV A Grade raw silk and Dr. K. N. Mahesh, Scientists from CSTRI Bangalore were participated as Resource person briefed on Silk samagra II for (2021-22 to 2025-26). Shri. Manjunath M., Deputy Director, Government Cocoon Market Kolar, was the Chief Guest. Around 60 Silk reelers from Kolar district participated and benefitted from the programme.

Capacity development on Management of bivoltine silkworm during rainy season

ICAR-KVK, Kolar & Department of Sericulture, Kolar jointly organized capacity development programme on “Management of bivoltine silkworm during rainy season for successful cocoon harvest” on 12.09.2022. Around 65 sericulture farmers & 10 department officials participated and benefitted from the programme.



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ICAR-KVK- Kollam

ESTABLISHMENT OF MILLET PARK AT KVK KOLLAM

Millets /Nutri-cereals are emerging as a major component for ensuring the food security in the recent times. Being considered as climate resilient crops, they can very well tackle the issues in crop production due to climate changes. These small seeded crops are drought resistant, needs less management, and are even considered as pest free crops.

They are nutri- cereals which are highly nutritious and are known to have high nutrient content which includes proteins, essential fatty acids, dietary fibers, B- vitamin, minerals like Calcium, Iron, Zinc, Potassium, and Magnesium. They also offer health benefits like reduction in blood sugar level, blood pressure regulations, thyroid, cardiovascular and celiac diseases. Due to the lack of awareness, these crops are remaining as under exploited.

In the view of bringing these small seeded crops back to the farmer fields, an effort has been initiated by ICAR Krishi Vigyan Kendra, Sadananthapuram, Kollam with the guidance from ICAR-ATARI, Bangaluru, by starting a Millet Park at station under EDP- Establishment of millet park-Nutri-cereal village through scientific millet production technology for nutri-cum-climate smart agriculture at KVK Kollam as a demonstration unit comprising of all the 9 millet crops. This includes Sorghum (*Sorghum bicolor*), Maize (*Zea mays*), Bajra (*Pennisetum glaucum*), Ragi (*Eleusine corocana*), Kodo millet (*Paspalum scrobiculatum*), Proso millet (*Panicum miliaceum*), Foxtail millet (*Setaria italica*), Little millet (*Panicum sumatrense*) and Barnyard millet (*Echinochloa crusgalli*). The Millet Park at KVK Kollam was inaugurated by Hon. Block Panchayath President, Vettikkavala Shri. K Harshakumar as part of *Chingam 1* Karshaka Dinam celebrations at the station.



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ICAR-KVK- Koppal

Celebration of Poshan Maha

Under Poshan Abhiyaan, 'Rashtriya Poshan Maah' is celebrated during September with the aim to create awareness about nutrition and healthy food. ICAR Krishi vigyan kendra Koppal organised training programme on Rashtriya poshan mahe in yardona village on 5-9-2022. Programme was inaugurated by planting water to the plant Dr.Kavitha.Y.Ullikashi Scientist (Home Science) explained about causes of malnutrition and anaemia and measures to combat malnutrition. Dr.Jyothi.R. Scientist (Horticulture) narrated about the role of nutri garden to alleviating malnutrition. Mrs. Farzana Korabu Technical Officer briefed about the role of women in adoption of the organic framing and its benefit. Low cast nutritious millet recipes demonstration and nutrigarden kits were distributed in the programme.



Field day on Biofortified Bajra Hybrid VPMH-14

Micronutrient malnutrition because of iron and zinc deficiencies is a serious public health problem in low-and middle-economy countries worldwide. Zinc deficiency in children causes stunting, makes them vulnerable to diarrhoea, pneumonia, and can lead to death from these infections. Crop biofortification, which refers to the breeding of cultivars with higher levels of micronutrients, is increasingly being recognized as a cost-effective and sustainable approach to overcome these deficiencies in the

food chain. ICAR Krishi Vigyan Kendra, Koppal conducted field day of biofortified bajra hybrid VPMH-14 in Agoli village on 12-9-2022. Dr Kavitha Y Ullikashi Scientist (Home Science) explained about importance of biofortified cereals in the diet. Further, also explained that Bajra hybrid VPMH-14 was high yielding with high Fe (70ppm) and Zn (45ppm).Dr.Jyothi.R. Scientist (Horticulture) narrated about the role biofortified cereals in alleviating the malnutrition. Mr. Narappa Farm Manager explained about the ICM practices of bjra. Shri Manjunath progressive farmer shared his experience in cultivation of biofortified bajra hybrid VPMH-14

Training programme on Krishi Sakhi

Krishi Sakhi is a Community Agriculture Care Service Provider (CASP) which will enable the last mile coverage in rural areas where farm-based services for agriculture activities is not available on time or expensive to afford for rural poor women. Krishi Sakhi is envisaged to create awareness and capacity building of Mahila Kisan on agricultural activities and facilitates aggregation and marketing of the agricultural produced. ICAR Krishi Vigyan Kendra, Koppal in association with Zilla panchayat Koppal organised Krishi sakhi training programme from 12-9-2022 to 17-9-2022. Hon'ble board member Sri Sridhar inaugurated programme by lighting the programme. he explained that krishisakhi from gram panchayat play important bridge between farmers and government, Krishi Sakhi should provide the basic technical support/treatment to the rural farmers. Dr.Ragvendra Yaligar Senior Scientist and Head explained about technical programmes provided to the Krishi sakhi.Dr.Moulasab Nodal Officer for Krishi sakhi programme. UAS. Raichur explained in details of the roles and responsibility of the Krishi Sakhi. Dr. Mastanreddy Special officer COA, Gangavthi explained about the different technologies of the ARS, Gangavthi.



ICAR-KVK - Kottayam



Release of KVK Times by District Collector

The 28th issue of KVK Times for the second fortnight of August was released by the District collector Dr. P.K. Jayasree. She emphasized on the importance of ensuring the visibility of KVK activities for the benefit of farmers and the role of this publication in achieving the same. Principal Agricultural Officer, Project Director, Poverty Alleviation Unit, Directors of Animal husbandry, Fisheries and Soil Survey departments, Associate Director of Research, Regional Agricultural Research Station attended the programme. Programme Co-ordinator, Dr. Jayalekshmi G, briefed on the various programmes of KVK Kottayam.



SEMINAR ON HOMESTEAD VEGETABLE FARMING

One day Seminar on 'Homestead vegetable cultivation with special emphasis on cool season crops and terrace gardening' conducted at Regional Agricultural Technology Training Centre, Kottayam. Thirty-two farmers participated and Improved varieties and their features scientific cultivation practices, pest and disease management using bio-controls etc. were dealt in the program.

ICAR-KVK- Kozhikode



World coconut day seminar

District Level Seminar on “Scientific coconut cultivation technologies, post-harvest technology and value addition” was held at ICAR - Krishi Vigyan Kendra, Indian Institute of Spices Research, Peruvannamuzhi on World Coconut Day (2nd Sep, 2022). This seminar was inaugurated by Shri N.P. Babu, Perambra Block Panchayat President, presided by Shri K. Sunil, President, Chakkittapara Grama Panchayat. Coconut Development Board, Cochin sponsored this programme and participated by about hundred and five beneficiaries from all the parts of Kozhikode district. Fifteen person including Scientists from IISR, KVK, Representatives from Coconut producer companies, banks and media of Kozhikode district were also participated.

KVK experts Dr K.M. Prakash, Dr K.K. Aiswarya and Ms A. Deepthi were handled classes on scientific coconut cultivation, varieties, planting and nutrient management; pest & disease management and value addition, marketing of coconut. Awareness classes on CDB schemes and loans, credit facilities to farmers by representatives of HDFC bank, Perambra. Class on value added products & experience sharing by M/S Taste Mountain, Malapuram were also held. At the end,

demonstration videos of FoCT and success story of Mr. Francis K.T., Maruthomkara (Kera Kesari & CDB Award winner) were shown to the participants. The participant farmers were issued with vegetable seed packets from KVK.

An exhibition with display of coconut climbing machines, Desheller, Oil extractor, implements and Value added products were held along with the sale of seedlings, bio-control agents, etc for the benefit of participants.

Farmer - scientists interface and Metarhizium usage demo (off campus)

Coconut farmers-scientist interface programme was held at Elenkamel, Naduvannur and the programme was inaugurated by Dr. P. Ratha Krishnan, Programme Coordinator, KVK. Dr. Daliya Mol, Scientist, CPCRI and Dr. K. K. Aiswariya, SMS (Plant Protection), KVK addressed the farmer queries on pest and disease management in coconut. The team have also visited the farmer fields and identified infected palms by Tanjore wilt, stem bleeding, red palm weevil, and rhinoceros beetle etc. Demonstration on usage of Metarhizium to control the multiplication of rhinoceros beetle was also conducted in cow dung pits at farmers fields.



ICAR - KVK - Lakshadweep



New Initiative of KVK-Lakshadweep in introduction of Papaya Variety (Arka Prabhat)

KVK-Lakshadweep jointly with IIHR, Bengaluru and Department of Agriculture, UT administration of Lakshadweep has initiated to introduce a new variety of Papaya Arka Prabhat during 2022-23. A midterm evaluation of the work was performed by KVK and Department of Agriculture at Agatti islands, Lakshadweep on 15 September, 2022. The team concluded that growth of this variety is found to be better than the existing variety of Papaya. During this period the growth of earlier variety have not been established as observed with Arka Prabhat and is found to be a better option for promoting in the island. Dr. P. N. Ananth, Head, KVK and Mr. Amsakoya, Agriculture Demonstrator along with farmers evaluated and also further informed the management practices to be undertaken for better growth and fruiting. Hence, the variety Arka Prabhat is likely to be promoted in the islands during 2022-23.



ICAR-KVK- Mandya



National Poshan Maah Abiyan

An awareness cum training programme under National Poshan Abiyana organised by ICAR-Krishi Vigyan Kendra, V.C.Farm, Mandya in association with Department of Women and Child Welfare, Mandya on 09.09.2022 at Javanahalli village of Mandya District. On the occasion Dr. Kamalabai Koodagi, Scientist (Home Science) highlighted on the aspects of nutritional deficiencies emerging among kindergarden children, pregnant women and adolescents and ways to overcome the deficiencies. In addition the information on nutritional garden and its management was provided Smt. Champakumari, Supervisor, Dept. of women and child welfare addressed the gathering and informed that the month of September has a very significant importance as the 'National Poshan Maah' during first week, Education for nutrition to mother and child during second week, awareness on nutrition among Tribal people during third week, safe water use and water storage methods awareness during fourth week. Dr. Pavithra S, Scientist (Plant Protection) addressed the farmers and enlightened on use of insecticides at heavy doses for vegetables leads to accumulation in human body over the years in turn causes health problems hence it is very important to use the agro chemicals efficiently for the better health of future generation. Sri. Muruli provided the information on conservation of natural resources especially water, importance of personal hygiene and facilities available with department of health. School teachers Smt. Radha and Smt. Lokeshwari, provided information on sanitation and hygiene of village. During the programme nutrition food recipes were prepared and exhibited. More than 50 participants including Anganwadi workers, ASHA workers, pregnant ladies and other farm women were present during the programme.

Field visits and advisories to farmers

ICAR-Krishi Vigyan Kendra, V.C.Farm, Mandya did field visits to different villages of Mandya taluk and provided advisory based on the problems visible in the farmers field. In addition Dr. Pavithra S, Scientist (Plant Protection) explained the management practices of leaf roller and blast incidence which occurs in the initial stages of paddy crop similarly, Dr. Rekha Badalingappanavar, Scientist (Agronomy) suggested about time of application of weedicide and fertilizer to farmers during their visits. Totally 10 field visits were carried out and 22 farmers were benefited.



ICAR-KVK- Mysuru

Skill development in Cocoon crafting training

ICAR JSS KVK Suttur, Mysuru in association with ICAR KVK Chamarajanagar, Rotary Mysuru Brindavan and Dhan foundation organized two day's skill development in cocoon crafting training on 5th and 6th September 2022 at KVK Suttur. 23 women from KVK Mysuru and 2 women from KVK Chamarajanagar participated in the training. Prof. M.Vijayendra, Professor (Rtd.), College of Sericulture, Chintamani and assistant Mrs. Rajashri were the resource person and demonstrated the cocoon crafting. They demonstrated the flower, garland, boque and other decorative items from cocoon and also demonstrated the making of colours and colouring of the cocoons. Prof. M. Vijayendra explained about preparation of cocoons before making of decorative items. Mr. Chandrashekar Kallimani informed the trainees about subsidy and other facilities available at Sericulture department for cocoon crafting. Mrs. Divya H.V., Senior Scientist and Head (I/C), ICAR JSS KVK Suttur spoke that KVK will provide space for the production of decorative items from cocoons for trainees and KVK will buy the flowers, garland and other items from them. Mrs. Netravati Yattinamani, Scientist (Home Science) gave introductory remarks about the programme. Mrs. Shrinidi, Secretary, Rotary Mysuru Brindavan encouraged the trainees to start the cocoon crafting after training. Staffs of ICAR JSS KVK and RAWE students of Noida University, UP were participated in the programme. Certificates were distributed to the trainees.

Capacity Development Program to BAIF trainees Hunsur.

ICAR JSS Krishi Vigyan Kendra Suttur Mysuru has conducted Capacity Development



Program to BAIF trainees Hunsur on "Watershed management and development for sustainable agriculture in rainfed areas" for two days in 2 batches at KVK campus. KVK Agronomy scientist Shri Shamaraj briefed about concept of watershed, importance of soil and water conservation in watershed areas under rainfed and community watershed development programs on suitable crops and cropping system, trees, fodder crops and animal component for sustainable agriculture and also facilitated field visit of BAIF trainees to soil and water conservation structures like trench cum bunds and percolation pond in KVK campus.

Celebration of Coconut Day

ICAR JSS Krishi Vigyan Kendra, Suttur, Mysore district in collaboration of Scientific



Solutions, Bengaluru and IAT Mysuru celebrated World Coconut Day on 2nd September 2022. During this programme huge discussion has been carried out about the seed selection, cultivation and Integrated Pest & Disease Management (IPDM) and financial facilities available in the bank for implementation of coconut garden. The Horticulturists, Agriculturists and Bankers were in the discussion panel to clear the doubts of farmers who have gathered during the programme. 60 farmers and farm women were actively interacted with the experts.



ICAR-KVK- Palakkad



Capacity development programmes for tribals of Attapady

Krishi Vigyan Kendra Palakkad conducted two capacity building programme for 60 tribal farmers of Agali and sholayur panchayats of Attapady block. The session on banana was handled by Dr. Sumiya K V, Programme Coordinator, KVK Palakkad and the second session on vegetables was conducted by Dr. Resmi J, Assistant Professor, KVK Palakkad. Crop production and crop protection aspects were covered in the program. Seeds of HYV of vegetables like chilli, cowpea, bottlegourd and palak were distributed to the farmers. Smt. Latha, Assistant Director of Agriculture, Attapady block, Smt. Deepa, Agricultural Officer, Agali, Smt. Selvi, Agricultural Officer Sholayur and other department staff attended the program.

Farmer-scientist interaction

KrishiVigyan Kendra Palakkad in association with NABARD KFW soil project conducted a farmer scientist interaction at two watershed areas of Kavassery panchayat on 05.09.2022. Sri Kuttikrishnan, Member of the watershed committee welcomed the audience; Dr. Ramanandhan, Coordinator of the project inaugurated the programme. Vote of thanks was delivered by Sri. Vijayan, Secretary of watershed committee. The programme was led by Dr.Sumiya K.V, Programme Co-ordinator, KVK Palakkad and Dr. Sreelakshmi K, Asst. Professor KVK, Palakkad. During the programme, field problems of the farmers were addressed. Later, diagnostic visits were also conducted. Severe acidity problem, bacterial leaf bight, sheath blight, mite infestations were the problems identified during the visit. Also during the interaction sessions farmers pointed out that aquatic weed are becoming a serious menace in their area. Necessary remedial measures were suggested for controlling these problems by the scientists. A total of 40 farmers participated in the programme.



Method Demonstration on management of Giant African Snail

Farmers of sholayur panchayath were facing problems by giant African snail. There was a massive attack on crops snails at Kulukkur and tomato crop in seedling stage was completely devastated by these snails. KVK in association with the Department of Agricultural development and farmers welfare conducted an awareness program on management of snails. A method demonstration was conducted at Kulukkur in Sholayur panchayath on 15.09.22. Bait traps were prepared using cabbage and papaya leaves and also using fermented wheat flour and jaggery. Farmers were advised to kill the snails trapped by 20% salt solution or 6% Copper oxy chloride. Scientists from KVK, Department officials and farmers participated in the program.



ICAR-KVK-Pathanamthitta



KISAN GHOSHTI AS PART OF ONAM, THE HARVEST FESTIVAL OF KERALA

ICAR-KVK, Pathanamthitta in collaboration with CARD, the host organization organized Kisan Ghoshti. The programme was inaugurated by Smt. Santhamma Varghese, Chairperson, Thiruvalla Municipality. In her inaugural address she stressed on the need of urban agriculture, which would make urban and peri urban areas healthier, sustainable and more resilient. The programme was presided over by Rev. Moncee Varughese, Director, CARD. Dr. C.P. Robert, Senior Scientist and Head, KVK, Pathanamthitta delivered the Keynote address. As part of the programme a seminar on the Theme “Rural and urban agriculture “was also organised. Dr. Rincy K Abraham, SMS (Horticulture), Sri. Vinod Mathew, SMS (Agronomy) and Smt. Ambily Varughese, Farm Manager of KVK, Pathanamthitta served as resource persons. On the occasion an exhibition to display and promote the technological inputs like organic fertilizers, organic pesticides, micronutrient supplement ‘Kalpavardhini’ for coconut cultivation, ‘Banana Magic’ for banana cultivation, ‘Vegetable Magic’ for vegetable production, Waste Decomposer for quick decomposition of organic residues, vegetable fruit trap, planting materials and value added Nutri food products of KVK was also organised. A total of 50 people participated in the programme.



ICAR-KVK- Raichur



Diagnostic field visit in Sunflower

A team of scientists, Dr Shreevani G N, Scientist (Entomology) from ICAR-KrishiVigyan Kendra, Dr. Ajithkumar, Scientist (Pathology), Dr. Vanishree, Extension Leader, AEEC, Lingasugur and Dr Chandra Naik, Asst.Prof. (Crop Physiology), ARS, Dhadesugur, UAS, Raichur along with the ADAs and other officials of state agricultural department visited the Sunflower crop based on the request of the farmers. The farmers observed the larvae on the Head of the crop and also drying and wilting in some areas and they reported to the department. Scientists' visited the farmers' fields of mudgal village in Lingasugur taluk of Raichur district in order to address the problems of the farmers. The crop was in the Head formation stage and the larva of *Helicoverpa armigera* Hubner found on the sunflower heads were meager and below ETL (1-2 %). However, it was advised to take up bio-agents spray in order to manage the pest as well as prevent further incidence. The physiological problems were meager (6-8 %) in the crop anywhere in any of the farmers' fields and 10-15 % sunflower bud necrosis disease was noticed. The farmers were advised to take up preventive spray of 0.25 ml per liter Imidacloprid 17.8 SL at 30 days of crop growth, proper management of nutrients to prevent the physiological disorders and placing pheromone traps in the field at 30 days to monitor the incidence of Head borer, *Helicoverpa armigera* well before the head formation stage and take ovisidal sprays to prevent further damage in the further stages.



ICAR-KVK-Ramanagara

Training Program on 'Agro Ecological Practices' (Module - 1) for Community Resource Persons (Krishi Sakhi)

ICAR-KVK, Ramanagara in collaboration with SANJEEVINI- Karnataka State Rural Livelihood Promotion Society, Department of Skill Development, Entrepreneurship and Livelihood, GoK, and University of Agricultural Sciences, Bangalore organised Training Program on 'Agro Ecological Practices' (Module -1) for Community Resource Persons (Krishi Sakhi) of Farm Livelihood. During the

inaugural function Mr. Vinod Kumar, District Program Coordinator, ZP, Ramanagara, explained about the guidelines of the program. Mr. Mahesh, AO, Dept. of Agriculture, Magadi highlighted about various schemes of agriculture department. Dr. Lata R. Kulkarni, Senior Scientist & Head briefed about the roles and responsibility of the Krishi Sakhi and asked participants to make better utilization of training program. In the technical session Dr. Sowjanya, S., Scientist (Agril. Extension) explained about Livelihood perspectives and skills of facilitation, Miss. Shanta Balgond, SMS, (Agrometeorology) briefed about agriculture and ecosystem, different agro ecological practices and Dr. Lata R. Kulkarni, explained about agri-nutri garden, the importance of Nutritious food, causes of Malnutrition and control measures.

Second day, Dr. Sowjanya, S., discussed about Mahila Kisan, Communication skills, group activities and visit to KVK demo units and demonstrated PRA techniques. Dr. Deepa Pujar, Scientist (Horticulture) highlighted about visualization and importance of Agri nutri garden, method demonstration on pro tray nursery technique, sowing of vegetables and leafy vegetable seeds. On third day Mrs. Preethu, D.C., Scientist (Soil Science) discussed about Importance of soil, soil testing, and importance of soil and plant nutrients. Mrs. Uma, Farm Manager, discussed about seed, seed treatment, selection of quality seeds and method demonstration on beejamruta and seed treatment. Fourth day visited University of Agricultural Sciences, Bangalore as a part of exposure visit, visited agroforestry block, IFS block, dry land agriculture, FTI and ATIC institutes. Dr. Rajendra Prasad, B.S., Scientist (Plant protection) discussed about insect, pest, pest and disease management, preparation of Bordeaux mixture and use of different traps on fifth day. On the last day Dr. Rajendra Prasad, B.S. briefed safety measures to use chemical fertilizers, Mrs. Preethu, D.C. practically demonstrated soil sampling procedures and jeevamrutha preparation and Dr. Dinesha, M.S., Scientist (Agronomy) explained about cultivation practices, summer ploughing, construction of farm bunds and water management practices. On the closing ceremony post evaluation and feedback was collected from participants and certificates of module-1 was distributed to 30 Krishi Sakhi trainees.



ICAR-KVK- Shivamogga

Capacity Development Programme on “Agro Ecological Practices”

ICAR - Krishi Vigyan Kendra, Shivamogga organized six days (5-09-2022 to 10-09-2022) capacity development programme on “Agro Ecological Practices” for community resource persons of farm livelihood (Krishi Sakhi) in collaboration with Sanjeevini-Karnataka State Rural Livelihood Promotion Society, Department of Skill Development, Entrepreneurship and Livelihood. During the programme, Dr. B. C. Hanumanthaswamy, Senior Scientist and Head, KVK, Shivamogga given introductory speech and welcomed everyone. In his speech he explained in detail about the importance of six days capacity development programme and its benefits especially for womens.

The programme was inaugurated by Shri. Prakash, N. D., Chief Executive Officer, Zilla Panchayat, Shivamogga. He addressed the gathering about the need of these six days capacity development programme and given the information related to the sources of additional income generation such as bee keeping, mushroom cultivation, sheep farming, green house production of vegetable and flower crops, integrated farming system and organic farming. Dr. B. M. Dushyanth Kumar, Dean (Agri.), KSNUAHS, Shivamogga explained about the climate change, natural calamities and its effects on farming system, need of new technology and adoption in farming system, importance of soil and water testing, organic fertilizers and site based fertilizer application. Dr. B. Hemla Naik, Director of Extension, KSNUAHS, Shivamogga, in his presidential address, he briefed about the export and import of agricultural crops, post harvest handling and value addition of agricultural and horticultural crops, intercropping, mixed cropping, animal husbandry and nutri-garden concepts.

During these six days capacity development programme, the following topics such as importance of agricultural livelihood activities, integrated farming systems, organic farming, production techniques of cereal crops, bee keeping, mushroom cultivation, improved poultry farming, integrated disease and pest management in major agricultural and horticultural crops and production technology of fruits, vegetables and flower crops were covered. Totally 30 community resource persons of farm livelihood (Krishi Sakhi), staff of Krishi Vigyan Kendra, Shivamogga and Zilla panchayat were also participated in the programme.



Celebration of World Coconut Day

ICAR - Krishi Vigyan Kendra, Shivamogga organized the special programme “Celebration of World Coconut Day” on 02/09/2022 at Esuru village of Shikaripura Taluk. During the programme Miss. Smitha, G. B., Scientist (Horticulture), KVK Shivamogga explained the importance of celebration of World Coconut Day. In detail she discussed and briefed about the cultivation aspects of coconut such as suitable soil and climate, classification of varieties (tender coconut water, oil extraction and copra production), mother palm selection, seedling selection, nutrition requirement, spacing requirement, inter-cropping, pest and disease management and yield. The farmers also interacted with the scientist related to the other problems faced by them on cultivation aspects of coconut. Totally 30 farmers were benefitted from this special programme.

ICAR-KVK- Thrissur



'Farm to Fork' Programme Inaugurated

Krishi Vigyan Kendra, Thrissur had always been a forerunner in production of quality seeds, planting materials and technological inputs. In its sprawling farm of 20 ha, vegetable cultivation is carried out for seed production year round. Quality seeds of bitter gourd, ash gourd, cowpea, snake gourd, pumpkin etc, planting materials of ginger, turmeric, tubers, pepper etc, and grafts of fruit plants are sold through sales outlets of the Kerala Agricultural University and Department of Agriculture. Mushroom spawn, fresh mushroom (oyster, milky and button), bio pesticides (Nanma, Menma and Sreya), tobacco

decoction kit, trichoderma enriched manure, Sampoorna (for paddy, vegetables and banana) and Ayar are also produced. All these and the activities of the processing centre form the beads for the long chain of Farm to Fork (F2F) programme. This programme was formally inaugurated by Dr. Jayasree Krishnankutty, Director of Extension, Kerala Agricultural University on the 1st September 2022. The impact of these quality inputs in boosting the agricultural scenario of the State brings pride and satisfaction to the KVK team.

ICAR-KVK-Thiruvananthapuram



Preserving Coconut Palm for a Better Tomorrow

The coconut palm is often called the tree of life owing to its versatile use in food, fuel, medicine, cosmetics, building materials and various other uses. ICAR - KVK Mitraniketan celebrated “World coconut day” with a view of growing coconut for a better future and life. KVK organised on campus training program in integrated approaches for the cultivation practices of coconut including pest and disease management for the farming community of Thiruvananthapuram district. Technical sessions conducted on good coconut farming practices with low cost technologies by adopting biocontrol agents for the management pests and diseases. Trichoderma coirpith cakes (TCPC) were introduced to the farmers for the management of fungal disease of coconut especially bud rot which is one of the most important fatal disease of coconut. Method demonstrations for the application of the biocontrol agents were arranged for the farmers during the program. Around 35 farmers across the district participated in the program.



ICAR-KVK- Tumakuru -I



Training on agro ecological practices for community resource person (Krishi Sakhi) of farm livelihood

ICAR KVK Tumkur-I organized 6 days Training programme from 5th to 10th September on agro ecological practices for community resource person (krishi sakhi) of farm livelihood in associated with SANJEEVINI- Karnataka State rural livelihood promotion society, Department of skill development, Entrepreneurship and Livelyhood and University of Agricultural Sciences, GKVK, Bangalore.

The programme was inaugurated by Smt. Jyothi, GP member, Mattihalli Tiptur and addressed the importance and role of krishi sakhi in improvement of rural livelihood. Mr. Kiran, Agricultural officer, Mrs. Chandrakala, Block Supervisor, TP, Dr.V.Govinda Gowda, Senior Scientist and Head, KVK Konehalli, and Kvk scientists were presented in this programme. The resource person from UAS, GKVK Bangalore, ARS, Hassan, PHC, Bidaregudi and KVK konehalli were provided the information regarding livelihood perspective, principles of skills and facilitation. Agronomic practices, agro ecology, agri nutri garden, Soil health management, water management and plant protection measures, PRA activities were conducted. Total 30 farm women were participated in the first batch and received the certificates.



ICAR-KVK- Tumakuru -II

KVK Farmer received best farmer award from ICAR-IIHR, Bengaluru

ICAR-IIHR organized its 56th institute foundation day on September 05, 2022 at IIHR, Bengaluru. Dr. Debi Sharma, Director (A), ICAR-IIHR, Bengaluru briefed about the IIHR activities, achievements of during the past year. Dr M Angamuthu, Chairman, APEDA, was the Chief Guest. The session was followed by felicitation of farmers who successfully adopted IIHR technologies. She awarded the 'Best Farmer award' to Mr. Sreedhara C.Y., from Bellavi, Tumakuru, a KVK supported farmer. He adopted IIHR technologies like- AMC, Banana special, Vegetabl special, Neem & Pongamia Soap etc since 2015 and benefited out of it.



Guest lecture on Health, Nutrition and Nutritious foods for students

Workshop on Nutritious foods for students under PoshanMaah celebration 2022 was organized by Department of women and Child Development on 12th September 2022 at District Balbhavan, Tumakuru. Mrs.Radha R.Banakar SMS- Home Science delivered lecture on Health, Nutrition and Nutritious foods for students. This programme was attended by 150 Students and supervisors of the department of women and child development.



ICAR-KVK- Udupi



“Agro Ecological Practices” (Module-1) for Community Resource Persons of Farm Livelihood (Krishi Sakhi) training programme

Keladi Shivappa Nayaka University of Agricultural and Horticultural Sciences, Iruvakk, Shivamogga, Indian Council of Agricultural Research, New Delhi, I.C.A.R.- Krishi Vigyan Kendra, Brahmavara, Udupi Dist in association with Government of Karnataka, Zilla Panchayath, Udupi, Sanjeevini- K. S. R. L. P. S. , Department of Skill Development, Entrepreneurship and Livelihoods has organized Training Programme on “Agro Ecological Practices” (Module-1) for Community Resource Persons of Farm Livelihood (Krishi Sakhi). Shri. Kempegowda, Joint Director of Agriculture, Udupi Dist inaugurated the programme. In his inaugural speech he **Out Look Agritech Outstanding FPO Award -2022**

Sri Sathyanaryana Udupa, chairman of Udupi Kalparasa Coconut and All Spices Producer Company Ltd (UKCAAS) Udupi dist. has received Out Look Agritech Outstanding FPO Award -2022 from Union Minister of Agriculture and Farmers welfare, Sri. Narendra Singh Tomar at the Outlook Agri Tech Summit and Swaraj Awards 2022, New Delhi. This FPO was technically guided by ICAR-Krishi Vigyan Kendra, Udupi district and the application for the award was compiled and sent

highlighted the problems in spread of extension activities due to less staff position in all departments. In this regard, Krishi Sakhi’s should work as link between farmers and departments. Dr. Lakshmana, Associate Director of Research, ZAHRS, Brahmavar chaired as president and in his presidential speech he motivated the trainees to make effective utilization of 6 days training programme also he highlighted the topics to covered during training period. Dr. Sudhir Kamath K V, Principal, Agriculture Diploma College, Brahmavar, Shri. Prabhakar Achar, District programme Co-ordinator, NRLM Udupi, Shri. Avinash, District Co-ordinator, NRLM Udupi were chief guests of the programme. Dr. Dhananjaya B, Senior Scientist & Head welcome the gathering and highlighted the mode of activities conducted during the programme. Dr. Sachin U S, Scientist (Plant Protection), KVK Brahmavar co-ordinated the programme.

Teachers Day Celebration

Keladi Shivappa Nayaka University of Agricultural and Horticultural Sciences, Iruvakk, Shivamogga, Indian Council of Agricultural Research, New Delhi, Teachers Welfare Association Shivamogga, Zonal Agricultural and Horticultural Research Station, Brahmavar, I.C.A.R.- Krishi Vigyan Kendra, Brahmavara, Udupi Dist. celebrated Teachers Day on 05.09.2022 at Krishi Vigyan Kendra, Brahmavara.



ICAR-KVK-Uttara Kannada



Met an Innovative farm women – Smt. Shantavva Talawar

In search of innovative farmers of Uttara Kannada district for UAS Dharwad Krishi Mela 2022, visit was made by Dr. Roopa S. Patil, Dr. Shivashenkaramurthy M. Scientists from KVK Uttara Kannada Sirsi along with Dr. Shripad Kulkarni, Nodal Officer of KVK's of UAS Dharwad to Shinganalli village of Mundagod Taluk on 6.9.2022. Smt. Shantavva Talawar, a resident of the village initiated garland making from glyricidia bark and wood which is very unique. *Glyricidia sepium* (Jacq.), known as Gobbara gida in Kannada, a multipurpose used for timber, firewood hedges, medicinal purpose, charcoal, live fence, plantation shade, poles, soil stabilization and as green manure. Earlier she used to make garland with sanadal wood and *Adina cordifolia*. Prohibition on cutting of trees from Forest department made her to think on alternate source of wood i.e. Glyricidia which is abundantly available. To make these garlands, the bark is stripped into thin small pieces and creatively stitched to make octagonal shape flowers with paddy husks stuffed inside. These flowers are tied to a nylon thread to make garland. Almost all the houses in this village are engaged in this activity and earning weekly Rs. 1000 to 1500 per person. The garlands prepared are sent to big cities viz., Mumbai, Pune, Ahmadabad etc. Of late, these women started preparing garlands with corn husk too. Considering the efforts of Shantavva in motivating rural women to earn sustainable income for their livelihood, UAS Dharwad conferred her Innovative Farm Women Award in Krishi Mela 2022.



ICAR-KVK-Vijayapura - I



Pearl Farming: An Economically Viable Entrepreneurship

Natural pearls are initiated in nature more or less by chance, but cultured pearls are human-initiated, formed by inserting a tissue graft from a donor mollusk, upon which a pearl sac forms, and the inner side precipitates calcium carbonate, in the form of nacre or “mother-of-pearl”. Recently Pearl farming is emerging as a potential economically viable entrepreneurship. One of the farmer from Vijayapur district in Karnataka shri Sahabaj Ismail Jatti from Tikota village began growing cultured freshwater pearls using the pearl mussels. He constructed 100x100sq mt size farm pond for Pearl farming with freshwater out of his 8 acre of land. Totally 40000 pearl seed used

for Pearl farming and grown for one year. The investment for pearl seed, food and maintenance cost was totally Rs. 39 lakhs per year . On an average pearl farmer earned Rs. 80 lakhs per year and his net return was Rs. 41 lakh in a year. This is indicating that pearl farming is an economically viable and profitable entrepreneurship. Some of the farmer who influenced pearl farming and come forward to adopt this entrepreneurship in the district. Dr.V.S.Devaranavadagi, Mr. B.C.Kolhar and Mr.S.C.Rathod visited pearl farming unit and documented case study of the farmer.



ICAR-KVK-Vijayapura - II



Poshan Maah Programme

Poshan Abhiyaan was organized at Krishi Vigyan Kendra, Indi in collaboration with Department of Women and Child Welfare, Indi. Baby shower was organised for pregnant women and awareness was created with regard to consumption of nutritious food and its benefits on the growth of the baby. Information was given on nutria-thali. Exhibition was organized to create awareness among the rural women on the benefits of consumption of fruits, vegetables and sprouts. Health department official told about the benefits of consumption of Vitamin A and iron rich tablets. Dr. Savita B. welcomed the dignitaries and the programme concluded with vote of thanks by Dr. Santosh Shinde. In this programme around 55 rural women and anganwadi workers present.



ICAR-KVK- Wayanad



Demonstration of UAV'S in rice fields

A demonstration of application of micro nutrient mix Sampoorna with Unmanned aerial vehicle (UAV) was executed in 14 acre paddy fields of Kolavally padasekharam in Mullamkolly panchayath has evoked curiosity among farmers. The demonstration has been aimed at sensitizing the farming community to achieving maximum production from a limited area and solving the lack of availability of farmer labourers. The programme has been conducted with the assistance of ICAR-ATARI under the guidance of Director of Extension, KAU.

As the first phase, Sampoorna was aerially sprayed at the rate of 5 gram per liters of water after 20 days of transplanting using drone. Spraying were done in the fields of Sri. Sami, Jayanandan, Saji and Shaji. The event was organized under the leadership of Dr. Safia N.E, KVK -Wayanad Programme Coordinator . KVK Scientists, Mrs. Ashita M. R and Dr. Deepa Rani C.V, took lead roles in the programme.



ICAR-KVK- Yadgir



Workshop on Organic Siri (Savayava Siri)

ICAR-KVK, Yadgir (Kawadimatti) organized Organic Siri at Bheemarayana Gudi on 29.08.2022 in collaboration with Department of Agriculture and Paramanda Rural Development Institute, Doranahalli. The programme was inaugurated by Basavana gouda Malipatil chairman of District Krishika Samaja Yadgir district. He urged the farmers to adopt organic farmers it reduces the cost of Agricultural production and also improves the soil health. Dr. S. Muthuraj Deputy Director of Agriculture briefly explained about the programmes of Department of Agriculture along with crop survey, PM Kisan, NFSM and Integrated farming system Dr.

Basavaneppa Head Organic Institute, UAS, Raichur highlighted in detailed production process of Jeevamruta, panchagavya, ghana jeevamruta, vermiwash, beejamruta, gokrupamruta, neemastra, brahmastra etc., Dr. Jaiprakash Narayan R.P, Senior Scientist and Head, KVK, Yadgir explained on different sources of plant based product which are used to manage pest and diseases. Mr. Guruprasad. H, Scientist (Entomology), KVK, Yadgir briefed about the role of Bio-agents in management of pest and diseases and around 270 farmers were benefitted from this programme.





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