

KVK TIMES

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

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ICAR-Krishi Vigyan Kendra, Koppal

ARS Campus, Kanakagiri Road, Gangavathi-583227.



University of Agricultural Sciences, Raichur

Lingasuguru Road, Raichur-584101.



ICAR-Agricultural Technology Application Research Institute, Bengaluru

Zone XI-Bengaluru, Karnataka-560024

e-mail: atari.bengaluru@icar.gov.in





Dr. K.N.Kattimani

Vice Chancellor
University of Agricultural
Sciences, Raichur.

Message

Krishi Vigyan Kendra is pioneering institute catering the needs of farming community in country and at present, 732 at all India level and 48 KVKs under Zone XI are functioning at grassroots level. Being knowledge resource centre at District level, KVK helps to assess, refine and demonstrate the latest and improved location specific technologies in the farmers' field by providing necessary critical inputs. Seven KVKs under UAS, Raichur are putting efforts in developing capacities among farmers, farmwomen and rural youth by providing the required trainings / skills which enhanced their economic status.

I share with immense pleasure that two of our KVK's progressive contact farmers Dr. Mohammed Idris Ahmed Khadri from Bidar District and Shri Kallappa Katralli from Vijayanagar District who have been under technical and scientific guidance from the respective KVKs honoured with national level award 'Plant Genome Saviour Farmer Reward' by the Govt. of India PPVFRA, New Delhi on 11-11-2021.

The efforts of Directorate of Extension, UAS, Raichur and ATARI, Bengaluru is constantly guiding them to attain the achievement are highly appreciable and noteworthy. I wish all the KVKs in Zone XI to excel in their field of work and provide a noble service towards the farming community.

I appreciate the efforts put by Sr. Scientist and Head, KVK, Gangavati and his team in compiling, editing and bringing out the 'KVK TIMES' and wish them for their future endeavour.



Kattimani
Dr. K.N.Kattimani
Vice Chancellor

Foreword

Krishi Vigyan Kendra's play a pivotal role in enhancing income and livelihood security of farming community through frontline extension system which involves crop diversification, increased production and productivity, minimizing the post-harvest losses, value addition and processing and in a nutshell, to develop a farmer as an entrepreneur.

University of Agricultural Sciences, Raichur backstopping the technologies to its seven KVKs spread over in entire Kalyana Karnataka region who in turn putting their marvelous effort in demonstrating various improved technologies in agriculture and allied fields and helped farmers to attain economic gain.


'KVK TIMES' is innovative and novel approach developed by ATARI, Bengaluru containing various activities carried out by KVKs in Zone XI is a praiseworthiness and it helps to keep the record of each KVK over time and help KVKs to re-assess their strength and weakness.

My best wishes are with KVK, Koppal for editing and compiling this issue of 'KVK TIMES' for the period 1-15th August, 2022.



Dr. V. Venkatasubramanian

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


Dr. V. Venkatasubramanian
Director



Message



Dr. B.K. Desai

Director of Extension
University of Agricultural
Sciences, Raichur.

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Dr. B.K. Desai

Director of Extension



Acknowledgement

I am extremely proud and privileged to be entrusted with responsibility to compile and edit the KVK times from 1-15 August 2022 during Azadi ka Amrut Mahotsav of India. I express my sincere gratitude to Dr. V. Venkatasubramanian, Director and Dr. K. Thimmappa, nodal scientist and staff of ICAR-ATARI, Zone-XI, Bengaluru for providing us a great opportunity to bring 27th issue of KVK TIMES on Zone-XI.

It is my great privilege to profusely thank our Honourable Vice-Chancellor, Dr.K. N. Kattimani, University of Agricultural Sciences, Raichur (UASR) in carrying out our KVK activities and his constant incitement to serve the farming community to the best of our abilities.


I am obliged to our beloved Director of Extension, Dr.B. K. Desai, University of Agricultural Sciences, Raichur for his incessant support for our KVK.

I wish to thank all my fellow colleagues of KVK family of Zone-XI in sharing the valuable tasks in time which they carried out in past fortnight for the benefit of the farming community. My heartfelt thanks to my entire team of ICAR- Krishi Vigyan Kendra, Koppal for their continual support and valuable suggestions in bringing out this issue effectively.



Dr. Raghavendra Yaligar
Senior Scientist and Head
ICAR- Krishi Vigyan Kendra,
Koppal




Dr. Raghavendra Yaligar
Senior Scientist and Head

KVK TIMES

A Window to KVK's of
ICAR-ATARI Zone -XI, Bengaluru

PATRON

Dr. V. Venkatasubramanian

Director, ICAR-ATARI Zone XI, Bengaluru

COMPILATION AND EDITING

Dr. Raghavendra Yaligar

Sr. Scientist & Head, ICAR-KVK, Koppal

Dr. Kavitha Ullikashi

Scientist (Home Science)

Dr. Jyothi R., Scientist (Horticulture)

Dr. Mahanthesh M.T.

Scientist (Animal Science)

Mr. Narappa G.

Senior Technical officer (Farm Manager)

Smt. Farzana M. Korabu

Senior Technical officer (Soil Science)

Mr. Ravi S., Stenographer

Dr. Fakeerappa Arabhanvi

SMS, Agromet

Smt. Mamatha Madli

Meteorological observer

Dr. D.V. Kolekar

Scientist, ICAR-ATARI, Bengaluru

TECHNICAL GUIDANCE

Dr. B. K. Desai

Director of Extension, UAS, Raichur

SPECIAL THANKS

Dr. K. Thimmappa

Principal Scientist & Nodal officer,
ICAR-ATARI, Bengaluru

PUBLISHED BY

Senior Scientist & Head

ICAR-KVK, Koppal

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GRAPHIC AND DESIGN

Mr. M.K.Ullas, HD Print-9845063507

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Celebration of 75th Independence day at Gangavathi campus

Scientific Bee Keeping

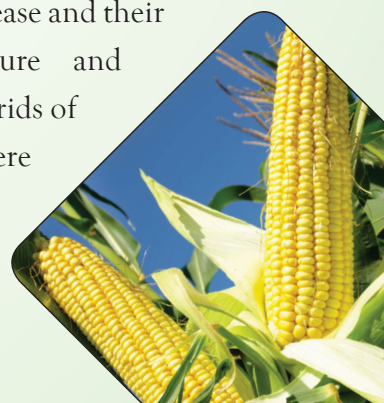
India is producing self-sufficient food grains which is attained by the 80% of bee pollination. To sustain this self sufficiency a capacity building programme among the farmers is very much important. Apart from increased production and productivity among agriculture and horticulture crops, honey bee rearing benefits the honey bee farmers with additional income with the sale of honey, honey bee colony, bee wax, and royal jelly. It acts as subsidiary activity. With its huge importance ICAR-KVK, organized scientific honey bee rearing capacity building programme to farmers on 03.08.2022. nearly 30 farmers have been participated from koppal district and benefited. In this programme two farmers shared their experience of honey bee rearing.



► Technical Workshop to Agriculture Officers



Timely reach of proper information to farmers is the most important aspect. Different department are working in coordination with the farmers to their benefit. One of the important extension wing who is working more closely with farmers is Krishi Vigyan Kendra. The KVK has work intensively to tackle the problems identified by the farmers. In this connection to increase the radiance of its work KVK has to work in connection with the line departments who are intern connected to farmers. For quick and needy reach of information KVK, has organized technical workshop to newly recruited 28 agriculture officers of the district on 04.08.2022. In this programme pest, disease and their management of important agriculture and horticulture crops, leading varieties/hybrids of fruits, vegetables, and flower crops, were conveyed to the participants.





► Scientific Sheep and Goat Farming

Doubling the farmers income is the leading schedule of nowadays to majority of the departments who are working in connection with the farmers. One of the subsidiary activity like sheep and goat farming is beneficial to farmers and land less laborer's with more earning in less time. Once this occupation adopted by the individual it is very much important to know about the types of breeds, food habits, maintenance of fodder units, identification of diseases and parasites, vaccination etc. to get the more benefit. In this context ICAR-KVK Koppal organized one day scientific sheep and goat farming programme on 08.08.2022, around 40 interested farmers got the benefit of this capacity building programme.

► Demonstration of Drone Spray in Paddy Field and Fertilizer Feeder in Vegetable Crops



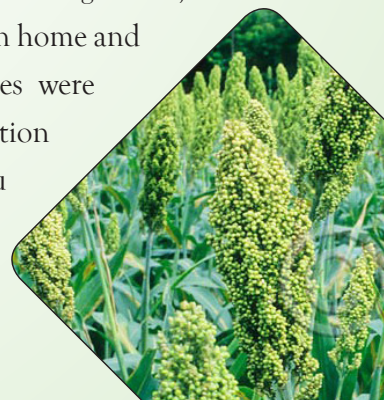
Stage wise different agriculture activities very much required labours. Recent days availability of labours to timely execution of farm events is reducing. On the other hand, mechanization in agriculture is need of the hour. With introducing mechanization one can save the time, cost for the labour and hazardous effect of some harmful chemical on famers health. By adoption of mechanization in agriculture one can divert the youths who involved in labour activity in the field of agriculture to other skill-oriented aspects for their economic benefits. To create awareness among the farmers ICAR-KVK has organized demonstration of drone spray in paddy field at Hosalli village in collaboration with PAGILLP and YARA companies on 13.08.2022. In the farmer field spray of micronutrient Zink was demonstrated. On 12.08.2022 demonstration of fertilizer application with the help of fertilizer feeder was organized at Agoli village. Here participants were explained with the use of this implement. The participants were got awareness about the 50-60% saving fertilizer, 70% saving of labour by the use of fertilizer feeder in this programme.





► Capacity Building Programme on Nutrition Garden

Human health in most of the cases dependent on the healthy food. Food rich in combination of carbohydrates vitamins, minerals, protein, fibers are very much important. Balance diet can reduce the deficiency occurrence in human body. Healthy body with healthy mind can create the healthy environment. In order to get the good health, it's important to consume a variety of vegetables with different colors and consumption of seasonal fruits are also equally important. In Koppalmalnutrition affected 55.7 % infants and 47.4 % of married women. To address this problem ICAR-KVK Gangavathi, in collaboration with Women and child development department and ICICI foundation jointly organized capacity building programme on nutrition garden at Muradi village of Yalaburga taluk, koppal district on 15.08.2022. During the programme layout of nutrition garden in home and Anganawadi kendras and importance of consumption of fruits and vegetables were explained to participated women of the village. Method demonstration of nutrition garden and sowing of seeds was also conducted. 30 Seed kit from IIHR Bengaluru was also distributed during the programme.



Participated in mentoring workshop for strengthening FPOs

As part of the year long platinum jubilee celebrations of ICAR-CPCRI, Regional Station, Kayamkulam (named as Kalpavajra), a one day “Mentoring workshop for strengthening FPOs” was organized on 12.08.2022 with the active participation of KVK-Alappuzha. Sri. G Gopakumaran Nair, CGM, NABARD, Kerala;

Dr. Anitha Karun, Director, ICAR-CPCRI, Sri. S. Premkumar, General Manager, Canara Bank and convenor, SLBC; Dr. Jiju P Alex, Member, Kerala State Planning Board; Smt. Deepti Nair, Deputy Director, Coconut Development Board; Smt. Simi Unnikrishnan, AGM, APEDA, Kochi;



Sri. Salin Tapasi, ADA, SFAC, Kerala; and Dr. C Thamban, Principal Scientist, ICAR-CPCRI, Kasaragod, attended the workshop and addressed the FPO representatives. Dr. P. Anithakumari, Head, CPCRI (RS), Kayamkulam Dr. P. Muralidharan, PS and Head, KVK-Alappuzha, Dr. S Jayasekher, Senior Scientist, ICAR-CPCRI, Kasaragod, and Mr. T K Premkumar, DDM, NABARD, Alappuzha participated in the panel discussions and presented their experience in mentoring FPOs. KVK-Alappuzha and Onattukara Spices Farmer Producer Company Limited, a FPO promoted by the KVK participated in the exhibition

and deliberations. Representatives from more than 80 FPOs in Kerala and Tamil Nadu participated in the workshop.





► Introduction of modified drum seeder for sowing upland paddy

Upland paddy cultivation during monsoon season is a common practice in the Onattukara region of Alappuzha district. The traditional practice of upland paddy sowing is done by dragging a wooden plough, sowing seeds in the furrow opening and closing the furrow using wooden plank. This is a laborious job involving 6-8 labours at a time which results in huge labour cost. KVK-Alappuzha introduced a modified drum seeder for sowing upland paddy along with other scientific practices though a FLD programme. Single operator can drag the seeder in the well prepared field and thus reduce the labour as well as seed cost. Method demonstrations were conducted on sowing in three locations of Muthukulam Panchayath in an area of 2 ha by the involvement of 20 farmer partners as part of the FLD.



Awareness programme on ICM in Greengram



An off-campus training programme conducted at Konkankoppa village of Bagalkote district on 04.08.2022. Dr. Dineshkumar S P, Scientist Agronomy explained to farmers about different integrated farming practices to manage diseases and pests in greengram crop, explained about different crop development strategies and uses of micronutrient like pulse magic application in Greengram crop. A total of 20 farmers participated and got benefit of this program.

► Field visit to Chikkasaushi recording observations of Pomogranate



Field visit to Pomegranate field at Chikkasamshi by Dr. Airadevi Angadi, scientist (Horticulture) along with Dr. Dineshkumar S. P., Scientist (Agronomy), ICAR-KVK, Bagalkot on 06.08.2022 and recorded different plant observations of different chemical treatments.

► Awareness programme on ICM in Bajra



An off-campus training programme conducted at Mangalagudda village of Bagalkote district on 08.08.2022. Dr. Dineshkumar S P, Scientist (Agronomy) along with Dr. Mouneshwari R Kammar, Sr. Scientist and Head, explained to farmers about different integrated farming practices to manage diseases and pests in Bajra crop, explained about different crop development strategies. A total of 20 farmers participated and got benefit of this program.

► **Diagnostic field visit**



Diagnostic field visit to Mango tip drying at Kamatagi by Dr. Airadevi Angadi, scientist (Horticulture) and Dr. Sudha S. Scientist (Plant Pathology) ICAR-KVK, Bagalkot on 11.08.2022 gave detailed information to disease management.

► **Guest lecture Biofertilizers at Basaveshwar Science College, Bagalkote**



Guest lecture organized on 13.08.2022 at Basaveshwar Science College, Bagalkote. Dr. Sudha S. Scientist (Plant Pathology), delivered

lecture on importance of biofertilizers and bioagents and their use in agriculture to PUScience and BSc degree students of Basaveshwar Science College, Bagalkote.

► **Celebration of 75th Independence Day at KVK Bagalkote**



75th Independence Day under Azadi ka Amrit Mahotsav was celebrated at KVK Bagalkote campus jointly in collaboration with Agriculture Research Station, Bagalkote on 15/08/2022. Dr. Mouneshwari R. Kammar, Sr. Scientist and Head, KVK Bagalkote was present on this occasion to commemorate 75years of independence.



Capacity building programme on Tamarind value addition

Tamarind is one of the major ingredients in Indian cuisines. Most of the farmers have at least one tamarind tree in their field in Ballari district. Kudligi, Sandur, Hagari bommanahalli and Ballari taluks are the major tamarind growing areas. Except for making pickles and chutneys at household level tamarind utilization in preserved foods is nil in the district. In order to help the Self Help Groups (SHGs) to generate income and earn the livelihood through the commonly grown tamarind in the area, a capacity building programme was organised at ICAR-KVK, Ballari on 4th August 2022 in collaboration with Deshpande foundation Ballari and JSW foundation. Total of 23 women belonging to the Torangallu village took part in the programme.



Dr. Shilpa H., Scientist (Home Science) demonstrated different value added tamarind products viz., chatpata tamarind, hajmola, tamarind lollipop and tamarind sauce to the SHGs. Dr. Govindappa M R., Scientist (Plant Pathology) addressed the gathering on importance of value addition to the local crops and also introduced the other activities of Krishi Vigyan Kendra to the SHG women.

Smt. Shivaleela of Deshpande foundation assured to support the SHGs by providing financial assistance to set up the value addition unit and also to provide marketing linkages to their value-added products. SHG women also visited different demonstration units of KVK.





► **Use of CREMIT PBW, an innovative mating disruption technology for effective management of cotton Pink Bollworm**

ICAR-KVK, Ballari in collaboration with ATGC Biotech Private Limited and UAS, Raichur organized Farmer awareness program on use of CREMIT PBW, an innovative mating disruption technology for effective management of cotton Pink Bollworm at ICAR-KVK, Ballari on 31st July, 2022.

Controlled Release Emission Mating Interruption Technology (CRIMIT) is a wax based formulation having sustained-release pheromone, which works on the principle of mating disruption. It is a proactive way to protect crops by preventing pests from reproducing in the first place. By simulating the natural pheromone emission of female insects, mating disruption technologies cause males to become confused and incapable of locating a female to mate with. Result reduced rates of mating success which lead to the collapse of insect pest populations, without requiring the application of toxic and potentially ecologically hazardous pesticides. Point sources of pheromone-based CREMIT formulations are applied to the crop. Each

CREMIT dollop emits precise amounts of sex pheromone required to shut down mating. Males are diverted away from females due to the powerful allure of the pheromone being emitted by each CREMIT dollop. Unlike females, CREMIT dollops emit high doses of pheromone continuously. The CREMIT gel at the rate of 125 g/acre/application (applied in 400 source points) in four splits during 35-40, 65-70, 95-100 and 125-130 days after sowing is recommended.



Dr. A. G. Sreenivas, Professor of Entomology, UAS, Raichur explained the methodology of using the innovative technology. Dr. Ramesh, B. K., Senior Scientist & Head, ICAR-KVK, Ballari and Dr. Sashidhar Burla, Director, ATGC Biotech Private Limited were present during the programme. About 93 farmers from different villages participated in the awareness programme.





Special Lecture on Prospectus in Agriculture for Rural Youth

ICAR-BIRDS Krishi Vigyan Kendra, Belagavi-1 in association with Govt. First Grade College, Paschapur, has conducted a special lecture on 'Prospectus in Agriculture for Rural Youth' on 05-08-2022. Fisheries Scientist Mr. Adarsha H. S has delivered the lecture on opportunities available in agri and allied sectors. Business and entrepreneurship possibilities, job prospectus and farming opportunities were discussed in detail during this talk. College Principal Dr. Anand has

addressed the gathering and advised to consider the career aspects in agriculture sector. Mr. Zuber Mujawar, Assistant Professor, deliberated the key note address and explained that Indian economy will flourish with new age start-ups in agriculture. Agriculture has been and will be the biggest sector in India and hence it need skilled, motivated work force. A total of 84 participants participated in this programme.



First workshop on 100 tonnes Sugarcane Production per Acre

ICAR-KLE Krishi Vigyan Kendra, Mattikopp in association with sister concern institutes like C.B. Kore Sahakari Sakkare Kharkhane Niyamita and Shivashakti Sugars organized agriculture workshops and Women empowerment workshop on eve of “75th Birth Anniversary of Dr. Prabhakar B. Koreji, Hon’ble Chairman of KLE Society, Belagavi”.

The first agriculture workshop was inaugurated at Athani by Shri Aravind



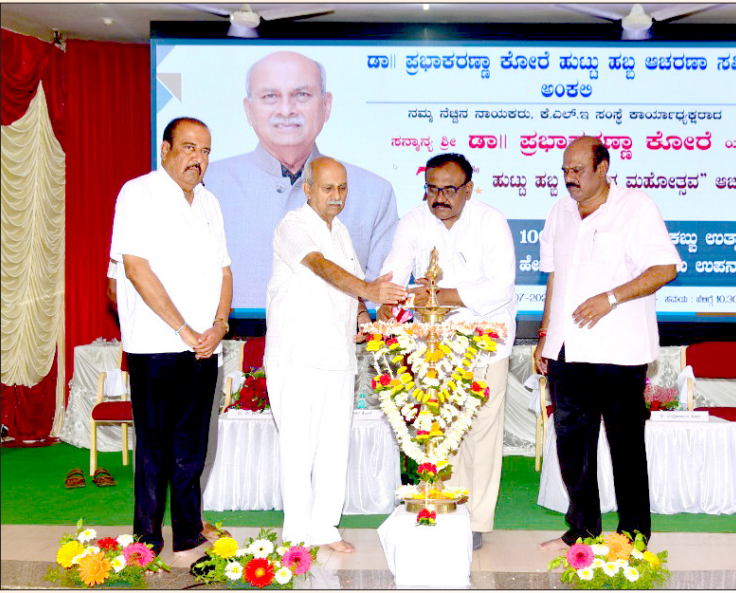
Deshpande, Uttara Karnataka Pranta Saha Sangha Sanchalakar, RSS, Athani on production of 100 tonnes of sugarcane in an acre. Inaugurating the programme he highlighted about various central government schemes for the beneficial of the farming community, importance of formation of farmers producer organization and export of agriculture commodities. The chief guest of the programme was Shri Lakshman Savadi, Former Deputy



Chief Minister, GoK. He addressed the gathering about production of ethanol from sugarcane, maize and paddy. In future days, these crops will be gaining premium price as compared to the other field crops. Dr. Sanjeev Mane, Krishi Ratna Awardee, addressed the farmers on production of 100 tonnes of sugarcane, he shared his valuable experience in gaining this yield by applying sufficient quantity of farmyard manure, growing manure crops, adopting drip irrigation for fertigation. Dr.M.S. Shirahatti, Chief Scientist, Dry Land Farming, RARS, Vijayapura dealt on soil and water conservation measures to be adopted in rainfed areas and drainage system in water logged soils. S.M. Warad, Scientist (Soil Science) interacted with farmers on management of saline and sodic soils. Dr.S.S.Hiremath, Scientist (Plant Protection) explained the application of bio-pesticides for management of whitegrub in sugarcane. The programme was presided over by Shri B.R. Patil, Chairman, ICAR-KLE Krishi Vigyan Kendra, Mattikopp. He called upon the farmers to make utilize the services of Krishi Vigyan Kendra, Mattikopp for their field problems and for procurement of quality seeds and planting material.



► **Second Workshop on 100 tonnes Sugarcane Production per Acre**



The second workshop on agriculture was inaugurated at Ankali, Chikodi taluk by Dr. Sanjeev Mane, Krishi Ratna Awardee, on production of 100 tonnes of sugarcane. Dr. Prabhakar B. Koreji, Hon'ble Chairman of KLE Society, Belagavi addressed the gathering to utilize the services of Dr.Sanjeev Mane and the consultancy fees will be borned by the institute for the welfare of the farming community for increasing the production of sugarcane. Next year, the farmers who produces 100 tonnes of sugarcane will be awarded a cash prize of Rs. 25,000/-. Dr.Sanjeev Mane delivered talk on production of 100 tonnes of sugarcane. S.M. Warad, Scientist (Soil Science) discussed on causes and properties of saline and alkaline soils and their reclamation measures with adoption of drainage system and amendments. Dr.S.S. Hiremath, Scientist (Plant Protection) interacted with farmers on control of pest and diseases in sugarcane. The programme was presided over by Shri B.R.

Patil, Chairman, ICAR-KLE Krishi Vigyan Kendra, Mattikopp.

► **Workshop on Organic farming**

The third agriculture workshop was on 'Organic farming'. The programme was inaugurated by Shri Mallikarjun Kore, Vice-Chairman, C.B. Kore Sahakari Sakkare Kharkhane Niyamita and presided over by Shri Mahantesh Patil, President, Dr.Prabhakar Kore Credit Souharda Sahakari Ltd., Ankali. The talk on organic farming was delivered by Dr.A.B. Mastiholi, Head, Natural & Organic Farming Project, RHRS, Dharwad. During his address, he opined that, organic farming is the solution to nurture the land and to regenerate the soil by going back to our traditional method of farming i.e., free from chemicals, pesticides and fertilizers. Organic farming is art of keeping soil alive by incorporation of crop, animal and farm residues, utilization of bio-fertilizers for fixing N,P,K in the soil. The production of plant and animal based pesticides for controlling of emerging pest and diseases in the farm. Further, highlighted in detail production process of jeevamruta, panchagavya, ghana jeevamruta, vermi wash, beejamruta, gokrupamruta, neemastra, brahmastra, etc.,





► **Mega Health and Blood donation camp**

Organized mega health camp and blood donation camp at Ankali village, Chikodi taluk. The total beneficiaries of this programme were 7133 patients. The doctors specialized in general medicine, surgery, orthopedic, obstetrics and gynecology, psychology, pediatric, pain clinic, neurology, cardiac, Onco surgery, ENT, dermatology, plastic surgery, ophthalmology, ayurveda and homeopathy treated patients and supplied free medicines of allopathic, ayurveda and homeopathy based on their ailments. Free investigation of hemoglobin and random blood sugar was also organized. 400 volunteers donated blood on this occasion.



► **Programme on Women Empowerment**

The Women empowerment programme was organized for the SHG members for initiating income generating activity for the livelihood security. The programme was inaugurated by Smt. Shubhangi Mallikarjun Kore and presided over by Smt. Shailaja Suresh Patil, President, Gram Panchayat, Ankali. Dr.Maitreyini Gadigepagoudar, Assistant Professor, Rani Channamma University, Belagavi addressed the gathering the major role played by women is as a caring/ nourishing mothers. It is the time for the women to come out of their prejudices to involve



themselves in the agriculture and allied enterprising activities. The group activities can be done for preparation of value added products from field and horticulture crops, best utilization of sugarcane waste for preparation of value added products, garment designing is upcoming sector where women can actively involved to showcase their creativity. Apart from that, the women groups can also be involved in preparation of non consumable products like phenyl, toilet cleaners, hand wash and sanitizer which are used in routine activities. Hence, women needs to give a though on which enterprising activity they can go ahead with for their livelihood security with established market linkage.





► **Programme on Natural Farming**

Training programme was organized on Natural Farming. The objective of natural farming training was to create awareness to eliminate use of chemical fertilizers and pesticides, and to promote "good agronomic practices". Scientist (Agronomy) explained about different sources of nutrients available through animal and plant based materials, By adopting natural farming, reduces cost of cultivation, water requirement of crops and rejuvenation of farm lands by utilising the available farmyard manure as valuable resource for increasing organic carbon content in the soil. Scientist (Horticulture) briefed about cultivation of chemical free vegetables for daily consumption. Scientist (Plant Protection) explained on different sources of plant based products which are used to manage pest and diseases.



► **Programme on Integrated crop management in kharif crops**

The training programme on Integrated crop management in kharif crops was organized at Harugeri, Athani taluk. The programme was inaugurated by Shri B.R. Patil, Chairman, KLEKVK, Mattikopp. Mrs. Sridevi B. Angadi, Senior Scientist & Head, KVK, Mattikopp explained about the KVK mandated activities, facilities and services available at the KVK. Further, she discussed on post harvest



technology of field and horticulture crops. S.M. Warad, Scientist (Soil Science) delivered lecture on importance of soil testing and nutrient management in field and horticulture crops. G.B. Vishwanath, Scientist (Agronomy) explained about improved agronomic practices in sugarcane, soybean and maize. Praveen Yadahalli, Scientist (Horticulture) briefed about cultivation of turmeric, vegetable and flowers crops. Dr.S.S. Hiremath, Scientist (Plant Protection) interacted with farmers on pest and disease management in field and horticulture crops





World Bio-fuel day - 2022 Celebration

ICAR KVK Chamrajanagara Organized World Bio-fuel day in association with KSBDB Bengaluru, Department of Social forestry, Zilla Panchayath, Chamrajanagara and MYRADA, NGO, Ankanashettipura on 10.08.2022 at ICAR KVK, Chamrajanagara. Dr. B. Pompanagouda welcome the guest and briefed about the programme.

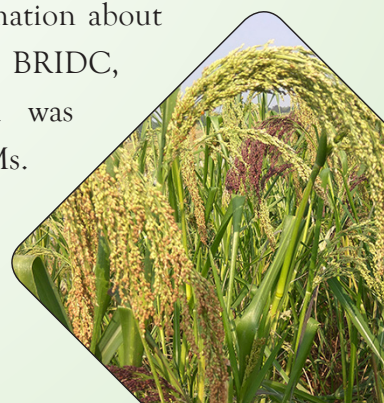
Mrs. K.M. Gayathri, CEO, Zilla Panchayath, Chamrajanagara, inaugurated the programme and planted Pongamia seedlings were planted all along the road side and waste land with SHG Women and other guests. Use of Bio-diesel was demonstrated by adding Bio-diesel to tractor

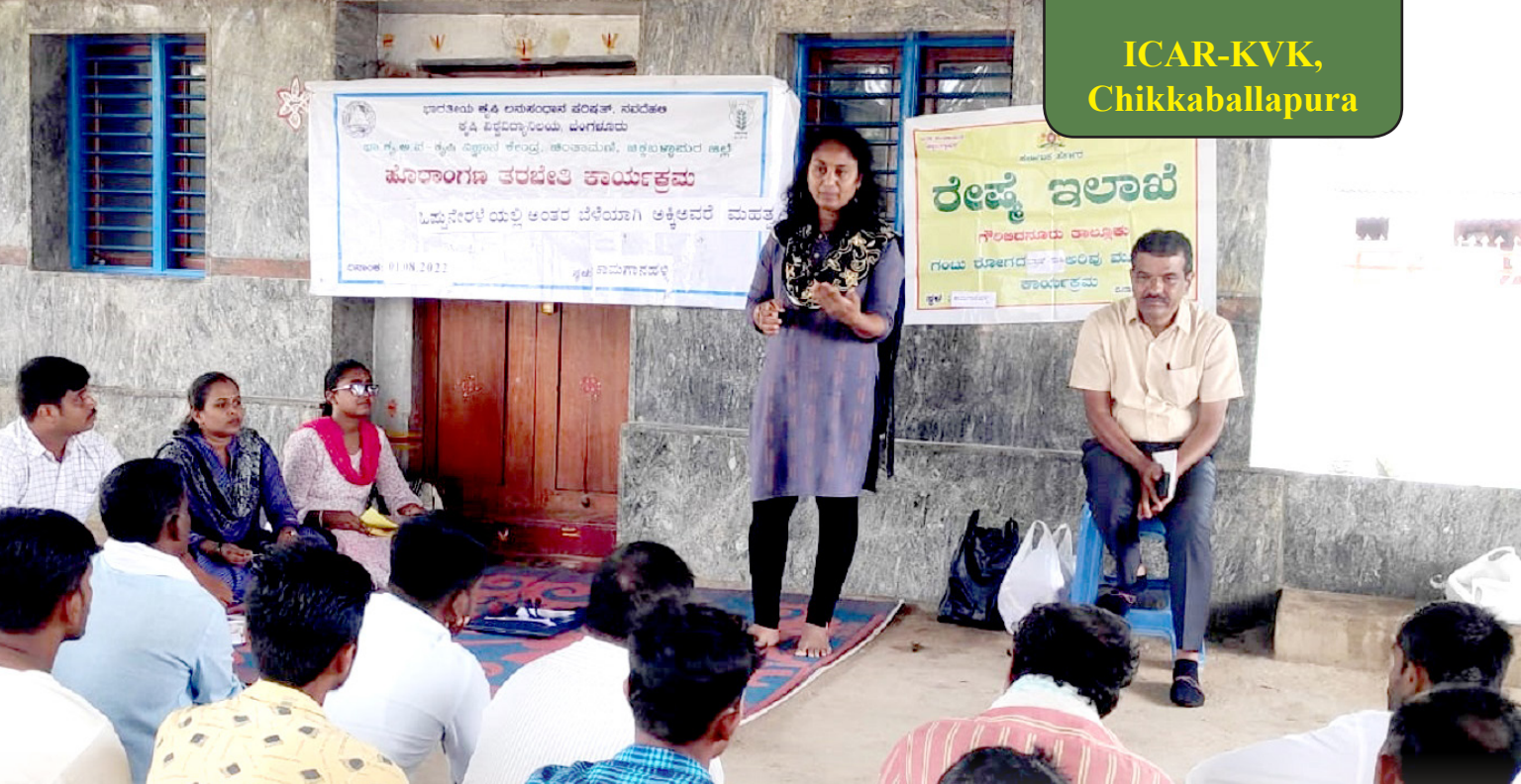
Dr. Mohan Kumar A B., Scientist (Horticulture) presided the programme and briefed about the work of BRIDC KVK Chamrajanagara. Mr. Dineshkumar D K., Technical Assistant, KREDL, Mysuru, highlighted the importance of renewable energy and also use of bio-diesel. H T Nagaraju, Rtd., Professor (Horticulture) UAS (B), Dr. N Umashankar kumara, Associate Professor (Plant Pathology), CoA, Chamrajanagara, Dr. Shashikuamr C., Associate Professor (Agronomy) and Scheme Head, AICRP on Cotton, Dr. Somu

G., Associate Professor (Plant Breeding) and Scheme Head, AICRP on Sorghum, were the Chief Guest in the programme. About 65 - SHG Women were participated in the programme.



During technical session cultivation of bio-diesel plants was explained by Dr. B Pompanagouda. Use of Bio-diesel for social upliftment was enlightened by Dr. Mohan Kumar A B. The information about facilities available in BRIDC, KVK Chamrajanagara was highlighted by Ms. Ananya S.





Training on Intercropping in Mulberry-Rice bean as potential crop

Off campus training on Intercropping in Mulberry-Rice bean as potential crop was organized at Kamaganahalli village by KVK, Chikkaballapura on 01.08.2022. Dr. Vinoda K.S. Scientist (Sericulture) explained about growing rice bean as intercrop in mulberry for enhancing the productivity. Mr. Vishwanath, Scientist (Agronomy) explained about cultivation practices of rice bean. 31 farmers participated in the programme.

► Training on integrated crop management in mango

Mango being the important fruit crop, off campus training on integrated crop management in mango was organized at Appegowdanahalli village of Sidlaghatta taluk on 10.08.2022. Dr. Praveenakumar, Scientist (Horticulture) explained about improved practices in mango. Dr. Tanweer Ahmed, Scientist (Agricultural Extension) explained about importance of mango special



in getting good quality yield and also demonstrated the procedure of use of mango special in mango orchard. 20 farmers benefitted from the programme.





Capacity development programme on Mushroom production technologies

ICAR Krishi Vigyan Kendra, Chikkamagaluru has organized Capacity development programme on Mushroom production technologies on 12.08.2022 at KVK, Chikkamagaluru.

Dr. Krishnamurthy, A.T., Senior Scientist and Head, Krishi Vigyan Kendra, Chikkamagaluru addressed the gatherings and briefed about capacity development programmes and other Extension activities which are conducting by Krishi Vigyan Kendra and advised the farmers make use of these trainings to enhance and update the knowledge on production and productivity, and also he briefed that Mushroom cultivation is the one of the enterprise which provides self employment to the rural and unemployed youths. Which intern enhances the socio-economic status of the rural youths.

During this programme Dr. Sateesh, R. Scientist (Home Science), Krishi Vigyan Kendra, delivered lecture on different types of mushrooms like edible or non-edible, poisonous and non-poisonous mushrooms, growth stages of mushroom, nutritive values, value additions and marketing process. Further demonstrated the cultivation procedure of mushroom and storage methods, scopes and demands of mushrooms in the market.

Mr. Dhanush Patel, D., demonstrated mushroom spawn production and congenial weather conditions needs to follow for cultivation of mushroom to avoid contamination.

Total 35 farmers participated and got benefit out of this programme



Promotion of forest species as alternative cropping system in adopted NICRA

The adopted Yalagatta village under National Innovations in Climate Resilient in Agriculture (NICRA) was promoted with planting of 15,000 different forest species like Teak, Silver oak, Mahagani, Tamarind and Hebbevu on 4-08-2022 in collaboration with Watershed department, Chitradurga.

Dr. Kumara.O., Sr. Scientist and Head, ICAR- KVK Chitradurga inaugurated the programme by distributing forest species to farmers of NICRA village and briefed about the importance of planting of forest species in waste land and all along bunds in agriculture land to bring bio-diversity in the adopted village.



Dr. Prakash Kerure Scientist (Horticulture) nodal scientist for NICRA project demonstrated the planting and after care measures. Dr. S. Onkarappa, Scientist (Plant Protection) interacted with farmers reading management



of Pest and diseases in agriculture crops .

► “Celebration of Vanamahotsava in adopted NICRA village”



The programme on celebration of Vanamahotsava was organized by ICAR- KVK Chitradurga in collaboration with Forest department, Challakere on 11-08-2022 at adopted NICRA Yalagatte village of Challakere Tq.

The Programme was inaugurated by planting of forest species in school premises by Dr. Kumara.O., Sr. Scientist and Head, ICAR- KVK Chitradurga. He briefed about implementation of NICRA project, custom hiring centre, planting of forest species as alternative crops in land use system to improve the productivity in dry land situation. Miss. Sahana, RFO, Department of forestry Challakere briefed the activities Forest department under MGNREGA schemes. She explained the community participation in



planting of forest species in waste land and all along the bunds to bring balanced agro-eco system.

Dr. Prakash Kerure Scientist (Horticulture) nodal scientist for NICRA project briefed the on-going status of crop demonstration activities at NICRA village and also suggested farmers to initiate block demonstration of perianal horticulture crops like Cashew, Tamarind, Mango, Amla, Guava and Drumstick to bring agriculture as a sustainable income generative agriculture.

► **Scientists visit to FLD plot on Integrated Crop Management in Castor**

Dr. Kumara.O., Sr. Scientist and Head and Dr. Rudramuni T., Entomologist, ICAR- KVK Chitradurga visited to Front Line Demonstration plot on Integrated Crop Management in Castor on 10-08-2022 at Krishnapura village of Hiriyur Tq. During the visit it was observed that the crop was suffering from heavy rain fall which led to stunted

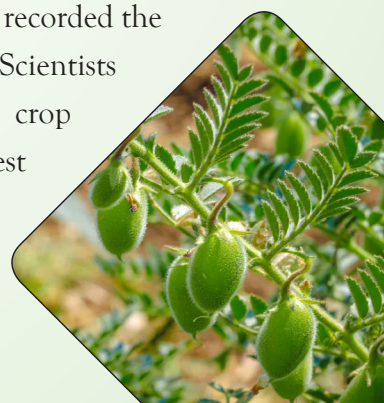


growth and yellowing of leaves was seen. Suggested the management through foliar nutrition (19:19:19) to overcome the problem. Dr. Rudramuni T. briefed the management of black headed caterpillar by spraying of plant protection measures.

► **Demonstration of Bhima Super Onion variety for higher yield**



Dr. Prakash Kerure , Scientist(Horticulture), Dr. Kumara O., Senior Scientist and Head, Dr. Onkarappa S., Scientist(Plant Protection) , ICAR-KVK Chitradurga visited the plots of Front Line Demonstration on Bhima Super Onion variety for higher yield was conducted at six farmers field by covering area of 2.4 ha. at Yalagatte village of Challakere Tq. on 4-08-2022. During the visit the crop growth condition was observed and recorded the growth parameters. Farmers Scientists interaction was made on crop management practices, pest and diseases.





► **Interaction meeting on Importance of Soil testing, 10-08-2022, Devarakotta, Hiriur Tq**

An interaction meeting was organized by Vedavathi Degree College, Hiriur on 10-08-2022 at Devarakotta village of Hiriur Taluk. The students of Vedavathi first grade college and students of Government High School, Devarakotta along with teachers and farmers were present during the programme.

Dr. Kumara O., Sr. Scientist and Head, KVK, participated as Chief guest for the programme and during his speech he discussed about the Agricultural Scenario in India, He briefed about Green Revolution and its implications. During 1960's the main aim of Green revolution was to increase the food production to meet the requirements of growing population. But today the situation has been changed. Due to excessive use of inorganic fertilizers and other chemicals the soil health is deteriorating, in

order to protect the soil health farmers have to adopt the natural farming and organic farming methods, which were followed by our ancestors. He also briefed about the importance of Soil testing and he also insisted the farmers to adopt crop rotation and multiple cropping systems in order to protect the soil fertility.

Dr. Rudramuni, Farm Manager, KVK participated as the guest for the programme. During his speech he briefed about the importance of beneficial insects in Agriculture with few examples.

Mrs. Geetha Kumari B.N., Programme Assistant, KVK, delivered a guest lecture on importance of soil testing. She discussed about the time of sampling, method of soil sampling, precautions to be taken during sampling, depth of sampling, Essential plant nutrients, method of analysis, critical limits types of problematic soils and their management. Later a demonstration on soil sampling was conducted to the participants.



Frontline Demonstration in Cabbage at Kodaganuru



FLD on Integrated Crop Management in Cabbage was conducted at Kodaganuru village of Davanagere Taluk.

Dr. Avinash T. G. SMS (Plant Protection) informed that eco-friendly management practices such as application of *Verticillium lecanii* @ 5 ml/l will manage the aphids at early stage of the crop. Neem oil 10,000 ppm spray @ 2 ml/l will manage the early instar larvae of Diamond Back Moth (DBM) which is the major pest in cabbage. Advised farmers

not to take up blanket application of pesticides irrespective of pests and disease load in order to avoid the insect resistance and resurgence to the insecticides. Mr. Mallikarjun B. O. SMS (Agronomy) explained the Integrated Nutrient Management practices. Mr. Basavanagowda M.G. advised farmers to take up mustard as a trap crop at 16:1 (Cabbage: Mustard). Provided *Verticillium lecanii* and Neem oil 10,000 ppm to FLD partner farmers.

► Scientific cultivation of Cocoa as a intercrop in Coconut

ICAR-Taralabalu KVK in collaboration with the Department of Horticulture conducted one day training program at Komaranahalli village of Harihara Taluk on cultivation of Cocoa as an intercrop in coconut ecosystem. Mr. Basavanagowda M. G. SMS (Horticulture) elucidated in detail about scientific cultivation of cocoa as a sole and intercrop and their significance in enhancing the farmer income. Apart from this it also improves the fertility status of the soil. Dr. Avinash T. G. SMS



(Plant Protection) narrated the pests and disease management of Cocoa and Coconut. Dr. Raghvendra Prasad, Deputy Director of Horticulture gave information on department schemes for the growers. Smt. Rekha, SADH, Harihara and Santhosh, AHO attended the program. 50 farmers benefited from the program.



► **Implemented On-farm trail on evaluation of Sagarika in Tomato ecosystem**



On-farm trail conducted at Agasanakatte village of Davanagere District. Mr. Basavanagowda M. G. SMS (Horticulture) illustrated the significance of Sagarika, it is a sea weed extract, application of 3 ml/l helps in stimulating the crop growth and development. It also gives complete nutritional benefit to crops, which helps in improving the plant vigour, root and shoot growth, more flowering and fruit set. Apart from this it also enhances stress tolerance ability of crops & resistance against pests & diseases. Further, information given on Arka vegetable special - micronutrient mixture, can be applied at 5 g/l which provides Zn, B, Fe and Mg there by helps in the yield enhancement.

Dr. Avinash T. G. SMS (Plant protection) gave information on pests and disease of Tomato and their integrated management practices. Sagarika and Vegetable special provided to farmers as critical inputs.

► **Training program on PCRA at Hireharkere**

The PCRA program was inaugurated by the Deputy Director of Agriculture, Davanagere Mr. Tippeswamy at Kalur, Davanagere taluk. Mr. Mallikarjuna B.O., SMS (Agronomy) delivered lecture on importance of the Petroleum products in daily life and the usage should be limited. Even the farmers should also be alert while using the tractor drawn implements. We should think about the alternative source of the petroleum products. 45 farmers participated in the program. Mr. Basavangowda M.G and Mr. Sannagowder H.M participated in the programme.





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► **Method demonstration of Installation of Pheromone traps in Maize**

Frontline demonstration in Maize (Popcorn) + Redgram conducted at Doddahabbigere, Channagiri taluk for 25 farmers. The crop stand was good but due to heavy rains there was water stagnation and yellowing of the maize leaves. Mr. Mallikarjuna B.O, SMS(Agronomist) delivered lecture on spraying of water soluble fertilizers (5g/l of water) and enlightened the farmers on the usage of NANO urea @ 4ml/l of water after 30 days after sowing, the 500ml NANO urea is equal to 45 kg neem coated urea. Dr Avinash T.G. SMS (Plant protection) explained about the integrated management of FAW, conducted method demonstration on installation of the pheromone traps @ 5 per acre for monitoring of the Fall Army worm. Field visit to the FLD plots.

► **Training and Method demonstration Mechanized transplanting of paddy**

Davangere district the paddy area in kharif is about 85,000 acres and farmers are facing the big problem is the labour for transplanting. ICAR- Taralabalu KVK in collaboration with

SKDRDP conducted the off campus training at Kadlebalu, Davanagere taluk.



Mr. Mallikarjuna B.O SMS(Agronomist) explained in the detailed the method of nursery raising and cost of production for the mechanized planting v/s manual transplanting. Method demonstration of paddy transplanting conducted at the farmers field of Kadale balu, Davanagere Taluk . There are two types of machines used for transplanting one is walk behind and another one is Rider type. Nowadays farmers are using the machines from the custom Hiring centers run by SKDRDP with minimum charges.



Method demonstration on layering



ICAR-KVK, Dharwad organized on method demonstration on layering for B.Sc. (Agri) students on 03.08.2022. Dr. Akkamahadevi D. Agasimani, Scientist (Horticulture), ICAR-KVK, Dharwad explained about asexual propagation techniques in horticulture crops and method demonstration was taken on air layering of guava. During the demonstration, pruning techniques, girdling, selection of branches and materials required for layering, bagging and hardening of layered plants, how to take of layered plants and nursery management techniques were also taught during the demonstration. Students were exposed to practice the layering method in guava mother block at KVK farm. About 38 students participated in the programme.

► Women SHG members visit to KVK

Women members of Shri Kshethra Dharmasthala Rural Development Project (SKDRDP) Self Help Group from Chikkodi taluka of Belagavi district visited ICAR-KVK, Dharwad for exposure trip. Field visit was organized to orient them on different demonstration units established in KVK farm. Dr. Prasanna Kumar B. H., Scientist (Agronomy), KVK, Dharwad conducted group meeting with the members and oriented on new crop varieties released from UAS, Dharwad. He introduced them to the advanced agriculture practices to be followed during kharif season for higher production and productivity. Around 42 SHG members participated in the exposure visit.





► **Scientists participation in Prabhata Pheri**

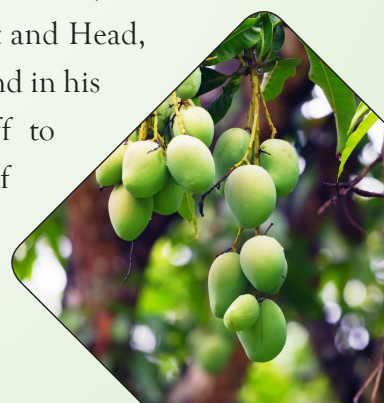
On the eve of Azadi Ka Amrit Mahotsav Schools are organizing Prabhata Pheri to encourage students and parents to hoist the national flag at home. Children shouted slogans on Independence, Azadi Ka Amrit Mahotsav, Govt. programmes etc., Scientists from ICAR-KVK, Dharwad participated in one such Prabhata Pheri organized by Higher Primary School, Dummawad on 12.08.2022. Scientists encouraged the students to motivate each and every member of the family to hoist flag under "Har Ghar Tiranga" abhiyan. Motivational advises for building healthy society was given. About 54 School children, teachers and villagers participated in the programme.



► **Celebration of Independence Day by ICAR-KVK, Dharwad**



On the eve of Azadi Ka Amrit Mahotsav ICAR-KVK, Dharwad celebrated 76th Independence Day from 12-15 August 2022 and various events were organized. Flag was hoisted from 13-15 August 2022 at ICAR-KVK, Dharwad under "Har Ghar Tiranga" Abhiyan. Scientists encouraged the students to motivate their neighbours to hoist flag under "Har Ghar Tiranga" abhiyan. Running race and musical chair competitions were organized for the staff. On the eve of Independence Day on 15.08.2022, Dr. S. A. Biradar, Senior Scientist and Head, Dharwad hoisted the flag and in his speech motivated the staff to work hard for the welfare of farm families.



Workshop on Conservation of Fisheries Biodiversity and Protection of Farmers' rights

KVK Ernakulam and ZTM-ABI centre of ICAR- Central Institute of Fisheries Technology (CIFT) jointly organized online workshop on Conservation of Fisheries Biodiversity and Protection of Farmers' rights on July 25th 2022. The programme was inaugurated by Dr. Leela Edwin, Director (Acting), ICAR- Central Institute of Fisheries Technology, Kochi. Dr.B.Meenakumari, Former Chairperson, National Biodiversity board and Former DDG (Fisheries) led the talk on Conservation of Fisheries and National Biodiversity Act. Dr. P E Rajashekharan, Principal Scientist, Indian Institute of Horticultural Research led the topic Protection of Plant varieties and Farmers' rights.

WORKSHOP
Conservation of Fisheries Biodiversity & Protection of Farmers' Rights
Jointly organised by
ZTM - ABI CENTRE, ICAR-CIFT & KRISHI VIGYAN KENDRA - CMFRI
25 JULY 2022
TIME
10 AM - 12 PM

SPEAKERS

Dr. B. MEENAKUMARI
Former Chairperson
National Biodiversity Board
Former DDG (Fisheries) ICAR
Topic: Conservation of Fisheries and National Biodiversity Act

Dr. P.E. RAJASEKHARAN
Principal Scientist
Indian Institute of Horticultural Research
Topic: Protection of Plant Varieties & Farmers' Rights

ORGANISER

Dr. LEELA EDWIN
Director (Acting)
ICAR-CIFT

PROGRAMME CO-ORDINATORS

Dr. George Ninan
Principal Scientist & PI, ZTM-ABI Centre, ICAR-CIFT

Dr. Shinoj Subramannian
Principal Scientist & KVK, Ernakulam

JOIN WITH ZOOM

Meeting ID : 919 4542 9691
Passcode : 525802
<https://zoom.us/j/91945429691?pwd=WETAFFAL29DSWpQdmc1SmF522RlQT09>

► Smt. P Sreeletha superannuates after dedicated service of 35 years

Smt P. Sreeletha, SMS-Home Science and Chief Technical Officer, ICAR-KVK Ernakulam stepped down from service after serving farming community for long 35 years. During her service, she assisted more than 100 women self help groups to successfully establish income generating enterprises and trained 1500 fisher women on value addition of fish. She had special expertise in the commercial production of value added products from fish and other sea foods. She had developed manure from fish waste using microbial inoculum that was commercially launched in the trade name Fishlizer. This work attracted National attention. She was instrumental in training women entrepreneurs and establishing units processing fish market waste into organic manure. She has been the coordinator of various Govt. of India programmes viz., SCSP, Swachh Bharat abhiyan, Poshan abhiyan, etc., at KVK. She has also played a pivotal role in commencing Farm Shoppe-a sale outlet for farmer's products launched at KVK.



VISIT OF DIRECTOR OF EXTENSION, UHS BAGALKOT TO ICAR-KVK, GADAG

Dr. S. I. Athani, Director of Extension, University of Horticultural Sciences, Bagalkot visited ICAR - K.H. Patil Krishi Vigyan Kendra, Hulkoti on 29-07-2022 to review the activities of KVK for the year 2022-23. Director of Extension interacted with Scientists and advised for further improvement of the work plans for all disciplines.

Later, Dr. Athani along with Senior Scientist and Head and other Scientists visited KVK Demonstration units viz., Dairy, Sheep and Goat Unit, Oil Extraction Unit, Millet Processing Unit, Food Processing Unit, Ethnic Food Cafe and KVK Instructional Farm.

Further, the visits were made to mixed orchards of progressive farmers' fields promoted by KVK viz., Mango+Cashew, Cashew fields and had fruitful discussion regarding production, processing and marketing aspects with farmers.





IMPLEMENTATION OF POTATO SEED TUBER PRODUCTION UNITS THROUGH TISSUE CULTURE APICAL STEM CUTTING AT IDUKKI HIGH RANGES

ICAR-KVK Idukki conducted a field visit to Vattavada and Pazhathottam villages to select field locations to implement UNDP funded project entitled as “Sustainable formal and informal Potato seed tuber production units through tissue culture apical stem cutting at Vattavada and Pazhathottam villages of Idukki high ranges was conducted.

Dr. R Marimuthu, Senior Scientist and Head, Mr. Sudhakar Soundarajan, SMS (Plant Protection) and Project in-charge in association with other line department officials viz., Mr. Joy, Representative from Vijayapuram Social service Society, Munnar, Agricultural officer and Agricultural Assistant, Krishi Bhavan Vattavada conducted the field visit and selected the fields suitable for implementing the project. The implementing team also visited the potato fields planted with Kufri Karan, Kufri Surya and Kufri Neelkanth the latest late blight tolerant varieties of Potato introduced by KVK Idukki in Vattavada area.



Capacity Building Programme on Marigold Cultivation

Capacity building programme on Advances in production technology of Marigold crops after the training 50,000 Marigold seedlings (Var. Arka Abhi) were distributed to 10 farmers (10 acre) under IIHR-RKVY project Bengaluru.

The training was organized at ICAR-Krishi Vigyan Kendra, Kalaburagi-I on 08.08.2022 on the occasion of Dr. M. H. Marigowda birth anniversary (National Horticulture Day). Dr. P. Vasudev Naik, Scientist (Horticulture) highlighted the importance of the marigold cultivation in season specific in the district to enhance the regular income of small and marginal farmers of the district. Soil Scientist Dr. Shreenivas, B. V participated and explained about the nutrient management in flower crops during rainy season. This programme was inaugurated by Dr. Raju G. Teggelli, Senior Scientist & Head, KVK, Kalaburagi-I and emphasised on practices for controlling pest management in different horticulture crops. Dr. Zaheer Ahamed, Scientist (Pathology) explained about diseases management flower crops. In this ceremony, Dr. Manjunath Patil, Dr. Yusuf Ali, scientists, KVK, Kalaburagi, staffs participated. A total of 25 farmers were benefitted from the training programme.





► **FLD on demonstration of different technologies on augmenting fertility in dairy buffaloes**

ICAR-Krishi Vigyan Kendra, Kalaburgi-II have implemented Front Line Demonstration (FLD) during 2022-23 on ‘Demonstration of different technologies on augmenting fertility in dairy buffaloes’ in order to address the most severe problem of infertility in dairy buffaloes. Kalaburagi district is having buffalo population of 91254 as per 20th livestock census (2019). Repeat breeding and anoestrus are gynaecological problems in buffaloes accounting for 35 to 38%. Aberrations in estrus cycle in high yielding dairy buffaloes leading a huge loss to farming community. So, in this context front line demonstration was conducted at Taj sultanpur village of Kalaburagi taluk & district on 04.08.2022. Source of technology is from Tamil Nadu Veterinary University (TANUVAS), Chennai. Main objective of this study is to assess the percentage of oestrus and conception in buffaloes.

Prosync NC-Progesterone Nano cream is a non-invasive, farmer-friendly method which was applied on the skin of dairy buffaloes. It induced ovulatory heat on 5th day after trans dermal patch, there by artificial insemination was carried out simultaneously. It induced the estrus signs in graded buffaloes (74%) compared to control group buffaloes (26%). It also improved conception rate in graded buffaloes (59.56 %) compared to control group graded buffaloes (15.33 %) under FLD and also training programme was given. A total of 20 farmers and 2 extension personnel’s were benefitted.

Diagnostic field visit of Greengram crop

Dr. Manjunath N., Sr. Scientist & Head, suggested weed management through herbicide application and use of improved production technology of Greengram to achieve higher productivity.



Dr. Basavaraj, Scientist (Agril. Entomology) visited to Greengram crop at Andola village Tq. Jewargi on 14-08-2022. The crop is affected by yellow mosaic virus disease in the field. It is recommended that removal of infected plants and spraying of systemic insecticide like Foliar application of systemic insecticide like acephate 75% SP @ 1g/ltr or acetamaprid 20% SP @ 1g/ltr or imidacloprid 17.8% SL @ 0.3ml/ltr of water.





Visit of Deputy Director General of ICAR to KVK Kannur

Dr. R. C. Agarwal, Honourable Deputy Director General (Agricultural Education) and National Director, NAHEP, ICAR and Dr. Anuradha Agarwal, National Coordinator of NAHEP visited Krishi Vigyan Kendra, Kannur on 13th August 2022. They were accompanied by Dr. R. Chandra Babu, Honourable Vice Chancellor of Kerala Agricultural University. They have interacted with subject matter specialists, farm manager and other staff members of KVK on mandatory and non-mandatory activities of KVK for betterment of farmers in district. They also had a discussion with successful entrepreneurs groomed under ARYA programme of KVK. They have visited KVK Mall and admired the activities done by KVK under processing and value addition of fruits and vegetables. The team has visited a unit of nata de coco run by two entrepreneurs in partnership with the technical guidance and support of KVK and ABI of Kerala Agricultural University. They also



highlighted the importance of FPOs in developing agricultural sector by quoting the success of Mayyil Rice Producers Company, promoted by KVK, which got a recognition at national level because of their sustaining performance in scientific paddy cultivation using standard operating protocol, procurement, processing and value addition of paddy. Dr. K. M. Sreekumar, Professor (Agricultural Entomology), College of Agriculture, Padannakkad and Dr. Meera Manjusha, Assistant Professor, RARS Pilicode also accompanied the dignitaries.

KVK Kodagu Staff participated in the training programme conducted at ICAR-CPCRI, Kasaragod



KVK Gonikoppal, Kodagu staff Mr. Prabhakara B, SMS(Horticulture) and Dr. Harish M.N, SMS(Agrometrology) attended a training programme on “statistical and socio-economic analysis of technology assessment and refinement of technologies in agriculture” which was held at ICAR- CPCRI, Kasaragod from 11-12th August 2022 organized by ATARI, Bengaluru.

The programme was inaugurated by Dr. Anitha Karan, Director CPCRI, Kasaragod. She highlighted the promising technologies released by the institute and requested all the participants to make utilize for kvk interventions. Dr. Murulidharan, Dr. Thampan, Dr. Chandran, Dr. Jose, Dr. B.T. Rayadu and Dr. Mallikarjun Hanji participated as Resource persons and imparted the skills on methods of data generation, design of experiments and use of various statistical tools, for analysis of field and lab data generated by the KVK scientists. This training programme would help in bringing out of quality publications of the KVK activities.

► One day training programme for students from College of Horticulture, Mudigere

ICAR-KVK Gonikoppal, Kodagu conducted a one-day training programme for the students from University of Agriculture and Horticultural

Sciences, Shivamogga - College of Horticulture, Mudigere on 06th August 2022 at KVK Gonikoppal. Twelve students visited the KVK farm at Athur where they were accompanied by the Farm manager Mrs. Lakshmi R. She explained the students about the various activities at KVK farm and give them a tour of the piggery unit, dairy unit, agro-AWS unit, coffee and arecanut block. During the second half, the students visited the KVK office where Dr. Harish M N, SMS (Agrometeorology) gave a glimpse about working mandates of KVK and created awareness about FPO and its function. The students later visited Puthari FPCL and gained some knowledge and basic idea about its day-to-day activities. They also visited soil testing lab, AMC and mushroom spawn production lab at KVK.



Participated in the awareness programme and delivered talk on "Management of broad mites in mulberry for sustainable leaf production"



ICAR- KVK, Kolar, Scientist (Sericulture), Dr. Shashidhar K.R, participated in the awareness programme and delivered talk on "Management of broad mites in mulberry for sustainable leaf production" at Biridenahalli, Koratagere taluk, Tumkuru district organized by Dept. of Sericulture, Koratagere and management broad mites in mulberry for quality leaf production at Tavakadahalli, Madhugiri taluk, Tumakuru organized by Department of Sericulture, Madhugiri on 1.8.2022. Conducted demonstration on proper dosage, suitable miticide and appropriate spray solution required per unit area for broad mite management. Around 70 sericulture farmers participated in the programme.

- ▶ Off campus capacity development programme on Importance of organic nutri garden to farm families



ICAR- KVK, Kolar, Scientist (HomeScience)Dr. Chikkanna

G.S. organized capacity development programme on Importance of organic nutri garden to farm families at Bevahalli on 2.8.2022. Distributed nutrigarden kit to 25 farmers who participated in the programme.



- ▶ Participated as Resource person and delivered lecture on Soil Health management and Nutrient deficiency symptoms and management in Horticulture crops



ICAR- KVK, Kolar, Scientist (SS&AC) Dr. Anil kumar, participated as Resource person and delivered lecture on Soil Health management and Nutrient deficiency symptoms and their management in Horticulture crops for Diploma in Agricultural Extension Services for Input Dealers (DAESI) trainees at COH Kolar 40 persons benefitted from the programme.

► **Interface workshop on Farmer-Entrepreneurs**

An interface workshop on farmers-entrepreneurs was organized at KVK, Kolar in collaboration with Grama Patashala an Agri tech startup and UAS, Bengaluru on 4.8.2022. During the programme Dr. Ravishankar, Co-Founder, Grama Patashala gave a detailed information on the objectives of Grama patashala. Dr. Gracy, Retired Professor, UAS, Bengaluru gave elaborate information on the



working nature, modalities and models of IFS to enhance the farmers income. Dr. Chidanadanad, Retired Professor, UAS, Bengaluru has explained about the prospects of bamboo cultivation in place of Nilgiri and also embryo transfer of local cow breeds into cross bred cows for increasing profitability of farmers. K .Thulasiram, SS&H, KVK, Kolar shared information on few profitable IFS models for enhancing farmers income. Dr. Chikkanna G.S, Scientist (Home Science) gave information on the prospects of ODOP & PMFME. 10 staff members of startup have participated besides 45 farmers and small time entrepreneurs.

► **Participated as expert member in district level ATMA meeting**



ICAR- KVK, Kolar Scientist (Horticulture) participated as expert member in district level ATMA meeting and farmers suggestion committee held at ADA, office Kolar on 8.8.2022. Dr. Jyothi Kattegoudar suggested measures to be followed during continues rain in vegetables and perennial horticulture crops. About 10 officials and 20 farmer members of ATMA has been present in the programme.





ICAR Foundation Day & Award Ceremony

The Foundation Day of ICAR was observed on 16th July, 2022 and programme was held in the A. P. Shinde Hall, NASC Complex, PUSA Campus at 11.00 am. Hon'ble Union Minister of Agriculture and Farmers Welfare Shri. Narendra Singh Tomar was the Chief Guest of the programme.

In response to the clarion call of Hon'ble PM Shri. Narendra Modi for doubling the income of farmers, income of a large number of farmers has been doubled with the consistent efforts of Ministry of Agriculture & Farmers Welfare and ICAR. Hon'ble Union Minister of Agriculture released compilation of success stories of 75,000 Farmers and he also interacted with the DFI farmers from different KVKs, across the country.

ICAR Krishi Vigyan Kendra, Kollam has telecasted the ICAR Foundation Day and Award Ceremony for the farmers. Two capacity building programmes in Agriculture and Animal Husbandry was conducted as part of ICAR foundation Day Celebration 2022. The inaugural session commenced at 10.00 AM with the Welcome

speech of Dr. Bini Sam, Professor and Head, KVK Kollam. The programme was inaugurated by Adv. D Sajaya Kumar, President Vettikkavala Gramapanchayat. The first session of capacity building programme was handled by Dr. Saroj Kumar V, Assistant Professor (Horticulture) on the topic "Scientific Cultivation of Vegetables" which was followed by a session on "Care and



management of livestock during rainy season" by Dr. Parvathy S, Assistant Professor (Animal Husbandry) and the sessions were concluded by 1 PM. A total of 75 farmers attended the programme.





75th Independence day celebration and mass planting

On 15th August, flag hoisting, prize distribution for quiz competition and felicitation of contract staff was held. In continuation Mass planting of Silver oak seedlings by staff of KVK and IISR farm at

Experimental farm area. As a part of Azadi Ka Amruth Mahotsav, KVK Kozhikode organized a total of 75 programmes including trainings, awareness programmes and seminars



Livelihood and enterprise development training on cattle feed making and business management



A one day training on cattle feed preparation and unit management was conducted for Kudumbashree units, organized by “We help Business consultancy” at Perinthalmanna on 10th August as a part of 3 days’ workshop on Livelihood and enterprise development training. The training Programme handled by KVK Programme coordinator, Dr IbraheemKutty, Covered principles of feeding livestock, chemical composition of feed components, computation of ration, feed compounding, procurement of inputs, preparation of balanced feeds, storage and marketing techniques. The training was attended by 30 participants, mostly of women from three blocks of the district.

- Rural trichocard units: A livelihood option for women and for enriching rice ecosystem

KVK Malappuram has initiated 30 days training programme to women groups on the mass production of tricho cards for the pest management in rice. The programme consists of practical training on trichocard production, exposure visits to bio control labs and similar enterprise units and setting up of demonstration units to the trainees to initiate the production after acquiring the skill. The programme is financial assisted by NABARD. The programme was inaugurated by KVK Programme coordinator Dr.Ibraheem Kutty C. on 11.8.2022 at KVK Malappuram and an orientation session was handled by Dr. NajithaUmmer, Assistant Professor (Agricultural Entomology). Fifteen women from three different blocks of the district are participating the training.





► **Programmes conducted at KVK Malappuram as part of Independence day 2022**

National flag was hoisted on the KVK building to encourage the people to bring the Tiranga home and hoist it to mark the 75th year of India's Independence from 13th to 15th August 2022. The Flag was hoisted at 9 am on 15th August by Dr. Ibraheem Kutty C., Programme Coordinator in the presence of KVK staff members and self help group members. Independence day message was given by Programme coordinator. National anthem & Patriotic songs by the staff members. Competitions and games were also conducted as part of the celebration. Total 40 staff members participated in the program.

► **Training on crop health management**

Off campus training on crop health management was organized at kuttipuramkrishibhavan for the selected farmers of the panchayat on 27 July. Various aspect of crop management right from soil management to plant protection aspects were explained in the programme.



Eco-friendly Pest and Diseases Management in Paddy

Paddy is one of the most important cereal crop and plays a vital role in the economy of developing countries. To support the ever-increasing demand for higher grain yield, farmers around the world are increasing plant densities, which has resulted in an increased population of certain pests.

This in turn, has resulted in a unilateral and frequent over-optimum application of pesticides has led to ill-effects on human and animals, and as well as destruction of natural enemies of pests and increased level of pesticides residues

in the environment. In this regard, to educate the farmers and Agri-input dealers, and build their technical competency in agriculture and to facilitate them to serve the farmers better, ICAR-Krishi Vigyan Kendra (Dakshina Kannada) Mangaluru organized a method demonstration on eco-friendly pest management practices in paddy with theme objectives on the selection of good quality seedlings, root dipping of seedling with *Trichoderma viride* @ 10g L-1 of water and *Pseudomonas fluorescens* @ 10g L-1, clipping of paddy leaves tip before transplanting to eliminate the egg masses of yellow stem borer and installation of pheromone traps for the monitoring and control of Yellow stem borer on 12.08.2022 at KVK (DK) Mangaluru. In this programme, Dr. Kedarnath, Scientist (Plant Protection) educated the Agri-input dealers. Totally, 40 Agri-input dealers, and KVK staffs were also participated.





Doubling the Farmers Income by introducing new Varieties of Dolichus Bean



Off campus training programme on Doubling the Farmers Income by introducing new Varieties of Dolichus Bean at Hulyalu village Hunsuru Taluk on 02-08-2022. In that training programme Horticulture Scientist Dr Vinay G M explains the scientific cultivation of Dolichus bean, use of AMC in increasing the soil health management of soil , use of Vegetable special in improving the yield along with quality in the Dolichus bean and gave information about the

New IIHR Dolichus bean Varieties. Finally distributed the Arka Sambram variety seeds along with Vegetable special to 10 beneficiaries of the village. In this training programme Animal science Scientist Raksthith Raj and 30 numbers of farmers of the villagers participated and got benefitted.

- ▶ New varieties of the Chilli in increasing the income of the farmers





Off campus training programme on Doubling New varieties of the Chilli in increasing the income of the farmers at Chikkakanya village Mysuru Taluk on 11-08-2022. In that training programme Horticulture Scientist Dr Vinay G M explains the scientific cultivation of Chilli, use of AMC in increasing the soil health management of soil, use of Vegetable special in improving the yield along with quality in the Chilli and gave information about the New IIHR Chilli Varieties. Soil scientist Rajanna explains the soil health management and Integrated nutrient management in Chilli to the farmers. Finally distributed the Arka Haritha variety seeds along with Vegetable special to 10 beneficiaries of the

village. In this training programme Home science Scientist Netravathi Yattinamani and 30 numbers of farmers of the villagers participated and got benefitted.

► **Nutrition Supplementation for “Augmenting Production Performance in High Yielding Dairy Farmers**

Training program on “Nutrition Supplementation for “Augmenting Production Performance in High Yielding Dairy Farmers” at Bettadatunga, Bettadapura, Periyapatna taluk. The President and Dairy Secretary, Milk Producers Cooperative Society of Bettadatunga had graced the occasion. High yielding dairy cows suffer from negative energy balance, which eventually leads to increased service period anoestrous condition, repeat breeding and lower milk fat/SNF. Hence, to mitigate those conditions and increase income of the dairy farmers critical inputs such as Area Specific Mineral Mixture and Bypass fat distributed to 10 farmers.



SRI. AJAY MOHAN, A CIVIL ENGINEER TURNED ENTREPRENEUR

Mr. Ajay Mohan, Nandanam House, Keerukuzhi Post, Pathanamthitta district of Kerala State is a successful entrepreneur, who is a Civil Engineer by profession.



The difficult times in agriculture could not deter the entrepreneurial spirit of committed individuals like Mr. Ajay Mohan who is determined to be a model farmer to this generation. He has worked relentlessly to establish an integrated farming system at Keezhukuzhi, Pandalam of Pathanamthitta district by harnessing the potential of Agriculture. Mr Ajay, a post graduate in engineering has opted for self-employment through integrated farming system instead of settling down in a job.

He has done tremendous work in integrating poultry farming with dairy management, fish farming and other crop cultivation. He has chosen to conserve nature through integrated farming where he prefers organic farming. With an idea of setting up his farm more professionally, Mr. Ajay joined Project on Attracting and Retaining Youth in Agriculture (ARYA) training programme during the year 2020-21 at Krishi Vigyan Kendra, Pathanamthitta. He was benefited immensely from the technical and

practical aspects covered under the project training, in expanding his farm and implementing his ideas with KVK's support. In view of his commitment, thrust and contribution towards agriculture Mr Ajay Mohan was identified and honoured as the Best Young Farmer by Pandalam Thekkekara Krishi Bhavan during the year 2021.



Mr. Ajay challenges this young generation to reap gold from your own land being your own master. Investing his own capital in addition to support from KVK, BV380 birds kept in hitech cages, other indigenous cows, indigenous poultry birds, ducks, dairy animals, two big ponds to support fish farming along with which agricultural and horticultural crops are grown makes Ajay's land a pleasant feast to eyes. He also has an eco-shop through which the marketing of his farm produces are done. He used to earn Rs. 1,03,000/- per annum, which increased to Rs. 2,20,960 with the support of ARYA project. Solely from B.V 380 poultry farming, he is earning at present an annual income of Rs. 1,50,625 per year.





BLACKGRAM FIELD DAY

Field day on integrated crop management in Blackgram was conducted by ICAR-KVK, Raichur in month of July 2022 at Purusottama Reddy's field of Bhagyanagar camp, Sirwar taluk, Raichur.

Yellow mosaic virus tolerant variety LBG-791 was demonstrated on paddy fallows under NFSM pulses. At outset, Dr. Shreevani, G.N., Scientist (Agril. Entomology) welcomed all the farmers who participated at field day programme and also informed the farmers about objectives of taking up such demonstration on pulses, particularly, blackgram. During the speech, Dr. Shreevani called upon the farmers to adopt Integrated Pest and Disease Management approach to manage pest and disease menace and to use bio-agents in Blackgram to augment productivity. Soil Scientist Dr. S.N. Bhat briefed varietal characters of different Blackgram including



LBG-791. Further, Dr. Bhat convinced the farmers to go for pulses as second crop on paddy fallows by taking advantages of residual soil moisture and nutrients and also suggested to use chemical fertilizer based on soil condition rather than mere dumping in order to increase net return. Dr. Hemalatha, K.J., Scientist (Horticulture) and about 35 farmers were present during occasion.





Celebration of World Breastfeeding Week-2022

ICAR-KVK, Ramanagara organised “World Breastfeeding week 2022” on the theme “Step Up for Breastfeeding: Educate and Support” at Chandurayanahalli, Magadi taluk. Dr. Lata R. Kulkarni, Senior Scientist & Head, ICAR-KVK Ramanagara highlighted about the importance of breast feeding, nutritional benefits of feeding breastmilk to newborn, health benefits to mothers.

Also highlighted about significance of colostrum and nutritional requirements for pregnant women, lactating mothers and infants and use of healthy regional foods in daily diet. Mr. Surendra, B.L., CDPO, Magadi briefed about various government schemes of the department & highlighted about the importance of supplementary foods given through Anganwadis and urged to make use of it for better health. Mrs. Vinutha Bai, ASHA Worker, informed about the vaccination

schedule, Deworming, Mother Cards and other schemes. Dr. Sowjanya, S., Scientist (Agril. Extension) briefed about the care to be taken for new-born and lactating mother and feeding mothers. More than 20 participants participated in the programme and were benefited.



Training programme on Nutri-Garden to ensure nutritional security

ICAR - Krishi Vigyan Kendra, Shivamogga organized training programme under FLD on “Nutri-Garden to ensure nutritional security.” Dr. Jyoti M. Rathod, Scientist (Home Science), KVK Shivamogga, explained about Nutri-Garden programme, role of fruits and vegetables in human diet, benefits and nutritional importance of Nutri-Garden. She also gave information about balanced diet, three main food groups such as bodybuilding foods, energy yielding foods

and protective foods. In detail she explained about daily requirement of fruits and vegetables for childrens and adults, Importance of healthy foods and health tips to combat malnutrition. In the training Dr. Pooja, G. K., SRF (ARYA), School Head and Teachers were also present. At the end of training session, participants interacted with the resource persons related to Nutri-Garden concept. Totally 63 participants were benefitted from this training programme.





Training and vegetable seed kit distribution under SCSP programme

ICAR - KVK Trivandrum has been conducting several programmes for promoting household nutritional security among backward communities and economically weaker sections of the society. Most of these people are either agricultural labourers or earn their livelihood by doing petty jobs and have only marginal land holdings. Large scale farming is not possible for them using their meager resources.

Homestead vegetable cultivation utilizing the family labour is the best option for them to achieve household nutritional security. In this context KVK jointly with ATMA Thiruvananthapuram conducted training on vegetable cultivation in homesteads for SC farmers at Nemom Block Panchayath auditorium on 6th July 2022. Assorted vegetable seed kits made available to KVK from ICAR-IIHR, Bengaluru under SCSP programme were distributed to the participants

farmers during the training. SC farmers belonging to various panchayaths of Nemom Block along with the staff of Department of Agriculture attended the training programme.

The training programme was inaugurated by Smt. K.S. Preeja, President, Nemom Block Panchayath and the key note address was delivered by Smt. Jyothi V R, Assistant Director of Agriculture. The technical session was led by Smt. Manju Thomas, SMS Horticulture, ICAR-KVK Trivandrum. Best SC farmer and best student farmer from Nemom Block Panchayath were honoured during the inaugural session of the training and the honoured farmers were given the opportunity to share their experience in homestead vegetable cultivation with others so as to motivate others to take up vegetable cultivation in a scientific manner.



Management of Quick Wilt in Black pepper

Keladi Shivappa Nayaka University of Agricultural and Horticultural Sciences Shivamogga, Indian Council of Agricultural Research, New Delhi, ICAR-Krishi Vigyan Kendra, Brahmavar Udupi conducted FLD training cum demonstration on Management of Quick wilt in Black Pepper at Mattaru village on 03.08.2022.

Dr. Dhananjaya B, Senior Scientist & Head, ICAR-KVK Brahmavar briefed about the scientific cultivation practices of Black pepper and the constraints in Black pepper cultivation. Dr. Sachin U S, Scientist (Plant Protection), ICAR-KVK Brahmavar explained about the different management practices viz., physical mechanical & Biological methods used for management of quick wilt disease in black pepper. After the training programme method demonstration was also practiced on application



of Sahyadri Thrishool, Neem Cake, Trichoderma and also spray application of potassium phosphonate. Dr. Chaitanya H S, Scientist (Horticulture), KVK, Brahmavar. Smt. Mary Sequeira and John Avin D'souza, Progressive farmer and other beneficiaries were present in the programme.





► **Bio intensive Management of Fusarium wilt and white Fly in Udupi Jasmine**

Keladi Shivappa Nayaka University of Agricultural and Horticultural Sciences Shivamogga, Indian Council of Agricultural Research, New Delhi, ICAR-Krishi Vigyan Kendra, Brahmavar Udupi conducted FLD training cum demonstration on Bio intensive Management of Fusarium wilt and white Fly in Udupi Jasmine at Mattaru village on 03.08.2022. Dr. B Dhananjaya, Senior Scientist & Head, ICAR-KVK Brahmavar explained about the need of the trail and also the constraints faced by farmer in Jasmine cultivation. Dr. Chaitanya H S, Scientist (Horticulture), KVK Brahmavar explained about scientific cultivation of Udupi Jasmine.

Dr. Sachin U S, Scientist (Plant Protection), KVK Brahmavar trained the farmers regarding bio intensive management of different pest &

disease in Udupi Jasmine. After the training programme method demonstration on preparation of Sahyadri thrishool formulation & its application installation of traps were conducted for managing wilt & whitefly in jasmine. Total 22 farmers & farm women were present in the programme.





Farmers Field School on IPM in Paddy

Farmers Field School (FFS), a participatory and interactive approach to disseminate the technologies which gives the farmer an opportunity to learn through practical field activities. ICAR - Krishi Vigyan Kendra, Uttara Kannada, Sirsi organized first session of FFS on 25.7.2022 IPM in Paddy at Achave village of Ankola Tq, Uttara Kannada Distric. For this purpose groups consisting of 25 paddy growers were selected and the FFS Coordinator, Dr. Roopa S. Patil explained about the activities to be carried out during the entire cropping season in six sessions.

The aim of the FFS is to build the capacity of farmers to analyze paddy ecosystem, identify problems related to nutrients, insect pests and diseases, test possible solutions either through ITK, seed treatment, spraying, soil application and eventually adopt the practices that is most suitable to their location. Shri Balachandra Shetty, Achave Gram Panchayath Vice President made serious remarks about drastic



reduction in paddy area and migration of rural youths in search of jobs in cities.

Dr. Shivashenkaramurthy, FFS Co-cordinator and Scientist (Agronomy) highlighted the role of biofertilisers in yield enhancement and land preparation techniques. Method demonstration was conducted on seedling dip and spraying with *Pseudomonas fluorescens*, a biofungicide against paddy blast. Farmers were made aware about the benefits of ecofriendly management of insect pests and diseases.





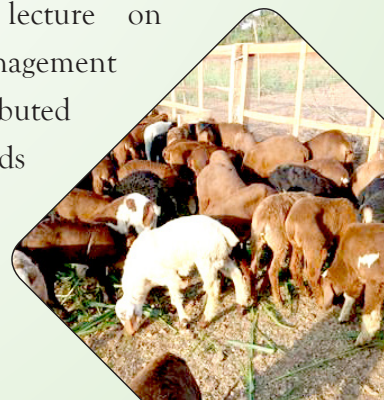
▶ NUTRI-FARMS

ICAR- KVK, Sirsi, Uttara Kannada organized training programme on Nutri-farmson 21.07.2022 at Bisilkoppa village on 21st July 2022, around 45 farm women were attended the programme. Dr. Ravi Y SMS (Home Science) welcomed the gathering and emphasized on importance of Nutri-farms.

Iron deficiency anemia and micronutrient deficiencies can be tackled by establishment of nutri-farmsto improve the household consumption of farm produce especially green leafy vegetablesand fruits and also improve their incomes. Created awareness on low cost food based approaches to combat malnutrition among farm women. The dietary intake of nutrients can be enhanced with establishment of nutri-farms. The chief guests for the day were Mr. Prakash Hegade, President of Watershed management of Bisilkoppa village, Chief guest addressed about the women empowerment in agricultural sector and motivated the women to take up



agricultural activities and role of women in agriculture and in society and also emphasized on importance of Nutri-farms in our daily life.laterMrs. Heena M S Scientist (Horticulture) delivered lecture on Nutri-farm layout and Management of Nutri-garden and distributed 17 types of vegetables seeds and seedlings.





Diagnostic field visit to Maize, Sugarcane and Pigeonpea fields

Diagnostic field visit was conducted to the field of maize, sugarcane and pigeonpea. In maize there was a severe infestation of fall army worm and suggested the farmers to install pheromone traps 5 per acre and take spray of emamectin benzoate @ 0.4 g/liter of water, In sugarcane field there is a problem of root grub and suggested to take application of Metrahitium @ of 5-6 kg per acre with 500 kg FYM and in pigeonpea there is a severe rainfall due to this the plants are getting yellow for that suggested to take drenching with Trichoderma @ 10gm per liter of water and spray 19:19:19 to the infected fields. The field visit was conducted by Dr. Shivalingappa



Hotkar Scientist (Plant Protection) and Dr. Vivek S Devernavadagi, Scientist (Agril Engineering) KVK, Vijayapur.



Dignitaries visit to KVK Indi



On 06.08.2022, Hon'ble Director of Extension, Dr. P.S. Hugar, Estate Officer Sri. Chavan of University of Agricultural Sciences, Dharwad and Associate Director of Extension Dr. R.B. Belli, Agriculture Extension Education Centre, Vijayapura made inspection of site for compound wall construction. Dignitaries visited the dragon fruit experimental plot, soil and water testing laboratory and farmers hostel at KVK, Indi. After the field visit a staff meeting was conducted and reviewed the progress of KVK Indi activities.

► Krishi Vichar Sankirana



As a part of Azadi ka Amrut Mahotsava, Krishi Vichar Sankirana was organized on 14.08.2022 at KVK Indi with collaboration of ATMA, Agriculture Department, Vijayapura. Firstly, Mango seedling plantation is made Honourable

MLA Shri. Yeshwantrarya Gouda Patil ji of Indi constituency and senior farmers at KVK campus. In this event 10 farmers who attained the age of 75 years were invited and felicitated in the event. These farmers shared their Agriculture, Horticulture, Sericulture, and Veterinary experiences. Honourable MLA Shri. Yeshwantrarya Gouda Patil ji spoke made introspection 75 years of struggle by freedom fighter, agriculture and historical significance of Indi region. In this programme more than 100 farmers were participated and the programme was broadcasted live on KVK Indi you tube channel.

► Celebration of 75th Independence day at KVK, Indi



75th Independence day celebrated at ICAR Krishi Vigyan Kendra, Vijayapura-II (Indi). Dr. Prema B. Patil, Senior Scientist and Head, hoisted the national flag followed by national anthem by all the staff members. Dr. Prema B. Patil, Senior Scientist and Head in her speech requested all the scientific staff to work for betterment of farming community and maintain cleanliness at office and field and experimental plots. After the event, sweet distrusted to all the staff members.





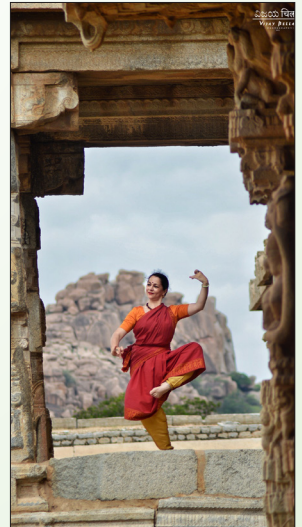
CROP SEMINAR ON OIL PALM

Crop seminar on palm tree was organized by Dept of Horticulture Shahapur in collaboration with 3 FOIL palm and University of Agricultural Sciences Raichur. The seminar was inaugurated by Dr. Channabasanna Dean, College of Agriculture Bheemarayangudi, UAS Raichur and The officials of Dept of

Horticulture graced the occasion. Detailed crop cultivation practices, pest and disease management and its processing was discussed during crop seminar. The Scientist from ICAR-KVK-Yadgir (Kawadimatti) participated as resource person and around 290 farmers were benefited from this crop seminar.



Namma Koppal



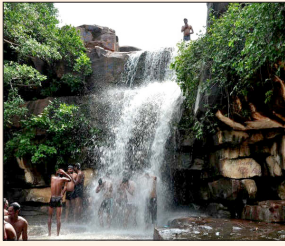
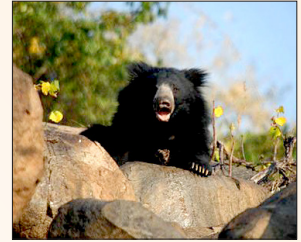


Photo courtesy:
Vijay Bellary



 **ICAR-Agricultural Technology
Application Research Institute**
Zone XI - Bengaluru, Karnataka - 560 024
e-mail: atari.bengaluru@icar.gov.in



ICAR-Krishi Vigyan Kendra, Koppal
University of Agricultural Sciences, Raichur
ARS Campus, Kanakagiri Road, Gangavathi-583227.
e-mail: kvk.koppal@icar.gov.in
Cell: 9480696316
Website: <https://kvkgangavathi.org/>

