



KVK TIMES



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

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MESSAGE

Krishi Vigyan Kendras are the extension pillar of NARS which impressively transfer research outputs of NARS organizations dovetailing with robust methodologies of KVKs to the fields. KVKs are progressing by systematically overhauling and redefining its core mandates to gravitate towards contemporary trends. The KVK network spread across the nation strives to upheave farm livelihoods with improved technologies and practices. Though KVKs have well framed mandates and activities, each KVKs undertake unique activities and programmes catering the local needs. Human resource development, technology mediated practices, location specific technologies evaluation, market linkage and entrepreneurial assistance are the thrust areas on which KVKs function. KVKs under Kerala Agricultural University contemplate new ways to integrate promising models for the agriculture sector targeting global competitiveness.

ATARI has made a laudable move to pen down a multitude of activities conducted by 48 KVKs of the zone on a fortnightly basis and publish regularly without any break. KVK times is a truncated document that explicitly includes activities allowing a quick glance of the contents which facilitate cross learning and adoption and give due recognition to the concerned scientist for their exemplary works. This fortnight publication could apparently enable KVKs to reflect, revise and remodel their activities on a comparative basis as well. I am pouring bountiful appreciation to the KVK fraternity for their unstinting support to the farming communities irrespective of all odds. I wholeheartedly appreciate the staff members of KVK Malappuram for engrossingly compiling and editing KVK times for the fortnight of October 1-15th, 2022. My best wishes to all for furthering impactful work targeting the nation's progress.

Dr. R. Chandra Babu
Vice-Chancellor,
Kerala Agricultural University



FORWARD

Technologies are pivotal instruments of development and agricultural technologies assume paramount significance in transforming the agriculture sector to a colossal extent. Krishi vigyan kendras are instrumental in transferring these hardware as well as software technologies to the farming community in impressive ways. The methodologies adopted by KVKs for transferring innovations to field are prudent and highly convincing to the end users. The trials and demonstrations are carried out in the farmers' field with participation of farmer beneficiaries specifically at the critical stages of the crop which aids in better visibility of the result. Beyond the conventional activities, KVKs are going extra mile in tapping the entrepreneurial potential of agriculture sector by providing 360 degree facilitation to farmer entrepreneurs and through networking and linkage support with entrepreneurship promoters and agencies. KVKs accelerate institutionalisation of scientific farming practices at field level and promote economic management of farms. .

KVK times is a fortnightly publication to display the multitude of activities and innovations brought by KVKs of Kerala, Karnataka and Lakshadweep, which essentially aids cross learning.

I acknowledge the guidance and support provided by Dr.R.Chandra Babu, Vice-Chancellor; Dr. Jacob John, Director of Extension and Dr. Jayasree Krishnankutty, Former Director of Extension, Kerala Agricultural University to KVK's for rendering their service to the farming community in a smooth way.

I appreciate the industriousness of Dr. Ibraheem Kutty and his team from KVK, Malappuram in bringing out this issue of KVK times in a subtle manner. All acknowledgements to the strenuous efforts of KVKs of the zone in demonstrating their signature programmes in leveraging the income and livelihood opportunities of stakeholders of agriculture sector. I wish the publication and staff of KVK Malappuram a great success.

Dr. V. Venkatasubramanian
Director,
ATARi, Bengaluru



MESSAGE

KVKs have evolved myriad times since its inception in 1974. The evolution is triggered by rapid changing needs of its wider clientele base and technological advents. These methodological adaptations and innovations upkeep the relevance of the institution till date. KVKs strive to empower farming community through capacity building and awareness creation of technological solutions, improved management alternatives, entrepreneurial avenues and hand holding support to create a level playing field for the farmers with their cross-sectoral counterparts. Location specific approaches of KVK assist the farmers to make informed decisions in production and post production operations considering comparative advantage on case basis and thus reap assured income. Apart from mandated activities, each KVKs develop and implement their own interventions and techniques based on the need of the location. The staff of KVKs deserve abundant appreciation for commissioning worthwhile programmes for the betterment of agriculture.

KVK times, one of the monumental initiative of ATARI, Bangaluru, serve as an excellent medium to share those innovations regularly with other KVKs and stakeholders of the zone.

KVK times issue of October first fortnight is an eloquent testimony of the meticulousness put forward by staff of KVK Malappuram in publishing the edition ardently. I congratulate Dr. Ibraheem Kutty, Head, ICAR-KVK, Malappuram and staff members for bringing out the edition in a time bound manner.

Dr. Jacob John
Director of Extension,
Kerala Agricultural University



ACKNOWLEDGEMENT

A single leaf working alone provides no shade... Dalai lama XIV once said the roots of all goodness lie in the soil of appreciation for goodness. It is with great respect and devotion that I place on record my deep sense of gratitude to our Honourable Vice Chancellor Dr. R. Chandra Babu for his invaluable guidance, adeptness and virtuosity to provide an enriching environment in materialising our visions to serve the farmers.

I am immensely indebted and express heartfelt thanks to Dr. Jacob John, Director of Extension KAU and Dr Jayasree Krishnankutty M., Former Director of Extension, KAU who provided encouragement and stake all the way and supported during critical situations with timely interventions which decimated the difficulties encountered in the incredible journey of KVK Malappuram.

It is a great occasion for me to express my deep sentiments and legitimate regards towards Dr. V. Venkatasubramanian, Director ATARI, Bengaluru for the valuable suggestions and adding varied dimensions to the KVK activities. I express my sincere gratitude to Dr. M J Chandra Gowda Scientist, Principal Scientist ATARI and Nodal officer, KVK Malappuram, for sharing his valuable insights and scientific understanding with us.

I am obliged to the team of ATARI, Bengaluru for presenting us the opportunity to record and document the KVK activities of Zone XI in the first fortnight of October 2022.

The compilation is made possible by the cooperation of all KVKs of zone XI in a time bound banner. I am beholden to each and every member of the KVK family, Bengaluru zone.

Most importantly, I am grateful and fortunate enough to get an absolute team in KVK Malappuram under the enthusiastic leadership of Dr. Jasna V. K. (SMS Agri. Extension) who put forward incredible efforts to compile, edit and publish this issue of KVK times.

Not least of all, I am profoundly indebted to the ultimate clients, the farming community of Malappuram district who constantly provide feedback and enriching suggestions to water the continuous improvement of KVK services by focusing on pressing challenges and paramount opportunities.

Dr. C. Ibraheem Kutty
Programme coordinator,
ICAR KVK Malappuram

TRIBUTE

October first fortnight issue of KVK times is paid as a tribute to Mahatma Gandhi to commemorate his life and legacy.



Mahatma, the man whose spirit has an immortal validity and its flame reverberates with all the glow... The man whose legendary memory is enshrined in the millennial epoch.....The man who admired farmers and valued farming with utmost reverence...Let the world bravely tread the path ahead upholding his imperishable teachings and ideals of nonviolence...



Gandhi's Talisman

"I will give you a talisman. Whenever you are in doubt, or when the self becomes too much with you, apply the following test. Recall the face of the poorest and the weakest man [woman] whom you may have seen, and ask yourself, if the step you contemplate is going to be of any use to him [her]. Will he [she] gain anything by it? Will it restore him [her] to a control over his [her] own life and destiny? In other words, will it lead to freedom for the hungry and spiritually starving millions?"

Then you will find your doubts and your self melt away."

One of the last notes left behind by Gandhi in 1948, expressing his deepest social thought.

Source: *Mahatma Gandhi - The Last Phase, Vol. II (1958), p.65*



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Tirur Betel and Edayur chilli capture grandeur and glory

Malappuram, the lands of hills, upholds a radically distinctive position in multiple realms. Contributions made by the district to enrich the cultural heritage of Kerala are phenomenal. Recently, reception of Geographical Indication (GI tag) for Tirur Vettila (betel leaf) and Edayur Chilli has further brought fame and fortune to the district. Both these are strong GIs owing to their distinctiveness attributed to geography linked genetic makeup and so given, replicability is sturdily limited. GI status for Tirur betel and Edayur Chilli has been received through the concerted efforts of IPR Cell of Kerala Agricultural University, State Department of Agriculture Development and Farmers' Welfare and farmers of Tirur Vettila and Edayur Chilli. Krishi Vigyan Kendra Malappuram has made noteworthy contributions in the achievement through sensitization and mobilization of farmer groups and facilitation support.

Tirur Vettila, first of the duo, produced in Tirur and nearby areas of Malappuram district (Tirur, Tanur, Tirurangadi, Kuttippuram, Malappuram and Vengara block panchayaths) is unique for its remarkably high content of total chlorophyll and protein in fresh leaves. Eugenol content, antioxidant properties, shelf life and pungency of Tirur betel leaf are strikingly superior to the other cultivars. Tirur Vettila Ulpadaka Sangam is the registered proprietor for this GI-product. Puthukodi and Nadan are the commonly grown betel vine cultivars in Tirur area of Malappuram district. Puthukodi cultivar is grown as a pure crop as groups/clusters (Kootams) i.e., 'kootakodi' system. The leaves of Puthukodi are mainly marketed to other countries (Pakistan, Afghanistan and Bangladesh) and other states. Nadan cultivar is mainly cultivated as an intercrop in coconut and arecanut



gardens which provide support to betel vine. This system is known as 'ottakkodi'. The acquisition of GI status opens up new avenues for marketing and value addition. Vast opportunities in the pharmaceutical and cosmetic industry are underlying to intensify the benefits. KVK Malappuram has centered its activities on Tirur betel in

order to tap the opportunities. Faculty of KVK were ingeniously involved in preparing the documents required for GI application. Besides, the centre has conducted Front Line Demonstrations and On Farm Trials to improve the quality of betel leaves and efforts are being taken for exploring the potential of value addition in betel leaves by developing value added products such as betel leaf spread papad, betel leaf essential oil etc.



A local chilli cultivar grown in Edayur, Athavanad, Marakkara, Irimbiliyam, Kalpakanchery and Valanchery panchayats in Valanchery block and Moorkanad and Kuruva panchayats in Angadippuram block of Malappuram district, Edayur chilli has obtained an inimitable status after getting awarded with GI tag. Edayur chilli owns a cultivation history of 150 years in the area, possesses characteristically low pungency levels which makes it extremely befitting for making 'fried chilli and " Kondattom" (sun-dried-curd-chillies). The less pungent Edayur chilli has a special taste and flavour. In each homestead of Valluvanaadu and nearby places there is no meal without Mulaku Kondattom. Edayur Chilli gardens are a common sight in this area during the months of April till December. GI registration helps the local product to earn greater access to domestic and international markets. KVK Malappuram strives to upkeep the quality of Edayur chilli by regularly providing scientific know-hows through field visits, training classes and conducting FLDs on crop production and



protection aspects. KVK has been instrumental in mobilizing the chili farmers by forming farmer groups to streamline the value chain activities through backward and forward integration.

Albeit tirur betel and edayur chili are the new GI additions, Nilambur teak was the first of its kind from the district to receive GI status for its most demanded properties of toughness, earthy color, large size, resistance to fungal degradation and rich antioxidant content, making it an excellent choice for building materials. The GI designation was bestowed by the Kerala Agricultural University's Intellectual Property Rights (IPR) Cell in collaboration with the Nilambur Teak Heritage Society.



ICAR-KVK MALAPPURAM

Polika - Farmer scientist interphase

To transform the lives of destitute, ICAR-KVK Malappuram together with Puzhakkattiri Grama Panchayath has organized a special programme 'Polika' targeting the Scheduled caste population in particular; at Puzhakkattiri on 15th October 2022. The programme adopted a multifaceted approach to instil idea of scientific farming and nutritional security in them. Farmer- Scientist interphase, training sessions, seedling and input kit distribution were the major activities. The programme was organized as a part of "njangalum krishiyilekku" campaign initiated by the Government of Kerala. KVK Scientists Dr. Ibraheem Kutty C. (Programme coordinator KVK cum SMS Animal Science) Dr Najitha Ummer (SMS Plant protection), Dr. Jasna V. K., SMS (Agri. Extension), Smt. Babitha (Agricultural Officer, Puzhakkattiri), 60 farmers, other staff from Agriculture department and Grama Panchayth officials participated in the programme.



Economic feeding strategies to establish profitable dairy ventures

Training programme on 'vitality of adopting economic feeding strategies in dairy animals' were conducted for dairy farmers in connection with "Ksheera Karshaka Sangamam" (Dairy farmers meet) and cattle show organized by Dairy development department and Vengara block at Pukayoor on 11th October 2022. Around 200 farmers attended the class cum discussion handled by Dr. Ibraheem Kutty, Programme coordinator, wherein the need for changing the animal production scenario with the primary focus of effectively utilizing locally available and low cost feeding materials was emphasized. The highly promising result from the FLD being conducted by the KVK, for reducing the feed cost and health issues was illustrated and very well appreciated by the farming community.





In the context of extensively observed Kera Raksha week programmes of Department of Agriculture and farmers Welfare, scientists and other technical staff of KVK handled classes at various Krishi Bhavans. The viciousness of price inadequacies and any other explicit and implicit crises, seldom erode coconut farmers' fondness towards coconut cultivation and



management. Hence, Kera Raksha week is celebrated every year to ensure scientific management of coconut palms and the duration of the programme is now extended to one month for better impact. Accordingly various aspects of cultivation, management and disease control measures are dealt in the classes arranged exclusively for coconut farmers.

Mushroom cultivation as a promising enterprise to raise additional income

Capacity building programme on "Mushroom Cultivation" was organized by the KVK on 1st October 2022. Twenty farmers were trained for Oyster mushroom and Milky mushroom cultivation and nutritional importance of mushrooms. Hands on sessions on mushroom bed preparation was also carried out. Dr. Lilia Baby, Assistant Professor, KVK Malappuram handled the sessions. he farming community.



Cleaning drive organized as a part of swatchatha campaign

Starting from October 2nd Various cleaning activities were carried out in and around KVK main office, adjoining roads and cultivation fields. A day (7 th october) was specially dedicated to evoke the ethos of swatchatha, wherein all KVK staff members actively participated in cleaning the office in-house and the premises. In all the training programmes being conducted during the month, one session is dedicated for Gandhi Darshan and the significance of swatchatha activities.



Family farming for less food miles

For inculcating the concepts of less food miles and safe food through family farming the KVK conducted a family farming awareness program for 140 students of the DQRS, Alathiyoor. Students were exposed to organic recycling, traditional wisdom in family farming,



promising varieties for family farming and various eco technologies. Sri. Abdul Jabbar PK lead various sessions. The program was inaugurated by Dr.Ibraheem Kutty.C , Program Coordinator of the KVK.

OISCA International Award

Sri. Abdul Jabbar PK , Assistant Professor(Agricultural Extension) received the OISCA International award 22 for agriculture. The award was distributed in the green earth convention held at Palakkad .



Supporting farmer innovator through Innovation Museum at KVK

The farmer innovation museum of KVK has been spearheading various farmer innovations. An innovation developed by Sri. Manoj Mangalam for dehusking coconut was witnessed by KVK Scientist Sri. Abdul Jabbar PK and efforts are on to support the innovator with documenting the innovation with the NIF.



ICAR-KVK ALAPPUZHA

Upland paddy cultivation gaining popularity in Onattukara region

Paddy cultivation in low lying areas of coastal parts of Alappuzha district is getting declined due to the salinity caused by sea water intrusion and higher cost of production. Hence upland paddy cultivation in homestead coconut gardens during the monsoon season is promoted by KVK-Alappuzha. A Front Line Demonstration on 'Upland paddy cultivation using modified drum seeder' in the coastal panchayath of Muthukulam with the participation of 20 farmers in convergence with MNREGS in an area of 2 ha was taken up during this year. Medium duration paddy variety Uma was sown using modified drum seeder, and integrated crop management practices were demonstrated. Modified drum seeder requires only two laborers compared to 8-10 laborers in the traditional system, thus reducing the cost of sowing. Harvest of the first batch of FLD plots was done on 13th October, 2022 in the presence of Dr. P. Muralidharan, Head, KVK, Sri. Rajeev M S, SMS (Agronomy), Smt. Soumya, MNREGS coordinator and about 30 partner farmers. Partner



farmers opined that labour saving machines like modified drum seeder will help to revive the paddy cultivation.

Mahila Kisan Diwas celebrated



Mahila Kisan Diwas was celebrated by KVK-Alappuzha with vivid programmes at Thrikkunnapuzha grama panchayath. Sri.S.Vinodkumar, President, Grama panchayath inaugurated the programme. Dr.P.Muralidharan, Head, KVK delivered the keynote address highlighting the important role played by women in agriculture and allied sectors. Mr.S.Sujith, Chairman, Development Standing Committee presided over the function. Mrs. Ammini.M., a septuagenarian farm woman who was engaged in coir

making from coconut fibre for over six decades, was honoured in the function.

Farm women shared their farming experiences and staged their talents through entertainment programmes. Mrs.Devika, Agricultural Officer explained various programmes of the Dept of Agriculture for farm women. Dr. T. Sivakumar, Dr.K. Sajnanath, SMSs, KVK and Mr.Rajesh, Agrl. Asst., Krishi Bhavan also spoke in the programme. About 65 farm women representing different JLGs actively participated in the programme.



ICAR - KVK BAGALKOTE

Off Campus Training at Marikatti Village of Mudhol

An off campus awareness programme conducted on 07.10.2022 about Silage Making and its importance to FLD Farmers of Marikatti Village. Dr. Venkanna Balaganur Scientist (Animal Science) explained to farmers about process of Silage preparation and its importance during off season/Summer. A total of 13 Farmers got benefitted from this programme. On this day FLD on preparation of Silage from Sugarcane tops was implemented.



Off Campus Training at Mallapur Village of Bagalkote

An off campus awareness programme conducted on 08.10.2022 about Tuberose production technologies of Mallapur Village. Dr. Airadevi Angadi, Scientist (Horticulture) explained to FLD farmers about detailed process of tuberose Cultivation and its marketing. Dr. Sudha, Scientist (Plant pathology) explained about different diseases affected to tuberose and vegetables and their control measures. Method demonstration on installation of pheromone traps was demonstrated to the farmers.



Awareness programme on Weather based Agriculture



An awareness programme was conducted on 07.10.2022 to Marikatti Farmers of Mudhol. A total of 13 farmers participated and got benefit of this programme. Mr. Basavaraj Nagaleekar (SMS Agrometeorology) 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 weather-related mobile applications like Meghdoot, Mausam, Damini.



Krishi Sakhi Training Programme

SANJEEVINI- Karnataka State Rural Livelihood Promotion Society, Department of Skill Development, Entrepreneurship and Livelihood, Government of Karnataka in Collaboration with University of Agricultural Sciences, Dharwad, ICAR-Krishi Vigyan Kendra, Bagalkote organized six days training programme Krishi Sakhi from 10.10.2022 to 15.10.2022 at Krishi Vigyan Kendra, Bagalkote. Shri C. R. Mundaragi, Project Director, Zilla Panchayat, Bagalkote inaugurated the programme and explained about several ways to attain higher productivity like, New technologies, developing Varieties and Hybrids, Organic farming, Animal husbandry, Integrated farming system and soil water



Kammar, Sr. Scientist & Head President of the event delivered inaugural address and explained about how these trainings will help to improve their/Sakhis standard of livelihood, boost self confidence and welfare of farmers. Dr. Dinesh Kumar S.P. Scientist (Agronomy) Briefed about the programme. Dr. Sachin Machaknur Senior Assistant director of Horticulture, Bagalkote briefed to trainees about different schemes available in Horticulture Department like, MGNAREGA Scheme, National Horticulture Mission, National food and oil Scheme, Irrigation, Intercrops and Mulching Schemes. Dr. Preeti Teli Assistant director of Agriculture, Explained to trainees about one district one product and urged farm women to make use of these programme. Shri. Bheemanand Shetter, District Coordinator (NRLM), Shri. Gopal Gadegennavar, District Programme Coordinator, (NRLM), Shri. Sanjeev Uddar, Taluk Programme Coordinator, (NRLM), Taluk Panchayat Hungund Participated in this programme. A total of 35 Krishi Sakhi trainees of Mudhol, Rabkavi-Bannatti, Hungund and Jamkhandi Talukas, were participated in this programme. All KVK Scientist, staff Bagalkote were present on this occasion. The valedictory was organised on 15.10.2022 and certificates were distributed to them. The sakhi training programme was coordinated by Dr. Mouneshwari R. Kammar and Dr. S.C. Angadi.

conservation techniques, He emphasized it is necessary to adopt these techniques in Farming System to increase agriculture food production he opined that these trainings will help to rural farm women through trained krishi sakhis in future. Dr. Mouneshwari R.



Mahila Kisan Diwas Celebration

Mahila Kisan Diwas was celebrated at KVK Bagalkot on 15.10.2022 involving krishi sakhis who were on six days training at KVK Bagalkot. The trained sakhis conducted programme explaining the importance of agriculture, role of education in keeping updated knowledge in agriculture, Dr. Mouneshwari R Kammar Sr. Scientist and Head explained the role of women in agriculture. Dr. Sudha S. expressed that will power and confidence can boost the life quality. Dr. Airadevi expressed that knowledge is power. Sakhis were allowed to host and execute this programme. Dr. S. C Angadi Coordinated this activity, All the staff of KVK were present on this occasion.



ICAR - KVK BELAGAVI-1

Horticulture nursery as profitable enterprise for farm women's SHG



ICAR BIRDS Krishi Vigyan Kendra, Belagavi-1 undertaken one day on campus training on "Horticulture Nursery as Profitable Enterprise for SHG farm women's" from Paramanandawadi, Mudalagi taluka, Belagavi district. Objective of the training programme is to know the components and criteria required for establishment of horticulture nursery. Nursery components are laid out based on the major crops of the taluka and interest of groups with above objectives. In order to motivate the group training was instituted by discussing the scope, importance and economics of the Horticulture Nursery. Imparting knowledge on various activities like propagation Mango through grafting, Guava air layering and Vegetables, Sugarcane through seedlings production in portraits and also ornamental plant propagation techniques (Cuttings and Layering). Based on the motive of the training programme above enterprise activities were carried out. This training programme gives a confidence to 30 SHG farm women's, who participated in the training to earn better livelihood in Horticulture planting materials production as free time group work in SHG and helps to get a financial sustainability.



IIHR-Bengaluru vegetable hybrid demonstration under SCSP program

ICAR BIRDS Krishi Vigyan Kendra, Belagavi-1 organised a series of programs under demonstration of IIHR Bengaluru SCSP program vegetable hybrids at Dandapur village of Mudalagi taluka, Belagavi district. Objective of the Demonstration and Training programmes is to strengthen the livelihood of schedule cast farmers through demonstration of high yielding disease resistant IIHR vegetable hybrid. Conducted group discussion to know the problems in vegetable production and also note down the interest of the farmers towards new vegetable hybrids. Followed by the group discussions organised above training for IIHR Vegetable seed distribution and discussion on production practices of vegetable. During the program vegetable seed of Tomato (Arka Samart), Chilli (Arka Khyati), Palak (Arka Anupama), French bean (Arka Arjun), Dolichus Beans (Arka Jay) are given to beneficiaries of the program. Discussion was made on the package of practices of Tomato, Chilli, Palak, Dolichus bean, and French bean. Significance and yield potentiality of IIHR hybrids are explained during the program. This Demonstration and training programmes give a confidence to 20 Schedule cast farmer, who are the part of the Demonstration to earn better livelihood in vegetable production with disease resistant and high yielding IIHR hybrid.



ICAR - KLE KVK, MATTIKOPP, BELAGAVI-II

Mahila Kisan Diwas



KVK organized Mahila Kisan Diwas on 15 October, 2022 at Markumbi, Savadatti taluk. The programme was inaugurated by Smt. Sridevi P. Narasannavar, President, Gram Panchayat, Markumbi addressed the gathering on role of farmwomen in agriculture. The quantum of energy put in by the farm women is not released and its drudgery prone activity. The activities farmwomen indulged are drudgery prone. Some of the drudgery reducing equipments have been described at ICAR/ Institutes/SAUs which helps them to do agriculture activities hassle free. S.M. Warad, Scientist (Soil Science) expressed that farm women are perfectly capable of performing agriculture activities as equivalent to men but there are some health and safety risks that farm women needs to fail like pesticides exposures, fatigue, livestock related injuries while milking etc. The farm women needs to be thoroughly educated for consuming nutrition food, best practices in agriculture and clean milk production practices for more productive outcome.



Swachhta Abhiyan Special Campaign 2.0

KVK organized Swachhta Abhiyan Special Campaign 2.0 in Koladur, Sutagatti, Kollanatti, Sangeshikopp villages. This drive was formulated to make them clean. This campaign was launched on 2nd October 2022 in order to honour Mahatma Gandhi's vision of a Clean India.



The campaign's main objective is to create awareness among the farmers, KVK is giving priority and responsibility towards cleanliness, focus on eradicating unhealthy practices and provide basic sanitation facilities by giving tracing on solid-liquid waste disposal systems supplying clean drinking water etc. ICAR KLE KVK staff dedicated 100 hours/year to the mission. KVK initiated method demonstration, trainings for microbial based agriculture waste management using vermicompost techniques. Organized various awareness programme at village level on crop residue management. KVK provided orientation programme to the school children on different topics like hygiene, sanitation and cleanliness. KVK staff members involved in cleaning of office, campus and disposal of scraps etc. The Swach Bharat Abhiyan a truly unique and it is great accomplishment for our nation as we continue to do our part to keep office and surrounds clean and beautiful.



Training Programme for CADA farmers

KVK organized two days on-campus training programme on Agricultural Technologies to command area farmers of Malaprabha Irrigation project during 13-14 October, 2022. The programme was inaugurated by Mrs. Sridevi B. Angadi, Senior Scientist & Head, KLEKVK, Mattikopp. During the technical session, Mrs. Sridevi B. Angadi delivered lecture use of drudgery reducing equipments.



S.M. Warad, Scientist (Soil Science) spoke on command area development and irrigation management, roles and responsibility of water user co-operative societies, reclamation of saline and alkaline soils and organic farming and INM practices. G.B. Vishwanath, Scientist (Agronomy) dealt on agronomic practices of cotton, maize, jowar, wheat and bengal gram. Dr.S.S. Hiremath, Scientist (Plant Protection) interacted with farmers on IPDM in cotton, maize, jowar, wheat and bengal gram. Praveen Yadahalli, Scientist (Horticulture) highlighted production technologies of banana and chilli. Fifty command area farmers from Bailhongal taluk participated in the training.



Celebration of World Food Day



KVK celebrated 'World Food Day' on 16 October 2022 at KVK campus on the theme "Leave NO ONE Behind". S.M. Warad, Scientist (Soil Science) explained the aim is to build a sustainable world where everyone has to access to enough nutritious food. Hence, it become compulsion to educate farmers towards cultivation of high yielding varieties of cereals, pulses to intake action towards inclusion self sufficiency in food grain production to combat hunger and to endure healthy diets for all. Shri.G.B. Vishwanath, Scientist (Agronomy) explained about the salient features of recently released high yielding varieties of cereals, pulses and oil seed crops. He also briefed the farmers on bio-fortified varieties of crops which are rich in minerals to support balanced nutrition.



Shri. Praveen Yadahalli, Scientist (Horticulture) interacted with farmers on need and method of adoption of nutrition-gardens in the backyard of residences to support balanced nutrition of the families.

ICAR - KVK, BIDAR

Capacity building programme for Krishi Sakhi's

In order to orient about the ground situations at farmer field level to the Krishi Sakhi's a six days capacity building programme on "Agro ecological practices" was organised at KVK Bidar from 06th September to 11th October 2022. It was second of its kind. This was organised in collaboration with Zilla panchayat Bidar under Sanjivini – Karnataka State Rural livelihood society. The event was inaugurated

Rural livelihood society, Zilla Panchayat Bidar and other officials of KSDA department Bidar have witnessed the occasion. The participants were rural women identified each at panchyat level from Bhalki Taluka of Bidar District, Karnataka.



Smt Razia Balbatti, community development consultant and chairman for District Child protection centre, Bidar by watering to the plant, further she addressed about new assignments and responsibilities of the Krishi Sakhis in bringing the change in knowledge perception of the farmers about new technologies and their adoption level with creating awareness about the new policies and programmes of the government for the welfare of farming community. The programme was designed to give information in classroom and field exposure in order to throw light on the eco friendly practices like building up of soil fertility, selection of good seeds and seed treatment, soil and water conservation practices, nutrition and their sources, establishment of nutri gardens and orchards, Livestock management, Dairy, eco friendly plant protection measures along with soft skills to facilitate and acting as bridge between the farmers and officials. A total of 24 classroom and field teaching along with visit to the different farmer's field to know how about the technologies. The senior scientist & head, Dr. Sunilkumar N.M. in his presidential remarks urged the participants to learn about the practical utility and implementation of the technologies. Sri Jaganath Murthy, Project Director for Sanjivini – Karnataka State



ICAR - KVK, CHAMARAJANAGARA

Capacity building programme on Integrated crop management in Chickpea

A capacity building programme on Integrated crop management in Chickpea was organised at ICAR-Krishi Vigyan Kendra, Chamarajanagara on 10.09.2022 under CFLD pulses, Dr. Shruthi, M. K., Scientist (Agronomy) educated the farmers about selection of disease resistant varieties and accentuate the significance of biofertilizers, Rhizobium and PSB through seed treatment method demonstration. Information pertaining to entire package of practices to be followed for chickpea cultivation was provided to the farmers. Main practices emphasized were micro nutrients, foliar nutrition and integrated pest and disease management.



Capacity development programme on natural farming



A one-day Natural Farming training programme was conducted in collaboration with the J.S.B. Trust, Kollegala, on 12.10.2022 at ICAR, KVK, Chamarajanagara. The programme was inaugurated by Amshi Prasanna Kumar, Social thinker and writer, who in his speech emphasized the deleterious effects of expansion of urban areas on farming. The programme was presided by Dr. Yogesh. G.S., Senior Scientist and Head, ICAR KVK, Chamarajanagara who enlightened participants regarding eco friendly practices to be followed and adopted for sustaining natural resources. The resource person Dr. Manjunatha. H, Natural Farming Scientist, Gandhi School of Natural Farming, Tumakuru, deliberated various aspects of Natural Farming like essence and key practices of Natural Farming and also the role of Natural Farming in combating climate change. He presented the success stories of adoption of Natural Farming to the participants. Dr. Shruthi. M.K, Scientist (Agronomy) explained the principles and practices of Natural Farming. Mr. Rajath H.P., SMS (Agromet) highlighted the aspects of climate risk monitoring and adoption strategies. Miss. Supriya. N.S., Scientist (Agril. Extension) formed Whatsapp group of Natural Farming interested farmers and documented their current management practices adopted in farming.



ICAR - KVK, CHIKKABALLAPURA

Krishi Sakhi Programme

Krishi Sakhi Programme was organized at ICAR-KVK, Chikkaballapura from 10.10.2022 to 15.10.2022. Dr. M. Papireddy, Senior Scientist and Head along with scientists inaugurated the programme and emphasized on role of Krishi sakhis in dissemination of technologies to the farming community. Dr. Tanweer Ahmed, Scientist (Agricultural Extension) explained about the purpose



and importance of the programme. Technical sessions were conducted as per the schedule. Trainees were taken for exposure visit to GKVK, UAS, Bangalore. During the valedictory programme, Mr. Girija Shankar, Project Director, Zilla Panchayath, Chikkaballapura emphasised on role of Krishi Sakhis in dissemination of technologies to the farming community. 29 Krishi Sakhi benefitted from the programme. ■

ICAR - KVK, CHIKKAMAGALURU

Field day on Soybean (DSB-21)



ICAR-Krishi Vigyan Kendra, Chikkamagaluru organized Field day Programme on Soybean (DSB-21) on 14.10.2022 at Tadaga village of Ajjampura taluk. The programme was inaugurated by Dr. A.T. Krishnamurthy, Senior Scientist and Head, KVK, Chikkamagaluru, in his inaugural speech briefed that soybean crop is known as the "Golden Bean" and one of the richest and cheapest sources of protein. They are a good source of protein for diabetics and soybean oil is one of the most popular edible oil used in India and this crop can grow in a wide range of soils and this crop fixes the nitrogen and

to reduce nitrogen fertilizer use and which increases the yields. Further, he explained that this DSB-21 variety is high yielding, rust disease resistant variety and can be grown in wide range of soils and also encouraged the farmers to grow the soybean crop as a main crop. Shri. Girirajappa, Shri. Manjunath, Shri. Suresh and Shri. Thimmegowda, progressive farmers and beneficiary farmer of Tadaga village shared their experience in the programme and this programme was witnessed by around 30 farmers.



Valedictory of 3rd batch Krishi Sakhi training programme



ICAR Krishi Vigyan Kendra, Chikkamagaluru district has organized valedictory programme of Agricultural livelihood community resource persons (KRISHI SAKHI) 3rd batch training programme in collaboration with Mission Director, Sanjeevini-KSRLPS, Bengaluru on 01.10.2022 at KVK, Chikkamagaluru. Dr Krishnamurthy, A.T., Senior Scientist and head, KVK, Chikkamagaluru, welcomed the guests and in his introductory remarks briefed about the training programme conducted from 26.09.2022 to 01.10.2022. Further, briefed about the topics covered in these training programme like cultivation practices of Agricultural crops and horticultural crops, mushroom cultivation, dairy farming, integrated farming system, pest and disease and their natural management, beekeeping, nutrigarden, value added products and role of women in agriculture and also one day exposure visit to progressive farmers field and advised the participants to take advantage of all the training programmes organizing by KVK. Mr. Rajendra, K.K, District project coordinator, NRLM, Zilla Panchayath, Chikkamagaluru, graced the occasion as chief guests and in his speech explained that Krishi Sakhi

training programmes trained on Agro ecological practices under Farm based agriculture, pest and disease management, marketing linkages to sale the agriculture produces and this training is also to bridge the gap between rural farmers and agriculture experts and advised the participants to make utilization of this training programme for sustainable development. During this programme Dr. Shivaprasad, M, ADE, ZAHRS, Mudigere, in his presidential remarks briefed about six days Krishi Sakhi training programme and this training programme is a pool of identified Krishi Sakhi, who shall provide the basic technical support to the rural farmers. This will be developed through structured training programmes by the agriculture experts at Krishi Vigyan Kendra and also this will act as a medium of interface between agriculture department, KVK, Village level Extension workers and farmers. Certificates were distributed to the participants by the Chief guests. On this occasion Dr. Ganapathi, M, Senior Farm Superintendent, ZAHRS, Mudigere and Dr. Girish, R.,



Scientist (Plant Protection), Krishi Vigyan Kendra, Chikkamagaluru addressed the participants and graced the occasion and total 30 participants were got benefit out of this training programme. ■

ICAR - KVK, CHITRADURGA

Field bean Field day

Field day on Field bean was organized at the FLD field bean plot of Mr. Ninganaik of Halavudara village of Chitradurga taluk by KVK, Chitradurga on 03-10-2022.



Dr. O. Kumar, Sr. Scientist and Head, KVK presided over the programme and discussed about the importance of pulse crop in human health. He also briefed about the biological nitrogen fixation by the pulse crops with which we can reduce the application of nitrogenous fertilizers upto an extent of 20-25%. This pulse crop was grown during rabi season in earlier days but the newly introduced variety HA -4 can be grown well in all the seasons. The KVK as well as the Department of Agriculture are actively involved in popularizing the variety among the farming community in the district. This crop can be grown as a solo crop and also with Maize, Ragi and Ground nut as intercrop. It can be marketed as a vegetable as well as seed. He also suggested the farmers grow this crop and earn better profit.



Mr. Ninganaik, Progressive farmer opined that Avare grown as sole crop and it yielded 4t/ac in the first pinch and obtained total yield of 18-20t/ac green pods in all the 3 pinches and also observed that the growth of Avare has improved the soil health in his field.

Dr. S. Onkarappa, Scientist (Plant protection) and the farm leaders of Halavudara village Mr. Rangana gowda, Mr. H.S. Rudrappa were present during the programme.

Field Day on Castor



Field day on Castor was organized at Mr. Chandrashekar's FLD castor plot in Krishnapura village of Hiriyur taluk by ICAR-KVK, Chitradurga on 10-10-2022 in collaboration with AICRP, Castor, GVK and Department of Agriculture, Chitradurga. Dr. O.Kumar, Sr. Scientist and Head, KVK inaugurated the programme and briefed about the suitability of dwarf castor variety ICH-66 to the low rainfall areas. This crop can be grown as an alternative for groundnut, this crop can be adopted very well in very low rainfall areas and can yield better and earn good profits. Farmers should show interest in adoption of new technologies and castor has lot of demand various industries. Dr. Yamanur, Junior Breeder, AICRP, Castor, GVK also briefed about the various uses of castor such as soap making, engine oil preparation and lipstick making industries



After extraction of oil from castor the oil cake can be used in agriculture. He also briefed about the varietal characteristics of the dwarf variety ICH-66. Dr. Mohan Kumar, Agronomist, AICRP, Castor, GKVK, discussed about the cultivation practices for the ICH-66 castor variety. Mrs. Ulfath Zaiba, Assistant Director of Agriculture, participated as chief guest during the programme and briefed about various activities of Department of Agriculture, suggested the farmers to go for the cultivation of castor and she also discussed that castor is being called as the Black gold. Dr. S. Onkarappa, Scientist (Plant protection), Dr. Rudramuni, Farm Manager, Mrs. Geetha Kumari B N, Programme Assistant, Agriculture officer Mr. Kiran Kumar and the staff of RSk, Dharmapura and the farm leaders of Krishnapura village Mr. Horakerappa, Mr. Manjunath were present during the programme. ■

ICAR - KVK, DAVANGERE

Live Phone in Program at AIR



Live phone in program was organized by All India Radio, Chitradurga, on the topic "Preparedness for the rabi Season". Mr. B.O Mallikarjuna, SMS (Agronomy) and H.M Sannagowdru SMS (Soil science) attended the program and answered the queries from the farmers. Nearly 13 farmers interacted with the subject matter specialists regarding the high yielding varieties of Bengal gram and sorghum, Integrated pest management, Integrated nutrient management and other relevant crops grown during the season. Also some queries regarding the present crops like redgram and groundnut.

Celebration of the Field day.

Mr. Mallikarjuna B.O SMS (Agronomy) explained to the farmers the good practices that have saved the crops and yielded during the Field day of Maize +



Redgram at Doddahabigere, Channagirtaluk . Farmers and Farm women participated in the program and harvested the maize cobs. Due to the Excess rains throughout the cropping season and water stagnation the crop yields are reduced to 20 percent. Implemented the FLD Maize (Pop Corn) + Redgram (TS-3R) at Doddahabigere, Channagirtaluk. 25 farmers were grown the redgram as a intercrop in Maize.

Balanced Feeding and Total Deworming in Small Ruminants



A one day training programme on 'Balanced Feeding and Total Deworming in Small Ruminants' was conducted by Dr. G.K. Jayadevappa , SMS (Animal Science) in ICAR-Taralabalu Krishi Vigyan Kendra, Davanagere for 10 selected Sheep and Goat rearing farmers from Nittur village of Harihara tq. In Davanagere District. During the training programme information on existing feeding practices from the farmers were

collected and suitable technologies were provided to improve the performance of small Ruminants especially on total deworming, feeding the animals based on their body weight, improving the feed conversion efficiency and disease control.

Integrated Management of Dairy Animals

Frontline Demonstration on "Integrated Management of Dairy Animals" is conducted by Dr. G.K. Jayadevappa, SMS (Animal Science) in ICAR-Taralabalu Krishi Vigyan Kendra, Davanagere with 10 Dairy Farmers from Hirekogalur Cluster of Channagiri taluk in Davanagere District involving 10 crossbred milk animals. Technologies like timely deworming, Balanced feeding of milk animals using enriched dry fodder, silage, compounded feeds and vitamins-minerals supplements were provided to enhance the quality milk production improved the animal health and reproductive performance.



Scientific field visit were made to observe the performance of animals after the implementation of technologies provided.

ICAR - KVK, DHARWAD

Training programme and technical advice to Horticulture FPO, Javoor



The Javoor Horticulture Farmer Producer Company was registered during last week of January 2022 with 430 members/ share holders under Department of Horticulture, Dharwad. It covers the villagers from Javoor, Shalawadi, Hebbal, Ballur, Tirlapur, Hanasi, Byalal, Shirkol, Morab, Daderkoppa and Tadal. The main crops of the area being cotton, greengram, chilli, onion, sugarcane, sunflower, chickpea and wheat, they have a plan to establish procurement, storage and processing unit for greengram. Dr. S. A. Biradar, Senior Scientist and Head, ICAR-KVK, Dharwad visited Horticulture FPO, Javoor on 27.09.2022 and participated in the training programme to bring awareness about the Integrated farming system and value addition. Dy. Director of Horticulture, Dharwad, Senior Assistant Director of Horticulture, Navalagund and President, Directors and Members of FPO, Javoor attended the training programme. More than 250 farmers participated in the training programme.

Field day on Groundnut var. Dh-256

ICAR-KVK, Dharwad conducted the field day on Groundnut variety Dh-256 under Frontline Demonstration on Demonstration on Groundnut variety Dh-256, in the field of Shri Shivanandagouda T. Murugennavar from Gudageri village of Kundagol taluk on 12.10.2022. Dr. B. N. Motagi, Breeder, AICRP on Oilseeds, UAS, Dharwad briefed the special features of Groundnut variety Dh-256. The variety matures in 110-115 days and gives yield of 32-35 q/ha. It is tolerant to drought and foliar diseases. It has more oil content and suitable for oil industries. This variety is suitable for cultivation both in Kharif/ Rabi/ Summer seasons. He also provided the information about agronomical practices of groundnut crop. Dr. Prasanna Kumar B. H., Scientist (Agronomy) explained about agronomical practices for increasing production and productivity. Dr. S. A. Biradar, Senior Scientist and Head, ICAR-KVK, Dharwad presided over the function and briefed the technologies transferred from KVK for doubling their income. Scientists of ICAR-KVK, Dharwad participated and interacted with farmers. About 38 Groundnut growers from Gudageri village participated in the field day.



Celebration of Mahila Kisan Diwas

ICAR-KVK, Dharwad celebrated Mahila Kisan Diwas on 15.10.2022. The farm women from different villages of Dharwad district participated in the celebration. Dr. S. A. Biradar, Senior Scientist and Head, ICAR-KVK, Dharwad oriented the women regarding new agriculture technologies which are gender friendly and labour saving. Dr. Geeta S. Tamgale, Scientist (Home Science) briefed the importance of this celebration and role of secondary agriculture in improving family income. More than 30 farm women participated in the programme. Home Scientist also



participated as resource person and delivered a lecture on "Importance of millets" during celebration of Mahila Kisan Diwas organized by Department of Agriculture, GoK, SAMETI (North), UAS, Dharwad, ICAR-KVK, Dharwad and SAMETI (South), UAS, Bengaluru. More than 450 members from different parts of the state participated in the programme. ■

ICAR - KVK, ERNAKULAM

Special Swachhta Campaign



Crop residue management demonstrated.

The KVK demonstrated crop residue management by vermicomposting at its Satellite vermicompost production unit Varappuzha, Ernakulam. Training on

Vermicomposting was conducted on 6th October 2022. Progressive farmers and Kudumbashree women SHG members attended.

Cleanliness and sanitation drive



The KVK conducted Cleanliness and sanitation drive at Vyttila in collaboration with Ramakrishna Mission Ashram on 6th October 2022. Swami Mahavirathananda inaugurated and Shri.Shoji Joy Edison, Subject Matter Specialist (Horticulture) handled technical session. The class was followed by campus cleaning and waste disposal. Progressive farmers participated.

Clean fish ponds to enhance production

Cleanliness in fish farming ponds is crucial in enhancing production. Higher Ammonia levels in fish ponds occurring primarily due to waste accumulation leads to mortality and considerably reduces production. Similarly clogged water screens in sluice gates reduce water flow affecting carrying away of the accumulated wastes. As part of the Swachh Bharat Abhiyan programme, a special cleaning drive was conducted in fish farming ponds at KVK campus on 10th October 2022. The excess humous deposition got cleared and water inlet gates cleaned. KVK staff and visiting farmers participated.



Abandoned public pond rejuvenated



The KVK in association with the Kadoopadam Chira samrakshanasamithy and Malsyakarshaka club, Mookkannoor rejuvenated a 2 acre abandoned freshwater pond near Mookkannur, Ernakulam on 13th October 2022. The pond that was used as potable water source in olden days was kept as a waste dumping yard prior to rejuvenation. Dr. P.A Vikas SMS (Fisheries), Shri. Biju M Luice, Aquapromotor, Fisheries Department, Shri. K.S Polachan, President of the Malsyaclub took lead while the Grama panchayath ward Member Sri. Raghavan, C.A inaugurated the rejuvenation programme.

ICAR - KVK, GADAG

Farmers scientist and interaction meet



Karnataka State Department of Agriculture and ICAR-K.H.Patil Krishi Vigyan Kendra, Hulkoti jointly

organized the Farmers-Scientist interaction meeting on 22-09-2022. Agriculture Department Officials of Gadag district, All Line Departments, Staff of ATMA, and KVK Scientists participated in the Interaction Meet. The experts / scientists detailed about the Rabi crops and their varieties suitable for dryland situation, pest and disease management and rainfall condition. On this occasion, the literature developed by ATMA, Gadag on "Successful Women Entrepreneur – Sheep and Goat Rearing" of Smt.Mangala Neelgund, Sreshta Krishika Awardee, 2022-23 was released. The award winner shared her success. Shri Jiulla, Joint Director, KSDA, Gadag, Dr.L.G.Hiregoudar, Senior Scientist and Head, ICAR-K.H.Patil KVK, Assistant Directors of Agriculture and District Heads of Line Departments and ATMA staff were present during the Interaction Meeting through the day.

Buyers-sellers meet on cashewnut



ICAR-K.H.Patil Krishi Vigyan Kendra has continued the facilitation of sale of raw cashew by inviting Cashew Processors for the second year also. On 24-09-2022, Shri Shekar Swamy, Mahalaxmi Cashew Processing Industry from Chikkodi was facilitated to procure the raw Cashewnuts at KVK Campus from Cashewnut farmers of Gadag district who are growing Cashew with the help and guidance of KVK and DCCD, cochin. KVK facilitated sale of 380 quintals of Cashew worth of Rs.44.84 lakhs belonging to 74 Cashew Growers. There was good interaction between Cashew Growers, Processing Industry Personnel and KVK Scientists regarding quality parameters to get premium price.

Capacity building of FPOs

ICAR-K.H.Patil Krishi Vigyan Kendra, Hulkoti, ICAR-Indian institute of Millets Research, Hyderabad and

Watershed Development Department, Government of Karnataka jointly organised training and capacity building for Board of Directors and CEOs of FPOs during 22-24 September, 2022 at Campus, Hulkoti. The programme was inaugurated by Dr.Sudha V. Mankani, SMS (Home Science). She briefed about the importance of organising the training and capacity building programme specially for FPO's Directors and CEOs. Dr. Sangappa, Scientist (Agri. Extn.) & PR of FPOs, ICAR-IIMR, Hyderabad briefed about the content and the importance of training programme for the FPOs. Shri.Narayan Bhandi, SMS (Soil Science) talked on FPOs role in Millet cultivation as well as millet processing. The various information on FPOs like farmers mobilisation, legal and roc compliances, books of accounts, business action plan etc was main content of the training programme. The exposure visit to FPOs, millet processing unit, oil processing unit at KVK campus and experience sharing by FPO Heads of Gadag district were organised. About 25 FPOs from Gulbarga, Koppal, Dharwad, Haveri, Bagalkot, Bijapur and Yadgir districts participated in the training programme. ■



ICAR - KVK, GONIKOPPAL

IIHR developed technical inputs distribution to SCSP farmers for livelihood support conducted at Kundacheri Gram Panchayath, Madikeri.

ICAR-Krishi Vigyan Kendra, Gonikoppal in Collaboration with ICAR-Indian Institute of Horticulture Research, Bangalore distributed quality planting material (3000 each cardamom and black pepper saplings, 1000 kg Arka Microbial Consortium and Vegetable seeds) for livelihood empowerment of 30 families of schedule caste farmers of Kundacheri Gram Panchayath, Bhagamdala Hobli, Madikeri Taluk, Kodagu District. During the programme, K.A Devaiah, Head incharge, KVK Gonikoppa, Kundacheri Gram

Panhayath President Smt. Gayatri, members Shri. Basappa B.M. Shri. Dinesh distributed the inputs to schedule caste farmers in the operation area of the panchayat. The programme was coordinated by Prabhakara B, SMS (Horticulture) well supported by scientific, technical and non-technical staff of KVK, Gonikoppal.



Farmers Field School(FFS) on ICM in Paddy conducted at Ayursuli village



ICAR-Krishi Vigyan Kendra, Gonikoppal conducted a Farmers Field School (FFS) on ICM in Paddy at Ayursuli village on 3rd October 2022. Dr. Harish (SMS-Agromet) spoke about the importance of nutrition in paddy and highlighted the role of nitrogen in paddy. He also spoke about the deficiency symptoms in paddy and its correction by means of top dressing. The use of nano urea was emphasised, where it could reduce the cost of cultivation and improve the efficiency of applied nitrogen by foliar means and causing lesser damage to environment. The procedure, dosage and time of application was demonstrated to the farmers. Application of nano urea was demonstrated in the farmer's field to see the impact in field level. A total of 20 farmers participated in the session

ICAR - KVK, HASSAN

Mahila Kissan Diwas



during his introductory remarks, he mentioned the motto behind the Mahila Kissan diwas celebration and he also mentioned that women's should break out the social barriers to get compulsory education so that 33 per cent reservation should be effectively utilized and status of women will be improved. Mrs. Manjula, DPD, ATMA, Department of Agriculture, Hassan, scientists of KVK and farm women's from different taluks of Hassan were participated in the programme and the programme was anchored by Dr. Sanketh, C. V. Scientist (Agricultural Extension), KVK, Hassan. Finally, Mrs. Divya Uday and Mrs. Kavitha, Progressive farm women's were honoured in the programme.



ICAR-KVK, Hassan in collaboration with ATMA, Department of agriculture, Hassan celebrated the Mahila Kissan Diwas on 15/10/2022 at KVK, Kandali, Hassan. Mrs. Divya Uday, Progressive farm women, Alur, Hassan has inaugurated the programme and in her inaugural speech she said that farm women's should participate in social activities, programme, income generating activities to empower themselves and she also explained how she is using waste coffee beans to make garlands, decorative items and toys. Dr. Rajegowda, Senior scientist and head, KVK, Hassan has chaired the programme and during his presidential remarks he said that farm women's should develop leadership qualities among themselves and motivate fellow women farmers to get benefit of government schemes and programmes related to women. Dr. Shivashankar, M., Scientist (Homescience) KVK, Hassan



ICAR - KVK, HAVERI (HANUMANAMATTI)

'Krishi Sakhi' training program for Community Resource Persons

The second batch of Krishi-Sakhi (Community Resource Persons of farm Livelihood) training programme was conducted at KVK Haveri. About 30 farm women were trained on "Agro Ecological Practices" who were selected by Sanjeevini-KSRLPS and Zilla Panchayat Haveri. This six-day program was organized by KVK in collaboration with Department of Skill Development, Entrepreneurship and Livelihood, Government of Karnataka for the women members, one from each gram panchayat.



In the inauguration programme Dr. Ashoka P, Senior Scientist and Head KVK Haveri narrated that Krishi Sakhi is a new idea which helps to directly deliver many programs of agriculture department and universities to the farmers at the village level. Climate change impacts, market fluctuations and importance of food production should be conveyed to the farmers by Krishi-Sakhis in the coming days. Realizing the responsibility of the extension workers, they should join hands with the department in future projects related to agriculture and livelihood activities and become a bridge between research, extension and farmers. Dr. G. Shantakumar, Dean (Agri) (I/c), College of Agriculture, Hanumanamatti presided over the inauguration function. Project Director Mr. S. G. Koravar, District Program Manager (NRLM) Mr. Nagaraja Barki and District Manager from Zilla Panchayat (NRLM) Mr. Ramesh Dasara, Haveri, participated as guests and explained about the activities of Krishi Sakhi. The programme was conducted during the period between 10-10-2022 to 15-10-2022. Nineteen resource

persons thought the different agriculture topics to the participants. An exposure visit was also arranged to the integrated farming system adopted farmer field, Vermicomposting production unit, Sheep rearing and Horticulture nursery unit.

Demonstration of seed treatment practices



ICAR-Krishi Vigyan Kendra Haveri conducted training program on "Agro Ecological Practices" for Community Resource Persons of farm Livelihood (Krishi-Sakhi) selected by Sanjeevini-KSRLPS and Zilla Panchayat Haveri. A six-day program was organized for the women members of the organization in collaboration with Department of Skill Development, Entrepreneurship and Livelihood, Government of Karnataka.

Field Day on ICM in Groundnut var. G2-52

KVK, Haveri (Hanumanamatti) conducted field day on integrated crop management on Groundnut var. G2-52 at farmer's field of Shri. Ramesh T, Jagati, Kalasur village of Savanur taluk progressive farmer opined that the Groundnut G2-52 variety is expected to get higher yield of 8-10 quintals per acre. Dr. Shivamurthy D. Scientist (Agronomy), briefed about Groundnut var. G-2-52 characteristics like resistant to pest, diseases and drought, yielding capacity is 10-12 quintals per acre. He also explained in detail about integrated crop management viz., seed treatment with Rhizobium, timely of sowing, timely weeding and inter cultivation and fertilizers application etc. He also advised other farmers should grow/adapt this variety under ICM in coming years/season.



ICAR - KVK (BSS), IDUKKI

Nano urea technology in Paddy

ICAR-Krishi Vigyan Kendra (BSS), Idukki conducted a Demonstration of Nano Urea technology in Paddy. Dr. R Marimuthu, Senior Scientist and Head, KVK Idukki, Dr. S Jayababu, SMS (Animal Science), Ms. Manju Jincy Varghese, SMS (Soil Science), Ms. Preethu K Paul, SMS (Agricultural Extension), Ms. Rachel Skariakutty, Programme Assistant (Rural Craft) organized a field visit to FLD in Paddy Plot on 10th October 2022 at Rajakkad cluster village. The Farmers were made aware on nano Urea application and its importance. The farmers were made aware on application of Nano Urea instead of conventional urea application. Deficiency of Potassium was addressed by demonstrating Potash application in the field. The team made the farmers aware on Iron



toxicity in paddy which will affect the root growth in paddy. 12 farmers participated in the demonstration.

ICAR - KVK, KALABURGI-I

Seminar cum Certificate distribution to Authorised users of GI tagged Tur dal

ICAR-Krishi Vigyan Kendra, Kalaburagi-I and Zonal Agricultural Research Station, Kalaburagi organised one day seminar cum certification distribution to Authorised users of GI tagged Tur dal on 14.10.2022 at Kalaburagi campus. The programme was inaugurated and presidential remarks by Dr. B. M. Dodamani, Assistant Director of Research, ZARS, Kalaburagi with Dr. Suryamani Tripathi, Head Legal and Coordinator, IPFC, ICRISAT, Hyderabad. Chief Guest Sri. Anthony Maria

Emanuel, Managing Director, Pulses Board, Kalaburagi highlighted on current status of GI of Gulbarga tur dal and post GI activities and quality maintenance explained by Dr. Suryamani Tripathi. The programme was anchored and brief information of the programme was given by Dr. Muniswamy, Senior Scientist (Genetics and Plant Breeding), ZARS, Kalaburagi also explained current status of redgram, characteristics of different varieties of redgram and GI tag information. Opening remarks by Dr. Jayaprakash Nidagundi, Professor, Head, IPR Cell, UAS, Raichur, vote of thanked by Dr. B. S. Reddy, Sr. Farm Superintendent, ZARS, Kalaburagi. Finally,





products, biofertilizers, Solar operated power sprayer, different varieties seeds of millets, pulses and cereals, GI tagged tur dal, pulse and chickpea magic were showcased. The information in the form of specimens, charts, model, live samples were demonstrated for the benefit of the farmers. Honourable Vice Chancellor of UHS, Bagalkote Dr. Indires K. M visited the stall and appreciated about the technologies and millets products. More than 6.0 lakh farmers and public visited the Krishi Mela and more than 4.0 lakh farmers were visited the university stall.



Dr. M.M. Dhanoji, Dean, College of Agriculture, Kalaburagi, Dr. Raju G Teggalli Sr. Scientist & Head, KVK, Kalaburagi-I and Sri. Samad Patel, JDA, Kalaburagi distributed certificates to the GI authorised users. In this programme, KVK and ZARS Kalaburagi staffs, local representatives, KSDA and Pulse board officials were presented. More than 45 farmers from different villages of Kalaburagi district were participated and benefitted from the programme.

Participation in Krishi Mela-2022, UAS, Dharwad

University of Agricultural Sciences, Dharwad conducted four days Krishi Mela for the year 2022 from 17th to 20th September under the theme of agricultural technologies for doubling of farmer's income. Dr. Anand Kumar V. Scientist (Agril. Entomology), ICAR-KVK, Hagari and Dr. Shreenivas B V, Scientist (Soil Science), ICAR-KVK, Kalaburagi-I represented UAS, Raichur. The technologies released by the university along with technological products like millets, millets baked

Success Story of Export Quality Banana Cultivator

Young Graduate farmer Basavaraj S. Patil from Koralli village of Aland taluk planted 7500 export quality saplings of G-9 variety Banana in 7 acres of land along with group of 10 farmers from the technical guidance of ICAR-KVK, Kalaburagi-I and Department of Horticulture with the support of Pralshar Bio product pvt. Ltd., Goa like 7*5 feet distance spacing, drip irrigation with mulching, integrated nutrient, pest and disease management.



He is a frontier for adopting the technology which is suitable to export. He sells the fruits at the rate of Rs. 18 per Kg of yield per plant and ha 35 Kg and 45 t

respectively, he earned Rs. 37 lakhs by spending Rs. 12 lakhs and his net profit Rs. 25 lakhs by the sale of fruits. Also he earned Rs. 7 lakhs from yellow watermelon as an intercrop in banana this was first ever practiced and succeed in the district.



ICAR - KVK, KALABURGI-II (RADDEWADGI)

Celebration of Poshan Abhiyan and planting of tree campaign



Poshan Abhiyan and Tree plantation event was organised on 17-09-2022 at ICAR-KVK, Kalaburgi-II (Raddewadgi) in collaboration with IFFCO, Women and Child development department, Jewargi and Dhan Foundation, Jewargi. During the event, telecasted the speech of Hon'ble Union Agriculture Minister Sri. Narendra Singh Tomar with respect to national Poshan Abhiyan and its importance. After that, Dr. N. Manjunath, Sr. Scientist & head briefed about the event and importance of nutri cereals (Millets) consumption in daily diet for the healthy life. Dr. Chethan, T., Scientist (Horticulture) delivered a lecture on importance of nutrition, nutri-garden and bio-fortified varieties and its importance especially farmwomen's daily diet. Dr. Basavaraj Kadanavar, Scientist (Agril. Entomology) addressed the participants about consumption of pesticide residual free food and its production, storage grain pests and its management. Finally, all the beneficiaries are provided with seed kit and fruit saplings sponsored by IFFCO. More than 82 farmwomen, Dhan

foundation members and Anganawadi workers witnessed the programme.

Off campus capacity building program on Nutri-garden at Saidapur village Tq. Yadrami

ICAR- KVK, Kalaburgi-II (Raddewadgi) conducted off campus capacity building programme on Nutri-garden on 14-10-2022 at Saidapur village Tq. Yadrami. In the first session of training Mr. Chethan T., Scientist (Horticulture) explained in details about the vegetable production technologies from seed to post harvest viz., Selection of varieties, seed bed preparation, seedling production and treatment with bio-agents, Nutrient management (fertigation techniques), weed management, pest and disease management, grading and sorting and post harvest technologies. At the same time seed kit and fruit seedlings were distributed to farm women's in the event of training programme.



In the second session, Dr. Basavaraj, Scientist (Agril. Entomology) briefed about integrated approach for management of leafy vegetables through botanicals insecticide and bio pesticides to obtain pest free and least residue toxicity to get quality vegetable and fruits. During the program farmers were distributed with leaflets which contain detailed integrated management practices for insect pests and improved vegetable production technology. In continuation, Dr. N. Manjunatha, Sr. Scientist & Head, interacted with gathered farmers and clarified the agronomic issues in the local crops. About 75 farmers and farmwomen benefited the said training program.

ICAR - KVK, KANNUR

District Level Seminar on Cashew Cultivation

KVK Kannur in collaboration with Directorate of Cashewnut and Cocoa Development (DCCD), Kochi organized one day seminar on cashew cultivation at Chemperi, Eruvessy Panchayath on 13th October 2022. The seminar was inaugurated by Sri. Adv. Sajeev Joseph, MLA, Irikkur in a function chaired by Smt. Tessy Joseph, President, Eruvessy Grama Panchayath. Dr. Jayaraj P., Programme Coordinator has given key note address on prospects of cashew cultivation and possibilities of convergence. Sri. Sojan Karayimayil, Member of Block Panchayath, Sri. Mohanan Muthedan, Standing Committee Chairman (Welfare), Sri. T. M. Joshy, President, Cooperative Bank, Payyavur and Sri. Jinu, Agricultural Officer, Eruvessy has given felicitation address for the event.



Sri. Antony Aprakudiyil, Frontline cashew farmer, Sri. Brijith Krishna M. P., Founder of Eatery Malabaricus (Cashewsprout based agri enterprise), Smt. Komalavally Balakrishnan, President of Women SHG running a Cashewnut Processing Unit and Sri. Mathew V. T., Integrated farmer selected under DFI programme were wholeheartedly felicitated in the event.

Technical session were conducted on Cashew nut varieties and characteristics handled by Dr. Meera Manjusha, Assistant Professor (Horticulture), RARS Pilicode, Integrated pest and disease management by Dr. Manju K. P., Assistant Professor (Entomology), KVK, Integrated crop management by Smt. Renisha J. M., Assistant Professor (Horticulture), KVK, Cashew processing and value addition by Smt. Elizabeth Joseph, Assistant Professor (Home Science), KVK. A farmer scientist interface was also conducted to discuss about problems and prospects of cashew cultivation, processing and value addition.

Revival of Fallow Land Paddy Cultivation under NICRA



Under NICRA project 50 acres of fallow land in Chengalayi Panchayath is revived to conserve wet land ecosystem through food grain production. Inauguration of the transplanting of rice was done by Sri. C. M. Krishnan, President, Thaliparamba Block Panchayath in a function presided over by Sri. Mohanan V. P., President, Chengalayi Grama Panchayath. Sri. C. M. Krishnan, in his inaugural address stressed the importance of such interventions with convergence of stakeholders of agricultural research, extension for the comprehensive development of agriculture. Dr. Jayaraj P., Programme Coordinator, KVK has elaborated about the activities and interventions planned under NICRA project in Chengalayi Panchayath and highlighted the importance resource use planning for development of agriculture. The programme is being taken up by KVK with the convergence of LSGD, Agricultural Department, MGNREGA, MKSP, Padasekharasamithis and ITI Kurumathur under the leadership of Village Level Climate Resilient Agriculture Management Committee (VCRMC) formed under NICRA Project. Smt. Amitha Sissil, Agricultural Officer, Chengalayi, Smt. Anu V., Assistant Professor and Nodal Officer of NICRA, KVK Kannur, Dr. Parvathy A., Assistant Professor (Extension), KVK Sri. Ragesh, Agricultural Assistant, Chengalayi, Sri. K. C. Pradeepan, Frontline farmer and President of Karshika Kamma Sena, Chengalayi and Smt. Sujaina, SRF, NICRA project have attended the inaugural function.

ICAR - KVK, KASARAGOD

Training and Swachh Bharat Activities in Paduppu Watershed area.



The ICAR Krishi Vigyan Kendra, Kasaragod organized a training programme at Paduppu watershed area Near Kuttikol in Kasaragod district . The main crops cultivated in this micro watershed area are coconut, arecanut, cocoa, rubber, banana, pepper, pineapple and vegetables. The farmers also rear cows, goats, poultry and bee keeping and are sources of additional income. The soil is hard laterite type with low organic carbon content. The area falls under the high rainfall region with small hillocks which adds to the soil loss and watershed area based development is essential to prevent soil erosion and to keep the fertility of soil. The KVK demonstrated an integrated approach for the watershed area. Demonstrations were conducted to make cultivation by making half moon type terraces for coconut and to put mulch in the basin area. Also planting of pine apple and vetiver along the ridges was encouraged to reduce soil erosion. The pruning of cocoa was also demonstrated and basin

mulching of coconut and arecanut using the pruned leaves, coconut and arecanut leaves was demonstrated. As part of the Swachhata Abhiyan programme, the farmers of this watershed was also encouraged to undertake vermicomposting by converting the agricultural waste into value added organic fertilizers. The soil test based fertilizer application was promoted and the fertilizer recommendations for various crops were recommended. The farmers were encouraged to adopt integrated farming system model and the cultivation of fodder grass was demonstrated to reduce the cost of feed. The cultivation of azolla was demonstrated for use as a feed for the poultry and fishery units. The advantages of bee keeping for increasing coconut yield were stressed and farmers were apprised of the meloiponiculture which can provide additional income which is a very highly profitable venture. The day long classes and demonstrations was conducted on 15th October 2022 in which about 35 farmers 25 farm women and six school children participated. ■



ICAR - KVK, KOLAR

Trimonthly workshop for KSDH Officers

KVK Kolar organized Trimonthly workshop for KSDH Officers of Kolar, Chikkaballapur and Ramanagara districts on 07.10.2022 at KVK Kolar. Dr. Sadanand K. Mushrif, Scientist(PP) delivered lecture on integrated management of diseases in important vegetable crops of the district. Dr. Anil kumar, Scientist(SS&AC) delivered lecture on soil and water conservation measures in horticultural crops, Nutrient management in mango & paracetamol application in mango. Dr. Jyothi Kattagoudar, Scientist(Horticulture) gave information on Butter fruit production technology, Points to be considered in major Horticultural crops during continued rain and Dr. Nagaraj gave lecture on alternate fruit crops suitable for Kolar region. Further discussions on modalities of Weather Based Crop Insurance Scheme was also held. 60 officers have participated in the program.



On-campus capacity development programme on FSSAI licensing, Food Labeling, Branding and marketing Opportunities of value added products

KVK, Kolar organized Capacity development programme on "FSSAI licensing, Food Labeling, Branding and marketing Opportunities of value added products" to SHG members of Kolar district on 14.10.2022 at KVK Kolar. Shri. Shrinidhi, Food Safety officer, Kolar delivered lecture on FSSAI licence and Scientist Home science delivered lecture on Food Labeling, Branding and marketing Opportunities of value added products. Around 61 SHG members participated and benefited from the programme.



Field Day on Management of stem rot in groundnut and introduction of groundnut variety Kadiri Lepakshi

KVK, Kolar organized Field Day programme of FLD on the management of stem rot in groundnut and introduction of groundnut variety Kadiri Lepakshi at Muthunur village, Bangarpet taluk on 10.08.2022. The varietal characters and the yield components of the introduced variety were discussed with the farmers and the same was compared with the check variety K-6. Also information on effective management of stem rot through bio agents was also discussed with farmers. Around 25 farmers participated in the programme.



ICAR - KVK, KOLLAM

Karshika Karma Senas “Farm Workers Army”- A solution to the acute shortage of labourers in Kollam District

In Kerala one of the major reasons for the farmers to refrain from Agriculture is higher wages of labourers and poor quality of work. Karshika Karmasenas were constituted in different grama panchayats under Agriculture Department to find a solution to the acute shortage of labourers with an objective to create a labour bank of well trained, disciplined force for providing regular and uninterrupted supply of labourers on reasonable/ standardized wage rates on demand/call. Karshika Karmasenas will help to create a service bank of technicians for agricultural purpose. It also envisages dignity to farmers as well as labour force.

One such Karshika Karmasena trained is from East Kallada Panchayat of Kollam district. The beneficiaries were equipped with use of agricultural implements and machineries for crop production which are required for immediate agricultural operations, bio input production and nursery management. There were 15 trainees in the capacity development programme which included women and men participants. To strengthen their skill the members of Karshika Karmasena had undergone 10

days rigorous capacity development programme on operation, repair, service / maintenance of agricultural implements and machineries in addition to it sessions on bio input production and nursery management were also included. The trained persons can act as para agricultural workers in their blocks. This can tackle the problem of mechanisation in agriculture, supply quality bio inputs and vegetable seedlings. Their services can also be used by the block as well as the neighbouring blocks. ■



ICAR - KVK, KOPPAL

Rabi Seed Day Programme

Good seeds are integral part of better crop yield. On 12.10.2022 ICAR- KVK, Koppal in collaboration with ARS, Gangavathi Organized Rabi Seed day. On this programme information about importance of seed and seed production, use of local available seeds, development of new varieties / hybrids, important of seed treatment, projects pertaining to seed production of both agriculture and horticulture crops in public and private sectors, important aspects that has to be



followed during seed production programme were explained to the gathered farmers. During this programme farmers were encouraged to take up the vegetable seed production which required smaller area and higher profitable. Including this important disease and pest management during seed production was also explained to the farmers. ■

ICAR - KVK, KOTTAYAM

Swatchhata Drive as a part of Government of India's "Special Campaign 2.0"

A Swatchhata Drive was organized by Krishi Vigyan Kendra Kottayam on 2nd October 2022, Sunday, at Kumarakom Village, Kottayam as a part of Government of India's "Special Campaign 2.0 from October 2 to October 31, 2022". The residents of Kumarakom village took part in the programme and were given awareness about the importance of self cleanliness as well as that at home and village by the Programme Co-ordinator of KVK Kottayam, Dr. Jayalekshmi G. They were made to understand about the need of converting the organic waste generated at home and village into compost. The scope of disposing non-reusable waste in the village was also discussed. The villagers actively participated in cleaning the shabby areas of the village. Students and staff from Govt LPS, Aarpookara made a visit to the KVK on 3rd October 2022. The students were given orientation classes on hygiene, sanitation and cleanliness. The importance of keeping home and its surroundings clean and the scope of converting crop residue and other farm waste into compost for increasing crop productivity were explained to the students. They were taken to the Vermicompost unit operating in the KVK and the technology was demonstrated to them. The students interacted with the KVK staff, opened up about their doubts and gave their suggestions on Swachhata. A training on converting fish discards into compost was given to farmers. A talk was delivered to the staff of KVK by the Programme Co-ordinator, insisting them to keep the KVK premises clean and proper disposal of food waste. Timely disposal of waste from the offices as well as creating and maintaining a clean work space in offices was made a mandate.



ICAR - KVK, KOZHICKODE

ICAR Award document preparation meeting for Kerala KVKs



One day meeting for training and awareness about importance points during ICAR award document preparation for Kerala KVK was organized by ATARI, Bengaluru at IISR, Kozhikode on 13.10.2022. Dr. V Venkatasubramanian, Director, ATARI, Bengaluru inaugurated the event and presided by Dr. R Dinesh, Director (i/c), IISR, Kozhikode. Expert guidance was provided by Dr. B Prabhukumar, former Director, ATARI, Ludhiana. The meeting was attended by Dr. K Thimmappa, Nodal Scientist, ATARI and Programme Coordinators and Subject Matter Specialists of Kannur, Kozhikode, Thrissur, Pathanamthitta, Malappuram and Kollam KVKs.

ATARI Director's Visit to KVK and farmer fields of Kozhikode district

Two days extensive field visits by Dr. V Venkata subramanian, Director, ATARI and Dr. K Thimmappa, Nodal Scientist were held to review and visit the fields like precision farming, innovative pepper farmers, bush pepper nurseries, cage culture of fishes etc. KVK Kozhikode staff accompanied their visit and appraised about the progress of FLD, OFT activities and interaction with garment making trainees. The director was also visited the spice processing facility and pepper nursery of IISR and discussed with IISR scientists Dr. E Jayashree and Dr. V Srinivasan about the collaborative programmes to be conducted for the benefit of Zone 11 KVKs.





KVK times released by state minister for Excise and LSG Kerala

Former Kerala Assembly Speaker and present State Minister for Excise and Local Self Government Shri M.B. Rajesh released the KVK, Kozhikode compiled KVK times (Vol 1, issue 29) magazine at a function held at Subiksha Centre, Challikara on 3rd October, 2022. The first copy was received by Shri T.P. Ramakrishnan, MLA, Perambra. Both were apprised about KVK, IISR, Peruvannamuzhi activities, the significance and uniqueness of this KVK times magazine compiled with activity information from all the KVKs of Kerala, Karnataka and Lakshadweep by Dr P. Rathakrishnan, Programme Coordinator, KVK. The programme of magazine release was attended by farmers and processing unit staff. Progressive Farmer Shri Kunhiraman, K.T, Kallode; Subicsha Chairman Mr. Kunhammad Master were also present. ■



ICAR - KVK, LAKSHADWEEP

Focus Group Discussion and Consultation Meeting towards finalizing Business Plan for FPO-Kavaratti

KVK-Lakshadweep formed the first FPO in Kavaratti during 2021-22 under the PM scheme of 10,000 FPOs. Upon registration of the Kavaratti Island Coconut Producers Cooperative Society (FPO) the KVK has been working for its membership drive, streamlining the functions and management along with providing selected Agricultural Extension Services. A business plan has been envisaged by KVK for strengthening the FPO as being mandated. The FPO has entered into providing services to farmers through field days, capacity building programmes and other ways with the facilitation of KVK and funding from Coconut Development Board.

A Focus Group Discussion (FGD) and a consultation meeting was held on 4-10-2022 at Kavaratti for the benefit of FPO by KVK-Lakshadweep inviting members of FPO, experts from Department of Agriculture,



Lakshadweep Development Corporation Limited (LDCL), progressive farmers, entrepreneurs and business men involved in fresh coconut and dried copra



marketing. The meeting was to elicit leads for finalizing the business plan for the FPO. Mapping the resources, broader view of existing products and utilization from resources and other issues of logistics and the operating environment were discussed. The FGD and consultation meeting lead towards finalizing the business plan of FPO towards collection of fresh coconuts from Kavaratti island and employing advanced methods for copra making (the dried, oil-yielding kernel of the coconut). The members of FPO concluded that they will work on exporting copra to mainland and will be supplying to the existing oil making units in Kavaratti based on demand.

Dr. P. N. Ananth, Head, KVK lead the FGD and consultation meeting along with Dr. Mohammed Koya, Scientist and Dr. Abdul Gafoor, SMS of KVK. Prior, Dr. Mohammed Koya presented about different information required for preparation of business plan by a FPO. Experts invited for the meeting were Mr. Shareef, Agriculture Officer and Mr. Aboosalih, Factory Coordinator, LDCL, Mr. Masood, Tehcnical Assistant, Coconut Development Board, Kavaratti. Earlier, Mr. Shihab, B.K. Member, FPO welcomed the gathering and Mr. Musunad, Predient of the FPO closed with his remarks. ■

ICAR - KVK, MANDYA

Capacity development programme Integrated Crop Management in Coconut

Krishi Vigyan Kendra, Mandya conducted one day capacity development programme for 50 farmers and farm women of adoptive village B. Hullukere, Mandya taluk on Integrated Crop Management in Coconut. Dr. Pavithra, S. Scientist (Plant Protection) briefly explained to the farmers about coconut cultivation practices like fertilizer requirement, pest and disease, their management. The President of the programme was Sri. Yogesh, Chairman, Gram Panchayath, Bevinahalli, Sri. Ramesh, Member, Gram Panchayath, B.Hullukere, Mandya taluk and Sri. Ramalingegowda, Farmer Leader, B.Hullukere, Mandya taluk participated. ■



ICAR - KVK, (DAKSHINA KANNADA) MANGALURU

Exposure Visit Programme for DAESI Input Dealers

ICAR-KrishiVigyan Kendra (Dakshina Kannada) Mangaluru organized an exposure visit to Horticulture Farm Tumbe, Department of Horticulture, Dakshina Kannada for Diploma in Agriculture Extension for Input



Dealers on 08.10.2022. In this programme, Mr. Harish Kulal, Assistant Horticulture Officer (in charge) explained about the rearing and life cycle of biocontrol agent i.e. *Goniozus nephantidis* and their role in management of black headed caterpillar (*Opisina arenosella*) in coconut and also briefed about plant propagation methods in arecanut, coconut, guava, cocoa and black pepper. Dr. Kedarnath, Scientist (Plant Protection) coordinated the visit and highlighted about integrated pest and diseases management in arecanut, coconut, black pepper and banana during the visit. A total of 36 DAESI students participated in the exposure visit. ■



ICAR - KVK, MYSURU

Celebration of Gandiji and Lalbahadur Shastriji Jayanathi



On 2nd October 2022 Mahathma Gandiji, Lalbahadur Shastriji Jayanathi and Senior Citizens day has been celebrated at Allamaprabhu Auditorium, JSS INstitutions, Suttur. Dr. K. Kalachennegowda, Former Principal, Maharaja College, Mysuru addressed the gathering about the biography of Mahathma Gandhiji and Lalbahadur Shastriji. More than 120 staff members of JSS Institutions and ICAR JSS Krishi Vigyan Kendra staff were participated in the programme.

Swachhata Campaign 2.0



In ICAR JSS KVK farm Swachhata drive have been organized on eve of Special Campaign 2.0 at the Banana plot to create awareness crop residue management among the farmers. The office premises and other places of administrative building cleaning during special campaign 2.0.

Celebration of Mahila Kisan Divas

ICAR JSS Krishi Vigyan Kendra celebrated Mahila Kisan Divas on 15-10-2022. During the program, Smt. Mahalakshmi Prabhakar, B C Halli, Bannur Hobli, T Narasipura Taluk, a progressive dairy farmer who supplies around 180 litres of milk to Milk Cooperative society was felicitated. During the program a session on financial literacy was organized for creating awareness on different schemes and insurance for women farmers. Around 40 women farmers and 30 male farmers participated in the program.



Jalshakhti Abiyan

On 11th October 2022 ICAR JSS Krishi Vigyan Kendra observed Jal Shakhti Abiyan programme. During the programme the mission and vision of "Jal Shakti Abiyan - Catch the rain wherever it falls when it falls" was conveyed to the farmers. The importance of water, its conservation methods and best utilization channels was addressed to the gathering. Later, farmers visited the KVK Farm pond unit where rain water harvesting and fish farming activity is taken up. More than 35 women farmers of Sri Dharmasthala Rural Development Foundation SHG have participated in the training.



Demonstration on spraying of Nano Urea through drones

ICAR JSS KVK, Suttur, Mysuru has organized a demonstration on "Use of Drones in Agriculture". Mr. Munish, the Chief Executive Officer of the Drone Company informed in detail about the use of drone of Multiplex Company by the farmers of the villages around KVK who participated in this program. Farmers were sensitized about the use of drones by conducting a demonstration of nano-urea spraying using drones in the paddy demonstration field of KVK. ■



ICAR - KVK, PALAKKAD

Demonstration of 'Kid starter' in Malabari Kids

Front Line Demonstration of 'kid starter' a protein enriched special food for kids of goat, a technology of Kerala Veterinary and Animal Sciences was initiated at Koppam and Vilayur Panchayat in Palakkad district on 10.10.2022. The programme was inaugurated by Panchayath President Sri T.Unnikrishnan of Koppam Panchayat, and addressed by Vice president, Standing Committee Chairman, and veterinary doctors of the respective Panchayaths. A total of fifty Malabar kids of three to five months of age were selected for the demonstration. Kid starter along with De-wormer were distributed to the farmers. The time and dosage of feed was instructed by Dr. Smijisha A.S, Assistant professor (Animal Husbandary), Krishi Vigyan Kendra, Palakkad.



Panchayath president and felicitation given by Dr. Raji P, ADR, RARS Pattambi. The sessions on second dose fertilizer application as well as micronutrients was handled by Dr. Moosa PP, Professor, RARS, Pattambi; Flowering induction and fruit retention management by Dr. Resmi J, Assistant Professor, KVK Palakkad; Integrated pest and disease management by Dr. Sumiya K.V, Programme Coordinator, KVK Palakkad. Another major problem addressed was climate change factors in mango. These sessions were handled by Dr. Smitha John and Dr. Gleena, Assistant Professors from College of Agriculture, Vellanikkara. The programme was attended by 75 mango farmers along with department officials.

Field visit to tribal hamlets at Attapady block



Addressing major field Problems in Muthalamada Mangoes

KVK Palakkad in collaboration with Regional Agricultural Research Station, Pattambi and Department of Agricultural Development and Farmers Welfare conducted a one day training programme for addressing major field problems in mango on 11.10.2022 at Muthalamada. The training programme was inaugurated by Smt. Baby Sudha, Muthalamada

As a part of the activities under tribal extension center established at Attapady facilitated by KrishiVigyan Kendra Palakkad, a field visit was conducted at Chavadiyur tribal hamlet at Attapady. The award winning farming community is known for their traditional method of agricultural practices. They practice 'Panchakrishi', one method of mixed farming practices, where cereals, millets, pulses and oilseeds are sown together. During the visit, bacterial leaf blight infestation was noticed in paddy and application of cowdung slurry was recommended. As a part of the visit, it was decided to document their cultivation practices under the project.



handled by Dr. Sumiya K.V. Programme Coordinator, Dr. Sreelakshmi K. Assistant professor, Agronomy, and Sri Arunkumar K. V. Assistant Professor, Agricultural Extension. Smt. Aswathi, Agricultural Officer, Pattithara and Murshida S. SRF, NICRA project participated in the programme. About 30 farmers actively participated in the programme. ■

Awareness campaign and diagnostic visits in paddy fields of Thrithala block

Improper nutrient management, pests and diseases are becoming a major problem in paddy fields of Thrithala block. The scientists from KrishiVigyan Kendra Palakkad conducted diagnostic visits in different Padashekharas of Pattitharavillage on 12th October 2022. Several pests and diseases were noticed in the field which includes stem borer, leaf folder, bacterial leaf blight, sheath blight, and brown spot. Unscientific soil health management resulting in iron toxicity and nutrient deficiencies were also noticed. Following field visits, an awareness campaign was conducted for the farmers of Pattithara and Kappur Panchayat. The farmers were sensitized on the importance of exact diagnosis of the field problems and a hands on training was given on the identification of pest and disease using live samples collected from the field. A demonstration of ooze test was also carried out for identification of bacterial diseases. Farmers were made aware of integrated pest and disease management technologies to be adopted for management of pest and disease identified in their field. The interactions were



ICAR - KVK, RAMANAGARA

On campus capacity development programme on integrated cultivation practices in major flower crops grown in Ramanagara district



ICAR-Krishi Vigyan Kendra, Ramanagara organized on campus capacity development programme on "Integrated cultivation practices in major flowers crops grown in Ramanagara district. Dr. Deepa Pujar, Scientist (Horticulture), KVK, Magadi explained about importance of soil testing, land preparation, different varieties, seed treatment, spacing, planting systems, nutrient management, intercrops and weed management in major flower crops viz., Crossandra, Rose, Jasmine, Chrysanthemum and Marigold and also explained about special cultivation practices viz., pinching and disbudding carried out in rose and chrysanthemum to get good quality flower and yield. Later discussed about major pest and diseases affecting these flower crops, their characteristic symptoms and control measures. Miss Shanta Balgonda, Subject Matter Specialist (Agrometeorology) highlighted about weather and its role in agriculture. Dr. Sowjanya S., Scientist (Agriculture extension) explained about different activities of Krishi Vigyan Kendra and different agricultural app. Mrs. Umarani K., Farm Manager, demonstrated seedling treatment with trichoderma, preparation of beejamruta and jeevamruta. About more than 25 farmers and farm women were participated and benefitted. ■

ICAR - KVK, SHIVAMOGGA

Capacity development programme on Agro Ecological Practices

ICAR - Krishi Vigyan Kendra, Shivamogga conducted six days capacity development programme in three batches from 05-09-2022 to 10-09-2022, 19-09-2022 to 24-09-2022 and 26-09-2022 to 01-10-2022 on "Agro Ecological Practices" for community resource persons of farm livelihood (Krishi Sakhi) in collaboration with Sanjeevini-Karnataka State Rural Livelihood Promotion Society, Department of Skill



Development, Entrepreneurship and Livelihood. The closing ceremony of the programme was organized on 01-10-2022 at Krishi Vigyan Kendra, Shivamogga. During the programme, Dr. B. C. Hanumanthaswamy, Senior Scientist and Head, KVK, Shivamogga given introductory speech and welcomed everyone. In his speech, he addressed the trainees about the benefits and the knowledge they have gained from this programme related to the advances in crop production technology, pest and disease management in agricultural and horticultural crops, integrated farming system, information of additional income generating activities such as bee keeping, sheep farming and poultry farming should be adopted in their farm and spread the gained knowledge among the farmers. Dr. R. C. Jagadeesh, Hon'ble Vice Chancellor, KSNUAHS, Shivamogga distributed the certificates to the trainees and addressed the trainees to spread the knowledge that they have gained during these six days capacity development programme across their village and other self helping groups. He also told to contact Krishi Vigyan Kendra and KSNUAHS, Shivamogga for any further information about the trainings and to get benefits out of it. Also he guided the farm women to carry out the additional income generating activities such as flower production, sheep farming, bee keeping, mushroom cultivation and value addition of agricultural and horticultural crops. ■



Dr. S. U. Patil, Associate Director of Extension, KSNUAHS, Shivamogga, he explained the role of farm women in agriculture and guided the farm women to produce the crops based on the market demand so that they can get higher price for their produce. Also informed to adapt additional income generating activities and integrated farming system in order to avoid any losses in agriculture system. Dr. B. Hemla Naik, Director of Extension, KSNUAHS, Shivamogga, in his presidential speech, he addressed and guided the trainees about the knowledge they have gained from this training on the topics integrated farming system, intercropping, additional income generating activities like bee keeping, sheep and goat farming and fish farming should be adopted in their farm to increase the family income and also to become economically independent. He also gave information about branding of the produce and marketing of agricultural and horticultural crops which will helps in getting higher price in the market. Totally 90 community resource persons of farm livelihood (Krishi Sakhi), staff of Krishi Vigyan Kendra, Shivamogga and Zilla panchayat were also participated in the programme. ■

ICAR - KVK, THIRUVANANTHAPURAM

Skill Training for rural youth

Mushrooms are a good source of natural proteins, vitamins and minerals and are commonly used for the preparation of various dishes. The agro-climatic conditions as well as local availability of raw material



make mushroom cultivation an economically viable proposition in this district. ICAR- Krishi Vigyan Kendra Mitraniketan organised sponsored training to rural youth on "Spawn Production & Cultivation of Oyster, Milky Mushroom and its Value Addition" for one batch with 15 participants during 19th to 27th September 2022 with the support of ATMA Thiruvananthapuram, in association with State Agricultural Management & Extension Training Institute (SAMETI), Kerala & National Institute of Agricultural Extension Management (MANAGE), Hyderabad.

Training module included all the aspects of mushroom cultivation and spawn production with objectives to popularize Mushroom Production as an income generating activity, to create employment opportunity, production of value-added products and to process the mushroom spent waste scientifically. A batch 15 rural youth participated in the training programme. Exposure visits were done to one of the successful mushroom entrepreneurs, Surya Agrotek at Pirappancode, in Vamanapuram Block of Thiruvananthapuram District. He is a progressive entrepreneur doing milky and oyster mushroom cultivation as well as mushroom spawn production and value addition. Participants of the training programme were actively involved in the group discussion during exposure visit and cleared their doubts related to cultivation and its marketing. The participants were issued certificates on completion of 7 days' training programme.





Mushroom cultivation is a lucrative venture, which can be started and sustained with minimal material and monetary inputs the skill and orientation needed for this was diligently imparted to the trainees during 7 days' training module. The enthusiasm of the participants coupled with strong technical backstopping from ICAR KVK, Mitraniketan would render a solid foundation for this venture. The trainees have already started their venture on a trial basis and are sure to make huge strides in the days to come. ■



ICAR - KVK, THRISSUR

A resilient post pandemic recovery

Krishi Vigyan Kendra, Thrissur unifies with the farmers for a sustainable, inclusive growth agenda depending on adaptability and decisive decision taking. Worsening climate crisis, rising economic inequality, cross currents in supply chains and inflation raise compound challenges that reminded our team that crises can become watersheds of policy and strategy. We have advertised far and wide about the facilities and technologies available at Krishi Vigyan Kendra, the one stop hub for agripreneurs. The list of aspirant seager to take up agriculture based micro and even nano enterprises is long. Scientific and technological support through trainings are provided by subject matter specialists and



motivation by our successful farmer friends. Smt. Indira Lawrence aged 62 drives her tractor from her residence to her farm and does all operations by herself. Her relationship with KVK Thrissur is as old as the Krishi Vigyan Kendra itself. Sri. Abdul Majeed and Smt. Shameela are the latest off springs, who survived setbacks caused by the pandemic with the support from Krishi Vigyan Kendra alone. Their stories, narrated by themselves, provide the assurance to new comers that bouncing back can be faster, with technical help from KVK and hard work from their part. In the past fortnight there have been such tuning-ups in value addition, vegetable cultivation, poultry rearing modern techniques in agriculture, mushroom cultivation etc. Yes, we together vouch that we shall overcome soon. ■



ICAR - KVK, TUMKUR-I

Training on agro ecological practices for community resource person (krishi sakhi) of farm livelihood of third batch



ICAR KVK Tumkur-I organised 6 days Training programme from 10th to 15th October for third batch on agro ecological practices for community resource person (krishi sakhi) of farm livelihood in association with SANJEEVINI- Karnataka State rural livelihood promotion society, Department of skill development, Entrepreneurship and Livelihood and University of Agricultural Sciences, GKVK, Bangalore. The programme was inaugurated by Dr.V.Govinda Gowda, Senior Scientist and Head, KVK konehalli, and in his inaugural speech he enlightened about the activities to be performed by the Krishi Sakhi's and envisaged them to create awareness and build the capacity of the farm women in agricultural activities and facilitates aggregation and marketing of the agricultural produce

and also sustainable agriculture based livelihoods at SHGs/household level. The resource persons from UAS, GKVK Bangalore, ARS, Hassan, Primary Health Centre, Bidaregudi and KVK konehalli provided the information regarding livelihood perspective, principles of skills and facilitation, Agronomic practices, agro ecology, agri nutri garden, Soil health management, water management and plant protection measures. As part of the training programme PRA activities were also conducted. Total 30 farm women participated in the third batch and received the certificates.

Distribution of tree saplings to promote Agro forestry

ICAR KVK Tumkur-I organised one day Training programme on improved cultivation practices of forest trees at Tadsuru Village, Tiptur. Sri Jagadeesh, RFO, Tiptur inaugurated the training programme and mentioned the schemes available under department of forest. Dr. Dr.V.Govinda Gowda, Senior Scientist and Head, KVK konehalli, distributed the tree saplings to the farmers and delivered a lecture on importance of agro forestry system and improved cultivation practices of forest trees. Total 28 farmers participated and benefited from the programme.



ICAR - KVK, TUMKUR-II

Workshop on Multiple Cropping System with High Value crops



A District level Workshop on "Multiple Cropping System with High Value crops in Tumakuru District" was organized in association with Farm TV Bengaluru funded by Directorate of Cashew and Cocoa Development Kochi (DCCD) at MBA Auditorium, SIT, Tumakuru on 14th October 2022. The Chief Guest Dr. Prasad, Joint Director, Department of Horticulture, Government of Karnataka, while inaugurating the workshop, emphasized on the significance of multicropping system in Arecanut and Coconut gardens and also production of quality planting material of cashew, pepper crops for increasing the farmers' income in the district. Dr. N Loganandhan Head, KVK welcomed the guests and the farmers and spoke on KVK activities carried out in the district and production of the agri inputs products at KVK. Mr. Raghu, Deputy Director of Horticulture, DOH Tumakuru, delivered a talk on various schemes on Multicropping system in the district. After the inauguration function, the technical session started and Dr.VenkataramanaHegde, Chief Editor, Farm TV delivered a talk on Selection of crops for multicropping system and in detail production practices of Cocoa in Areca garden. Dr.Venugopal, Former Principal Scientist,

IISR, Kozhikode, spoke about the scientific cultivation of Pepper, Nutmeg, Cinnamon, Coffee etc., under Arecanut and coconut gardens. The afternoon technical session was on "Production of dry land crops" wherein Dr.Guruprasad, Former Associate Director of Research, UHS, Bagalkot, highlighted the significance of Cashewnut in Tumakuru district and gave detailed information on cashew cultivation practices for the participants. The Progressive farmers - Dr.Prashanth from Chitradurga (Pepper, Cardamom and Coffee), Mr. Syed Ifthikar from Tumakuru (Arecanut+Pepper), Mr.Cheeranjeevi Reddy from Bellary (Cocoa) and Mr.Manjunath from Sira, Tumakuru (Cashewnut) - shared their experiences and economic benefits of adoption of these crops. Officers from Cadbury and Campco.Ltd provided the information on marketing. At the end, farmers interacted with scientists and got cleared of all their doubts. Mr. Prashanth JM SMS, Horticulture ICAR-KVK, Hirehalli proposed vote of thanks. This workshop was attended by more than 300 farmers from all over Karnataka. The whole programme was organized and coordinated by Dr. N Loganandhan, Head and Mr. Prasanth JM, SMS, KVK Hirehalli, Tumakuru-II



ICAR - KVK, VIJAYAPURA-I

Training on Agro Ecological Practices for - Community Resource persons of Farm Livelihood (Krishi Sakhi)

In Collaboration with SANJEEVINI- Karnataka State Rural Livelihood Promotion Society Department of Skill Development, Entrepreneurship and Livelihood and UAS, Dharwad, ICAR-Krishi Vigyan Kendra, Vijayapura has conducted a 6 days training programme on Agro Ecological Practices for -Community Resource persons of Farm Livelihood (Krishi Sakhi). The programme was inaugurated by Dr. R. V. Patil, Rtd. Professor (Agriculture Extension) in the presidship of Dr. R. B. Belli, Associate director, AEEC, Vijayapura. The training was started with pre training evaluation to assess the knowledge level of the trainees regarding agriculture and allied sectors, according to the need base, the trainees were trained on different agricultural sectors like major farming systems, integrated farming system, organic farming, organic manure usage, important horticultural crops and their management, scientific dairy farming, goat rearing and poultry production techniques from the different resource persons. The training also included one day field visit to the progressive farmer's field and made an interactive session with the progressive farmer.



The knowledge gained by the trainees was assessed by post training evaluation and also collected their expectations from the training. Finally the training was concluded with distribution of certificate. ■

ICAR - KVK, VIJAYAPURA-II

Novel Production Technologies in Bengalgram



ICAR - Krishi Vigyan Kendra, Vijayapura-II (Indi) organized on campus training programme on "Novel Production Technologies in Bengalgram" under CFLD, Bengal gram in Indi on 08.10.2022. Sri. Arjun Sulagitti, Scientist (Plant Protection), KVK, Vijayapura-II (Indi) welcomed all the guests, and Farmers. The programme was inaugurated by Dr. Prema Patil, Senior scientist and Head KVK, Indi and spoke about training programme

and also briefed about importance of pulses on human health.

A technical session conducted by Shri. Arjun Sulagitti, Scientist (Plant Protection), and also delivered the lecture on Novel Production technologies and Pest and disease management in Bengal gram. Dr. Savita B. Scientist (Soil Science), briefly explained about the Nutrient Management in Bengal gram and importance of soil and water testing in agriculture

The Bengal gram seeds variety BGD-111-1 and Trichoderma were distributed to all participants. In this programme around 24 farmers were participated. The programme was ended with vote of thanks by Ms. Heena. Scientist (Horticulture), KVK, Indi ■



ICAR - KVK, WAYANAD

Training on Good Agricultural Practices to ATMA and LEADS extension functionaries

ICAR KVK Wayanad conducted one day training and awareness programme on Good agricultural practices for rice crop production at Kalpetta. Staff of ATMA, Leads and field extension functionaries attended the programme. New technologies in rice cultivation and good agricultural practices to be followed was dealt in detail by Dr. Indulekha V.P, SMS Agronomy, KVK Wayanad. The programme was inaugurated by Smt. Sherly, ATMA PD.



Training on Cultivation practices of Cool season vegetables and soil health management

ICAR KVK Wayanad conducted a one day training programme on cultivation practices of Cool season vegetables and soil health management at Vellamunda. Sri. Antony T.C, ward member inaugurated the programme. There was a farmers participation of 25 numbers. Faculties from KVK Wayanad dealt the practical and theory session on cultivation aspects, integrated disease and pest management aspects, value addition etc. Field visit was also conducted along with the training programme. ■



ICAR - KVK, YADGIR

Animal Vaccination camp at Konkal

In collaboration with Department of Animal Husbandry and Veterinary Services and College of Agriculture, Raichur, ICAR-KVK, Yadgir (Kawadimatti) organised vaccination camp for Lumpy skin disease. Dr. Kotresh Prasad (Animal Science) delivered lecture on different vaccination and lumpy skin disease. Dr. Umesh Barikar (Soil & Water Engineering) talked on importance of soil health and climate change. Dr. Ashavath narayan, Assisant Professor briefed about the plant and animal relationship. Veterinary Livestock Inspectors Mr. Noor Pasha, Mr. Sanjeev Reddy and staff of Department of AHVS, and students successfully conducted the vaccination for animals. 131 cattle and buffaloes were vaccinated and 1250 sheep and goats were dewormed during the camp.



Training programme on Natural farming and Organic farming to farmers of Konkal



ICAR-KVK, Yadgir with support of RAWE programme, College of Agriculture, Raichur organized one day training programme on natural farming and organic farming in Konkal village of Gurmitkal taluk. Senior Scientist and Head Dr. JaiPrakash Narayan R.P, Senior Scientist and Head briefed about the natural farming practices and adverse effects of pesticides on nature and human health. He emphasized on using of Bio-pesticides for different crops and also advised to grow the vegetable for their family first and then for commercial purpose. Dr. Umesh Barikar explained about the soil health and water conservation for healthy crops and benefits. Dr. Kotresh Prasad briefed about vermin-compost, cattle management practices and goat farming. Dr. Kapil Patil, Dr. Kamble, Dr. Mallika Meti of college of Agriculture and progressive farmer Mr. Vishvanath Yeleri were present during the programme. More than 80 farmers and 60 students were benefitted.