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KVK TIMES

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

Vol. 01 • Issue 25 • 1-15 July, 2022



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

University of Horticultural Sciences, Bagalkot

ICAR-Krishi Vigyan Kendra, Kolar

KVK TIMES

*A window to KVKs of ICAR-ATARI
Zone XI, Bengaluru*

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Special Thanks

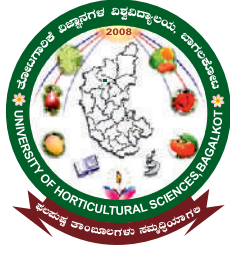
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ICAR-ATARI, Zone XI, Bengaluru**



**University of Horticultural Sciences
Bagalakov**



**Dr. K. M. INDIRESH
Vice-Chancellor**

MESSAGE

Krishi Vigyan Kendras being frontline extension system acts as linking agency between research and extension. KVK TIMES is a best platform to showcase the uniqueness of KVKs, paves way for cross learning among KVKs and serves as a single reference point to know about diversified activities of different KVKs under ATARI Zone XI.

The idea of publishing the e-magazine by compiling the activities of 48 KVKs under the jurisdiction of ATARI Zone XI for every fortnight is a unique and novel. The process of dissemination of recent technologies through innovative approaches to the farming community and bagging of various awards for effective implementation and documenting the success stories by KVKs will motivate other KVKs to perform in a similar way.

My best wishes to all the KVKs for serving the farming community in their respective jurisdictions with much more enthusiasm and dedication to improve the livelihood of the farming community.

KVK, Kolar being the only KVK under University of Horticultural Sciences Bagalakov is doing commendable job for adoption of recent technologies of the SAUs and ICAR institutes in the farmers fields through it's multifaceted activities.

I congratulate ICAR-KVK Kolar for compiling the activities of different KVKs in a befitting manner for the period of July first fortnight, 2022.

(K. M. Indiresb)
Vice-Chancellor



**University of Horticultural Sciences
Bagalakov**



Dr. S. I. ATHANI
Director of Extension

MESSAGE

Krishi Vigyan Kendras are functioning at ground level for improving socio economic status of the farmers by integrated approaches using regional specific solutions for overall development of the farmers. Now-a-days ICT tools are much used for fast dissemination of the technology in terms of video, audio and short messages.

Documentation of significant activities of all 48 KVKs fortnightly will act as a guide for quick glance. The concept of publishing the activities by ATARI through KVK TIMES e-magazine enhances the visibility of KVK activities.

I truly appreciate the hard work of KVK Kolar scientists in effectively transferring the technologies to enhance the productivity of major farming systems by providing suitable solutions in various horticulture, field crops, sericulture and animal husbandry sectors through demonstrations, capacity development programmes and other extension activities.

My best compliments to all the KVKs in Zone XI for rendering the valuable timely service to the benefit of the farmers in their jurisdiction during all situations.

I whole heartedly appreciate KVK Kolar Team for compiling and documenting the activities of all the KVKs for the fortnight of July 1-15th, 2022.

I wish the publication of KVK TIMES a great success.

(S. I. Athani)
Director of Extension



भकृ अनुप
ICAR

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



Dr. V. VENKATASUBRAMANIAN
Director

FOREWORD

Krishi Vigyan Kendra's are playing significant role in providing technological support to farmers and entrepreneurs. Each KVK is unique in their innovative approaches adopted to disseminate the technology, farming system models developed and impact brought in their district. I am feeling extremely happy to announce that KVK Times e-magazine, a window to KVKs of ATARI Zone XI is completing one year. On this occasion, I thank all KVK fraternity of Zone XI for successful documentation and continued efforts in bringing out the **KVK TIMES** publication in time.

KVKs real time involvement in different activities related to promotion and technology backstopping for FPOs of the region, development of entrepreneurship for individuals as well as self help groups, capacity building programs regarding diversification of crops, seeds production, inland fish farming, promotion of GI crops, integrated crop, pest and disease management strategies, value addition, crop waste management, Jalashakti Abhiyana, sensitization programs, animal health camps etc. are providing new dimensions to the farming community.

I acknowledge the support rendered by Dr. K. M. Indires, Honorable Vice Chancellor and Dr. S. I. Athani, Director of Extension Education, University of Horticultural Sciences, Bagalkot in backstopping the KVK activities and also their support to ATARI.

I compliment team KVK Kolar for compiling the activities held during this fortnight.

(V. VENKATASUBRAMANIAN)
Director



**ICAR-Krishi Vigyan Kendra
Kolar**



**भकृ अनुप
ICAR**



**K. THULASI RAM
Senior Scientist and Head**

ACKNOWLEDGEMENT

I feel privileged and proud to compile the First Anniversary issue of KVK TIMES e magazine which is receiving overwhelming response from all the KVKs of the zone.

I sincerely acknowledge the constant support and motivation we receive from our honourable Vice Chancellor, Dr.K.M.Indresh, UHS, Bagalkot for effective implementation of the KVK programmes thus serving the farming community.

I wholeheartedly thank Dr.S.I.Athani, Director of Extension, UHS Bagalkot for his apt guidance and inspiration for executing our activities.

With great pleasure, I place on record my earnest gratitude to Dr.V.Venkatasubramanian, Director, ATARI, Zone XI for his valuable suggestions and overwhelming support in compilation and editing of this issue and also his indefatigable efforts to see that the mandated activities of KVKs are well planned and executed. I also take this opportunity to express my sincere thanks to Our Nodal Officer, all the Principal Scientists of ATARI and Administrative staff of ATARI for their continuous support and timely guidance for implementation of various tasks of KVK.

My sincere thanks to the all the Heads and other fraternity of KVKs of the zone for their selfless efforts in sharing the unique activities in time which largely helps to bring out the issue in time. I wholeheartedly thank the entire team of our KVK for their valuable suggestions and support in bringing out this issue.

**(K.Thulasi Ram)
Senior Scientist and Head**

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ICAR-KVK Alappuzha



Promoters/Board of Directors of Farmer Producer Company from Lakshadweep visited the KVK

A team of Promoters/ Board of Directors of a recently formed Farmer Producer Company from Kavarathy, Lakshadweep visited the KVK on 04th July, 2022 to know the functioning and activities of the FPO promoted by the KVK and to have exposure and gather information on the machineries for coconut value addition. Mr. M.S. Rajeev, SMS (Agronomy) shared the experience on the formation and activities of Onattukara Spices Farmer Producer Company (OSFPC) promoted by the KVK. They had an exposure visit to Agro-Processing Training cum Incubation Centre (APTIC) of the KVK where Smt. Jissy George, SMS (Home Science) detailed on the scope of value added products from coconut. Functioning of machineries like coconut desheller, coconut scraper, screw press, pulverizer and virgin coconut oil cooker were also demonstrated. Their visit to Odanad Farmer Producer Company promoted by ICAR-CPCRI (RS) Kayamkulam and Onattukara Coconut Farmer Producer Company, Kattanam promoted by Coconut development Board, Kochi were also facilitated. The exposure visit was coordinated by KVK-Lakshadweep and led by Dr. Mohammad Koya.



Mentoring of a home maker to mushroom entrepreneur

Manju Xavier from Muttar, Kuttanad region of Alappuzha district was working as a nurse in north India. But due to family problems, she had to come back and settle in her native place. Being an enthusiastic and entrepreneurial lady, she was looking for a suitable enterprise, which would provide her income, peace of mind and service to the society. As her residence is surrounded by paddy fields, she has been thinking of an enterprise related to paddy. Thus the spark of mushroom production through value addition of the plentiful paddy straw available struck to her mind.

Hearing about the implementation of the NICRA project by KVK-Alappuzha in the region, she approached the KVK to make her dreams true. As per

the advice from the KVK resource person, she prepared a room in her house for mushroom cultivation and waited for the bloom, continuously making use of the KVK helpline to understand the changes occurring in the bed and the difference in growth of the mycelium. She was pleased with the short duration crop obtained by using the raw material from the surrounding fields. Meanwhile she developed her own marketing strategies for the mushroom regularly bloomed in her shed, which was branded as 'Maria Mushrooms' after the name of her daughter. Seeing her curiosity and interest in developing the newly started enterprise, KVK linked her to the Agriculture department for financial assistance. She attended the vocational training for spawn production in the KVK and now started spawn production also. Now, she is able to sell 300 – 350 kg

of organic oyster mushrooms in local markets and directly to about 70 families annually, @ Rs. 500 per kg and earning an income of Rs. 80,000/- to 100,000/- with an employment generation of 150 man days. She feels that this home based unit gives her monetary benefits as well as mental satisfaction

than the career where she was working for a pittance. Thus Mrs Manju Xavier becomes a model to those who earn a meager income by working far away for long hours by leaving the family by establishing own enterprise. Her success story and experience was broadcasted through local FM radio channel also.



ICAR-KVK Bagalkot

An awareness programme Weather based Agriculture was conducted on 12.07.2022 at Chimmanakatti village. A total of 33 farmers participated and got benefit of this programme. Mr. Sunil Lmani (Agromet Observer) explained to farmers about weather, climate, climate change, reasons for climate change, effects of climate change

on agriculture, mitigation strategies, Objectives of GKMS project, details about DAMU and Weather based Agro-advisories. Also explained about automated weather station and Weather-related mobile applications like Meghdoot, Mausam, Damini. On this occasion petroleum conservation awareness programme was also organized and farmers were appraised of.



On-Campus Training Programme

On-Campus training was conducted by Dr. Sudha S Scientist (Plant Pathology) on Management practices for twisting disease in Onion at ICAR-KVK,

Bagalkote on 13-07-2022. At this juncture the climate factors, physiological factors responsible for causing disease were dealt with more than 05 farmers participated in the programme.



Off campus training programme on CFLD Redgram

Off campus training programme on CFLD Redgram in collaboration with KSDA ATMA at Chimmanakatti village. A total of 30 farmers participated in this programme. Dr. Mouneshwari Kammar explained about the importance of CFLD facilities available at KVK and demo units and Mr. S. C. Angadi, Senior Technical Officer explained about importance of soil and water testing in agriculture crop production.



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Farmers Field School on Cotton



A programme on farmers field school on cotton conducted at Hiremagi village of Kamatagi hobli on 14.07.2022. Mr. S. C. Angadi, Senior Technical Officer explained about importance of soil in cotton crop production and crop management strategies. A total of 10 farmers participated in this programme. Pre testing of knowledge was carried out at this session after selecting farmers. Mr. Basavaraj Nagaleekar (SMS Agrometeorology) and Mr. Sunil Lamani (Agromet Observer) were present on this occasion.

ICAR-KVK Ballari



Field day on 'Northern Dry Zone Medicinal Plants' at Kurugodu in Ballari

Karnataka State Medicinal Plant Authority in collaboration with Karnataka Biodiversity Board, ICAR-KVK, Ballari and Department of Forest, Ballari had organised a field day on 'Northern Dry Zone Medicinal Plants' at progressive farmer Sri. S.V. Suryanarayana Raju's farm in Kurugodu, Ballari on 11.07.2022. The objective was to create awareness about medicinal plant cultivation, demonstration of cultivation practices of Nannari (*Decalepis hamiltonii*), post-harvest management and to provide market information. The CEO and Additional Principal Chief Conservator of Forests Sri Sudharshan, IFS, in his introductory speech highlighted importance of medicinal plants in human health and possibilities of doubling farmer's income by resorting to their commercial cultivation with a proper market linkage. Dr. Giridhar Parvatham, Principal Scientist, CFTRI, Mysore in his lead speech mentioned about medicinal values of Nannari (Makali beru) and possibilities of its inclusion in our day-to-day consumption. Dr. Ramesh, B.K., Senior Scientist and Head, ICAR-KVK, Ballari stressed the need for value addition so that the medicinal plants find a place in regular human preference with wider acceptability. Deputy Conservator of Forest, Sri. Hiralal, T., Sri Sandeep Suryavanshi, Sri. Girish of Department of Forest, Ballari and Vijayanagar, scientists of KVK, Hagari Dr M R Govindappa and Dr Anandkumar V also took part in the meeting. Progressive farmer Sri. Suryanarayana Raju briefed the gathering about Nannari cultivation practice and available marketing avenues. Sixty farmers and ayurvedic students of Taranath Ayurvedic Medical College, Ballari took part in the field day and witnessed Nannari grown in nearly 100 acre land owned by Sri Suryanarayana Raju.



ICAR-KVK Belagavi-I

Training on Fish Retail Marketing and Value Addition



ICAR-BIRDS Krishi Vigyan Kendra, Belagavi-1 has conducted 3 days training on 'Fish retail marketing, value addition and other EDP avenues from 30-06-2022 to 2-07-2022. This programme was sponsored by NFDB, Hyderabad. The training was inaugurated by Sri. R. M Patil, Chairman of the KVK and in his inaugural speech stressed on women empowerment through fish retail and value addition business. Dr. D. A Mehtre, Sr. Scientist and Head of the KVK said that Belagavi district has greater potential to fish related entrepreneurship, especially for women.

During three days of training, Adarsha H S, Fisheries Scientist of the KVK has given information on hygienic fish selling, cost benefit economics, sources of fishes, value addition business propositions, fish seed rearing prospectus and grow out fish production. In the same time, Mr. Mrunal Madali, cooking expert has demonstrated the value added product preparations like fish fingers, fish cutlet, fish pakoda, fish balls and fish pickles. KVK Home Scientist, Rekha Karabhari has also demonstrated the production of Jam and Jelly from the vegetables for the women trainees.

Field visit to fish seed rearing unit and grow out production unit was arranged on the third day of the training. Trainees were given practical exposure the seed rearing and grow out production of different fish species. Later, trainees were subjected to brain storming session regarding the fish resources available, already existing market, population based potential areas for fish retail and value-added marketing. Trainees were given with travelling and dearness allowances and distributed certificates.

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ICAR-KVK Belagavi-II



On campus training On Production Technologies in Cotton

Training on “Better Cotton Initiative” was organized at ICAR-Krishi Vigyan Kendra, Mattikopp in association with Vardhman Textiles Ltd, Ludhiyana, Punjab on 01.07.2022. The training programme was inaugurated by Shri Vijay Metgud, Basava Textile, Bailhongal. During his inaugural speech, he emphasized that cotton is important commercial crop which provides eco-friendly clothing and the cotton industry create employment opportunities to the rural youths. Mrs. Sridevi B. Angadi, Senior Scientist & Head highlighted about the use of cotton picking machine to reduce the drudgery while picking. KVK Scientists Dr.S.S. Hiremath briefed about seven principles of Better Cotton Initiative (BCI) farmer should follow; farmer should minimize the harmful impact of crop protection practices, they should promote water stewardship and they should care for health of the soil, enhancing bio-diversity and use land responsibly, they should care for and preserve fibre quality and also explained the IPM technologies like use of pheromone traps, SPLAT application, release of *Trichogramma* bacteria to manage pink bollworm. G.B. Vishwanath explained about agronomic practices like spacing, seed rate, sowing methods, intercrop with soybean, groundnut, chilli, greengram. He also briefed about fertigation schedule, weed management through inter cultivation, manual as well as with herbicides. He stressed upon micro irrigation for efficient use of water. S.M. Warad interacted with farmers on nutrient management in cotton production. 50 farmers of Belagavi taluk participated in the training and gained knowledge on cotton production technologies.



On campus training on Scope for Entrepreneurship in Agriculture

On campus training was conducted to Rural Youths on Scope for Entrepreneurship in Agriculture at KVK, Mattikopp. Praveen Yadahalli, Scientist (Horticulture) explained the use of drones in agriculture and scope for entrepreneurship in propagation of planting material and use of drones in agri and horticulture fields. G.B. Vishwanath, Scientist (Agronomy) briefed on integrated farming system and seed production and S.M. Warad, Scientist (Soil science) explained soil testing and scope for establishment of mini soil testing laboratories in rural areas by youths.



Pest survey and surveillance

Pest survey and surveillance was conducted in collaboration with University of Agricultural Sciences, Dharwad and Department of Agriculture. Team visited villages in Bailhongal and Savdatti taluks and observed micronutrient deficiencies and Spodoptera incidence in soybean, yellow vein mosaic disease in greengram, white grub and rust disease in sugarcane. Suggested suitable integrated management practices to the farmers and Extension functionaries to prevent further spread of pest and disease.



Participated as Resource Person in SHG meeting

On eve of 75 Azadi Ka Amrit Mahotsav seed money was provided to Self Help Groups to encourage entrepreneur activity. The programme was inaugurated by Shri. Umesh Kattiji, Hon'ble Minister of Forest and Food, Civil Supplies and Consumer Affairs and ensured that all the Self Help Groups will be rigorously trained in their interested area and experts will conduct a survey to assess the needs of SHGs accordingly suitable financial support and market linkage will be provided by taluk Panchayat to promote group activity. Mrs. Sridevi B Angadi, Senior Scientist & Head interacted regarding innovative approach which is a need of the hour to have breakthrough for traditional product in different form.



ICAR-KVK Bengaluru Rural



IInd Phase MDP training of newly recruited Senior Scientists and Heads

ICAR-NAARM has organized a Management Development Programme (MDP) for Newly Recruited Senior Scientist & Heads(SS&Hs) of Krishi Vigyan Kendras (KVKs). As a part of IInd phase of MDP programme, the 7th batch participants of newly recruited, 5 Senior Scientist and Heads from five different Zones of the country were deputed to ICAR Best KVK Bengaluru Rural District for a duration of 10 days from 2nd to 11th July 2022. The capacity building programmes were organized to stimulate critical thinking, interdisciplinary team work and professional values and ethics for effective participation and contribution to agriculture and rural development.

The trainings also helped to equip the SS&Hs of KVKs with necessary knowledge, skills attitude and aptitude for effective management of human, physical, financial, information and knowledge resources to make the KVKs vibrant, responsive and accountable front-line extension system at the district level. Field visits were organized to frontline demonstration and on-farm testing plots, to acquaint them with the process for technology assessment, refinement, demonstrations and dissemination. Various exposure visits were

organized to UAS Bangalore and different departments of Mandya District viz., College of Agriculture, Jaggery Park, ICAR-Krishi Vigyan Kendra, water technology centre etc.

The participants were provided an opportunity to visit the farmers Producers Organizations (FPOs) and different line departments, mainly to equip them with latest knowledge and skills for impact analysis in terms of output and outcome from the stakeholder's perspective. The participants were also made to visit progressive farmers field to build them confidence in identification and documentation of success stories, this will in turn improve their competency in Agro-advisory. At the end of the training programme certificates were distributed to the participants and they felt happy about the programme and opinioned that, they were harnessed with modern concepts, latest technologies, knowledge management, human resource management, Sharing and technology application & integration which will help them to create a positive impact in the KVKs.



ICAR-KVK Bidar



FLD on Growth performance of stunted fingerlings in short durational seasonal ponds - Fresh Water Fish Fingerlings Release In Farm Ponds of Bidar District

In recent years the inland fish farming has turned out to be highly remunerative activities for farmers. Hence ICAR Krishi Vigyan Kendra, Bidar has decided to introduce 'composite fish culture farming' in the district under FLD on the composite fish culture technology. Fish farming in farm ponds will be a new venture to help famers and earn additional income.

The farmers were ignorant about the different species of fishes available in the market. They were unable to identify different fish species because of which they face problems when it comes to purchasing. To give good and healthy fingerlings on timely KVK Bidar conducted the FLD on Growth performance of stunted fingerlings in short durational seasonal ponds. There are good varieties of freshwater fish can be cultivated in farm ponds in Bidar now days farmers are coming and showing interest towards the fish farming.

A team of KVK Bidar scientist released the freshwater fishes The species used in composite culture includes 3 species of carps (2 indigenous and 1 exotic fishes) viz. Catla, Rohu, and Common carp (exotic carps). Each fish species had a certain feed preference, which is related to the position of the fish in the pond (Eg. Surface feeder, column feeder and bottom feeder). Total 40,000 fish fingerlings were released in 10 farmers farm ponds in village like Keroor and Hupla of bhalki taluka and Janawada villages of Bidar taluk and Mamadapur, Yanagunda of Aurad Taluk. This technology enables to get maximum fish production from a farm pond through utilization of available fish food organisms in all the natural niches and supplemented artificially. During the release of fish fingerlings KVK Bidar Scientist (Animal science) Dr Akshaykumar and farmers like Sri Share khan, Sri Shardul Miyaan, Sri Balaji Wadekar, Sri Sanjeevkumar Ropa and Sri. Umakanth Biradar and other fellow farmers were present.



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ICAR-KVK Chamarajanagara



Capacity building programme on dry land horticulture crops

ICAR-KVK Chamarajanagara organized a capacity development programme on dry land horticulture crops under NICRA – National Innovations in Climate Resilient Agriculture and distributed different fruit saplings at Putthanapura village of Gundlupete Taluk on 07.07.2022.

Dr. Chandrakala Hanagi, Senior Scientist and Head, emphasized the importance of horticulture plants in the context of climate change in order to increase the income of small and marginal farmers in the country and distributed horticulture saplings to the farmers. Mr. Yogesh. G.S, Scientist (Soil Science), discussed climate change challenges in horticulture crops. Mr. Rajath H. P., SMS (Agromet), explained the steps to be taken to combat the impact of climate change on horticulture crops. He also briefed participants on the forecast services provided by DAMU via Whatsapp and encouraged them to use them.

Shri. Rajashekarappa, President, PACS Bank, appreciated the work and assured his support to all upcoming programmes to uplift the farmer's economy.

Shri. Shivanna, Vice President, VCRMC and Gram Panchayath members also participated in the programme.

Mr. Basavasagar, SRF, NICRA project co- ordinate the programme. A total number of 64 farmers / farm women participated in the programme.



ICAR-KVK Chikkaballapura



ICAR-KVK, Chikkaballapura organized off campus training on seed treatment in redgram at Tondebavi village of Gowribidanur taluk on 01.07.2022. Dr. Papireddy, Scientist and Head highlighted about importance of seed treatment in redgram, Mr. Vishwanath, Scientist (Agronomy) explained about improved cultivation practices in redgram and Dr. Vinoda, Scientist (Sericulture) demonstrated the procedure of seed treatment in redgram.

Dr. Randhir Singh Poswal, Assistant Director General (Agricultural Extension), ICAR, New Delhi along with Dr. Chandre Gowda, Principal Scientist (Agriculture Extension) and Dr. K. Thimmappa, Principal Scientist (Agricultural Economics), ATARI, Bangalore visited ICAR, KVK, Chikkaballapura on 13.07.2022. Dr. Papireddy, Senior Scientist and Head explained about activities of KVK and visited the demo plots, reeling unit, weaving unit and also visited sericulture farmer field at Hitlahalli village of Sidlaghatta taluk.

Training programme on integrated nutrient management in mulberry was organised by KVK, Chikkaballapura in coordination with Skill Development Centre, UAS, Bangalore on 13.07.2022. Dr. B. Krishna Murthy, Associate Director of Extension, UAS, Bangalore along with other dignitaries inaugurated the programme and emphasised on promotion on bi voltine sericulture. Dr. Manjunath Gowda, Professor and Head, Dept. of Sericulture, GKVK, Bangalore explained about importance of integrated nutrient management in mulberry. Dr. Papireddy, Senior Scientist and Head, highlighted about role of quality mulberry production for sericulture. Dr. P. Venkataravana, Dean (Seri) presided the programme.



ICAR-KVK Chikkamagaluru



DAESI Inaguration

ICAR Krishi Vigyan Kendra, Chikkamagaluru has organized DAESI inaugural program in collaboration with MANAGE, Hyderabad and SAMETI (South), Bengaluru at KVK, Chikkamagaluru.

Dr. Narayana Reddy, Professor and Head, Nodal Officer, SAMETI (South), University of Agricultural Sciences, Bengaluru, in his introductory remarks he briefed about the DAESI mandates, importance, roles, and also advised the students to take oath, that you will work for the prosperity of the farmers.

Dr. Hemal Naik, B, Directorate of Extension, KSNUAHS, Shivamogga, inaugurated the programme and briefed about the responsibilities of the DAESI students that should understand the hardship and losses of the farmers, put the business vision aside and work hard for the prosperity of the farmers.

Dr. Thirumalesh, M, Joint Director of Agriculture, Chikkamagaluru participated as Chief guests. He explained about role of the state department of agriculture and SAMETI and ATMA and NTT's and also explains criteria and process and procedure for selecting candidates for the DAESI programme.

Dr Krishnamurthy, A.T., Senior Scientist and head, in his presidential remarks briefed about the one year DAESI course includes the location specific agricultural education for input dealers. This course is important in reducing the production cost of the farmers. Further, advised the students to work hard to increase the income of the farmers, and also the role of MANAGE with respect to DAESI.

On this occasion Dr. Narayan. S. Mavarkar, Dean, College of Horticulture, Mudigere and Dr. Venkatesh, Associate professor, STU, University of Agricultural Sciences, Bengaluru address the DAESI students and grace the occasion.



ICAR-KVK Chitradurga



On campus capacity building programme “Onion seed certification procedure”

An innovative program on farmer participatory seed production activity was initiated by KVK, Chitradurga on 5.07.2022. During the programme Dr. Prakash Kerure Scientist (Horticulture) explained the importance of seed production in onion, supplied the breeder seeds of Bhima Super, Bhima Shakti and Bhima Dark Red to onion seed farmers by covering an area of 20 acres. Dr Kumara, O, Senior Scientist and Head expressed that it was an flag ship programme of KVK and through FPO the seed productions can be strengthen and this program will helps for self reliance of quality onion variety seeds among the farmers. Mr. Tejaswi Kumar, seed officer from KSSCA, Davanagere briefed the scientific onion seed production regarding maintenance of purity, isolation distance and roughing on onion seed plot and he expressed it was new initiative programme by KVK and it is a present need among the farming community.

Yalagatte village of Challakere Tq. Dr. Prakash Kerure Scientist (Horticulture) nodal scientist for NICRA project demonstrated the Cashew crop (variety V-7) in an total area of 16 acres, mango in 10 acres, drumstick in 11 acres under block demonstrations. Other horticulture crops like guava, amla, tamarind, custard apple, jamun among the farmers field. Dr. Kumara O, Senior scientist and Head, PI for NICRA project took crop demonstration on ground nut in 25 acres, red gram in 25 acre and also demonstrated on ground nut + red gram intercropping systems on 6.07.2022.



Jalashakthi Abhiyana interaction meeting

Promotion of dry land horticulture crops related crop diversification in adopted NICRA Yalagatte village of Challakere Tq.

The second phase of National Innovations in Climate Resilient in Agriculture (NICRA) program was launched by ICAR-CRIDA with the support from ICAR-ATARI Bengaluru at ICAR-KVK Chitradurga at

An interaction meeting on Jalashakthi Abhiyana programme was organized at Krishi Vigyan Kendra, Babbur Farm, Hiriyur on 04-07-2022. Sri. Mohanthy, Director, Ministry of Home affairs, Government of India visited the KVK along with Dr. Shakthivelu, Scientist, CGWB, Ministry of Jalashakthi Abhiyana.

Dr.D.V. Sreenivasa Reddy, Principal Scientist, ATARI, Bangalore, Deputy Secretary of Zilla Panchayath, Chitradurga, Dr. Rangaswamy D.S., Dr. O. Kumar, Sr. Scientist and Head, KVK, Dr. Ramesh Kumar, Joint Director, Department of Agriculture and Mrs. Savitha, Deputy Director, Department of Horticulture, Chitradurga and all the Scientists of KVK and line department officials have

participated in the programme along with 34 farmers from different villages of Chitradurga district.

Dr. Onkarappa, Scientist (Plant protection) briefed about the various activities conducted by KVK under Jalashakthi Abhiyana Programme during the past years. The Progressive farmers of Hiriyur taluk Mr. Vedamurthy and Mr. Pandurangappa have shared their experiences on water usage in their agricultural activities and how to save water in farm activities.

Sri. Mohanthy and Dr. Shakthivelu have interacted with the farmers and gathered information on the water conservation practices adopted by the farmers and the usefulness of the adoption of efficient water use technologies such as drip and sprinkler irrigation systems.

Dr. Sreenivas Reddy and Dr. O. Kumar have briefed about water availability status of the district and the practices adopted by the farmers in their fields towards soil and water conservation. KVK is implementing NICRA project at Yalaghatta village, where in major focus was given on soil and water conservation and alternate land use system was planned for getting sustainable yield in dry areas of Challakere taluk.

Mrs. Geetha Kumari, Programme Assistant, KVK welcomed all the dignitaries and the farmers to the programme and at the end Dr. O. Kumar, Sr. Scientist and Head extended the vote of Thanks to all the dignitaries and the participants of the programme.



A Training programme on Natural farming was organized on 14-07-2022 at Krishi Vigyan Kendra, Babbur farm, Chitradurga in collaboration with NISARGANGO, Hosadurga.

Dr. O. Kumar, Sr. Scientist and Head of KVK presided over the programme and delivered the presidential speech. He briefed about the agriculture scenario during 1960's and objectives of Green revolution were briefed to the farmers. He also discussed about the disadvantages of excessive use of Inorganic fertilizers and pesticides on Soil and Human health. In order to overcome the problem Natural Farming is the only way out. By adopting Natural Farming systems in agriculture which can improve the soil health and it is also beneficial in conservation of natural resources. Government of India also implementing many programmes to promote Natural Farming system among the farming community. He also briefed about the great pioneers

of Natural farming Mr. Fukuoka and Mr. Subhash Palekar in his speech.

Dr. S. Onkarappa, Scientist (Plant Protection) KVK, discussed about the Natural Farming system, objectives and benefits of natural farming in his introductory speech. Natural farming is a chemical free traditional method, considered as an agro ecology based diversified farming system which integrates crops, trees and livestock with functional bio diversity.

Mrs. Smitha D'Souza, Head, NISARGA NGO, Hosadurga inaugurated the programme by pouring water to the plant and she opined that KVK and NISARGA NGO are working together from past many years and have successfully completed many programmes. She also opined that the NGO is interested to work on Natural Farming related activities along with KVK with same kind of cooperation and support.

During the technical session Dr. Rudramuni, Farm Manager, KVK delivered a lecture on management of pest and diseases under Natural farming system, Dr. Kumara O., Sr. Scientist and Head, KVK discussed about the goals, objectives and methodology of Natural farming and Dr. Prakash Kerure, Scientist (Horticulture) discussed about the cultivation aspects of horticultural crops under Natural farming system.

Mrs. Geetha Kumari, Programme Assistant, KVK welcomed all the dignitaries and farmers to the programme and also hosted the programme. At the end Dr. Prakash Kerure, Scientist (Horticulture) extended the vote of thanks.



ICAR-KVK Dakshina Kannada



Workshop on Inland Fish Farming

A workshop on scope for inland fisheries and departmental schemes for fish farmers was organized by FPO-Putturda Muttu, Kumbra Village in collaboration with Department of Fisheries, Zilla Panchayat, Dakshina Kannada. The programme was inaugurated by Mr. Angara, Minister of Ports and Inland Water Transport and in his speech expressed that deep water fishing has been encouraged to conserve fish species at coastal area and to overcome the market issue of selling of freshwater fishes, Government is planning to extend support to fish farmers through extending loan facilities, establishing cold storages and providing vehicles through cooperative societies.



Mr. Sanjeeva Matandur, Honourable MLA expressed that farmers have to find market for their own products and in the district, we have fisheries resources in the form of ponds, tanks, rivers, agriculture storage tanks for sustainable livelihood in fisheries, Fisheries department officials namely Mr. Harish Kumar, Joint Director of Fisheries, Smti. Sushmitha Rao, Deputy Director of Fisheries, Mr. Dilip Kumar, Assistant Director of Fisheries and Dean of College of Fisheries, Mangalore Dr. Shivakumar Magada & Smt. Thriveni Palaththaru, President, Olamogru Grama Panchyath participated in the programme.

Geographically Indicated Flower Crop Udupi Jasmine Cultivation workshop

Department of Horticulture, Dakshina Kannada organized a Capacity Development programme on Udupi Jasmine Cultivation at Sri Durgaparmeshwari temple premises, Kateelu on 03-07-2022. Mr. Umanath Kotian, MLA of Moodibidri Constituency inaugurated the Programme and in his inaugural address opined that Dakshina Kannada and Udupi is known for Udupi Jasmine Cultivation. Farmers of both the district should take the benefit of schemes of department of Horticulture and information from the scientists of Krishi Vigyan Kendra to increase the income and to lead a sustainable life.

Udupi mallige also known as Shankarapura mallige. Due to its unique nature of fragrance, speciality in quality and popularity from the area of production which is tagged under geographical indication during December 2013. Dr. Rashmi R., Scientist (Horticulture), ICAR-Krishi Vigyan Kendra (Dakshina Kannada) Mangaluru Participated as a resource person and delivered a lecture on Udupi jasmine cultivation, importance of jasmine cultivation and Methods and time of pruning for off season flowering in Udupi jasmine.

During the programme 2000 jasmine plants were provided to 185 Jasmine growers. Mr. Praveen, Senior Assistant Director of Horticulture, Mangaluru highlighted about the schemes of Department, welcomed the guests and programme was ended with vote of Thanks by Mr. Yugendra, Assistant Horticulture Officer, Mangaluru and Dr. Sajana S. Assistant Horticulture Officer, Mangaluru, progressive farmers graced the event. Around 225 Jasmine Growers, Farmers and Farm womens got benefitted by the programme.



ICAR-KVK Davanagere

Integrated Management of Fall armyworm in Maize

Implemented FLD on Integrated Management of Fall armyworm in Maize at Kodaganuru village of Davanagere Taluk. Dr. Avinash T. G. SMS (Plant protection) explained the significance bio-agent *Trichogramma chilonis* egg parasitoid in managing the *Spodoptera frugiperda* population. Single adult *T. chilonis* will parasitizes the 8-10 eggs of FAW per day. The Main advantages of the Bio-agents were eco-friendly, cost effective and species specific. Per acre 4-5 egg cards were enough to manage the pest population. Further, explained the reason why FAW is particularly devastating to farmers because maize is growing maize year after year and FAW is capable of feeding on both the vegetative and reproductive parts of more than 350 plants. Advised farmers to rotate the crop in the next season. Demonstration was carried out in the field and provided Trichocards to the farmers. Mr. Sannagoudru H. M. SMS (Soil Science) and Mr. Mallikarjun B. O. SMS (Agronomist) were present during the visit.



Organized Sensitization Program to PU Students



The program was conducted in view of the practical test for PU passed students to get exposure for farm courses. The plethora of guests invited for the event was awe inspiring as it consisted of graduates from all farm science courses like BSc Agri, BSc Horticulture, BSc Veterinary, BSc Fisheries. Joint Director of Agriculture of Davanagere District Sri Sreenivas Chintal was the inaugurator of the event, who gave inspirational talk to the gathered students and parents.

Exhibited the Agriculture, Horticulture, Veterinary specimens in the KVK. The exhibition was inaugurated by Mr. T.V. Devaraja, CPI, Department of Police, Gok., Honnali taluk who was also an Agri graduate, Students were enlightened by the guests on future opportunities in the farm science courses. Noted personalities from different departments viz., Dr. Lingaraj DD Veterinary Davanagere, Sri. Annaswamy DDF Davanagere, Smt. Reshma Parvin, SADH, Davanagere took

part in the program. Dr. Devaraja T. N. Senior Scientist and Head in his presidential remarks expressed the career opportunities in the farm courses. Mr. Basavanagowda M. G., SMS (Horticulture) led the practical classes for the participant students and more than 200 students benefited from the program

National Fish Farmers Day

Celebrated the National Fish Farmers Day at Kodaganur, Davangere taluk in collaboration with Kodaganur Taralabalu AFPO. Mr. Mallikarjuna B.O SMS (Agronomy) expressed that fish farming is profitable and farmers should go for integrated farming system approach including dairy, poultry and fishery. Farm pond where there will be water throughout the year we can plan for the fish farming. Dr Supriya Patil, Home Scientist also added information on nutritional value of fish and its good sea vegetable.



Training program on Natural Farming

Conducted the training program on Natural farming in collaboration with SKDRDP, Harihar. Mr Mallikarjuna B.O SMS (Agronomy) delivered lecture on the Methods of the natural farming which can be adopted according to our situation and advantages of natural farming.



ICAR-KVK Dharwad



Off campus training on Nutri garden

Off campus training programme on nutri garden was organized by ICAR-KVK, Dharwad at Honnapur village of Dharwad taluka on 08.07.2022. The information on importance of nutri garden in boosting immunity, garden layout, care and maintenance were shared with the farmers. The nutri garden kits and seedlings were given to the farmers. Dr. Geeta S. Tamgale, Scientist (Home Science), ICAR-KVK, Dharwad explained about the nutritional importance of seeds and seedlings distributed to them. Dr. Shripad H. Kulkarni,



Nodal Officer (KVKs), UAS, Dharwad was also present and he delivered a lecture on household management of pest and diseases in an organic way. Nearly 35 farmers were present and benefitted from the training programme.

Demonstrations on Soybean var. DSb-34

Frontline Demonstration on Popularization of Soybean var. DSb-34 was implemented by ICAR-KVK, Dharwad Scientists in the farmers fields of Ugginakeri village from Kalaghatagi taluka. Soybean var. DSb-34 has been released for southern zone (Karnataka, Andra Pradesh, Telangana, Tamilnadu and southern parts of Maharashtra). The special characteristics of the variety being early maturing (85-90 days), high yielding (25-30 q/ha), highly resistant to rust and tolerant to pod shattering upto 8-10 days after maturity has benefitted the farmer in many ways. The crop was sown during I fortnight of June and presently it's a 35 days crop. Dr. S. A. Biradar, Senior Scientist and Head, Dr. Prasanna Kumar B.H., Scientist (Agronomy) and Dr. Punitha B.C., Scientist (Soil Science) visited the soybean fields on 07.07.2022 and discussed about the agronomical practices to be followed in attaining expected yield levels.



On farm testing on Assessment of paddy varieties

On farm testing on Assessment of paddy varieties (RNR-15048, Mugad Siri, BPT-5204) was implemented by ICAR-KVK, Dharwad Scientists in the farmers fields of Ugginakeri village from Kalaghatagi taluka. Dr. S. A. Biradar, Senior Scientist and Head, Dr. Prasanna Kumar B.H., Scientist (Agronomy) and Dr. Punitha B.C., Scientist (Soil Science) visited the OFT fields on 07.07.2022 and monitored the crop status. Scientists explained the reasons for implementing the OFT on assessment of paddy varieties and shared information on special characteristics of all the 3 paddy varieties.



ICAR-KVK Ernakulam



Kerala Institute for Entrepreneurship Development (KIED) trainees visited KVK's Satellite demonstration farms

Participants of the Aquaculture and Fisheries Entrepreneurship Development Programme (EDP) organized by Kerala Institute for Entrepreneurship Development (KIED), Kalamassery visited KVK's satellite demonstration farms maintained at Manjaali and Anachaal near Ernakulam on 29th June 2022 and interacted with farmers. The trainees got practical insight into the techno-commercial aspects of two income generating enterprises being demonstrated by KVK (Ernakulam) viz., *Cage fish culture* and *Pearlspot seed production*. The EDP program was organized by KIED jointly with National Institute for Micro, Small and Medium Enterprises and the National Fisheries Development Board, Hyderabad. Dr. P.A Vikas Subject Matter Specialist of the KVK interacted with trainees.

Training on Water conservation in horticulture crops and Rain shelter cultivation



The KVK jointly with Agricultural Technology Management Agency (ATMA) has conducted training on "Water conservation in horticultural crops and rainshelter cultivation" on 1st July, 2022 at Service Cooperative Bank Auditorium, Neericode. The Subject Matter Specialist (Horticulture) Shri Shoji Joy Edison handled technical session. The programme created awareness on importance of water conservation and water security issues among farmers. The participants were urged to join "Jal Shakthi Abhiyaan", the Nation wide campaign on water conservation being implemented by Government of India.

KVK participated in district level farmers fest organized by Dept. of Agriculture, Govt. of Kerala

The KVK participated in the Ernakulam district level Njattuvela fest and inauguration of Njungalum krishiyilekku programme of Department of Agriculture, Government of Kerala held at Service Cooperative Bank Auditorium at Neericode on 2nd July, 2022. The KVK demonstrated various technologies and products including Soil less planting media, Mini oil press, Pearl spot seeds, Organic manure Fishilizer, Pokkali rice, sea fish extract, Vaccinated poultry chicks, Turmeric seeds produced at KVKs satellite seed production centres. The fest was inaugurated by the Kerala State Industries Minister Shri. P. Rajeev.



Training on Homestead Fish farming conducted



The ICAR-KVK Ernakulam, CMFRI, organized one-day training program on *Homestead Fish farming* at Karumalloor on 11th July 2022 as part of the National Campaign "Emerging Aquaculture Systems & Practices". Smt. Sreeletha Lalu, President Gramapanchayath, Karumalloor, inaugurated the program. Dr. P.A Vikas SMS (Fisheries) was the resource person. KVK partner farmers Shri. Jabbar Mattuppuram and Shri Ullas A.R shared their farming experiences during the training. Progressive farmers participated.

ICAR-KVK Gadag

Entrepreneurship development Programme For SHGs

ICAR-K.H.Patil Krishi Vigyan Kendra in collaboration with Department of Women and Child Welfare, Gadag organized training programme to the SHG members on entrepreneurship development under “Amrut Self Help Micro Enterprise Project”. Two trainings were conducted from 16th to 18th June and 20th to 22nd June, 2022 comprising of 200 members belonging to 175 SHGs in Gadag district. The trainees were trained in packaging, labeling, licensing, marketing, accounting, Bank transactions, money management, tax, GST etc. Further the exposure visit to processing unit, oil processing unit, organic sales unit, ethnic food café at KVK were organized. The trainees were exposed to various packaging machines and packing techniques.



Business plan for SHGs

ICAR-K.H.Patil Krishi Vigyan Kendra conducted training on “Marketing, packing, labeling, licensing and empowerment of women” organized by Zilla Panchayat and National Rural Livelihood Mission under National Economic Transformation Project on the capacity building and business plan to technical persons of entrepreneurship service centers on 21-06-2022.

Demonstration On Nutritive Rich Recipe – Millet Vegetable Manchurian

ICAR-K.H.Patil Krishi Vigyan Kendra conducted method demonstration on nutritive millet vegetable Manchurian under ICAR-Gender and Nutrition Project on 24.06.2022 at Shingatarayanakeri village of Mundaragi block in Gadag district. The locally available millets, vegetables and other ingredients were used in the demonstration.

The nutritive rich recipe was demonstrated with an intention to increase the consumption of millets / Sorghum among all age group using locally available vegetables and other ingredients with modern cosine / taste. Thirty two women and children participated and all relished the millet Manchurian.



ICAR-KVK Hassan



ICAR-KVK Hassan in collaboration with ATMA, Department of Agriculture, Hassan, District Panchayath Office and other line departments of agriculture organized the Jalashakthi abhiyana, Kissan mela, agricultural exhibition and farmers scientist interaction under Aazadi Ka Amrit Mahotsav at KVK, Hassan on 15-07-2022. Mr. Krishnaegowda, President Krishika samaja, Hassan has inaugurated the programme and in his inaugural speech he said that farmers should involve in all steps of programme planning and implementation then only programmes will be successful. Dr. Rajegowda, Senior scientist and head, KVK, Hassan has chaired the programme and during his presidential remarks he said that farmers should adopt micro irrigation techniques to use water in a judicious manner and save the water for future. Mr. Ravi, JDA, Department of Agriculture, Hassan during his introductory remarks, he mentioned that motto behind the programme and he said that programme is organized to create awareness on water use, conservation and how to increase water productivity. Mrs. Sudha, Senior scientist,

department of underground water has delivered lecture on bore well recharge, water use efficiency and government schemes for rain water conservation etc. Dr. Byrappanavar, Assoc. Professor, college of agriculture, Hassan has briefed the methods and importance of soil and water conservation in agriculture. Dr. Shivashankar, M., Scientist (Home science), Dr. Nagaraja, T., Scientist (Plant Protection), Dr. Arun, Scientist (Soil science), Dr. Srinivas despande, Scientist (Agril. Engineering), Dr. Pallavi, Scientist (Crop physiology) and Dr. Sanketh, C. V. Scientist (Agricultural Extension), KVK, Hassan has involved in farmers scientist interaction during the programme. All deputy directors, senior officials of line departments, ATMA staff and 202 farmers and farm women's were participated in the programme. The programme was anchored by Mrs. Manjula, Deputy project director, ATMA, department of horticulture, Hassan. In the programme different stalls were there o exhibit different technologies to the farmers.



Latitude: 12.982129
Longitude: 76.042453
Elevation: 832.5±48 m
Accuracy: 13.0 m
Azimuth: 152° (SE)
Pitch: 11.1°



ICAR-KVK Haveri



Demonstration of Bio-capsule in ginger crop

Ginger growing farmers of Makari village, Rattihalli taluk of Haveri district were given information on the use of *Trichoderma* and *Rhizobacteria* Bio-capsule (Tablets) in ginger crop by ICAR-Krishi Vigyan Kendra, Haveri. Dr.P.S. Hugar, Associate Director of Extension (HQ) and team of scientists from the University of Agriculture Sciences, Dharwad visited ginger field of Shri Ekanthayya and Shri Basavaraja and provided information on the use of the Bio-capsule. Dr. P.S. Hugar, briefed that in agriculture, bio-capsule technology is useful to avail the benefits of microorganisms in the form of tablets. This technology is being developed by the Indian Institute of Spice Research, Calicut, Kerala to help maintain soil fertility.

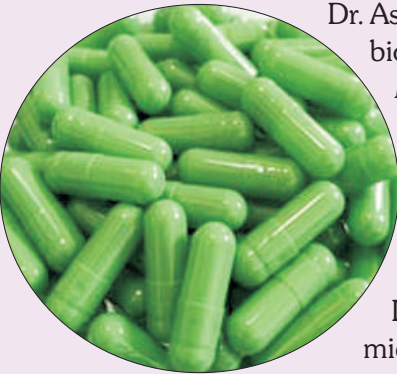


Dr. Ashoka, P. Senior Scientist and Head of KVK explained that in

bio-capsule technology, microorganisms such as *Trichoderma*,

Bacillus etc. required for horticulture crops are packed in the form of tablets (pellets).

Compared to other traditional methods, this technology makes it easier to store, cultivate and use microorganisms. Dr. Santhosha HM, Scientist (Horticulture) advised the farmers that, the highest number of micro organisms are packaged in tiny tablets. He said that the use of such tablets can effectively control the rhizome rot disease complex that occurs in ginger crop and can provide crop boosters to get high yield. Later Dr.Rajakumar Scientist (Soil Science) spoke about ginger rich application to manage micronutrient deficiencies.



Soil Health Campaign under NICRA village Rahuthanakatti

"Soil Health Campaign" was conducted under the NICRA project at Rahuthanakatti village in Rannebenur Taluk from Agricultural Science Center, Haveri (Hanumanamatti). Dr. Rajakumar G. R, Scientist (Soil Science), KVK, Haveri discussed about Rahuthanakatti village. It was selected as an adopted village under NICRA project, where soil and water conservation measures in farmers' fields will be taken up by KVK in coming years. Starting with, soil health cards were given to 75 farmers by analyzing 12 nutrients in the existing soil laboratory of KVK. Based on this soil test value, farmers were provided with detailed technical information on nutrient management and the use of chemical fertilizers. When the soil is acidic it requires lime and if alkaline, the soil should be mixed with gypsum, then to the crops, fertilizers have to be supplied. When salinity is high (> 4.0 dS/m) in soil, the salt must be discharged through the drain. It is also said that organic manures should be added to the soil at the time of sowing. In recommended dosage 25 per cent more of fertilizer should be given to crops if nutrient is deficient. It is also said that in recommended dosage, reduction about 25 per cent of the recommendation should be done. Then Horticulture scientist Dr. Santosh H. M, briefed farmers on the importance of soil health and horticultural crops and on the use of chemical and organic manures based on soil nutrient availability. It is also said that crops such as mango, coconut, banana, drumstick and sapota should be grown for better income. Soil health cards were distributed to 75 farmers at the event. It was attended by progressive farmers Sri Nilappa Dillappa Banakara, Sri Dillappa Baddeppanawara, Sri Chikkappa Karippa Moolimani, Sri Guddappa C Pujara, Sri Lingappa Nagappa Pooja, Sri Beerappa Somalingappa Olekara, Sri Santhoma Honnappa's grandfather and others.



ICAR-KVK Idukki



Animal health campaign in connection with azadi ka amrut mahotsav: india @ 75



Animal Health Campaign in connection with 75th Indian Independence celebration was conducted at Senapathy Panchayat Community Hall, on 01-07-2022 by ICAR KVK(BSS), Idukki in collaboration with Alembic Pharmaceuticals, Thodupuzha Smt Sandhya, Kudumbasree Chairperson, Senapathy inaugurated the programme by delivering valuable suggestions. She emphasized on the importance of Animal health campaign for sustaining the productivity of the livestock. Awareness on importance of prevention and control of infectious as well as contagious diseases along with their control measure practices were given to the farmers. Farmers were made aware on the scientific livestock management and poultry practices, hygienic milk production and management practices through the Animal Health campaign. During the camp Alembic Pharmaceuticals, Thodupuzha distributed Veterinary medicines to the farmers as a Collaborative programme in free of cost. The program was made effective by conducting awareness training on livestock as well as poultry rearing practices including Ethno Veterinary Medicine practices by Dr. S. Jayababu, SMS (Animal Husbandry), ICAR- Krishi Vigyan Kendra, Idukki, Kerala. Smt. Preethu K Paul, SMS (Agricultural Extension) delivered welcome address. Mr. Bobin Field Officer, Alembic Pharma delivered the felicitation address during the programme. 51 farmers participated in the Animal Health Campaign following the Covid -19 protocols. 16 Livestock and 3 poultry birds were treated during the Animal Health Campaign.



ICAR-KVK Kalaburgi-I

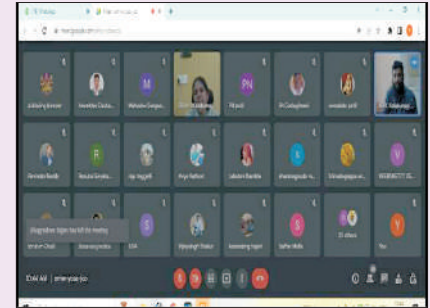


Training programme on Improved technologies for higher production in *Kharif* crops

ICAR-Krishi Vigyan Kendra, Kalaburagi-I and Department of Agriculture, ATMA scheme jointly organized online awareness training programme on “Improved technologies for higher production in *kharif* crops” on 4th June, 2022 to the department officers and farmers of the district. In this programme, Dr. Raju G. Teggelli, Senior Scientist & Head, KVK, Kalaburagi-I emphasised on pre-sowing agronomic practices for controlling integrated pest management in pulses especially in soybean, black gram and green gram. Dr. Zaheer Ahamed, Scientist (Pathology), ICAR-KVK, Kalaburagi-I explained about the seed treatment methods and integrated diseases management in pulses and horticulture crops. Dr. Yusuf Ali, Scientist (Agronomy) explained through power point presentation on improved agronomic practices in *kharif* crops. Finally Smt. Anasuya Hugar, Deputy Director of Agriculture, Kalaburagi presented ATMA scheme progress and gave the details of KSDAs different activities and achievements.

During the programme, Farmers - Scientists interaction was arranged during the session farmers asked series of questions on importance of natural farming, organic farming, processing opportunities, preparation of organic fertilizers, biofertilizers, improvement of soil fertility, soil and water conservations methods, vermi compost methods etc., ICAR-KVK, Kalaburagi-I scientists and KSDA officials were given answers and suggested to practice in their field.

In this ceremony, Dr. Vasudev Naik, Dr. Manjunath Patil, Dr. Shreenivas B, V, scientists, KVK, Kalaburagi, KSDA department officers, staffs and more than 50 farmers of different taluka of the Kalaburagi district were participated in the programme.



Training programme on Improved Cashew cultivation

ICAR-Krishi Vigyan Kendra, Kalaburagi-I and Myrada, Kamalapur jointly organized training programme on new area expansion of Cashew nut and Soil health management at Kamalapur and Kinnisultan respectively on 11.07.2022. In this programme, Dr. Vasudev Naik, Scientist (Horticulture) explained about improved agronomic practices and marketing facilities of Cashew nut and interacted with the farmers. Dr. Shreenivas, B. V, Scientist (Soil Science) participated as a resource person at Kinnisultan village, Aland taluka emphasised about the importance of soil health in Agriculture and explain the method of collection of soil and water samples for analysis. Later distributed 100 soil health cards to the beneficiaries of the village.

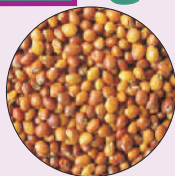


Diagnostic field visit by KVK Scientists

Diagnostic field visited to progressive farmer Sri Raja Patel, Gir cows and Kadakanath poultry unit, Sri Satishkumar, Dairy based IFS unit and Sri Sharanu Kognur, Dairy at Sindagi (B), Tilagul and Nandikur villages of Kalaburagi taluka by Dr. Manjunath Patil, Animal Scientist of ICAR-Krishi Vigyan Kendra, Kalaburagi-I on 4th, 8th and 14th July, 2022 respectively. In this visit, explain about management & marketing aspects in dairy and poultry and delivered information on importance of brucellosis vaccination to cow and buffalo calves later treated the diseased animals. A total of 150 farmers were participated and benefitted from these training programmes.



ICAR-KVK Kalaburgi-II



Off Campus Capacity building programme on Integrated Management of Pigeonpea new variety GRG-152 (Bheema) and Greengram variety BGS-9

ICAR-KVK, Kalaburgi-II (Raddewadgi) organized capacity building programme on Integrated Management crop management of Pigeonpea new variety GRG-152 (Bheema) and Greengram variety BGS-9 for farmers of Gotur village Kalgi Taluk on 05.07.2022. Dr. N. Manjunatha, Sr. Scientist & Head, ICAR-KVK, Kalaburgi-II (Raddewadgi) explained about the improved cultivation aspects in Pigeonpea and Greengram crop via., Sowing, varieties, inter cultivation, weed management, irrigation schedule, Fertilizer management, Fertigation, Fertigation schedule, to reach maximum production and productivity

Dr. Basavaraj, Scientist (Agril. Entomology) gave a lecture on integrated pest and disease management in Pigeonpea GRG-152 and Greengram BGS-9. Further, explained forthcoming new pest on Soybean, Blackgram, Greengram and Pigeonpea crops damaged by snail and millipedes. It is recommended with integrated approaches for the management of snail in above said crops during Kharif season 2022-23. About 46 participants were witnessed the programme.

Visit to Incubation Centre at KVK by RUDSETI Trainees

ICAR-KVK Kannur

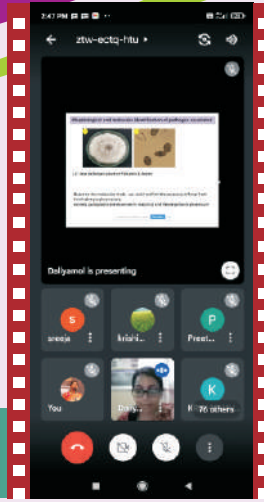
Trainees from RUDSETI have visited the incubation centre at KVK Kannur on 2nd July 2022 as practical session of training on processing and value addition of jackfruit. Session on jackfruit processing was given to them by Smt. Elizabeth Joseph, Assistant Professor (Home science) at RUDSETI.

Thirty two trainees visited incubation centre to familiarize with the equipments for processing of fruits and vegetables. They had an interactive session on entrepreneurship development and prospects of fruit and vegetable processing and value addition with Dr. Jayaraj P., Programme Coordinator, KVK.



ICAR-KVK Kasaragod

Online training programme for Agricultural officers of Kasaragod district:



An online training programme on New fungal diseases of coconut was organised on 1.7.2022 through google meet. The topic was handled by Dr Dahliamol, Scientist, Plant Protection division, ICAR CPCRI, Kasaragod. The agricultural officers of the district were oriented about a new fungal disease in coconut which was observed to be spreading wide in Kasaragod district and they were instructed to report such cases without fail to ICAR KVK, Kasaragod. Dr Anitha Karun, Director, ICAR CPCRI inaugurated the programme, Dr C Thamban, Head in charge of KVK presided over the programme and Smt Veena Rani, Principal Agricultural Officer felicitated.

Training programmes on Value addition of Jack fruit and Vermicomposting

As a part of the Njangalum krishiyilekk programme of State Agricultural Department, a training programme sponsored by ATMA was organized by Badiadka Krishi bhavan at ICAR KVK Kasaragod on July 6th, 2022. The topics were Value addition of jack fruit and Vermicomposting techniques. The trainings were attended by 10 and 17 participants respectively.

ICAR-KVK Kodagu



Capacity development programme on scientific black pepper production technologies



An off campus capacity development programme on scientific black pepper production technologies was conducted in collaboration with Pushpagiri farmers producers company Ltd. at Kuti village of Somwarpet taluk on 12th July 2022. During the programme Mr. Devaiah SMS (Horticulture) delivered a lecture on recent advances in black pepper production technologies, judicious nutrition management practices. Dr. Harish, SMS (Agrometeorology) explained about soil test and their importance in horticulture based cropping system. Mr. Veerendrakumar K.V, SMS (Plant protection) explained in detail about identification of pest and diseases and their integrated management practices and scientific bordeaux mixture preparation. A total of 52 farmers benefited from this programme.

Training programme on Control of Zoonotic diseases in veterinary field for working veterinarians of the district

ICAR-KVK Kodagu organised one day off campus training programme for working veterinarians of the district along with Dept. of AH&VS, NLM scheme & Karnataka veterinary association, Madikeri on 13th July 2022 at Suntikoppa. During the training programme Dr. Nithin Prabhu, SVO, Sullia & Dr. S.P Manjunath, SVO, Tiptur gave lecture on “Control of zoonotic diseases in veterinary field & surgical interventions in large animals”. Dr. Suresh S.C, SMS (Livestock), KVK Kodagu gave information on “national Livestock Mission & its implementation”. About 46 district veterinarian participated in the training programme. Dr. Suresh Bhat, DD (AHVS), Madikeri presided the programme & Dr. K.P Aiyappa DD(AH), Retd. Was the chief guest.



ICAR-KVK Kolar



Group discussion and method demonstration in mango

The king of fruits mango occupies an area of 53000 hectares in kolar district. In order to increase the productivity KVK, Kolar conducted a group discussion on essential practices to be followed in mango after harvest was organized in Thernahalli village on 1.07.2022 and a method demonstration on pruning and soil sampling was also conducted on 8.7.2022 as a part of FLD on Integrated crop management in mango in order to increase the light penetration and nutrient management respectively. Around 50 farmers have participated in the programmes and got benefitted by the programme.



Method demonstration on seed treatment in finger millet

Finger millet occupies major rainfed area among field crops in Kolar district during kharif season. Majority of farmers do not carry out seed treatment as they use their own seeds without seed replacement. In this context, KVK, Kolar has initiated frontline demonstration on finger millet with introduction of GPU 66 & KMR 316 varieties along with seed treatment with Phosphate Solubilising Bacteria (PSB) at Ternahalli, Srinivaspura on 1.7.2022, Bevahalli, Mulbagal taluk on 5.07.2022 and Girhahalli, Kolar taluk on 6.07.2022. The farmers were also educated with importance of seed treatment in these vilages. A total of 70 farmers got benefitted from the programme.



On campus capacity building programme for CEOs & BODs of Farmer producer organization

KVK, Kolar has organized an on-campus capacity building programme for Chief Executive Officers and Board of Directors of FPO (Farmers Producers Organizations) of Kolar district jointly in collaboration with Center of Excellence for FPO, UHS campus, Bangaluru on 7.7.2022. Around 45 FPO personnel including CEOs and Board of Directors have participated in the programme. Dr. Basavaraj, Deputy Director, COE, FPO has given in depth information on role of FPOs in improving the livelihoods of farmers. Detailed information was also given on roles and responsibilities of CEO and BODs of FPOs in strengthening of FPOs. During the inaugural speech K. Thulasiram, SS&H has emphasized on the role of FPOs in bringing the farmer in an organized way to fulfill the objectives of FPOs.



On-campus training programme on management of major pests of mulberry and silkworm through integrated approach

KVK Kolar organized an on-campus training programme in collaboration with Department of Sericulture, Kolar, Research and Extension Centre, Madivala on management of major pests of mulberry and silkworm through integrated approach on 11.07.2022. Around 50 farmers & 10 Extension functionaries participated & benefitted from the programme.



ICAR-KVK Kollam



Ensuring high return through value addition- a stepping stone in secondary agriculture from Sasthamkotta

Agriculture is the major occupation in Sasthamkotta block. The major crops in the block are banana (more than 700 ha) and tapioca (185 ha). The major problem faced by the farmers in the area was management of crop waste especially from banana. There are different technologies to utilise these crop waste which is traditionally considered as unusable for income generation activities. While the major problem for tapioca was low prices of tubers in glut season. Value addition is a sustainable process by which producer can realise a high prize for the primary produce. Keeping this in mind ICAR-Krishi Vigyan Kendra Kollam organised five capacity building program on value addition of banana and tapioca for the rural women in Sasthamkotta block at different locations with the support of ATMA Kollam. The trainees were farm women, mainly engaged in agriculture and allied activities. The programme was inaugurated by Smt. Geetha R, Grama Panchayath President Sasthamkotta.

KVK Kollam provided need-based interventions and technical knowhow through theory and practical sessions of value addition and product diversification of banana and tapioca. The major

topics covered were Post-harvest management, processing, storage, packaging, certifications, marketing and employment avenues. The technical sessions were handled by Smt. Shamsiya A.H., SMS Home Science, Krishi Vigyan Kendra Kollam.

After participating in the programme the trainees were formed two groups. First one (*Ruchikuttu*) focusing on Banana based value added products and the other one (*Thalir*) majoring in tapioca based products. The *Thalir* group was further trained by ICAR-CTCRI, Trivandrum in tapioca based products. The major products of *Ruchikuttu* are pseudo stem syrup, pseudo stem and blossom pickles and banana Jam. While major products of *Thalir* were tapioca flour, flavoured chips and other tapioca flour based snacks.

As a stepping stone in the secondary agriculture sector the groups participated in *Njattuvela Chanda* which is an initiative of ATMA and Grama Panchayath and were able to sale their products. The groups plan to strengthen their activities by bringing out a brand of their own. Krishi Vigyan Kendra Kollam will back stop and hands hold them in their initiatives.



ICAR-KVK Koppal

Demonstration of rice transplanter

Paddy is the main crop in Gangavathi taluk, Koppal district. Paddy farming is labour intensive and heavy-duty task. Paddy plantation is one of the most difficult agriculture practices. Paddy plantation requires a lot of effort and hard work. The planters have to suffer from severe health issues like backache problems, bone problems, etc. Hence, Paddy transplanters are the gift from technology, which have solved this problem. Viewing this benefit ICAR - KVK, Gangavathi in association with Surya agro solutions company demonstrated paddy transplanter in Sri Ravibabu farmer field of vadrahatti village. Dr.Ragvendra Yaligar Senior Scientist and Head explained in his speech mechanical transplanting using paddy transplanter reduces labour cost and saves the time It is effective & better transplanting ensures uniform maturity and healthy crop. It also requires less water requirement for field preparation than the manual transplanting and improves the productivity. Sri. Narappa Farm manager ICAR, KVK ,Gangavathi explained in detail about parts and working of transplanting paddy transplanter. Demonstration was done in one hectre of land. About 30 farmers were benefitted.



Method demonstration of redgram nipping machine

Nipping vertically-grown shoots at the top of red-gram and other crop would result in growing more number of branches. The horizontal spread of the plants would in turn result in more yields, at least 1-2 quintals per acre, by bearing more flowers and pods. But, nipping the crop grown on vast tracts of lands by hand is a tiresome job. It requires more labourers resulting in escalation in the cost of production. So to address this problem ICAR KVK Gangavathi conducted method demonstration on nipping redram using nipping machine on 9.07.2022 at kesaratii village. Dr.Ragvendra Yaligar Senior Scientist and Head explained in his speech about the nipping vertically-grown shoots at the top of red-gram and other crop would result in growing more number of branches. The horizontal spread of the plants would in turn result in more yields, at least 1-2 quintals per acre, by bearing more flowers and pods. Sri Narappa Farm manager ICAR,KVK ,Gangavathi explained in detail about parts and working of red gram nipping machine. Demonstration was done in one hectare of land. About 26 farmers were benefitted.





Training Programme ICM in Paddy

ICAR-KVK gangavathi organised training programme on integrated crop management in paddy on 12.07.2022 at halhalli village. Programme was inaugurated by Dr Ragvendra Yaligar Senior Scientist and Head by lighting the lamp and he explained in detail management of diseases and pest from nursery to harvest. Dr. Mahantesh Scientist (animal science) explained about organic cultivation practices of paddy. Sri Narappa Farm manager explained about the water fertilizer and management of paddy. About 30 farmers were present in the programme.

Training programme on efficient utilisation petroleum and natural gas in domestic and agriculture

ICAR-KVK gangavathi in association with Petroleum Conservation Research Association (PCRA) , Ministry of Petroleum & Natural Gas,

Government of India conducted training programme on efficient utilisation of petroleum and natural gas in domestic and agriculture on 15.07.2022 in Marali RSK. Dr.Ragvendra Yaligar Senior Scientist and Head by lighting the lamp and he explained about proper utilisation petroleum and natural gas in agriculture. Dr. Kavitha.Y.Ullikashi Scientist (Home Science), explained about the utilisation and conservation of LPG while cooking and other household activities. She also explained about different fuel saving and smoke less chulla. Dr. Mahantesh Scientist (Animal Science) explained in details about the impact of over utilisation of petroleum and natural gas on environment. Sri Narappa Farm manager explained about utilisation and conservation of petroleum in tractor and pumpsets.



**ICAR-KVK
Kottayam**



National Fish Farmers Day Celebration at KVK, Kottayam July 10 – 12, 2022

In commemoration of inspiring works of Prof. Hiralal Choudhary and Dr. Alikunhi in induced breeding and seed production of Indian Major Carps for the first time in India in 1957, July 10th is celebrated as the National Fish Farmers Day. Presently more than 50 percent of the fish production in India is the contribution of aquaculture sector. In the coming years the production from aquaculture sector will increase and major contribution of fish production will come from aquaculture sector.

Krishi Vigyan Kendra, Kottayam organized a three day event on the occasion of National Fish Farmers day with exhibition, seminar and demonstration and sale of fish and value added fish products. The event was inaugurated by Sri. P. I. Abraham, the Welfare Standing Committee member of Kumarakom Grama Panchayath. A seminar on “Entrepreneurship opportunities in aquaculture sector” was organized for the farmers and students from nearby colleges. About 500 farmers including students attended the programme. An exhibition of more than 50 varieties of commercially important varieties of ornamental fish and indigenous fishes were arranged in association with All Kerala Aquarium and Pet shop Association.

The exhibition paved way to introduce the latest trends in ornamental fish culture to the farmer community. In recognition of the efforts in seed production of Pearl spot, the state fish of Kerala, progressive farmer, Sri. Vineesh, Puthentharayil House, Vaikom was awarded the best fish farmer of Kottayam district. The award was distributed by District Panchayath member, Smt. Bindhu K. V. in the presence of Block panchayath member, Smt. Kavitha Lalu and Vice President, Sri. V. K. Joshi.

The event also gave an opportunity for various self help groups, farmer interest groups to sell their value added agri and fish products like Jack fruit coffee powder, jackfruit cutlet, Banana flower cutlet, Nutmeg rind tea, Nutmeg flavoured cakes, tender coconut shakes, fruit sip ups, fish pickles, fish cutlets and fish manure. The National fish farmers day celebration helped in publicizing the significant KAU technologies demonstrated by KVK.

The event was nurtured by the wholehearted cooperation of public and media coverage during these three days.



ICAR-KVK Malappuram



Betel vine farmers workshop

FPO members belonging to Tirur Betelvine growers (GI crop) were assembled at KVK for a one day workshop on 2nd July 2022 for discussing the cultivation and marketing problems, cost analysis and preparation of the annual calendar of activities. The programme supported by



ATMA was inaugurated by block panchayath president Sri. C. Ramakrishnan and Sri Abdul Jabbar P. K. SMS Agri. Extension moderated the event. A thorough discussion was done by dividing the farmers into different groups, mainly focussing on agronomy practices, cost components, marketing strategy needed and preparation of an annual calendar of activities. Dr Najitha Ummer, SMS plant protection took a class on organic protocol for the disease management in Betel vine.

ATMA SCP SC Training on jack fruit processing

Training on “Jack fruit processing and value addition” was conducted for SC farmers of Malappuram block. The training was organized at Cherattukuzy, Malappuram in collaboration with the help of ATMA and Department of agriculture, Malappuram. Sri. Jaisal Babu, ADA, Malappuram inaugurated the programme and Dr. Lilia Baby, Assistant Professor Home science, KVK Malappuram handled the training session. Forty six SC farmers attended the theory classes and hands-on training programme.



Sunday farming programme to attract millennials to farming

In order to attract youth and students to family farming, the KVK conducted series of Sunday farming programs in association with educational institutions and ATMA. The programme was organized as a part of the state wide campaign “Njangalum Krishiyilekk” by the Govt of Kerala. A strategy focusing on less food miles, wealth from waste, inculcating traditional wisdom, providing intellectual stimuli and relief from farming was stressed for ensuring nutritional security of homesteads. Sri. Abdul Jabbar P. K. explained the design of Sunday farming programs and various components of family farming Dr. Prasanth and Smt. Sandhya exposed the participants to various vegetable cultivation practices.



Training on value addition of mushroom

The KVK organized one day capacity development programme on “Processing and value addition of Mushroom” as a part of SCP SC training in collaboration with ATMA, Department of Agriculture, for participants mobilized by Chelannor Krishi Bhavan in Kozhikode district. The programme included theory classes on nutritional aspect, medicinal importance and scope of processing & value addition of mushroom together with

hands-on training sessions on preparation of value added mushroom products. Dr. Lilia Baby, Assistant Professor Home science, KVK Malappuram coordinated the programme. Eleven mushroom growers of Kakkur block participated in the training programme.



ICAR-KVK Mandya



Field day on Integrated crop management in cowpea

A field day on “Integrated crop management in cowpea” was organized by ICAR- Krishi Vigyan Kendra, V. C. Farm, Mandya at Beechanahalli village of Mandya Taluk on 08.07.2022. Dr. Raghupathi , D., Associate Director of Extension, University of Agricultural Sciences, Bangalore inaugurated the programme and enlightened the farmers about the varieties of cowpea released from the University. Dr. Roopashree, D.H., Scientist (Agronomy) shared the improved cultivation practices for pulses to the farmers. Dr.Pavithra, S., Scientist (Plant Protection) explained about the use improved cow pea variety KBC-9 for gaining higher yield and integrated approach followed for management of nutrients, pest and diseases during the duration of demonstration which also help farmers in improving soil health and can get additional income. Dr. N.T Naresh, Senior scientist and head urged to farmers to adopt crop rotation system to attain sustainability. Total 34 farmers witnessed and gained knowledge during the programme.



ICAR-KVK Mysuru



Guest lecturer and Method demo on Seed treatment, Seed germination test and Safe seed storage to DAESI students of Nagenahalli, Mysuru

Smt. H.V.Divya, Senior Scientist and Head (I/C), ICAR JSS KVK, Suttur explained about the KVK activities, facilities available at KVK and supports available for the DAESI students of Nagenahalli Mysuru. In her guest lecture, she stressed the Agrilclinic work, especially farmer counseling and prescription based suggestion based on IPDM practices.

She explained about the Importance of seed treatment, germination tests and safe



storage techniques to the trainees. In practical class, Method demo on seed treatment with carbendizim was done. Germination test of Paddy was done by three methods i.e., between paper, top of the paper and sand method was done. 20 DAESI trainees took the benefit of the training.

Training on INM, IPDM and Method demo on seed treatment in new Paddy variety KMP 220

ICAR JSS Krishi Vigyan Kendra, Suttur, conducted 1 days training programme on 15th July 2022 under Azadi ka Amrith Mahotsav on “INM, IPDM and Method demo on paddy seed treatment in new paddy variety KMP 220” at Danayakanapura, T Narasipura taluk.



In this programme Smt. H.V.Divya, Senior Scientist and Head (I/C), ICAR JSS KVK, Suttur explained about the importance of seed treatment, INM and IPM practices such as use of biofertilizers, FYM, micronutrients, balanced use of fertilizers, alternate new varieties for higher yield. She also informed the farmers about the newly released red rice variety KMP 220, which is good in both grain and fodder yield. Which is having the same market value as that of Paddy variety Jyothi. Method demo on seed treatment with carbendizim 2g/Kg seed was done with the farmers.

Sri. Shamaraj, Scientist (Agronomy) ICAR JSS KVK, Suttur explained about the drum seeder, machine transplanting, weed management, Nutrient management etc., 34 farmers participated and took the advantage of the training. Progressive farmer Chinbuddi, Mahadevappa, Basavanna were present in the training.

ICAR-KVK Palakkad



Custom hiring centre - Demonstration of paddy drum seeder at KVK Palakkad

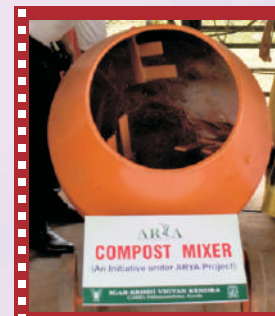
A custom hiring centre for farm machinery was established at KVK Palakkad with the financial assistance of the State planning board. Mini tiller, seed cum fertilizer drill, paddy drum seeder, rocker sprayer, brush cutter, pole pruner, etc. are the machines purchased under the project. Self-help group formed under the institution is being given the training to operate the machines. As a part of this, KVK Palakkad has demonstrated the working of a paddy drum seeder in the field. Members of the self-help group were given instructions about the working of the machine and they operated it successfully. Documentation of the field operation was also done. Each operation that will be carried out in the demonstration plot will be documented and published.



Palakkad Farmers get online tips on scientific farming

KVK Palakkad has organized online training programme through facebook live to boost the farmer's confidence in the present situation considering the havoc caused by constant raining in Palakkad district. Farmers are now being educated on innovations in agricultural technologies through digital agriculture mode, strengthening the interface among the farmers, extension functionaries and scientists. Marigold cultivation and vegetable farming techniques for onam festival, monsoon crop management, ginger transplant and its cultivation as well as pruning in mango are the need based trainings posted in KVK FB. Moreover, crop calendars prepared for june and july, schedule of fertilizer applications for perennial crops, disease management during rainy season, Agro-met advisory bulletins for different crops were prepared. These have evoked good response with more than 3070 subscribers participating so far.

ICAR-KVK Pathanamthitta



Sushri. Shobha Karandlaje, Hon. Union Minister of State for Agricultural Development and Farmers' Welfare, visits KVK, Pathanamthitta.

Union Minister of State for Agricultural Development and Farmers' Welfare, Sushri Shobha Karandlaje visited ICAR-KVK, Pathanamthitta on 7th July 2022. During her visit to KVK, she inaugurated the Workshop on "Climate Smart Agriculture", which was participated by more than 100 farmers and district officials from various line departments. In her inaugural address she stated that opportunities for earning additional income should be exploited through timely export of agricultural products by making best use of the various schemes being

formulated and implemented by the Central Government. Food processing activities should be expanded through sustainable marketing strategies and by utilizing innovative opportunities in value addition. The minister also said that the export possibilities of widely grown fruits like jackfruit and rambutan, should be explored. On the occasion, “Sanjeevini Kit”, a kit comprising of 7 organic inputs for household vegetable cultivation and a booklet on “Plant propagation Techniques” were also released. The Minister visited the State Resource Center for Jackfruit, marketing outlets, laboratories and demonstration units of KVK. As part of the programme Exhibitions on products of Entrepreneurs under the project “Attracting and Retaining Youth in Agriculture (ARYA) and activities of KVK’s project for empowerment of Special children were also displayed. Rev. Moncee Varghese, Director, CARD, Dr. Jayashree Krishnankutty, Director of Extension, Kerala Agricultural University and Dr. C.P. Robert, Senior Scientist and Head, KVK, Pathanamthitta also spoke on the occasion.

The workshop on Climate Smart Agriculture was moderated by Dr. G. Jayalekshmi, Senior Scientist and Head, KVK, Kottayam and the panellist were Dr. Bini Sam, Senior Scientist and Head, KVK, Kollam, Dr. Binu John Sam, Senior Scientist and Head, KVK, Thiruvananthapuram , Smt. Majnu Thomas, Subject Matter Specialist (Horticulture), KVK, Thiruvananthapuram and Dr. Rincy K Abraham, Subject Matter Specialist (Horticulture), KVK, Pathanamthitta.



Dr. Jayashree Krishnankutty, Director of Extension, Kerala Agricultural University inaugurates Waste shredder and Compost mixer at KVK farm

KVK, Pathanamthitta sets up Demonstration units of Waste shredder and Compost mixer under the project “Attracting and Retaining Youth in Agriculture (ARYA), funded by ICAR, Govt. of India. In order to convert poultry and other farm wastes into compost, a replicable model of waste shredder with a capacity to shred 125 kg dry wastes per hour is being demonstrated at KVK farm. To make media for planting material production, a mixer for mixing the compost and other materials, a compost mixer is also demonstrated. These units at KVK farm were inaugurated by Dr. Jayashree Krishnankutty, Director of Extension, Kerala Agricultural University in the presence of Rev. Moncee Varghese, Director, CARD, Dr. C.P Robert, Senior Scientist and Head, KVK, Pathanamthitta, Rev. Vinod Easow, Director, MCRD, Mr. Reji Varghese, DDM, NABARD and Mr. P. Unnikrishnan, Director, FPO.



ICAR-KVK Raichur



Integrated Crop Management in Sunflower



Sunflower, an important oilseed crop of Raichur district is being vanishing due to several reasons. In this context, ICAR-Krishi Vigyan Kendra, Raichur organised under NMOOP scheme on campus training programme, recently, in association with AICRP on Sunflower, Main Agricultural Research Station, Raichur to impart integrated crop management technologies in sunflower. About 50 farmers from Raichur and Devadurga taluka were participated.

Dr. S.N. Bhat, Scientist (Soil Science) KVK, Raichur welcomed farmers and scientists informing present oilseed crop scenario in Karnataka. Dr. Bhat delivered the talk highlighting role of soil health in augmenting sunflower productivity and called upon the farmers to apply the nutrients based on soil condition. Having said that to apply the nutrients based on soil condition. After that,

Dr. Bhat also mentioned various approaches to reduce dependency on chemical fertilizers. After that, Dr. M.R. Umesh, Assistant Professor (Agronomy) emphasised on improved agronomic practices to enhance the yield level of sunflower crop. Dr. Vijaykumar Ghante, Associate Professor (Entomology) Main Agricultural Research Station, Raichur suggested the farmers to adopt non chemical methods to control the pest damage in sunflower crop and then Dr Poornima, Assistant Professor (Plant pathology) explained role of seed treatment in reducing disease incidence in sunflower crop. Finally sunflower scheme head, Dr. Vikas kulkarni, made presidential remarks highlighting characteristics of UAS, Raichur released hybrids viz, RSFH-1887 and RSFH-700 and requested the farmers to use these seeds to increase sunflower productivity.



ICAR-KVK Ramanagara



On-campus training programme on “importance of green manuring in rainfed agriculture and improved cultivation practices in oilseed crops”

KVK Ramanagara has conducted an On-campus training programme on “Importance of green manuring in rainfed agriculture and improved cultivation practices in oilseed crops” for the benefit of selected FLD farmers and other oilseed growers in the District. Dr. Dinesha M.S., Scientist(Agronomy) emphasized on importance of cultivating Sunhemp, Dhaincha, Cowpea and Horsegram for green manuring purpose by utilizing premonsoon rains received during April-May which can be incorporated at the age of 50-55 days at 50% flowering. This helps in adding a minimum of 5-6 tonnes of green biomass per acre into the soil, before taking up finger millet as main crop during July-August months in Ramanagara district. Further, he also delivered lecture on improved cultivation practices of oil seed crops viz., Groundnut, Sesamum and Castor. Miss Shanta Balgonda, SMS(Agro meteorology) DAMU project gave information on climate change and its impact on crop production and utilization of agro advisories for successful crop protection practices.



ICAR-KVK Shivamogga



Vermicompost production

ICAR- Krishi Vigyan Kendra, Shivamogga has organized one day capacity development programme on Vermicompost production on 6th July 2022. 32 numbers of rural youth and farm women were attended in the training programme. During the programme the Mr. Basavaraja, M., Scientist (Agronomy) addressed about the scope and importance of vermicompost production and also delivered lecture on concept of vermicompost production, status of organic farming throughout the India, role of different biofertilizers, green manuring crops and agriculture residue waste management. In the practical session on identification of different types of organic manures, types of different earth worm species used in vermicomposting, high cost and low cost vermicompost pit preparation, method of vermicompost preparation using different agriculture waste materials and nutrient composition which help for plant growth. Preparation of organic pesticides and its use for pest and disease management through vermicompost, kitchen garden



management practices using vermicompost, Organic paddy cultivation techniques using vermicompost and other compost, Integrated nutrient management practices of different field crops, Benefit–Cost ratio of organic and inorganic farming.

Field visit was conducted at KVK-Shivamogga vermicompost demo plot, the participants of the training learned about the Vermicompost production techniques.



ICAR-KVK Thrissur



'Njattuvela Chantha'



Krishi Vigyan Kendra Thrissur participated in the 'Njattuvela Chantha' organised by Vallachira Krishi Bhavan from 5th to 7th July 2022. The word 'njattuvela' in Malayalam indicates the auspicious occasion when 'njaru' ie., or saplings are planted. Krishi Vigyan Kendra, Thrissur held an exhibition, agro clinics, and training classes for farmers who participated in the Njattuvela fair. The exhibition promoted good agricultural practices. Biopesticides, manures, mushroom spawn, planting materials, and vegetable seeds were sold

through our stall. The agro clinics helped farmers to clear their anxieties in crop production, crop protection, agricultural engineering and allied activities in agriculture. Farmers were also given a training on "Value addition of fruits and vegetables."



ICAR-KVK Trivandrum



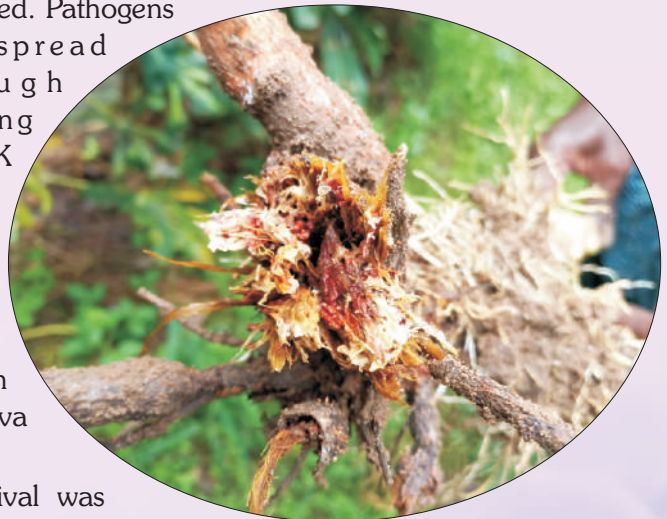
Farmers testify the timely intervention for control of Root Rot in Cassava



During the last couple of two years, farmers have been reporting symptoms like yellowing & drying of leaves, rotting of tubers and collar region of the stem in cassava. Farmers reported that 30-40% of this disease incidence occurs where cassava is grown in wetland fields of Thiruvananthapuram district. Frequent rainfall increases inocula of the organism in soil which causes root rot. Based on field studies and research findings by ICAR-CTCRI, it is observed to be caused by an association of two or more pathogens, however it is yet to be confirmed. Pathogens

may spread through planting

material, soil, water and other farm tools. ICAR-KVK Mitraniketan, conducted frontline demonstrations for the management of cassava root rot in lowland regions with adhoc recommendations provided by ICAR-CTCRI. On completion of the program, KVK organized field day celebration as part of the drive to horizontally spread the technology developed by the Central Tuber Crop Research Institute to manage this emerging problem among cassava farmers.



The harvest festival was organized in the field of Shri. Mohanan Nair at Vellanad. He testified that in the demonstrated field, cassava rarely shown root rot disease unlike in conventional cassava cultivation. Dr. Binu John Sam, Senior Scientist & Head inaugurated the harvest festival and explained various interventions by KVK for farmers. Smt. Bindhu R Mathews, Subject Matter Specialist, Plant Protection briefed the technology to the farmers. Shri. Aneesh T.P, Assistant Agricultural Officer, Vellanad, participated in the program and ensured the extension of technology through Krishi Bhavan and ATMA.

Another major problem faced by farmers is in harvesting of cassava tubers without breakage. Smt. Chitra G, (Subject Matter Specialist Agricultural Engineering) addressed this problem by conducting demonstration of semi manual cassava harvester during the field day. The equipment would be made available on custom hiring basis from KVK to the farmers at nominal rates.

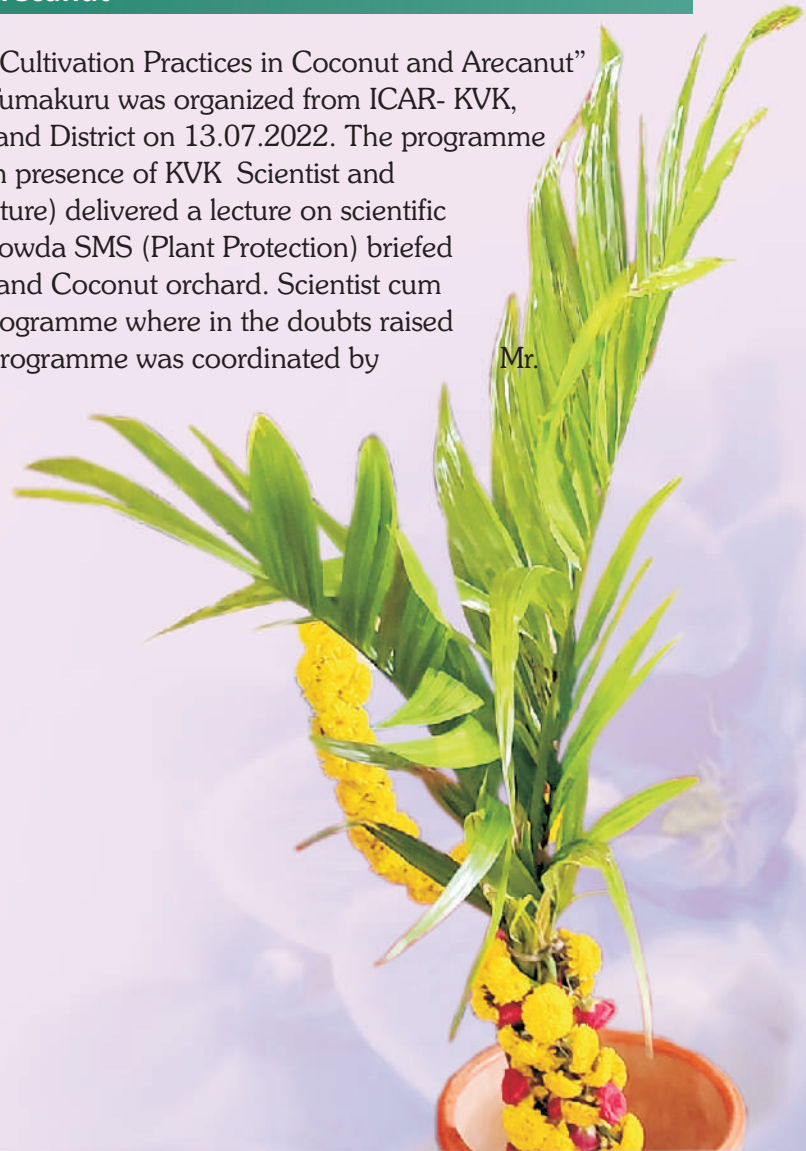


ICAR-KVK Tumakuru-II

Capacity Building Programme for the Farmers on Scientific Cultivation in Coconut and Arecanut

A capacity building programme on “Scientific Cultivation Practices in Coconut and Arecanut” for farmers in collaboration with Organic Federation Tumakuru was organized from ICAR- KVK, Hirehalli, at K. Palasandra Village of Tumakuru Taluk and District on 13.07.2022. The programme was inaugurated by President of Organic Federation in presence of KVK Scientist and dignitaries on dias. Mr. Prasanth JM SMS (Horticulture) delivered a lecture on scientific cultivation of Coconut and Arecanut. Dr.Hanumantegowda SMS (Plant Protection) briefed about the Pest and Disease Management in Arecanut and Coconut orchard. Scientist cum farmer interaction was arranged during the training programme where in the doubts raised by the farmer participants were given solutions. The Programme was coordinated by Prasanth JM and Mr. KN Jagadish.

Mr.



ICAR-KVK Udupi



National Fish Farmers Day Celebration

Keladi Shivappa Nayaka University of Agriculture and Horticulture Sciences, Shivamoga, Indian Council of Agricultural Research, NewDelhi, ICAR-KrishiVigyan Kendra, Brahmavar, Udupi District and Department of Fisheries, Udupi under the joint auspices of “National Fish Farmers Day” on 10.07.2022, was organized in Mr. Mahesh Hebbar’s fish farm Kukkehalli village.

The program was inaugurated by the Joint Director of Udupi District Fisheries Department Mr. Ganesh K. by lighting of lamp. On this occasion, the joint director congratulated Mr Mahesh Hebbar, who has done model Recirculatory Aquaculture System (RAS) unit and has set an example. He addressed the farmers about the major role of Marine fisheries production and explained Inland fish farming and also detailed them about the availability inland resources, which, if utilized in a proper manner would yield them all a good profit.

Mr. H. Kempegowda, Joint Director, Agriculture Department, Udupi District, was the chief guest of the program. He actively participated and motivated the public to take more interest in farming and hence increase the number of farmers in the society. He also appreciated the RAS unit and fish farming made by Mr Mahesh Hebbar. He gave the example of Padma Shri awardee farmer Shri. Ame Mahalinga Nayaka explained his experience to the

gathered farmers and expressed his hope that the Krishi honda would be put to good use. He called upon the farmers to make use of the opportunity for value addition in the PMFormalisation of Micro food processing Enterprises (PMFME) and One District One Product (ODOP) schemes.

Mr. Mahesh Hebbar, a progressive farmer and the district best farmer awardee, explained to the participating farmers about his experience in the field of fish farming and how he has been till now in fish farming. He mentioned about a training program of Krishi Vigyan Kendra which inspires him to take up the fish farming and thus, started making good use of water logged waste at his farm. After this, he started fish and fish seed production and supplied fish fry and fingerlings to the farmers of our district and neighboring districts and freely shared the experience of fish farming amongst all. He also shared his experience by telling the details of fish farming in RAS system. He explained about the special feature of this unit that for the first time the RAS unit is running on solar energy and the entire control of the unit is automatic and doesn't require a generator. The unit runs at minimum operation and maintenance cost. It is also self-sufficient in electricity, which helps in saving lot of electricity. Apart from this, there is also protection from thunder and lightning. There is a system to use this unit for both RAS and Biofloc



systems. This power self-sufficiency technology is pioneered and developed by Mr. Prajwal K. Rao, Managing Director of Volatron Technologies. He thanked the Krishi Vigyan Kendra, Brahmavara for providing technical support in the construction and installation of this unit and expressed his gratitude to the Fisheries Department of Udupi for financial assistance in the Pradhan Mantri Matsya Sampada Yojana.

Deputy Director of Fisheries Department Mr. GM Shivakumar gave information on various

schemes of the Fisheries Department and also given lecture on fish farming in Grama Panchayath Tanks. He suggested the farmers to come forward for inland fish farming. He assured of continuous support and cooperation on behalf of the Department.

The program was presided over by Dr. B. Dhananjaya, Senior Scientists and Head of KVK, Brahmavar spoke about Mr. Mahesh Hebbar, and appreciating the hard work he had put in and told that the other farmers should become inspirational examples and become model farmers.

Inauguration of RAS unit

The President, Gram Panchayat Kukkehalli Mr. Purandara Kotyan inaugurated the newly established RAS unit with the financial support under PMMSY scheme of Fisheries Department and technical assistance of KVK, Brahmavara. Later, the power control panel of RAS unit and the power self-sufficiency unit were started by Mr. Ganesh K., Joint Director Department of Fisheries Udupi District.

Mr. Shrinivas H Hulakoti, Scientist (Fishery Science), KVK, Brahmavar welcomed everyone with introductory remarks for the program and Mr. Chandan, Assistant Director, Fisheries Department, Karkala delivered the vote of thanks.

Celebration of Vanamahostava

Keladi Shivappa Nayaka University of Agricultural and Horticultural Sciences, Shivamogga, Indian Council of Agricultural Research, New Delhi, ICAR-Krishi Vigyan Kendra Brahmavar association with Nirmala English Medium School, Brahmavar and K.S.D.F Brahmavar, Udupi celebrated Vanamahostava programme at Nirmala School, Brahmavar on 13.07.2022.

Dr. Dhananjaya B, Senior Scientist & Head, KVK Brahmavar inaugurated the programme &

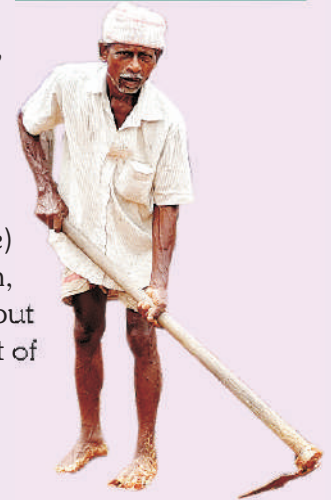
explained about importance of Plant and their role in ecological conservation and also encouraged the students to plant tree at their surroundings. Dr. Sachin U S, Scientist (Plant Protection), KVK Brahmavar. Shri. Harish Kumar, DRFO, Brahmavar, President, Staffs and Students were participated in the programme. Programme was ended with planting of different species of forest plants at school surroundings.



Demonstration on management of Fruitfly in Ridge gourd

Keladi Shivappa Nayaka University of Agricultural and Horticultural Sciences, Shivamogga, Indian Council of Agricultural Research, Newdelhi, ICAR-Krishi Vigyan Kendra, brahmavar implemented FLD on Demonstration on Management of Fruitflies in Ridge gourd at Pejamanguru village, Brahmavar Tq on 15.07.2022.

Dr. Dhananjaya B Senior Scientist and Head, KVK Brahmavar briefed about the programme and welcomed the gathering. Dr. Chaitanya H S, Scientist (Horticulture) explained about crop management viz, land preparation, sowing, Nutrient application, Training etc in Ridge gourd. Dr. Sachin U S, Scientist (Plant Protection) explained about pest & diseases of Ridge gourd and its management special reference to management of Fruit flies in Ridge gourd. Shri Nagaraj Ulithaya, Progressive farmer & President of Raitha Sangha, Kokkarne also present in the programme. Total 27 farmers were participated in the programme.



**ICAR-KVK
Vijayapura-I**



Visit to Hi-tech raisin entrepreneurship developed by Horti. Graduate



Dr. D.V.Kolekar, Scientist (Agriculture Extension) and Nodal officer, ATARI Bengaluru and Dr.Shubha.S., Senior Scientist & Head and Mr. B C Kolhar Sr Technical officer KVK Vijayapura visited Hi-tech raisin entrepreneurship developed by Shri. Basavaraj Paragondappa Siddapur from Mulwad village of Basavan Bagewadi taluk in Vijayapura district. During visit farmer explained crisis of unemployment to rural youth in the current year and challenges ahead. Farmers who converted barren land into productive is really a challenging task and model for the who facing unemployment. For



suitability of farming he adopted grape based integrated farming system. Farmer has 12 acres of cultivated land planted with different season based fruit crops like grape, lime, banana, orange, mango, custard apple and tamarind. The land is irrigated with efficient use of farm pond water. He maintained cost of cultivation and income of field records. To benefitting neighboring and his own village grape growers he started with advanced raisin entrepreneurship by borrowing loan from DCC bank Vijaypur and succeeded. He is also serving farming community as a crop adviser being graduate of horticulture. On an average of Rs. 16,13,000 is the annual income of the farmer. Farmers, officials and

students from different area have been visiting frequently his model farm as exposure trip and appreciated. He is role model to rural youth who seeking employment and facing unemployment.

ICAR-KVK Vijayapura-II

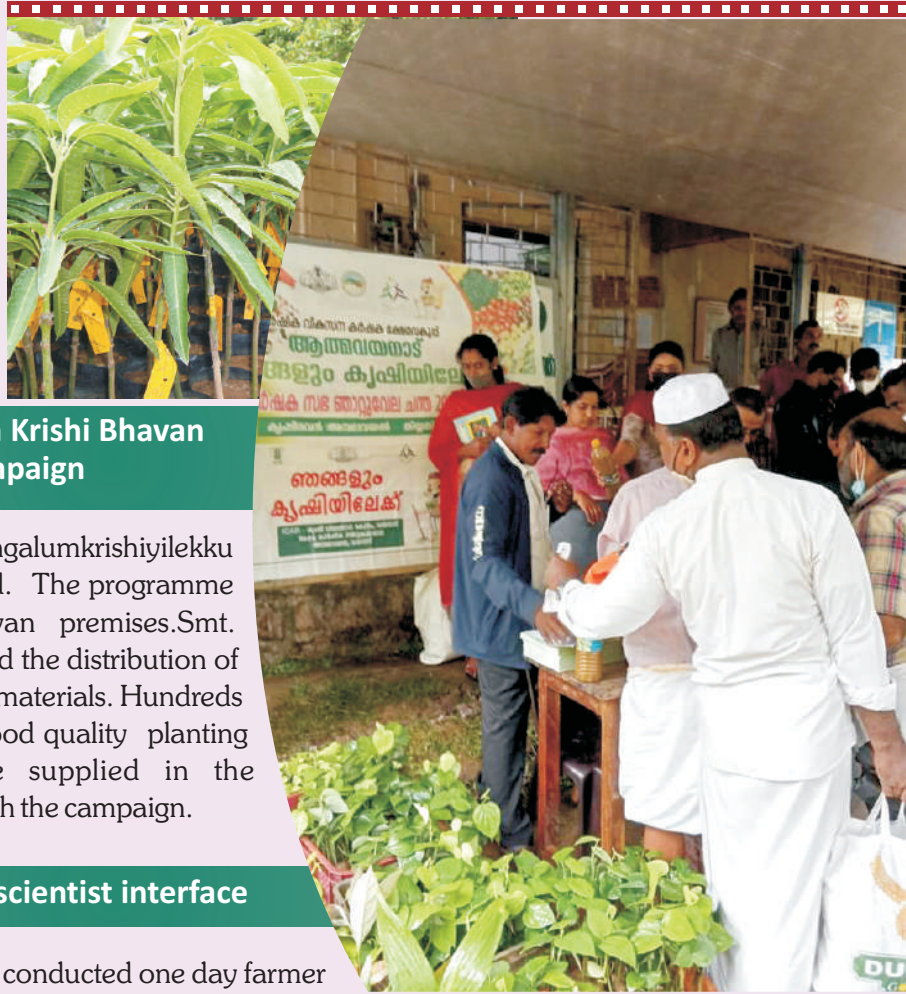


Visit to Progressive farmers fields

Visited the progressive farmers field of Sri. Ashok Devara of Chikkabevanoor village by Scientist (Horticulture) and senior scientist and Head, KVK, Vijayapura-II (Indi) and field demonstration was given on grafting procedure in guava layering for production of seedlings. Sprays were suggested for control of disease in lime orchard. Information on use of Citrus special for better yield in lime and also pruning was suggested in drumstick for better yield. Suitability of soil was observed for planting of chilli. FLD on Brinjal was implemented in the farmers field and use of bio fertilizer was for better soil health was also suggested. The Young and enthusiastic farmers is following organic farming practices to the extent possible.



ICAR-KVK Wayanad



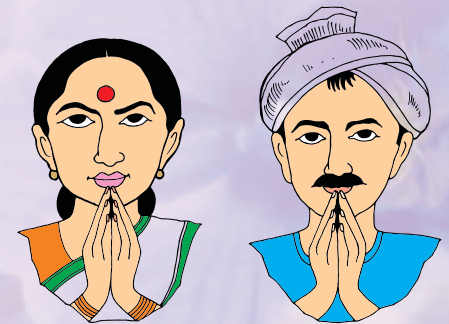
ICAR-KVK Wayanad—joined hands with Krishi Bhavan in Njungalumkrishiyilekku campaign

KVK Wayanad, participated in Njungalumkrishiyilekku campaign in association with ATMA Wayanad. The programme was conducted at AmbalavayalKrishibhavan premises. Smt. Hafsath C.K, Panchayath President inaugurated the distribution of inputs, vegetable seedlings and other planting materials. Hundreds of farmers participated in the programme. Good quality planting materials and bio control agents were supplied in the njattuvelachantha conducted in connection with the campaign.

ICAR-KVK Wayanad organised farmer scientist interface



KVK Wayanad conducted one day farmer scientist interface regarding “Pest and disease management of rice” at Samskarika Nilayam , Palliyara near Kaniyampetta. Rice farmers of palliyarapadasekharasamithi actively participated in the one day awareness programme. The importance of soil testing, liming and Integrated pest and disease management practices were discussed and dealt in the class by the scientist of KVK Wayanad. Awareness on nutrient application of Sampurna were also given to the farmers.



Thank you



Hon'ble Union Minister of State for Agriculture and Farmers Welfare
SuShri. Shobha Karandlaje inagurating ICAR-KVK, Kolar Administrative Building



Dignitaries releasing publications, folders and products on the occasion



Antharagange



Bangaru Tirupathi



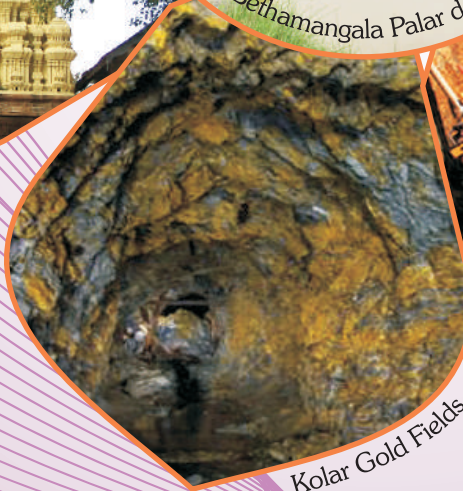
Kotilingeshwara



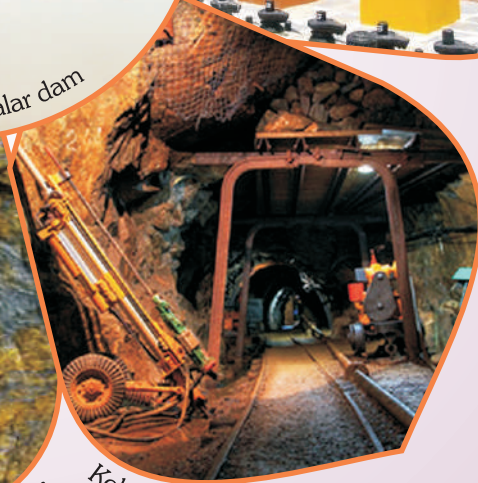
Someshwara temple



Bethamangala Palar dam



Kolar Gold Fields



Kolar Gold Fields