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KVK TIMES

75
Azadi Ka
Amrit Mahotsav

A Window to KVKs of ICAR - ATARI, Zone XI, Bengaluru
March 16-31, Volume - 1, Issue - 42



भूमि विज्ञान केंद्र
Krishi Vigyan Kendra
Serving Agriculture



एक कदम स्वच्छता की ओर



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Prof. Sanjay Kumar Singh
Director
ICAR - IHR, Bengaluru.

Message

ICAR-Krishi Vigyan Kendras (KVK) are the knowledge and resource centres of Indian Council of Agricultural Research (ICAR). KVKs play a major role in testing and demonstrating the location specific technologies at the respective district level farmers' fields. In that way, their contribution in spreading the technologies under NARS system is noteworthy.

Tumakuru District is known for its agricultural and horticultural activities. The Horticulture based farming system contributes more than 40 per cent in the district, which include several plantation crops like coconut and arecanut, grown in the area (1.78 lakhs ha). In fact, Tumakuru district is the largest coconut-producing region in Karnataka. Apart from this, fruits (about 14,000 ha), vegetables (about 3,000 ha) and flowers are also predominantly grown in the district. Top of Form The extension efforts of the KVK need to be focussed on the above mentioned agro ecological situation of the district and the KVK has done well in some of the unique initiatives in this regard. KVK Tumakuru has taken sincere efforts in mobilization of farmers, establishment of soil, water and honey testing labs, bio-fertilizer (Arka Microbial Consortium) production unit for the benefit of farmers, in addition to popularisation of IHR varieties like Arka Samrat (tomato), Arka Arjun (french bean), Arka Swetha (chilli), Arka Kalayan (onion), Arka Bangara (marigold) and other technologies like micro-nutrient specials, mushroom spawns, neem and pongamia soap, mango fruit fly traps etc.,

Documentation of various activities carried out by KVKs is an important task, as this will help the KVK staff for referring the concerned technologies in future, in order to transfer the same to the farming community. Hence, the novel idea of ADARI, Bengaluru on bringing out this edition of Golden Jubilee Year (1974-2023) 'KVK TIMES' and also continuously documenting the work of all the KVKs in Zone XI is highly appreciable. This would serve as a ready reference for accessing important milestones achieved by the KVKs of this Zone.

My heartfelt appreciation goes to Dr. N. Loganandhan and his team at ICAR - KVK, Hirehalli, Tumakuru for compiling and editing of this issue of 'KVK TIMES' for the period of 16th - 31st March, 2023. My compliments to the entire team for covering the salient achievements, important events undertaken and activities of KVKs of Karnataka, Kerala and Lakshadweep in this issue.

Date : April, 2023


(SANJAY KUMAR SINGH)



Dr. V. Venkatasubramanian

डॉ। वी। वेंकटसुब्रमण्यन

Director

निदेशक

Message

This year is Golden Jubilee Year (1974-2023) for the Krishi Vigyan Kendras (KVKs) in India. The first KVK was established the Pondicherry (presently Puducherry) in the year 1974. So far, there are 752 KVKs in India, supported by Indian Council of Agricultural Research (ICAR), New Delhi. The ICAR-KVKs are playing a vital role in providing improved technologies to the farming community. They have been effectively disseminating the technologies from research laboratories to the farmers and other stakeholders. They have become a part of decentralized planning and implementation instrument to achieve the desired level of growth and development in the agricultural and allied sectors.

ICAR-KVKs are acting as the knowledge and Resource Centres of technologies and innovations, as they introduce location specific technologies of the NARS system to the farming community at the district level by appropriately sensitizing them at farmers' level.

KVKs are an important institution in each district from where knowledge and technology flow to various stakeholders through effective partnership. 'KVK TIMES', a fortnightly magazine from ICAR-ATARI, Bengaluru prepared by the respective KVKs, documents the activities of KVKs of the Zone-XI is well received by the stakeholders. Most of the news items published in the 'KVK Times' has got the potential of cross learning among KVKs.

I acknowledge with the gratitude, the support and guidance given by the Director, ICAR-IIHR, Bengaluru, to strengthen the activities of ICAR-KVK, Hirehalli, Tumakuru II. My heartfelt gratitude goes to Dr. N.Loganandan, Principal Scientist and Head and his team at ICAR-KVK, Hirehalli, Tumakuru II for editing and compiling this 42nd issue of 'KVK TIMES' for the period 16 -31 March, 2023, which also covered the salient achievements of KVKs in this Golden jubilee year from the KVKs of Karnataka, Kerala and Lakshadweep.

Bengaluru
06 April 2023


(V Venkatasubramanian)



Dr. N. Loganandhan

Principal Scientist and Head
ICAR-KVK, Hirehalli, Tumakuru II

Acknowledgement

KVK Times, a fortnightly publication on KVK activities by AARI Zone XI, has become a popular one, not only in this zone but across all the zones of AARIs and at the national level as well. It is a privilege for each of the KVK colleague to take up this job of compiling and editing the activities of all the KVKs in this zone. However, I feel further delighted in involving myself and my team in compiling this edition that falls on the Golden Jubilee year of KVK journey. Hence, apart from the fortnightly activities of KVKs, salient achievements of some of the KVKs in the past are also covered in this issue.

I take this opportunity to express my sincere gratitude to our Director Dr. Sanjay Kumar Singh for his guidance and constant support for improving our KVK in serving the farmers. I also owe my gratitude to previous Directors Dr. Debi Sharma, Dr. B.N.S Murthy and Dr. M.R. Dinesh for their great motivation to take up many innovative programmes in order to reach the farming community of Tumakuru District for improving their livelihood standards.

I wholeheartedly thank Dr. Venkatasubramanian, our beloved Director of ICAR-AARI, Bengaluru, for his immense encouragement, incomparable support and motivation in all the efforts that our KVK is putting in. I extend my sincere gratitude to Dr. Mallikarjun B. Hanzi, Nodal officer of KVK, Hirehalli, for his timely guidance, supervision and support. We are also very much thankful to all the scientists of ICAR-AARI for their guidance and support in various programme that our KVK is taking up.

It is my pleasure to express my gratitude to all the Heads and staff of KVKs of Zone XI for sharing the information on many of their valuable activities for this issue of KVK Times, without which this publication would not have been possible.

I am very much indebted to the entire team of our KVK, Hirehalli, Tumakuru II, for their timely efforts in compiling and editing this issue of KVK Times. Finally, we express our profound gratitude to ICAR-AARI, Bengaluru, for giving us this opportunity to compile this 42nd issue of KVK times.

Date : April, 2023


(N. LOGANANDHAN)

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ICAR - ATARI ZONE-XI

Karnataka and Kerala KVKs

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1 ICAR - Krishi Vigyan Kendra, Alappuzha

SCSP programme launched at Puliur and Mulakkuzha Panchayaths

SCSP programme of ICAR-NBAIR, Bengaluru implemented through ICAR-ATARI, Bengaluru was launched in Puliur and Mulakkuzha panchayaths of Chengannur block of Alappuzha district by KVK-Alappuzha. Good quality Jack grafts, mango grafts, bush pepper plants, curry leaf seedlings, turmeric seeds of HYV



Prathibha and a vegetable cultivation kit containing 10 different vegetable seeds, bio agents - Nanma, fish amino acid, yellow stick traps, and micronutrient fertilizer - vegetable sampurna were provided to 300 selected SC farmers from these two panchayaths in order to enhance their food and nutritional security. The farmers were oriented on the importance and methods of cultivation of these crops.



The programme in Puliur panchayath was launched on 17.03.23 by Smt. Valsala Mohan, Standing committee chairperson, Alappuzha district panchayath in a function presided over by Sri. M.G. Sreekumar, President, Puliur grama panchayath. Dr. P. Muralidharan, Head, KVK and Sri. Bipin, Agricultural Officer, Puliur also addressed the

farmers on the occasion. 150 selected farmers attended the programme and collected their planting materials. In Mulakkuzha panchayath, the programme was launched by Sri. N. Padmakaran, President, Grama panchayath on 23.03.2023 in a meeting presided by Smt. Rema Mohan, Vice President. Dr. P. Muralidharan, Head, KVK and Smt. S. Kavitha, Agricultural Officer spoke in the meeting with a participation about 150 selected farmers. Sri. Rajeev, M.S. and Dr. S.Ravi, SMSs of the KVK coordinated the programmes.

Workshop on "Cultivation and Value addition of Millets" organized

As part of the celebration of the "International Year of Millets-2023", a workshop on "Scientific cultivation and value addition of Millets" was organized in the KVK on 27.03.23 in collaboration with NABARD. Sessions on "Suitability and cultivation of different millet crops in the



district' and 'Value addition of millets for enhanced consumption by different categories of people' were handled by resource persons from KAU and KVK. Experience sharing by two leading entrepreneurs in the value addition and marketing sector of millets was arranged along with display and sale of their products. Smt. D. Ambujakshi, President, Muthukulam Block Panchayath inaugurated the programme with the participation of about 80 persons including farmers, entrepreneurs, social workers, and staff members. Dr. P. Anithakumari, Acting Head, ICAR-CPCRI, RS, Kayamkulam; Sri. T.K. Premkumar, DDM, NABARD; Dr. P. Muralidharan, Head, KVK; Dr. Poornima Yadav, Asst. Professor, ORARS, Kayamkulam; and Smt. Jissy George, SMS, KVK addressed the farmers in different sessions. Sri. M.S. Rajeev, SMS, KVK coordinated the programme.



2 ICAR - Krishi Vigyan Kendra, Bagalkote

FLD, farm trail and diagnostic field visits by Scientists of KVK Bagalkote

Dr. Dinesh Kumar S. P., Scientist (Agronomy), Dr. Sudha S., Scientist (Plant Pathology), Dr. Venkanna Balaganur Scientist (Animal Science) and Dr. S. C. Angadi, Senior Technical Officer (Soil Science) visited FLD, farm trail and diagnostic field visits at Hangargi, Khanapur S.P, Cholachagudda and Kainakatti villages of Guledgudda and Badami talukas on 16.03.2023.

Field visits

Demonstration of Sustainable Sugarcane Initiative (SSI) on sugarcane variety SnK-9293 field visit was carried by Dr Dinesh Kumar S.P, Dr Sudha S. Dr Venkanna Balaganur and Dr. S. C. Angadi, Scientists of KVK, Bagalkote at Khanapur S. P, Guledgudda (Tq). Information on good agronomic practices in sugarcane was given.



Overcome the problems of storage pest, the information on safe storage bags for storing wheat seeds were given by Dr. Dinesh Kumar S.P., Scientists (Agronomy) of KVK, Bagalkote at Kainkatti village of Guledgudda (Tq).



FLD field visit on Demonstration Management practices for wilt disease in betel vine at Cholachagudda village and Demonstration on use of compost culture for trash decomposition in sugarcane at Kainkatti village field visit was carried by Dr. Dinesh Kumar S.P, Dr. Sudha S. Dr. Venkanna Balaganur and Dr S.C. Angadi Scientists of KVK, Bagalkote at Khanapur S. P, Guledgudda (Tq) on 16.03.2023. Information on use of Arka Microbial Consortium (AMC) in betel vine and use of compost culture for trash decomposition in sugarcane were given.



Demonstration on Performance of improved poultry field visit by Dr Venkanna Balaganur, Dr. Dinesh Kumar S.P and Dr. Sudha S. Scientists of KVK, Bagalkote along



with the farmers at Hangaragi village of Badami (Tq) on 16.03.2023.

Demonstration of fish culture in farm ponds, visit by Dr Venkanna Balaganur, Dr Dinesh Kumar S.P, Dr Sudha S. and Dr S.C. Angadi Scientists of KVK, Bagalkote along with the farmers at Kainakatti village of Guledgudda (Tq) on 16.03.2023.



Diagnostic fields on nutrient deficiency in sugarcane and groundnut, leaf spot and rust disease in groundnut, onion tip burn and recommended management practices for diagnosed problems as per recommendations of UAS, Dharwad package of practice were given by Dr. Dinesh Kumar S. P., Scientist (Agronomy), Dr Sudha S., Scientist (Plant Pathology), Dr Venkanna Balaganur, Scientist (Animal Science) and Dr S. C. Angadi, Senior Technical



Officer (Soil Science) visited diagnostic field visit at Hangargi, Khanapur S P, Cholahagudda and Kainakatti village on 16.03.2023.

Diagnosis on Sunflower head rot was given by Dr Dinesh Kumar S.P., Scientist (Agronomy) of KVK, Bagalkote to Krishi Sanjeevini staff of Dept. of Agriculture, Bagalkote



On-Campus Trainings

On-Campus training program on Millets as a part of International Year of millets was organized by KVK Bagalkote on 18.03.2023. Live telecast program on Global Millet Conference "Shree Anna" by Honorable Prime Minister of India Shri. Narendra Modi Ji was inaugurated. Farmers and farm women (25 Nos.) were participated in this program.





Training program on Dairy Farming to Vishwabharati Animal Husbandary Farm Producers Organization, Badami and Mahalakshmi Animal Husbandary Farm Producers Organization Hunagund at KVK, Bagalkote on 27.03.2023 by Dr. Venkanna Balaganur, Scientist (Animal Science), KVK, Bagalkote



Farm trial on performance of Lucerne varieties field visit was carried by Dr. Dinesh Kumar S.P. Scientist (Agronomy), KVK, Bagalkote along with Dr. Shirdhar, Principal Scientist (GPB), RC, IGFRI, Dharwad at Kainkatti village., Guledgudda (Tq) on 29.03.2023. Information on new variety of Lucerne (DL-5) legume fodder its cultivation practice, cutting time and quantity need to be used for feeding to the animal was given.



3 ICAR - Krishi Vigyan Kendra, Belagavi - I

Ten Days training programme on "Fruit processing industry" – KVK Belagavi-1

Khadi and village commission industries, Hubblinl collaboration with ICAR BIRDS Krishi Vigyan Kendra, Tukkanatti, Belagavi-1 under Khadi Gramodyoga Vojana, organized 10 days training programme on "Fruit processing industry training" from 20.03.2023 to 29.03.2023. A total 100 women (10 SHGs) from four villages Viz, Akkatangerhal, Kanaseri of Gokak taluk, Tukkanatti of Mudalgi Taluk and Kadaklat village of Chikkodi taluka were participated in the training programme. While conducting this training programme. Smt. Mahadevi Patil and inaugurated the programme. Shri. R M Patil, Chiarman, ICAR Krishi Vigyan Kendra Tukkanatti delivered his presidential speech to the women to get benefit of this training programme and



start their own business. During these ten days different types of pickles using mango, bitter gourd, lemon, chili, karonda and amla and different types of fruit jam using, amla, apple, mixed fruit, and types of jelly, fruit juices and squash taught by the home scientist and other experts. These ten days programme was coordinated by Rekha Karabhari, scientist (Home science) delivered lectures focused on Fruit processing and scope and



importance of fruit processing. Dr. D.A. Mhetre, Senior Scientist and Head, advantages of adding value to fruits and marketing techniques of value added fruit products in detailed manner. Concluding this programme, Rekha Karabhari thanked all the trainees for sparing their valuable time to participate in this programme. Trainees applauded the efforts of KVK for imparting 10 days training.

4 ICAR - Krishi Vigyan Kendra, Mattikoppa Belagavi - II

KLE KVK, Belagavi - A decade of service to the farming community

The ICAR - KLE Krishi Vigyan Kendra, Belagavi-II was established on 30 September 2011. KVK is located on Belagavi-Raichur state highway (SH-20), 28 km away from Belagavi city. The operational area of the KVK includes Belagavi, Bailhongal, Ramdurg, Savadatti and Khanapur taluks. KVK has demonstrated various technologies like agroforestry unit, seed production blocks, automated fertigation unit, vermicomposting unit, dryland horticulture, dairy unit, goat unit, horticulture nursery, protected cultivation etc in an area of 63 acres to educate farmers for getting remunerative income for sustaining their livelihood. KVK has made its presence felt amongst farming community and built an excellent rapport with various line departments and stakeholders based on its mandate. The vision of the KVK is 'Take it to the Farmers' to ensure their livelihood security through sustainable agriculture. The organisation is disseminating knowledge to promote agriculture and allied sectors for enhancing farm productivity of the farmers. KVK serves farmers of the region based on their problem and provides remedial



measures. To provide instant remedies to the farming community, KVK has developed innovative approaches to reach large number of farmers of the district. Soil testing at farmers door step, Soil fertility index and fertilizer recommendation charts for the soil samples analysed at the KVK, Call to save crop-phone service by KVK scientists. KVK has also developed Mobile App consisting information starting from collection of soil sample to post harvest management. Farmers are using apps to review the health of the crops during the crop cycle.

Further, KVK is playing pivotal role in creation of job opportunities and self-employment opportunities among rural youth through skill enhancement and entrepreneurship development. In this direction, the KVK conducts various vocational training programmes to attract the farmers, farm women and rural youths towards agriculture and allied activities, wherein KVK



guides the trained farmers, farm women and rural youths for establishment of their own startup units for generating additional income to their family. All required skills for starting the enterprise is extended by KVK Scientists. In this connection, KVK has taken initiation in forming groups both for farmers and farm women. Commodity wise interest groups have been formed for farmers and self-help groups. These groups have been formed with an intension to support their family income. Besides extending various technologies to the farming community of the region for improving the farm production and profitability KVK is also identifying the progressive farmers who have made significant contribution in the areas of interest and KVK is documenting success stories as well as case studies in order to know about its achievements from time to time. Since, its inception, KVK has documented several success stories and case studies among the farmers and stakeholders since KVK is involved in promoting and adoption of latest technologies in various agricultural production systems. Further, these farmers and stakeholders have emerged as a role model to the other farmers as well. To promote them, KVK Scientists are encouraging these farmers time to time to apply for various regional and national awards, based on their contributions.

To achieve the potential yield in agriculture and allied



sectors, timely availability of good quality seeds, planting material, livestock breeds and bio-products are the primary requirement. In this direction, KVK is actively involved in production of quality technological products viz., seeds, planting material, bio-agents and livestock materials and supplying them to the needy farmers. KVK has made a platform for sale of technological products through its sales outlet. This facility is created for sale of technological products produced by the KVK to build

brand value of the KVK. 'Kisan Bazar' is one stop sales counter with a single window system for providing critical inputs like high yielding varieties of seeds of field crops, vegetables, flower, fertilizers (major and micro nutrients), weedicides, herbicides, bio-agents, plant protection chemicals to the farmers of the region. KVK Scientists are actively involved in seed production activity of Cereals (Paddy, Rabi jowar and Wheat), Pulses (Green gram, Black gram and Bengal gram), Oilseeds (Soyabean and Groundnut) and Onion.

5 ICAR - Krishi Vigyan Kendra, Bengaluru Rural District

Vermicompost Training Programme under ARYA project

Organized six days Skill development training programme on "Vermicompost production as an Enterprise" under ARYA project to Rural youth at ICAR-Krishi Vigyan Kendra, Hadonahalli, Bengaluru Rural District from 13th to 18th March 2023.



During the training programme various technical sessions on vermicomposting viz., collection of organic waste, breeding and life cycle of earth worms, production of vermicompost, importance of vermicompost in maintaining the soil fertility, nutrient composition of

vermicompost, application of vermicompost for various crops, pest management in vermicomposting, demonstration of preparation of vermi beds and marketing avenues for vermicomposting and its by-products were covered.

All 20 Rural youth were benefited from the skill training programme. Critical inputs viz., vermi bags, earthworms, sieves, rose can and training manual were provided at free of cost to all the trainees in order to encourage them to take up vermicomposting as an enterprise.

Inauguration programme of Global millets Conference

In collaboration with ICAR-AIARI, Bengaluru, ICAR-Krishi Vigyan Kendra, Bengaluru Rural District organized live telecast programme of Inauguration of 'Global millets (Shri Anna) conference' on 18.03.2023. The Hon'ble Prime Minister, Govt. of India, while addressing the nation briefed that based on India's proposal, the year 2023 was declared as the International Year of Millets (IYM) by the United Nations General Assembly (UNGA). Also, in line the Hon'ble Prime Minister shared his vision to make the celebrations of IYM 2023 as a 'people's movement' and make India as the 'global hub for millets'. Hon'ble Prime



minister also addressed the steps and actions taken by the ICAR-New Delhi and ICAR-Indian Institute of Millet Research, Hyderabad towards promotion of millets and their consumption.

Dr. Srinath Dixit, Principal Scientist and Former Director, ICAR-AIARI, Bengaluru, participated as chief guest and highlighted the importance of millets in recent

days. Dr. J. Venkate Gowda, Senior Scientist & Head, ICAR – KrishiVigyan Kendra, Bengaluru Rural District briefed about the cultivation of millets under rainfed situation. Smt. Meghana SM, Scientist, Home Science delivered a lecture on importance of nutri millets, processing, value addition and market linkage of millets. Totally 45 farmers and farm women were participated in the programme.

6 ICAR - Krishi Vigyan Kendra, Bidar

Modern Poultry Farming – for daily income

The poultry farming became integral part of livestock farming. Its contribution towards economy was greater. There is increase of 16.8 per cent in the poultry population which represents increasing interest of livestock farmers toward poultry farming year by year. ICAR KrishiVigyan Kendra, Bidar conducted 3 days Vocational training programme on "Modern Poultry Farming" for income generation and to enhance the farm productivity from 6th to 8th March 2023. Dr. Yogendra Kulkarani, Chief Veterinary Officers, animal husbandry and veterinary services, Bidar inaugurated the programme by watering plant and in his inaugural address briefed about various



schemes, insurance and importance of vaccination in poultry birds. Dr. Akshaykumar Scientist (Animal science) explained about the 3 days vocational capacity building programme in details and given talk on feeding procedure and method of preparation for the poultry birds. Dr. Sunil Kumar N.M., Senior Scientist and Head, ICAR KVK-Bidar

chaired the programme and briefed about the KVK activities, facilities available at KVK and urged the farmers for engaging themselves in poultry for regular farm income.

During the 3 days capacity building program, farmers were briefed about the modern poultry farming, identification and treatment of various diseases, breeding management and management during summer and winter season, feeding concepts. The exposure visit was also organized to KVK Poultry demonstration units. Sri. Sanjeev Kumar Basappa Ropa from Mamdapur village a KVK techno farmer gave information about vaccination to the poultry birds. A team of scientists and technical staff such as Dr. Akshaykumar, Dr. Ningadalli Mallikarajun, Sri Siddhu Manige, Rakesh and Mallikarajun Kodamabal co-ordinated the entire program. A total of 55 farmers, including 25 women farmers attended the program and got benefited.





7 ICAR - Krishi Vigyan Kendra, ChamaraJanagara

International Millets Conference

International Millets Conference 2022-23 held at NASC Complex, Pusa, New Delhi was live telecasted to the farmers at **ICAR KVK ChamaraJanagara**. The programme was inaugurated by Honorable Prime Minister Narendra Modi Ji. He urged to make India as a



'global hub for millets' and to promote and spread awareness about the benefits of millets (Shree Anna) for the cultivator, consumer and climate. The organization of Global Millets (Shree Anna) Conference in India was an important programme which covers sessions on all important issues related to millets (Shree Anna) like promotion and awareness of millets among producers, consumers and other stakeholders; millets' value chain development; health and nutritional aspects of millets; market linkages; research and development etc., was conveyed by PMO. On occasion of this event, **one day training programme** on the theme of "**Millets for opportunity in Natural farming**" was organized at KVK premises. Dr. Shruthi M. K., Scientist (Agronomy), explained about the cultivation aspects of millets, nutritional benefits to combat malnutrition, anemic and other nutritional issues in children and women. At KVK, the live broadcast was viewed by 55 participants.

8 ICAR - Krishi Vigyan Kendra, Chikkaballapura

ICAR-KrishiVigyan Kendra, Chikkaballapura in collaboration with National Research Centre for Integrated Pest Management, (NCIPM) New Delhi organized on campus training programme on integrated pest management in mango on 21.03.2023. Dr Raghavendra, Scientist, NCIPM, New Delhi emphasized on integrated pest management practices in mango for good yield. Dr Papireddy, Senior Scientist and Head highlighted about importance of adoption of



IPM practices in reducing the cost of cultivation. Dr Nandan, Assistant professor (Plant pathology) explained about disease symptoms and their management practices. Dr Narasareddy, Assistant professor (Agril. Entomology) explained about insect damage and their management practices. Method demonstration on use of fruit fly in mango orchards was demonstrated and folder on IPM practices in Mango was released during the programme.

Three days Entrepreneurship development programme on Horticulture Nursery Production and practice of fruit crops was organized at ICAR-KVK, Chikkaballapura from 25.3.2023 to 27.03.2023. Dr P Venkaravana, Dean, College of Sericulture along with other dignitaries inaugurated the programme. Dr R. Vinay Kumar, Associate Director PPMC, UAS, GKVK, Bengaluru emphasized on entrepreneurship development in



horticulture sector, Dr Papireddy, Senior Scientist and Head explained about importance of nursery techniques in establishment of nursery. Various technical sessions were conducted. Dr Praveenakumar, Scientist, Horticulture organized exposure visit to different nurseries. Extension literatures were released during the event.



9 ICAR - Krishi Vigyan Kendra, Chikkamagaluru

Best Stall Award

ICAR Krishi Vigyan Kendra, Chikkamagaluru received best stall award during National Horticulture Fair-2023 held at Indian Institute of Horticultural Research (IIHR), Bengaluru.



One day Vocational training on employment and income generating enterprises to small Coffee growing women

ICAR Krishi Vigyan Kendra, Chikkamagaluru has organized One day Vocational training on employment and income generating enterprises to small Coffee

growing women in collaboration with Coffee Board, Aldur, Liaison zone, Chikkamagaluru district on 16.03.2023 at KVK premises.

Dr A. T. Krishnamurthy, Senior Scientist and Head, KVK, Chikkamagaluru inaugurated the programme and in his inaugural speech said that, "nation develops economically on the global front, then its very important to have "Women empowerment". Women empowerment makes the women economically independent. Further advised that Government has launched many skill development programmes and KVK also organizing trainings and capacity development programmes for the benefit of women make utilize these programmes.





During this training period farm women were trained about selection of developed varieties, soil sampling, soil analysis, fertilizer recommendations, incidence of major pest and diseases and their management, improved production technologies, post-harvest technologies and value addition of the crops

On this occasion Mr. Vishwanath Hadagali, Senior Liaison officer, Coffee Board, Mudigere, Krishi Vigyan Kendra Scientists and staffs were attended and total 20 farm women participated and got benefit out of this programme.

10 ICAR - Krishi Vigyan Kendra, Chitradurga

Field day on Onion seed production

Field day on Onion seed production a flagship programmewas organized by ICAR-KVK, Chitradurga at Chippinakere village of Chitradurga taluk on 28-03-2023. The programme was inaugurated by DrB. Hemla Naik, Director of Extension, KSNUAHS, Shivamogga.



He briefed the gathering about the importance of Onion seed production is a remunerative activity for doubling farm income. He stressed on good quality and certified seeds for production. In India, there is a requirement of 9.0 lakh tonnes Onion seeds of which 40 per cent is produced by the scientific community and remaining 60 per cent is to be produced by farmers association or groups and also suggested to adopt organic farming and natural farming for improvement of soil health.

DrPrakash Kerure, Scientist (Horticulture), KVK welcomed the gathering and DrKumara .O., Senior Scientist and Head of the KVK gave introductory speech about the field day and onion seed production. The onion

seed production to be tagged for certification process by involving KSSCA for better quality seed production which fetch better price in market.

Dr.Sharanappa Jangandi, Associate Director of Research, ZAHRS-Hiriyur, Sri. Ashok K, Onion seed grower, Chippinakere village of Chitradurga taluk and DrPreethi, Scientist (Ag. Extension) were present in the programme.



World Water Day

A programme on World Water Day was organized by ICAR-KVK, Chitradurga in collaboration with IAF at Chitradurga on 27-03-2023.

The Programme was inaugurated by Dr. Ramesh Kumar, JDA, Department of Agriculture, Chitradurga. During his inaugural speech he discussed about the rainfall received in Chitradurga district during the last year. The average rainfall received was around 540mm, which is equivalent to 175 TMC of water that will be used for rainfed crops of Chitradurga district. He also stressed on efficient use of rain water by making roof water

harvesting, borewell recharge and soil water conservation in farms.

The Sr Scientist and Head, KVK, Dr. Kumara O., was the chief guest for the programme. He briefed that



75 per cent of land area is covered by Sea water, which cannot be used for agriculture purpose because of heavy salt content in the water. Only 2 per cent of fresh water can be used for agriculture and drinking purpose. He also suggested for adopting drip and sprinkler irrigation method for efficient use of water in agriculture.

A special lecture on Water Day was delivered by Mr Devaraj Reddy, Geologist, Chitradurga district. He also stressed on water conservation practices, Borewell recharge and drinking water.

Mr Veerabhadra Reddy, The Secretary, IAE, Mr Praveen Chowdhary, Assistant Director of Agriculture, DATC, Chitradurga were present during the programme.

11 ICAR - Krishi Vigyan Kendra, Dakshina Kannada

Block level seminar on Integrated Crop Management in Coconut

The ICAR-Krishi Vigyan Kendra (Dakshina Kannada) Mangaluru in association with Coconut Development Board (Ministry of Agriculture and Farmer welfare, Government of India) Regional Office, Bengaluru organized the Block Level Seminar on "Integrated crop management in coconut" at panja village of sullialaluk. The seminar was inaugurated by Mr. Krishna Bhat,



Progressive Farmer shared his rich experiences with the farming community. Mrs. Suhana P.K., SADH, Department of Horticulture, Sullia graced the occasion as chief guest briefed about the schemes and activities conducted by the department. Dr Rashmi R., Scientist (Horticulture) coordinated the programme and highlighted about the present status and future scope for the development of coconut orchards in the district. Dr Kedarnath, Scientist

(Plant Protection) ICAR-KVK, Dakshina Kannada explained about scientific methods of plant protection technologies for effective management of pest and diseases. Mr Ganesh Pal, President of Primary Agricultural Credit Cooperative Society Limited, Panja, Sullia, Mr. Theertananda, President, Parivara Panja Farmer Producer Company Limited and other officials of the FPO were also participated in the programme. Total 52 Farmers/farm womens and extension officials participated in the programme.

Dr Rashmi R., Scientist (Horticulture) ICAR-KVK, Dakshina Kannada, participated as a resource person and explained about scientific methods of coconut cultivation



Dr Kedarnath, Scientist (Plant Protection), ICAR-KVK, Dakshina Kannada, highlighted about the integrated management of pest and diseases in coconut.



Capacity development programme for Krishi Sakhis

KVK organised the capacity development programme for second batch of Community Resource Persons of Farm Livelihood (Krishi Sakhis) from 27.03.2023 to 01.04.2023. The programme was organised in association with SANJEEVINI- KSRLPS, Department of Skill Development, Entrepreneurship and Livelihoods, Government of Karnataka, Zilla Panchayath, Dakshina Kannada. Shri. K. E. Jayaram, Project Director, Zilla Panchayath, Dakshina Kannada inaugurated the programme and



appraised about the role of Krishi Sakhi's at panchayath level as well as appreciated the role of KVK in training Krishi Sakhis. Dr T. J. Ramesha, Senior Scientist and Head, presided over the programme and opined that Krishi Sakhis should actually involve in doubling of farmers income and for farmers extension functionaries. Dr Naveen Kamath B. T., Programme organiser and Scientist (Agronomy) coordinated the programme. Mr Pradeep Kamath, Taluk Programme Manager and staff from Zilla panchayath, KVK, Dakshina Kannada were present.



12 ICAR - Krishi Vigyan Kendra, Davanagere

Participation in Krishi Mela

ICAR-Taralabalu Krishi Vigyan Kendra, Davanagere participated in the Krishi Mela organized by KSNUAHS, Shivamogga during 17-20 March 2023. Exhibits in the form of charts, models and samples of millet production, Processing value addition and marketing were displayed to commemorate International Year of Millets 2023. Literature on millets were distributed on the occasion.



Report on Global Millets conference inauguration and Training program

The live telecast program of Honorable Prime Minister Shri Narendra Modi Ji inaugurating the Global Millet Conference was shown to the participants at ICAR- Taralabalu KVK, Davanagere.

Training program on "Millets for Opportunity in Natural farming"

The program was inaugurated by Mr Chandrupa C.I Retired ADA, Davanagere and in speech he expressed that millets are very essential in the daily life and every one should at least have a millet meal a day.

Mr Mallikarjuna B.O., Scientist (Agronomy) delivered lecture on the improved production technology of millets. The highlights of the lecture was

- International year of millets 2023
- Millets are suited for rainfed farming and are drought tolerant
- Best suited for the natural farming cultivation

- Climate resilient technologies
- Chemical free farming and good for health

Mr. Raghu, Kulambi Millet Entrepreneur shared his thoughts on the value addition of millets especially in preparation of the cookies and energy mix. Mr. Raghu who is a beneficiary of PMFME scheme and started his small industry in Kulambi. He expressed that farmer can double his income if he goes for value addition of these millets. Now he is producing the cookies of Foxtail millet, Barnyard millet, Proso millet and finger millet. Krishi Vigyan Kendra has marketed more than 50,000 cookies in 4 months.

Dr. Devaraja T.N., Senior Scientist and Head explained that India is the future market for millets and all dry land farmers will be encouraged to grow millets and government of Karnataka has announced to give Rs.10000 per ha. Incentive to the farmers who will grow the millet for the year 2023.

145 participants comprising urban millet lovers, farmers, students, CEOs and Directors of FPOs and Krishi



Vigyan Kendra staff attended the program. Exhibition was organized on the eve of international year of millets.

ICAR-Taralabalu Krishi Vigyan Kendra, Davanagere, Road named after Krishi Vigyan Kendra

The road connecting Vidyanagara main road and BIET circle which passes through Krishi Vigyan Kendra entrance is named 'Taralabalu KVK Road' by city municipal corporation. This indicates the growing popularity of ICAR-Taralabalu Krishi Vigyan Kendra, Davanagere among general public and farmers. The special programmes namely; 'Saturday Organic Bazaar', 'Kasa Rasa Abhiyana', 'Terrace Gardening', Orientation to 2nd PUC passed students for admission to farm universities etc. are very popular among general public. This will encourage the Krishi Vigyan Kendra to achieve new heights.



Attended Biofloc based Fish Farming training

ICAR-Central Institute of Freshwater Aquaculture, Bhubaneswar conducted five days National Training on Biofloc based Fish Farming from 14-03-2023 to 18-03-2023. Dr. Avinash T. G., SMS (Plant Protection) participated in the training program. Training comprises the theoretical and practical aspects on soil and water quality management with special reference to biofloc system of farming. Information was also provided on biofloc based nursery and grow out technology for sustainable



intensification in aquaculture, disease prevention and health management of fishes in biofloc system. Visited biofloc units and feed mill.



Celebration of Radio Kisan Day

Radio Kisan Day was celebrated in collaboration with All India Radio, Chitradurga. The main theme of the program was "International Year of Millets" – Production, value addition and marketing of Millets.

The program was inaugurated by Dr Devaraja T.N., Senior Scientist Cum Head. In his speech, he expressed that Radio is the important media and it plays an important role in spreading information on new technologies and practices about agriculture among the farming community. The main motto of International Year of Millets 2023 is to encourage farmers to grow millets and they have to sell millet products with their own branding through value addition. He added that the



consumers in domestic market are huge opportunity for millets. "A day, A millet" could be the slogan to motivate the consumers highlighting the health benefits of millets. He urged for more processing centres, at least one per block in the district.

Mr Mallikarjuna B.O., SMS (Agronomy) delivered lecture on the production technology of millets namely Foxtail millet, Pros millet, Kodo millet, Barnyard millet and Korale, which can be grown in Kharif.

Dr. B.R. GangadharVarma, Yoga and Naturopathy specialist informed the gathering about nutritional significance of millets and healthy living styles.

Dr. A.M. Maruthesh, Extension leader, ZAHRS, Katlagere, gave a lecture on value addition of millets.

Mr Raghunath Entrepreneur who got training on the preparation of the Banana central core stem based juice, at NRC for Banana, Tiruchirappalli. He shared the method of juice preparation with audience.

Pearl millet cum Finger millet juice was served to all as a special millet drink which was prepared by Smt. Sarojamma Patil, Nittur

The program was attended by Mr Thippeswamy, DDA, Davanagere, Mr Renukaprakash, Head, AIR, Chitradurga staff of AIR and KVK and 200 farmers from all over the district.

13 ICAR - Krishi Vigyan Kendra, Dharwad

Animal Health Camp

ICAR-Krishi Vigyan Kendra, Dharwad in association with ICAR-Indian Institute of Pulses Research, RRC, Dharwad and Department of Animal Husbandry and Veterinary Services, Dharwad conducted Animal Health Camp at Kamalapur village on 27.03.2023. During the programme, Shri Shrinivas Kotyan, Hon'ble Member, Board of Management, University of Agricultural Sciences, Dharwad told that human health, soil health and cattle health are complementary to each other and we need to create awareness about these three issues for agriculture development. Dr M. S. Biradar, Senior Scientist and Head, ICAR-KVK, Dharwad addressed the farmers about the importance of animal health camp and also to improve the health of cattle, farmers should not depend only on medicine but livestock should be supplemented with balanced ration. Dr Jayashree Pattar, Scientist (Animal Science) explained the farmers about the zoonotic

disease and preventive measures, also importance of feeding the leguminous and non leguminous green fodder in livestock. Total 86 livestock were treated for anestrus, mastitis, tick infestation, debility, lameness, bloat, diarrhoea and other conditions. More than 40 farmers were participated in the camp, mineral mixers and deworming agents were distributed to the farmers.



Dr. M. S. Kodandarama, ICAR-Indian Institute of Pulses Research, Dharwad, Dr. Chamaraja Pujar, Veterinary Officer, Veterinary Hospital Polyclinic, Dharwad, Dr. Sharanbasava S. Sajjan, Veterinary Officer, Veterinary Dispensary, Uppina Betageri, Dr. Nagaratna Biradar, Head, Indian Grassland and Forage Research Institute, Dharwad were participated as resource person and provided the suitable information for successful conduct of Animal Health Camp.

Training on women in dairy farming sector

ICAR-KVK, Dharwad organized five days capacity building training on Scientific Dairy Farming for farm women from 14.03.2023 to 18.03.2023. On the day of training, farm women were pre-evaluated for their knowledge on dairy farming by setting up the questioner



During the training programme, lectures on importance of livestock in IFS, breeds, selection of animals and importance of A2 milk, cross breeding and AI methods, major green fodder cultivation practices, housing system and waste management, cultivation and method demonstration on azolla and hydroponic management, feeding practices, balanced ration, use of farm residues and method demonstration on jeevamruta preparation, fodder conservation methods, facilities and schemes in Dept. of Animal Husbandry and Veterinary Services were



arranged. On last day prevention and control of diseases in dairy animals, maintenance of registers and project report preparation, facilities and schemes in bank, insurance etc were taught. After the training, post evaluation was done and certificates were distributed to the participants. Exposure visit to progressive dairy farmers was also arranged. About 30 farm women were participated in the training.

Webcast programme of International Millets Conference by ICAR-KVK, Dharwad

ICAR-KVK, Dharwad has organized webcast programme of inauguration of International Millets Conference by Hon'ble PM held at NASC Complex, Pusa, New Delhi on 18.03.2023. Dr. M. S. Biradar, Senior Scientist and Head, ICAR-KVK, Dharwad highlighted the importance of International Millets Conference and



translated the Hon'ble Prime Minister Shri Narendra Modi's address in regional language to the farmers and farm women. After the webcast programme, training on "Millets for opportunity in Natural farming" was



organized. Dr. Prasanna Kumar B. H., Scientist (Agronomy) enlightened the farmers about production of millets, Dr. Jayashree Pattar, Scientist (Animal Science) provided information on use of millets as nutritional fodder in livestock and fodder conservation methods during lean



period, Dr Shweta Biradar, Scientist (Home Science) highlighted on value addition of millets, importance of millet traditional recipes, scope of millet in bakery. Dr. Airadevi Angadi, Scientist (Horticulture) delivered lecture on millet as intercrop in horticulture orchards, Dr Vinutha U Muktamath, Scientist, AICRP-WIA, MARS, Dharwad participated as resource person and delivered lecture on health benefits of millets, importance of millets in secondary agriculture. Food prepared from millets were served to the participants. During the programme about 47 farmers and farm women from Honnapur village, staff of ICAR-KVK, Dharwad were present.

Farmers visit to ICAR-KVK, Dharwad

Farmers from Maharashtra state visited ICAR-KVK, Dharwad on 20.03.2023 and 27.03.2023. Dr Jayashree

Pattar, Scientist (Animal Science) and Dr Airadevi Angadi, Scientist (Horticulture) interacted with the farmers and explained about the activities of KVK and visited various demonstration units.



14 ICAR - Krishi Vigyan Kendra, Ernakulam

Workshop on Millet farming organized

KVK Ernakulam along with Kisan Service Society organized a one day workshop on Millet farming in connection with the Global conference on Millets organized at NASC, New Delhi on 18th March, 2023. Honourable Prime Minister Shri Narendra Modi Ji inaugurated the national level programme. KVK's district level seminar was organized at St Thomas Church auditorium, Karumalloor Shri. S. Suresh, National General Secretary, Kisan Service Society was the guest of honour. Karumalloor Panchayath President Smt Sreelatha Lalu presided over and the programme was inaugurated by Ernakulam District Panchayath Vice president Smt. Sanitha Rahim. The technical sessions on millets were led by Shri Bijumon Zachariah, Asst. Director, District Agri Farm, Idukki and Shri Shoji Joy Edison, Subject Matter



Specialist- Horticulture of ICAR- KVK Ernakulam. An exhibition of various millet crops and value added products from millets was also arranged. Progressive farmers attended.



Orientation on Cage fish Farming in open brackish water creeks

One day Orientation on Cage fish Farming in open brackish water creeks for prospective farmers was conducted in collaboration with Palliyakkal Service Co-operative Bank Ltd, Ezhikkara, on 20th March 2023. The successful trainees will be further financially supported by Palliyakkal Service Co-operative Bank. Dr PA. Vikas, Subject Matter Specialist (Fisheries) led the orientation and field visits to potential fields.

Awareness program for fish farmers

An awareness program on Present issues and solutions and the way forward in Aquaculture was conducted by Dr PA Vikas Subject Matter Specialist (Fisheries) in the

Awareness Hall Fisheries Complex on 27th March 2023. The program was organized for fish farmers and fisheries coordinators in Ernakulam district by the Department of Fisheries, Ernakulam.



15 ICAR - Krishi Vigyan Kendra, Gadag

Workshop on "Energy Conservation in Agriculture"

Workshop was organized on 09-03-2023 and 11-03-2023 at ICAR-Krishi Vigyan Kendra, Hultoti, Gadag District sponsored by Petroleum Conservation Research Association (PCRA), South Zone, Chennai. Dr Vinayaka H Niranjan, SMS (Ag. Engg.) elaborated about the energy



input status in Indian agriculture, energy utilization pattern in agriculture, importance of conserving petroleum products and operating procedures to be followed to conserve energy sources. Participants interacted with the speaker and shared their experiences on the workshop topic. Farmers raised queries on efficient utilization of diesel engine operated agricultural machines and later discussed about installation and maintenance of solar pumps and wind mill pumps. Literatures in vernacular language were distributed to the participants, Dr Gururaj Kombali concluded the workshop with a vote of thanks.

Seminar on Secondary Agriculture

Zilla Panchayat, Gadag, ATMA, Gadag, Agriculture Department, Gadag and ICAR-K.H.Patil Krishi Vigyan Kendra, Hultoti jointly organised felicitation of progressive and awardee farmers and seminar on secondary agriculture on 10.03.2023 at KVK Campus. The





programme was inaugurated by Smt. G.H. Bramani, Joint Director of Agriculture, Gadag and spoke on importance of secondary agriculture in the present era. Further, she briefed the various facilities, programmes provided to farmers, SHGs and FPOs for taking up activities on secondary agriculture. Dr. A.S. Vastrad, Director of



Extension, Chief Executive Officer, RKVY-RAFTAAR Incubation Centre, UAS, Dharwad addressed the gathering about incubation centre, the working pattern, selection of entrepreneurs and the innovation of products. Dr.C.M.Rafee, Head, ARS, Hombal spoke on various technologies and varieties developed by UAS Dharwad to overcome the pest and disease problems and to enhance the farmers income. Dr.S.L.Patil, Extension Leader, AEEU, Gadag briefed about the importance of secondary agriculture. Dr.Sudha V Mankani, SMS (Home Science) spoke on value addition in agriculture and horticulture crops. On this occasion 35 farmers were felicitated from the taluka and district with shrestha krishika awards. After the programme the lectures about incubation centre, value addition, PMFME programmes were organised. More than 150 farmers participated in the programme.

16 ICAR - Krishi Vigyan Kendra, Hassan

Workshop on Importance of millets in Natural Farming

Agriculture and Farmers Welfare and Indian Agricultural Research council, Government of India organized a International conference on millets (Sri Anna) on Saturday 18-03-2023 as part of the International Year of Millets-2023. In this regard, ICAR-Krishivigyan Kendra, Kandal, Hassan organized a one-day workshop for farmers on importance of millets in Natural Farming. During the workshop information was given to the farmers and farmer women about the importance of millets, millets production, value addition and marketing. The inaugural speech of Hon'ble Prime Minister of India



Shri Narendra Modi Ji on millets conference (Sri Anna) was telecasted live from New Delhi and awareness created to the farmers on Sri Anna Sammela.

Retired Director of Education, Keladi Shivappa Nayak Agricultural and Horticultural Science University,



Shivamogga, Dr. M. Manjunath participated and inaugurated the workshop and said that farmers should get rid of dependence on chemicals and adopt natural farming for sustainable agriculture. In this program, scientists of the KVK, Dr. Sivashankar M., Dr. Nagaraja, T., Dr. Shrinivas Deshpande, Dr. Arunkumar B.R., Dr. Pallavi, N., Dr. Sanket, C. V., Desi Facilitator Ms. Supreeta, T. and farmer, farm women of Hassan district were participated and benefited.

Natural Farming training programme

ICAR-Krishi Vigyan Kendra, Kandali, Hassan organised the Natural farming training on 17.03.2023 at KVK, Kandali, Hassan. Dr Rajegowda, Senior scientist and Head, KVK, Hassan has inaugurated the programme and during his inaugural address he said that excessive use of chemicals and monoculture without prioritizing crop diversity has led to many upheavals in agriculture and also declined the soil fertility and microbial populations in the soil.



Dr Arun Kumar, B. R., Scientist (Soil science), KVK Hassan has organised the training and during his introductory remarks he said that the farmers of the country depended on natural farming since ancient times. However, gradually high-yielding varieties, chemical fertilizers and pesticides were introduced to farmers through the Green Revolution in the hope of producing

more food. He praised the farmers for producing more food grains using these and brought food security in the country. Further he said that, in recent times farmers are feeling that agriculture is not profitable due to the high cost of production and dependence on external tools, so following chemical-free agriculture, natural farming looks promising to revitalize the soil and this training has been organized to make the farmers aware of this.

In the program, KVK scientist Dr Srinivasa Deshpande addressed the farmers about soil and water conservation through zero budget natural farming. Plant Protection Scientist Dr Nagaraja, T., explained about the importance of neemastra, brahmastra, agnistra, dasaparnikashaya, ulmajige and shunthistra which can be prepared by the farmers from the materials available in nature to manage diseases and pests in natural farming.

Mt Manjunath, progressive farmer of Kakhikoppalu village of Alurtaluk has informed the farmers that he has practiced natural farming in his farm and earning good income by growing non-toxic food crops. Later, a demonstration was held on the preparation of Jeevamrita, Bejamrita and Ghanjeevamrita.

In this program, scientists of the KVK Dr Silvashankar, M., Dr Pallavi, N., Dr Sanket, C. V, Desi facilitator Ms. Supreeta, T., farmer and farmer women of Hassan district were participated and benefited from the training programme.

17 ICAR - Krishi Vigyan Kendra, Haveri

Training programme on "Capacity building of women in dairy farming sector"

ICAR- Krishi Vigyan Kendra, Haveri (Hanumanamatti) conducted five days training programme on "Capacity building of women in dairy farming sector" sponsored by National Commission for Women, Government of India, New Delhi. The programme was inaugurated by Dr Guruprasad.G.S, Senior scientist and Head, KVK Haveri. In his speech he explained about importance of dairy animals in integrated farming system and role of women farmer in Indian dairy sector. The training programme was organised by Dr Mahesh Kadagi Scientist (Animal Science), KVK Haveri. He briefed about purpose of the training and Schedule of the training. During Five days of training programme all the topics including different breeds of dairy animals, selection of dairy animal, balanced feeding,



fodder cultivation, green fodder conservation, dry fodder enrichment, Animal disease management, Calf and heifer feeding and management, Azolla, Fodder trees and Hydroponic fodder, Vermicomposting, milk value addition,



reproductive efficiency in dairy animals, Natural farming bioinputs like jevemrutha, Ganajevamrutha, Gokrupamrutha etc. Experts from Department of Animal Husbandry, Karnataka Milk federation were invited for the programme. Demonstration like California Mastitis Milk test, teat dipping, and machine milking and full hand milking were arranged. Exposure visit to progressive dairy farmers field were arranged. Trainees were taken to JevakoshGir Farm owned by Smt. Sahana Honnatti, Meduru, Shri.Basavaraj Hulikatti Dairy farm, Chalgeri and Buffalo farm owned by progressive farm women Smt.Vijaya at Gangapura. On fifth day closing ceremony was preceded by Dr. J S Hilli, Dean and Campus Head, Agriculture College, Hanumanamattti and Chief Guest

Dr. Shripad Kulkarni, Nodal office KVKs UAS Dhrwad. All 30 women trainees were given the certificates by guests for successfully completing the training programme.



18 ICAR - Krishi Vigyan Kendra, Idukki

KVK Idukki implements Integrated farming Units in different villages

Integrated Farming System (IFS) is the integration of various enterprises leads to the increase in production, sustainability, employment opportunities and reduce the socio-economic risks for the millions of small and marginal farmers which added account for a major share in Indian agriculture. Keeping in view to overcome the ever increasing population and demand for food, fodder and fuel, the adoption of IFS models which suited to the different farming sectors is to be formulated and ensured



the proper awareness towards the farming community. KVK, Idukki has implemented five IFS models in different locations of the Idukki district in which KVK Idukki has supplied critical inputs like Azolla establishment unit, Vermi compost construction unit, Hybrid Napier fodder cuttings/slips and Fingerlings to the selected beneficiaries

in addition to the existing components in the farmer's field. The objectives of this IFS scheme is to develop and establish Integrated Farming System models for demonstration and training of the small and marginal farmers and also to promote 5 IFS units for improving the productivity, income, nutrient security and minimize risks in farming among the farmers of the Idukki district and to facilitate the cross learning and best practices of IFS components namely agriculture, animal husbandry, fisheries and other allied activities will be ensured among the farming community of Idukki district for improving income per unit area. The Expected outcomes will be increasing employment man days for the farm families and nearby agricultural laborers. Effective utilization and recycling of farm resources for minimizing cost and risk in agriculture. Overall impacts would be the doubling the farmer's income thereby capacity of other non-project farmers to adopt integrated farming system model. The other measurable impact would be effective utilization of available resources, recycling of farm waste, increasing employment days in the villages, ensuring nutrient security at village level and enhancing the livelihood status of the farming community. The activities taken up by KVK, Idukki are Group Formation Identification and demarcation of sites, Land preparation, training and capacity building Monitoring the outcome of the project activities and harvesting Monitoring and strategies for sustaining the IFS model and up scaling the IFS model in other areas. The integrated farming system models established through farmer participatory process,

including technological interventions for diversification of cropping system appropriate to the local community as well as subsidiary enterprises for income generation. The interventions included various spices crop aiming at year-round farm income, subsidiary enterprise comprising of animal husbandry and Fishery component, recycling of waste biomass through vermicomposting. Significant improvement in income was achieved through crop and enterprise diversification by improving the share to the extent of more per cent compared to the income from spices alone, and also it can be useful as subsidiary enterprises like rearing of livestock, Poultry and fishery were also considered. The major crop components and the annual income obtained from those units are:

cardamom, pepper, coffee, cocoa, dairy cattle-milk, poultry eggs and fingerlings.



19 ICAR - Krishi Vigyan Kendra, Kalaburagi - I

“Global Millets (Shree Anna) Conference”

University of Agricultural Sciences, Raichur, ICAR-Krishi Vigyan Kendra, Kalaburagi-I and Gram Panchayat, Aurd (B) jointly arranged live telecast on “Global Millets (Shree Anna) Conference” on 18th March, 2023 under ‘International Year of Millets 2023’ organized by Ministry of Agriculture & Farmers Welfare association with various other ministries and departments of Government of India. In this programme, after live telecast addressed to the participants by Dr Raju G. Yeggelli, Senior Scientist & Head welcomed the gathering and briefed about the role of KVK and their activities in strengthening the agriculture sector in district. During the programme, Farmers - Scientists interaction was arranged during the session farmers asked series of questions on importance of millets, natural farming, organic farming, processing opportunities, preparation of millets products, marketing opportunities, importance soil and water test, improvement of soil fertility, soil and water conservations methods, vermi compost methods etc., ICAR-KVK, Kalaburagi-I scientists were given answers and suggested to practice in their filed.

Dr. Yusuf Ali Nimbaragi, Scientist (Agronomy), explained about Improved Agronomic Practices of Millets and Scope of millets in Kalaburagi region. Dr. Shreenivas B V, Scientist (Soil Science) who delivered a lecture on Importance of summer ploughing, soil & water testing in Agriculture and importance of millets and benefits of usage of millets products in our diet.



Later, participants visited different demonstrations units of KVK. Dr M. C. Patil anchored the programme and Dr Zaheer Ahmed, Scientist (Pathology), thanked the guests and participants. Sanjeev Aurd, Nagaraj NRLM, Zilla Panchayat, Kalaburagi, KVK staff and 67 farmers from different villages of Kalaburagi district were participated in the programme.



“Crop Health Specialists”

ICAR-Krishi Vigyan Kendra, Kalaburagi-I and Mother NGO Sira, Tumakuru dist. jointly organised three day training programme on “Empowering Rural youths to serve as Crop Health Specialists” to rural youths of FPOs, Gram Panchayat and Krishi Sakhi of Kalaburagi district from 15.03.2023 to 18.03.2023.



In these training programme gave 10 different classes with respect to role of youths in agriculture, importance of crop health, casual groups for plant diseases and symptoms, damage estimation, insect feeding symptoms, identification of field problems, weather alerts, Sativus app installation and study, mobile apps uses, Importance of soil & water test, weed problem in agriculture, crop weed competition, diagnosis of nutritional disorder, deficiency symptoms, signs and identification of pest and diseases of major agriculture and horticulture crops from various scientists of the university and exposure visited to progressive farmers field and demonstration units. The KVK staff and Master NGO staff explained the importance of crop health.

“Animal Health Camp”

ICAR-KVK, Kalaburagi-1 organised Animal Health Camp at Harsur village, Kalaburagi taluk in association with



National Service Scheme (NSS) students of College of Agriculture, Kalaburagi and Department of Animal Husbandry & Veterinary Services, Kalaburagi on 20.03.2023. In this camp, 358 cattle and 151 buffalo were vaccinated against Foot & Mouth disease (FMD). Also, 88 cow calves and 49 buffalo calves were dewormed against endoparasites. Also, Method demonstration was shown on use of Ectoparasiticide on animal body growth of azolla under silypolin water bed method and silage making with Maize (SAT variety) with Poly ethylene bag method.



After this camp, off campus training was organised to farmers, farm women and NSS students of College of Agriculture, Kalaburagi. Dr. Manjunath Patil, Scientist (Animal Science), ICAR-KVK, Kalaburagi has explained on Profitable dairy farming viz., cattle & buffalo breeds, summer management of buffaloes, fodder cafeteria, prevention & control of bacterial, viral, metabolic and parasitic diseases of livestock. Dr. Devendra Biradar, Chief Veterinary Officer, Veterinary Hospital, Kalaburagi has told on zoonotic diseases of livestock, importance of milk & milk products, organisation of Karnataka Milk Federation (KMF).

Dr. Shraddha Shetty, Veterinary officer; Veterinary Dispensary, Harsur and Dr. Rajshekar Basnayak and Dr. Triveni, NSS Co-ordinators, College of Agriculture, Kalaburagi and Veterinary Livestock Inspector and Veterinary Assistants of Department of AH & VS, Kalaburagi are coordinated the animal health camp for successful completion.

Krishi Mela-2023

Krishi Mela-2023 on 16.03.2023 was organised at Shri. Dr. Siddaram Shivagyogi Shivacharyaru, Shakapura Mutt, Jewargi Taluk, Kalaburagi district. On eve of Krishi Mela, ICAR-KVK, Kalaburagi 1 was put a stall of agriculture

products and exhibition cum sale was done. Agriculture products like Vermi compost, Earth worms, Phosphate Buffer Saline (PBS), Rhizobium, Azospirillum, Azolla culture and silage fodder etc.

After the inauguration, Dr. S.A. Patil, former Vice-Chancellor, UAS, Dharwad presided the training cum interaction session of integrated organic farming system and importance of indigenous livestock breeds. During this training, progressive farmers and farm women of



Kalaburagi and Bidar district like Shri. Mallinath Kollu; Melakunda (B); Shri. Sharanbasappa Patil, Hal sultanpur; Smt. Sujata Patil, Kamalapur and Shri. Gurulingappa Meladoddi, Hudugi, was enlightened on integrated organic farming system. Dr. Manjunath Patil, Scientist (Animal Science), ICAR-KVK, Kalaburagi-I was spoken on Importance of Indigenous livestock breeds like Gir cow, Deoni, Khillari, Malnad Gidda and Sahiwal etc., totally 20 agriculture stalls were exhibited. The agriculture products stall was inaugurated by Shri. Dr. Siddaram Shivagyogi Shivacharyaru, Head of Shakapura Mutt. Krishi Vigyan Kendra, organized an exhibition stalls showcasing the technologies released by UAS, Raichur. During the programme, Farmers - Scientists interaction was arranged during the session farmers asked series of questions on importance of natural farming, organic farming, processing opportunities, improvement of soil fertility, soil and water conservations methods, vermi compost methods etc. Around 1000 farmers from different villages of Kalaburagi district were participated in the programme.

20 ICAR - Krishi Vigyan Kendra, Kalaburagi - II

Live webcast of Global Millets Conference (Shree Anna) organised at ICAR-KVK, Kalaburagi-II (Raddewadgi)

Global Millets Conference live webcast organised at ICAR-KVK, Kalaburagi-2 (Raddewadgi) on 18.03.2023 during the event Hon'ble Prime Minister Sri. Narendra Modi Ji released millets related post cards, Rs.75 Coin to commentate the event during the inaugural event international leaders from various countries highlighted the importance of millets and leadership for millets in India, all the international leaders appreciated modi ji for taking imitative on millets and "international Year of



Millet 2023". Later a training program conducted on importance of millets for health and nutrition.

Dr. N. Manjunatha, Sc Scientist & Head addressed the participants about "International Year of Millet 2023" and explained the production technologies of millets in the same line urged the participant consume millets and its products in daily diet. During the event 46 farmers and 6 officials witnessed the program. After event participants were served with millet palax.

Capacity building programme and field day on groundnut under CFLD on oilseed





ICAR-KVK, Kalaburgi-II (Raddewadgi) conducted the groundnut capacity building programme, field day and integrated crop management practices in groundnut under CFLD on oilseed at Kalhangarga village on 20-03-2023. Dr N. Manjunatha, Sr Scientist & Head, explained

about adoption of improved varieties and technologies like water management, optimum nutrient management and pest and disease management. The KSDA representative Mr Basavaraj also present during the programme. About 50 farmers were benefited from this program.

21 ICAR - Krishi Vigyan Kendra, Kannur

Capacity building for Adoption of Technology (CAT) Exposure Visit of FPO Farmers in Kannur District

Krishi Vigyan Kendra Kannur in collaboration with NABARD conducted an exposure visit of FPO farmers as part of CAT programme of NABARD. The team of exposure visit constituted 26 farmers from 6 FPOs viz. Mayyil Rice Producers Company, Cheruthazham Black pepper Producer Company, Kuttiyatoor Mango Producer Company, Andoor Vegetable Producer Company, Kurumathoor Honey Producer Company, KeraPariyaram Coconut Producer Company in Kannur district. The group was accompanied by Smt. Elizabeth Joseph, Assistant Professor (Home Science), Dr.Parvathy A., Assistant Professor (Agricultural Extension) and McSherin P, Project Fellow from KrishiVigyan Kendra, Kannur



The team visited Indian Institute of Horticultural Research (IIHR), Bengaluru on 27th March 2023. Dr.Laxman and Dr.Roopa, Principal Scientists of IIHR Bengaluru interacted with the team and directed to Post Harvest Technology Division of IIHR. Dr Vijay Rakesh Reddy S., Scientist, Processing Division explained the activities of IIHR and post harvest technology division. The group visited the microbiology lab and familiarized with technologies developed for processing of fruits and vegetables. Dr Reddy took the farmers to incubation unit and elaborated about the working of various equipments

for processing and packaging. FPO farmers visited Agricultural Technology and Information Centre (ATIC) to purchase planting materials and publications of IIHR. The group visited Indo American Hybrid Seeds India Pvt Ltd, RR Nagar, Bengaluru. Dr Mohan Raj, Scientist, IAHS interacted with farmers. The team was taken to visit trial plots of IAHS and familiarized with technology of hybrid seed production and open precision farming.



On 28th March team visited Central Food Technological Research Institute (CFTRI) Mysore. Dr B.B. Borse, Principal Scientist, CFTRI interacted with farmers and explained about various departments and activities of CFTRI. He explained about free as well as paid technologies available at CFTRI for farmers and FPOs and capacity building programmes available for farmers at CFTRI.



22 ICAR - Krishi Vigyan Kendra, Kasaragod

Seminar on "Enhancing Productivity and Value Addition in Millets"

The ICAR-KVK, CPCRI Kasaragod, organized a seminar on 'Enhancing Productivity and Value Addition in Millets' at D.J. Hall, ICAR- CPCRI on 18th March 2023. Dr Manojkumar T.S., Head, ICAR-KVK Kasaragod delivered the inaugural address and encourage the participants for the millet cultivation in Kasaragod district. He also



stressed the use of millets in daily diet as nutraceutical and wholesome food. Sh. K.Manikandan took a class on 'Suitability and prospects of Millet cultivation in Kasaragod district'. He delivered an exhaustive lecture on various millet crops, its uses and nutritional significance. Dr Saritha Hegde, SMS introduced the entrepreneurs who have started production of various value added millet

products and explained the nutritional significance. More than 60 various food products and value added products made out of Millets were displayed during the event by the KVK trained SHG groups. A total of 52 farmers participated in the meeting and 9 officials from CPCRI and KVK also participated.

As part of the event various value added products from millets like millet cookies, chakli, millet ada, ragi malt



were served to the participants to celebrate the event as part of International year of millets. The entrepreneurs shared their experiences during the training programme organized at KVK and their journey towards entrepreneurship and achieving success in branding and marketing.

23 ICAR - Krishi Vigyan Kendra, Kodagu

Awareness cum training programme on PPV & FRA

Awareness cum training programme on PPV & FRA 2001 was organized at ICAR- KVK, Gonikoppal in collaboration with ICAR-Indian Institute of Horticultural Research, Bengaluru, ITMU on 8th March 2023. Shri. Veerendra Kumar KV, Subject Matter Specialist (Plant Protection), ICAR-KVK, Gonikoppal welcomed the guests and participants. Shri. Devaliah K.A. Head In-charge, ICAR-KVK, Gonikoppal in his address explained about the importance of Intellectual Properties Rights and the benefits of PPV&FRA for the farmers. The dignitaries present during the programme where Dr.Nanaiah, Assistant Professor, College of Forestry, Ponnampet,

Dr Pitchaimuthu M, Principal Scientist, Division of Vegetable crops, ICAR-IIHR, Bengaluru, Dr.Akshitha, Scientist, ICAR-IISR, Regional Station, Appangala, and Dr.Muralidhara, Scientist, ICAR- CHES, Chettalli.





Mr. Shri. Napanda Poonacha, Progressive Planter, Suntikoppa sharing his experiences in registration of varieties under PPV & FRA act to the gatherings. The compendium on PPV and FRA (in Kannada) brought out by KVK, was released on this occasion. On the occasion, an exhibition was organized to exhibits back pepper, different vegetables and rice varieties, wild fruits identified by the farmers. The programme was concluded with vote of thanks and the programme was compared by Shri. Prabhakara B. SMS (Horticulture), ICAR-KVK Gonikoppal. A total of 113 farmers/ planters are actively participated in the programme.



Capacity Development Programme for FPOs of Karnataka under Common Service Centre

ICAR-KVK Gonikoppal, Kodagu organized a 15 days Capacity Development Programme for FPOs of Karnataka under Common Service Centre from 13th- 27th March 2023 at ICAR-KVK Gonikoppal, Kodagu. The programme was inaugurated by Dr. Udhm Singh Goutham, Deputy Director General, Division of Agricultural Extension, ICAR-New Delhi. During his inaugural address, he emphasized the role played by KVK system in collaboration with 12 ministries of Government of India towards rural development in general and agricultural development in particular. The program was graced by



Dr. Rajashree Roy Burman, Assistant Director General (AE), Mr. Devendra Rustagi, Vice president - Agriculture, Common Service Center, e-governance service India Limited Ministry of Electronics and IT, GOI, New Delhi and Dr. V. Venkatasubramanian, Director, ICAR-AIARI Bengaluru. All the dignitaries highlighted the importance of collaborative work of FPO, KVK and Common Service centers in doubling the farmer's income in the country. The 20 officers of Sri Kshetra Dharmasthala Rural



Development Project participated in the 15 days programme. Live telecast of the inaugural programme was done through YouTube Live for the benefit of FPO members across India through KVK network.



Establishment of SC Farmers Implements and Equipments Utility Centre at ICAR-KVK Gonikoppal, Kodagu

As a step towards improving the livelihood of Scheduled caste farmers, ICAR-KVK Gonikoppal Kodagu Under the guidance and funding of ICAR-AIARI, Bengaluru established the SC Farmers Implements and Equipments Utility Centre at ICAR-KVK Gonikoppal, Kodagu on 27th March 2023. The custom hiring centre was inaugurated by our beloved Director, AIARI Dr. V. Venkatasubramanian. In the programme, Sri. K.A. Devalah, Head In-charge, staff of ICAR-KVK



Kodagu and FPO-Common Service Centre (CSC) trainees were present. The custom hiring centre is equipped with farmer friendly equipments like brush cutters, pepper climbing ladders, bag pack sprayers, etc. which are very much required by the SC farmers community in Kodagu District. These items are now available at ICAR-KVK Kodagu office to the SC farmers on hiring bases at a very reasonable rate.

Training programme on natural farming techniques and input distribution Huluse village

KVK-Gonikoppal conducted a training program on natural farming techniques and input distribution at Huluse, Kushalnagara on 29th March 2023. Farmers from Huluse village participated in the training program where they were taught about scientific procedures for preparation of Jeevamruta, Panchagavya, Go-krupa-amrutha preparation. All these play a major role in maintaining soil and plant health in natural farming. Later an interaction with farmers who are practicing was discussed. The farmers were given inputs like plastic drum (200 Liters capacity) and basket of 20 kgs capacity for preparation of the inputs for natural farming.



24 ICAR - Krishi Vigyan Kendra, Kolar

Live telecast of "Global Millets (Shree Anna)" conference and organized training programme on Millets for opportunity in Natural farming.

ICAR-KVK Kolar organized Live telecast of Shri. Narendra Modi Ji, Honourable Prime Minister of India has inaugurated the "Global Millets (Shree Anna)" conference and organized training programme on Millets for opportunity in Natural farming on 18.03.2023 at KVK, Kolar. Dr. Shivaramu, Dean, College of Horticulture Kolar participated as chief guest and delivered lecture on

Importance of Millets. Dr. Anil Kumar S Scientist (Soil science) delivered lecture on opportunity for Millets in Natural farming. Dr. Chikkanna, G.S, Scientist (Home Science) delivered lecture on Importance of Millets in Human health and its value addition. Dr. Shashidhar, Scientist (Sericulture) and Dr. Asha, Scientist (Horticulture) and other KVK faculty have participated in the programme. Around 50 farmers participated and benefited from the programme.



Unnati vocational training programme for Farmers and Farm women

KVK, Kolar in collaboration with Zillapanchayat, Kolar have organized vocational training programme to Unnati farmers and farm women from 28 to 30.3.2023 at KVK, Kolar. The following topics were covered in vocational training programme like Nursery activities, Apiculture, Sheep and Goat rearing, Animal Husbandry, Pig and Back yard poultry farming, Integrated Farming System, Natural farming, Energy efficient methods by star rated material should be used in Agriculture, Flower decoration techniques, Scope of Minor Millets for Nutritional security and their value added products and Importance of Nutrigarden. Around 82 farmers & farm women have participated and benefited from the programme.

Awareness programme on BEE STAR Labelled ENERGY EFFICIENT PUMP SETS in Agriculture.

ICAR-KVK Kolar organized an awareness programme on BEE star labeled Energy Efficient Pump sets and Water Conservation" on 30.03.2023 in association with KREDL, Bengaluru. Dr. Chikkanna G.S, Scientist (Home Science) has given Inaugural speech and delivered lecture on scope of Minor Millets in meeting the Nutritional security and their value added products. K.Thulasiram, Associate Professor (Entomology) participated as chief guest. Dr.Sadanand K. Mushrif, Scientist (Plant Protection) gave presidential remarks in the programme. Dr. Shivaramu, Dean, COH Kolar has inaugurated the programme. Mr. Ashwath Reddy N., HOD, Electrical & Electronics engineering, BSFIT, Bengaluru participated as Resource person and delivered lectures on Importance of BEE STAR Labelled ENERGY EFFICIENT PUMP SETS in Agriculture. Dr. Anil kumar, Scientist (SS&AC) gave information on Natural farming at KVK, Kolar demo unit. Around 150 farmers have participated and benefited from the programme.



25 ICAR - Krishi Vigyan Kendra, Koppal

Inauguration of millet mart G-Natural in Gangavathi

Millets are taking their position on the plate and becoming part of the diet of health-conscious people, not by force but by choice. The demand for millets-based products is increasing in the urban areas and thus creating ample opportunities for new market entrants' entrepreneurs. With influence of KVK Koppal trainings and demonstrations on millets Shri Manjunath G. Entrepreneur started millet mart in Gangavathi. The millet mart was inaugurated by the Kalmat Shri. Kotreshwar Swamiji Kalmat on 27.3.2023 and he narrated the impact of faulty food habits on human being and importance of organic food. Dr. Ragavendra Yallagar Senior scientist and head explained importance of millets and its uses. Dr. Kavitha. Y. Ullikashi Scientist (Home Science) explained



in detail about nutritional importance and value addition to millets. Dr. Satish Raiker Cardiologist Gangavathi explained the medicinal benefit of the millets. Shri B. Pranesh International Comedian encouraged the women to use millets in daily diet. More than 40 women were participated in the programme.

26 ICAR - Krishi Vigyan Kendra, Kozhikode

Mass awareness on drone usage in Agriculture for Kozhikode district farmers

Krishi Vigyan Kendra, IISR, Kozhikode was conducted about 100 demonstrations in farmer fields to make awareness usage of drone in agricultural proposes. Along with that KVK also facilitated to carry 200 demonstrations by Exp. farm and IISR HQ staff in association with agriculture department.



Block level inaugural for usage of drones in green gram fields for spraying of gram special was being inaugurated by Smt. V.K. Anitha, President, Baluserry block at Naduvannur and Mr. N.P. Babu, President, Perambra block at Edavarad. Demonstrations on micronutrient spray paddy, banana, vegetables, spices and plantations crops were conducted with involvement of Panchayat presidents, Krishi Officers and total about 2000 farmers. The participant farmers were also distributed with vegetable seeds, Bio-control agents and micronutrient mixture for their usage in fields.



Visit of other state and district farmers

Exposure visit and training on Turmeric cultivation for farmers from Bhavanisagar, Erode District, Tamil Nadu was conducted and the visited farmers were issued with bush pepper, Jack, mango grafts along with quality seeds of Kasturi turmeric, Black turmeric, Ginger and turmeric for cultivation at their places. Likewise farmers from Kannur district were visited KVK and trained on vegetable cultivation, Natural farming, etc.



SCSP programme and distribution of Agriculture inputs to support livelihood

Distribution of Fruit plants, vegetable seeds to SC beneficiaries was inaugurated by Shri N. P. Babu, President, Perambra Block Panchayat. Mr K. K. Vinodan member, Block Panchayat president, Dr P. Rathakrishnan, Programme coordinator, KVK explained SCSP project and importance of Natural Farming. Smt PV.Sushama, SC development officer, Perambra welcomed the participants Smt.Lisi, K.K, Member, Block Panchayat delivered vote of thanks. The programme was attended by farmers and beneficiaries from seven Panchayats.



27 ICAR - Krishi Vigyan Kendra, Malappuram

RKVY skill training and Assessment completed

RKVY ASCI Skill training for 25 participants on the Job role Garden keeper was completed with course assessment on 28th March 2023. The training included 210 hours of instruction with more emphasis on practical skills on technical aspects of Garden making and maintenance. Many sessions were also included for overall development of the candidates with respect to



employability skills. The assessment included evaluation of the training benefits based on theory, practical and viva by an external assessment agency

Vocational training programme on "Operation of farm machinery and precision farming systems"

KVK Malappuram was conducted 10 days vocational training programme on "Operation of farm machinery and precision farming systems" from 13th March to 23rd March 2023 for women of Malappuram district as a part of plan project "Promotion of employment avenues for women in agricultural mechanization in Kerala". The training was conducted to promote the woman entrepreneurs in the district in the field of farm mechanization and to give awareness to the new opportunities. Both theory as well as practical classes were conducted. The various sessions include Design, Layout and installation of MI systems in open field and protected structures, Entrepreneurial opportunities for women in farm mechanization and Working principle, operation and maintenance of machineries used for rice mechanization in Kerala. Practical sessions for the operation of Tractor, Power Tiller, Mini tiller, Reaper, different types of Sprayers, Lawn mowers, Brush cutters, Motorized Earth augers, Power operated pole pruners, coconut climbers, arecanut harvester were done. Practical session on layout and installation of MI system in open field and protected structures were done. The practical session for MI in open field was done at Central Jail, Iyannur, Malappuram. The training was co-ordinated by Er. Priya G Nair, SMS, Agricultural (Engg).





World Water Day Programme

As a part of world water day programme KVK, Malappuram was started to excavate an open well of



5.5 m diameter and 7.6 m depth in order to reduce the water scarcity in the KVK field and for drinking purpose of the campus. The digging of the open well and concreting of the rings are in progress and is expected to meet the need.



Training programme for coconut climbing using motorised coconut climber

A one day training programme was conducted by KVK, Malappuram for coconut climbing using motorised coconut climber on 28.03.23. This motorized climber was newly one to the farmers and are trained to use this. The training session was handled by Sri.Arun Davis, Technical staff, KCAET, Tavanur and Et Priya.G.Nair, SMS, Ag (Engg), KVK, Malappuram



28 ICAR - Krishi Vigyan Kendra, Mandya

Conduction of Participatory Rural Appraisal PRA techniques at Lakshmisagara (Cluster Village)

KVK, VC Farm, Mandya has conducted the Participatory Rural Appraisal (PRA) techniques on 20.03.2023 at Lakshmisagara (Cluster village), Pandavapurataluk, Mandya district. PRA activities were

conducted by involving the localities of the village (Key informants, Farmers/ Farm women, Farm youths, Village elders, school children etc..) to study the village social, economical and cultural situation, problems in agriculture and agriculture practices. KrishiVigyanKendras will conduct their demonstrations, technology assessments and capacity building activities in the cluster village based



on the outcome of different PRA exercise. PRA techniques includes Social map, Resource map, Transect walk, Seasonality analysis, Timeline and Trend analysis, Venn diagram, Problem tree, Matrix ranking etc.. KKVVC Farm Mandya has conducted the PRA techniques like



Social and Resource maps, Seasonality map, Transect walk and Focus Group Discussion in Lakshmisgara village by involving the village farmers, farm women, gram panchayath officials, school teachers and children along with the officials of the State Department of Agriculture and Horticulture. Dr Naresh N. T. Senior Scientist and Head, led the activities by briefing the importance of PRA

in identification of village problems and prioritizing them to the villagers, Dr Suresh, D. K. Scientist (Agricultural Extension) has facilitated the villagers in conducting PRA techniques effectively. Dr Kamalabalkoodagi, Scientist (Home Science), Dr RekhaBadalingappanavar, Scientist (Agronomy), Dr. Divya, Scientist (Horticulture), Mr Mahesh, H. M. Senior Technical Officer and Mrs. Sowmya, Senior Assistant Director of Horticulture (SADH), Ms. Shruthi, Block Technical Manager (BTM) ATMA, were involved in conducting PRA techniques in the village. Farmers were very cooperative and they extended all support for the staff of KVK for smooth conducting of different techniques.



29 ICAR - Krishi Vigyan Kendra, Mysuru

Participation of ICAR JSS KVK Mysuru in Agriculture and Horticulture mela and cross learning visit to KVK Davanagere

ICAR JSS KVK Suttur participated in the Agriculture and Horticulture mela organized by Keladi Shivappa Nayaka University of Agriculture and Horticulture Sciences Shivamogga from 17.03.2023 to 20.03.2023 at Shivamogga. We have exhibited the traditional and

GI crops from Mysuru which include Nanjangud Rasabale, Mysuru Mallige, Heerangere badane and Mysuru Veelyedele. In the stall more importance was given to the millets with respect to millets importance, its cultivation and value addition and the same information was shared with the farmers. The KVK scientists interacted with the gathered farmers and university dignitaries about the traditional crops of Mysuru, seed production in paddy,

legumes etc., production of desi vibhuthi, importance of micronutrients in the crop cultivation by showcasing the banana special, vegetable special and mango special and also visited to demo units of KVK Davanagere and learned about KVK as resource institute for management of 17 FPO in 3 district.



ASCI Gardner training programme

ICAR JSS Krishi Vigyan Kendra Suttur with the collaboration of Agriculture Skill Council of India completed 25 days training programme on Gardner on 18th March. In this training programme participants got information regarding ornamental plants identification, gardening layout, gardening management, potting, repotting, bonsai making skills, terrace garden, vertical gardening, hydroponics, aeroponics, kitchen gardening, nursery project development, vegetable seedling productions, vegetative propagation in fruits, pest and disease identification and management in gardens, basic computer, basic English, communication skills, financial literacy, yoga and HRD by resource persons and also organized study tour to ICAR CHES Chettahalli nurseries and mother blocks, gardens near Kushalnagara, the total of 210 hours course was completed along with that, to encourage participants distributed basic implements of gardening and gardener manuals, package of participants

and other reading manuals to the participants in the programme.



Capacity development to school teachers and farmers on conversion of farm waste into composting under special program on Swacchatha Action Plan (SAP)

ICAR JSS KVK Mysuru organized capacity development program to school teachers and farmers of DFI cluster villages on conversion of farm waste into compost. DFI cluster villages School teachers as representative of their school participated in capacity development program and learned about how to keep school surrounding free from weeds and other wastes and also composting and





Vermicomposting by conversion of farm/school surrounding waste into compost/Vermicompost by using vermi bed bags. Farmers from DFI villages also participated in the capacity development program and visited to composting and Vermicomposting units in the KVK campus. JSS KVK Mysuru has given support for swachatha of farm and school by providing vermibeds and waste decomposer to farmers and schools to keep their farm and surrounding clean and weed free.



Women empowerment - Tailoring and Embroidery training programme at ICAR JSS KVK Suttur

ICAR JSS Krishi Vigyan Kendra, Suttur in collaboration with JSS Janashikshana samsthe started three and half months (80hours) 2 training programme on tailoring and one on embroidery work for homemakers for rural women. 60 farm women's 20 per batch are taking benefit of the programme.

The programme was inaugurated by Smt. H.V.Divya, Senior Scientist and Head (I/C), ICAR JSS KVK, Suttur and Smt. Nijaguna teacher, JSS Janashikshana samsthe, Mysuru. After inauguration Smt. H.V.Divya told that, Home maker at village can take benefit of the programme and women can start their work within their premises. In



this way women can be empowered with skill and economically independent, her self confidence will improve.

Teacher Smt. Nijaguna explained the rules and regulations about the programme. Women can do team work or can join to garment. There is a large scope for these training programmes. 60 women participated in the programme

Participation in virtual mode of inaugural function of global millet conference

ICAR JSS KVK Mysuru organized virtual mode of inaugural function of global millet conference at KVK training hall involving millet growing farmers and entrepreneurs in the district. Our Honourable Prime Minister Shri Narendra Modi inaugurated the programme. Different countries presidents participated in the conference and expressed their views about millets production, value addition and marketing. In KVK training hall 10 entrepreneur of the district displayed about 39 millet products in the programme through online. 9 millet growers participated in the programme. Each millet entrepreneur interacted and shared their experience with each other after the online program.



30 ICAR - Krishi Vigyan Kendra, Palakkad

Fishery based training programme at KVK Palakkad

KVK Palakkad organized a two-day capacity-building program for farmers from the SC community on various fishery-based value added products as part of the ICAR CIFT Cochin collaborative for Technology Dissemination under SSCP project. The capacity building program was conducted on the 17th and 18th of March, 2023. As part of the program, Dr. Reshmi R., Assistant Professor (Home science) of KVK Palakkad handled different sessions on entrepreneurship opportunities in fish processing, drying of fish (various types), breaded and battered products of fish, and dried fish products. The trainees were given hands-on training on the above-said items. About 50 trainees attended the programme.



Millets: Cultivation and entrepreneurial prospects

KVK Palakkad conducted a one-day workshop on the topic 'Millets: Cultivation and entrepreneurial prospects in Kerala' in collaboration with NABARD on 18th March 2023 on the occasion of International Millet Conference. The workshop included a farmers' seminar on various aspects of millet cultivation and value addition, an exhibition on millets and a competition on value added products from millets. The programme was inaugurated

by Sri. Muhammed Muhsin, Honourable MLA, Pattambi and chaired by Smt. Lakshmikkutti D., Municipal Chairperson, Pattambi. Dr. Pr. Raji, Associate Director of Research, RARS Pattambi delivered keynote address. Dr. Sumiya K.V., Programme Co-ordinator, KVK Palakkad welcomed the gathering and Dr. Sreelakshmi K Assistant Professor, KVK Palakkad offered vote of thanks.



Dr. Israel Thomas, Professor, RARS Pattambi, Dr. Jinu Jacob, Scientist, IIMR, Smt. Latha Sharma, Assistant Director of Agriculture, Agali, Dr. Sreelakshmi K, Assistant Professor, KVK, Palakkad, and Smt. Athira, Financial literacy coordinator handled various sessions on prospects of millet cultivation, health and entrepreneurial opportunities, cultivation practices, various schemes and projects under millet cultivation etc. Smt. Mini Sreenivasan CEO/Founder of Annam food products handled a session on Value addition of the crops along with experience sharing. Millet entrepreneur Smt. Vidya, 'SVOJAS' food shared her entrepreneurial experience.

Exhibition including cultivation aspects and value addition of millets was also conducted on the day. Grains and primary processed forms of various millets, its health benefits, cultivation aspects and more than 50 value added products from millets were exhibited. A cooking competition was conducted on value added products from millets. First, second and third prizes were awarded. More than 100 farmers participated in the programme.

31 ICAR - Krishi Vigyan Kendra, Pathanamthitta

WORLD WATER DAY 2023

World Water Day is celebrated every year on March 22 to advocate sustainable management of freshwater resources. The theme of each year focuses on topics relevant to clean water, sanitation and hygiene. World

Water Day celebration for the year 2023 is about accelerating change to solve the water sanitation crisis. ICAR-KVK, Pathanamthitta organized the event with school students. As part of the programme an awareness session was organized on the theme of world water day 2023. An exposure visit was also arranged in KVK farm



for the students to showcase different water conservation measures that can be adopted in agricultural field for increasing water use efficiency as well as to improve productivity.



ICAR-KVK, PATHANAMTHITTA CELEBRATED 29TH FOUNDATION DAY

KVK, Pathanamthitta celebrated its 29th Foundation day on 28th March 2023. DR. C.P.Robert, Senior Scientist and Head warmly welcomed the Chief Guest and the invited guests for the programme. During his address,

29 years of KVK's journey with farmers, youth, school children, special children and extension functionaries was flashed before the eyes of each participants. The programme was inaugurated by Rt. Rev. Thomas Mar Timotheus Episcopa. In his inaugural address, he emphasised on KVK's successful interventions that paved way for development of farming community in the district. On the occasion, booklet on Successful Youth Entrepreneurs under ARVA project of ICAR, Govt. of India was also released.



32 ICAR - Krishi Vigyan Kendra, Raichur

ICAR-NAARM, Hyderabad organised farmers training on "integrated farming system- Skill development"

ICAR- NAARM, Hyderabad in collaboration with ICAR- Krishi Vigyan Kendra, Raichur organised farmers training at ICAR-KVK, Raichur district of Karnataka state for six days from 23.02.2023 to 28.02.2023. The training programme was on "integrated farming system- Skill development".



The training comprised of technical sessions for all the six days with important topics like fisheries in



integrated farming systems, Soil conservation as a part of integrated farming system, Bee-Keeping as a subsidiary occupation in integrated farming system, vermi composting in integrated farming system, Animal-husbandry, poultry, sheep and goat-rearing in integrated farming system, processing and value addition of agricultural and horticultural produce, Nutrition garden and its management, horticulture nursery management for additional income, bio-fertilizers in integrated farming system role of integrated farming system in doubling the farmers income, organic farming and quality seed production.

On 23.02.2023, the registration of the participants was made and the training was inaugurated on 24.02.2023 by the dignitaries of Dr M.K. Naik Director of Extension, UAS, Raichur and NAARAM representative scientist Dr Supriya further Dr A.C. Sudhakar Scientist (Fisheries) technical session with importance of fisheries in increase income and was subsidiary occupation in integrated farming system. Dr S.N. Bhat, Scientist (Soil Science), addressed the farmers about the importance and methods of soil testing nutrient management in integrated farming system.



Dr Shreevani G. N., Scientist (Agri. Entomology), KVK, Raichur, addressed the farmers to take up Bee-Keeping to boost up their income, commercial bee-keeping method and explained about vermicomposting methods to incorporate it in integrated farming system to reduce cost in cultivation by using organic manures and increase their income.



Dr Pralhad Senior Scientist and Head, KVK, Raichur and Dr Shreedhar, Assistant Professor College of Agriculture Engineering, Raichur took lectures on scientific animal husbandry for quality and quantity milk production in dairy and increased production in poultry

farming, scientific sheep and goat rearing for boosting income in integrated farming system.

Dr Veena T., Scientist (Processing and Food Engineering), KVK, Raichur, explained about the importance of processing and value addition of horticultural and Agricultural produce on which she explained about grading, solar drying etc for income boosting specially value adding of products by women farmers as additional income generating activities. Dr. Hemalatha J. K., Scientist (Horticulture), KVK, Raichur addressed the farmers about the nutritional security through nutri gardens specially for farm women, income boosting activities like horticulture nursery managements and seedling production. This in turn adds up to the income of the farmers.

Dr Raghavendra, B.T., Assistant Professor (Plant pathology), gave a lecture on bio fertilizer production and use in integrated farming system. Meanwhile, Dr Basavanappa, Professor and Head, OFRI, Raichur addressed the farmers about the importance of organic farming in integrated farming systems and Dr Doddagoudar, Assistant Professor (GPB) Seed Unit, UAS, Raichur explained about the quality seed production.

The training did not restrict to theory classes but there were field visits i.e., visit to processing and food engineering department lead by Dr. Udaykumar Nidoni, Professor and Head Processing and Food engineering Department, UAS, Raichur. The other visits included visits to ICAR-KVK, Kalaburagi and ICAR-KVK, Bidar progressive farmer's field visits on 25 & 26th February 2023.

Finally, the training was concluded by the discussions with integrated farming system adopted farmers and distribution.





33 ICAR - Krishi Vigyan Kendra, Ramanagara

"Agriculture Drone Demonstration"

Indian agriculture has gone through rapid advancements and has benefited from research and adoption of new technologies by farmers. In recent years, use of drone in agriculture has gained prominence and using drones for application of pesticides has a great potential as we move towards commercialization and achieving precision in agricultural crops. Drones are going to be important for increasing efficiency of application of crop protection chemicals by reducing man power requirement, reducing time of application, reducing



volume of water, quantity of chemicals and saving drift to environment along with reducing exposure to human being to hazardous chemicals. Keeping these advantages in mind ICAR -KVK Ramanagara has demonstrated spraying of chemicals and foliar nutrients through agriculture drones in important horticulture crops viz Mango, Coconut and Arecanut covering an area of 200 acres in 10 different villages of Ramanagara district. More than 50 farmers benefitted from this KVK activity and it has created sensation among the farming community in addressing the pest and disease problem of Coconut and Arecanut where manual spraying is very much difficult.

34 ICAR - Krishi Vigyan Kendra, Shivamogga

"International Millets Conference 2023"

ICAR - Krishi Vigyan Kendra, Shivamogga organized Capacity development programme on "International Millets Conference" on 18.03.2023. Dr Hanumanthaswamy, B. C., Senior Scientist and Head, Krishi Vigyan Kendra, Shivamogga, explained about the importance, significance and need of celebration of International Year of Millets. The United Nations accepted the proposal of the Government of India and declared the year 2023 as the International Year of Millets in the 75th session of the United Nations General Assembly. The declaration mainly aims to raise the awareness about the contribution of millets to the food security and nutrition as well as enhancing the sustainable quality production of millets. He also briefed about the role of millets in human diet, benefits and nutritional importance of millets. He also suggested the participants to include the nutritious food such as millets in their daily food diet to combat the malnutrition. He also explained in detail about

the organic cultivation of ragi, bajra, foxtail millet, kodo millet, little millet and proso millet etc. Later he briefed about the nutrient content and value addition of ragi, bajra, foxtail millet, kodo millet, little millet and proso millet. The participants also interacted with the Scientist related to the International year of millets concept. During the programme staff of Krishi Vigyan Kendra, Shivamogga were also present. Totally 85 participants were benefitted from this programme.



35 ICAR - Krishi Vigyan Kendra, Thrissur

International Year of Millets 2023

ICAR- Krishi Vigyan Kendra, Thrissur join hands with the world to spread the word that millet (Shree Anna) is a nutritious and delicious food everyone should try! KVK Thrissur organized a series of programmes on the cultivation practices and health benefits of millets.



Capacity building programme on "Millets in Natural farming" was conducted at Krishibhavan, Ollukkara in connection with the International Year of Millets 2023.

With the College of Agriculture, Vellanikkara International Year of Millets 2023 was celebrated to create awareness of nutritional and health benefits of millets



and their suitability for cultivation under adverse and changing climatic conditions. The event aimed to promote sustainable production and consumption while highlighting their potential to provide new market opportunities for producers and consumers. The programme was organized under the theme "Step into the world of Millets." Farmers training, poster competition, cooking competition on millet-based dishes, quiz competition and exhibition were organised.

44th Zonal Research and Extension Advisory Committee meeting

ICAR- Krishi Vigyan Kendra, Thrissur participated in the 44th Zonal Research and Extension Advisory Committee meeting of Central Zone of Kerala Agricultural University organised at RARS Pattambi. A presentation was made



on the capacity development activities, result highlights of On Farm Trials, Front line demonstrations, field problems and other flagship programmes of Krishi Vigyan Kendra, Thrissur for the year 2021-22. The meeting discussed in depth the adoption and feedback on research recommendations and existing transfer of technology programmes. It provided a vision for what, when, where and how to handle knowledge and technologies in agriculture and allied sectors.

36 ICAR - Krishi Vigyan Kendra, Trivandrum

Drone based foliar application demonstrated in Parassala Block

Drones were used to carry out an aerial survey and spraying over the Nellikonam 'Padasekharam' in Parassala block on 25.03.2023.

The 'Frontline demonstration on drone-based foliar application of plant nutrient in paddy' was organised by the ICAR-Krishi Vigyan Kendra, Mitraniketan, in collaboration with the Krishi Bhavan, Kulathoor.

The demonstration was led by Binu John Sam, Senior Scientist and Head, ICAR-KVK, Mitraniketan. According



to Chithra G., Agricultural Engineer, ICAR-KVK, Mitraniketan aerial spraying and mapping would save time, labour expenses, and fertilizers are the



observations of the study. Chandralekha C.S., ADA in charge, Parassala Block, Shri.Sureshkumar A., Kulathoor Gramapanchayat President, Agricultural Officers, ward members and paddy farmers attended the programme.

Manual scouting of fields was time-consuming, labour-intensive process for observing and identifying plant-related problems such as nutrient deficiency, diseases, and pest attacks. Using drones, however, cuts down labour requirements significantly. With an unmanned aerial vehicle, it takes a mere 30 minutes to cover one hectare. Drone-based mapping would also enable faster crop health analysis with the aid of high-resolution photographs. Thus precise mapping can be used for planning purposes, assessing the condition of crops and plants, to precise crop spraying.

37 ICAR - Krishi Vigyan Kendra, Tumakuru - I

Global Conference on Millets 2023 Live Telecast at KVK Tumakuru-I

Under the visionary leadership of Hon'ble Prime Minister Shri Narendra Modi Ji, the Agricultural and Processed Food Products Export Development Authority (APEDA), Ministry of Commerce and Industry, Government of India has organized the Global Millets (Shree Anna) Conference today at Subramaniam Hall, NASC Complex, Pusa. Prime Minister Narendra Modi Ji inaugurated this programme and spoke about how millets are also considered to be "high-fibre foods" which are effective for health "personal and global health". On this occasion ICAR Krishi Vigyan Kendra organized the web telecast of PM Programme at Training hall. In this special occasion Dr. V.Govinda Gowda Senior Scientist and Head, explain the aim of celebrating this year as international millets year and Dr Nityashree K, Home Scientist, KVK, Tiptur delivered the lecture on



production, processing, value addition and health benefits of millets. Totaly 52 farmers were participated this programme and interacted with KVK scientist regarding agriculture aspect.

Training programme on scientific coconut cultivation

ICAR KVK Tiptur, Tumakuru 1 in collaboration with Agriculture Research Station, Kunigal, Coconut Development Board, Bengaluru, Horticulture department, Tumakuru, NABARD Tumakuru, and Union Bank of India, Tumakuru organized the training programme on scientific coconut cultivation, pest and disease management, processing and value addition and income generating intercropping system on 25.03.2023 at Halagere, Amruturu Hobali, Kunigal Taluk. The programme was inaugurated by former VC Dr Narayan Gowda, he briefed about the diversified cropping system

and adverse impact of consuming carbonated drinks and also highlighted the importance of coconut water. Dr V Govinda Gowda, Senior Scientist and Head, provided information on improved cultivation practices (Pepper, Turmeric, Ginger, Cardamom, Clove etc.) to be followed



as intercrop in coconut garden and also given information regarding soil health management, nutrient management in coconut and different schemes available in coconut development board. Mr Manoj, H., Scientist (Plant Protection) delivered the lecture on pest and disease symptoms, identification methods, and integrated management practices to control them in coconut. Dr. Nithyashree, K., Scientist (Home Science) briefed about the coconut value addition and health benefits. Ms. Kirthi Prabha Nodal officer NABARD, and Maruthesh, Manager Union Bank, explained the schemes available to the farmers. Mr Kiran Kumar, Technical officer, Coconut Development Board, emphasised the programmes conducted in coconut development board. Progressive farmers of the district were being honoured during the occasion. A total 150 farmers participated in the programme.

38 ICAR - Krishi Vigyan Kendra, Tumakuru - II

Virtual Participation and Live Web casting of Inaugural Ceremony of "Global Millets (Shree Anna) Conference"

ICAR-KVK, Hirehalli, Tumakuru-II participated in the inaugural ceremony of Global Millets (Shree Anna) Conference New Delhi (International Year of Millets - 2023) INDIA graced by Hon'ble Prime Minister, on 18th March 2023 through virtual mode and live webcasting. Representative from NGOs, Agri-Start-ups, FPO's and farmers participated in the event. They also exhibited different value added products of Millets. The message



shared by Hon'ble PM on various benefits of Shree Anna and different schemes of the government to promote these nutri cereals was well received by the participants. After the programme an interaction was arranged among the participants from different sectors connected with



millets, which was coordinated by Dr. N. Logannadhan, Head, ICAR-KVK, Hirehalli along with other KVK staff. Further, a training programme on "Millets for opportunity in Natural farming" was also arranged for the participants wherein the demonstrations of Natural Farming activities were shown to the participants. About 25 participants took part in the event and benefitted immensely in the programme.

Distribution of Certificates to the participants of DAESI (Diploma in Agricultural Extension Services for Input Dealers) course

One year Diploma course - Diploma in Agricultural Extension Services for Input Dealers(DAESI) programme (4th batch) was organized by ICAR-KVK, Hirehalli, Tumakuru in collaboration with SAMETI, UAS Bengaluru, MANAGE,



Hyderabad and Department of Agriculture, Tumakuru District was concluded on 24th March, 2023. Hence, a programme to distribute the certificates to the DAESI participants was organized on the same day at KVK campus. Dr Kalpana, Nodal Officer, SAMETI, Smt. Bhagya Satish, President, Hirehalli Gram Panchayat took part in the event as chief guests. In her speech, Dr Kalpana insisted the importance of this course and asked them to utilize the course materials for the benefit of the farming community. Dr N.Loganandhan, Head, KVK, requested the participants to utilize the support of KVK staff in disseminating the knowledge to improve the livelihood of farmers. Sri S.C.Chandraiiah, Felicitor, DAESI course, compered the programme. Mr PR.Ramesh, SMS (Soil Science) and Nodal Officer, DAESI, organized the programme. Few of the dealers shared their experience

on the benefits obtained through the programme. Certificates and medals were distributed to the successful candidates by the chief guests. About 40 input dealers attended the programme.



39 ICAR - Krishi Vigyan Kendra, Udupi

Bee Keeping Training Programme

A 25 days skill development training program on "Honey Bee Farming" was jointly organised by Keladi Shivappa Nayaka University of Agriculture and Horticultural Sciences, Shivamogga; Indian Council of Agricultural Research - Krishi Vigyana Kendra, Brahmavara, Udupi District; Agriculture Skill Council of India, New Delhi and Zonal Agriculture and Horticultural Research Station, Brahmavara. The program was inaugurated on 27th March 2023 at ICAR - Krishi Vigyana Kendra, Brahmavara, Udupi District by Dr Lakshmana,



Associate Director of Research, Zonal Agriculture and Horticultural Research Station, Brahmavara. In his inaugural address he emphasised that, bee keeping is a good employment opportunity in rural areas of the district. Dr. Dhananjaya, B., Senior Scientist and Head,

Indian Council of Agricultural Research - Krishi Vigyana Kendra, Brahmavara, Udupi Presiding over the session, presented overall information on importance of honey bee and bee community. Explaining the medicinal values of honey, the Principal of Diploma College of Agriculture, Brahmavara, Dr. K.V. Sudhir Kamath mentioned that the demand for honey is projected to be high in the future. Mr Suresh Karkera, a progressive bee farmer, gave brief information on bee keeping practices. Dr Sachin U. S. (Scientist, Plant Protection), Krishi Vigyana Kendra, Brahmavara, with an introductory talk welcomed the guests and trainees, while Dr Remedya Presca D'Costa (Research Associate - Agriculture Entomology - Natural Farming), Zonal Agriculture and Horticultural Research Station, Brahmavara delivered vote of thanks.



40 ICAR - Krishi Vigyan Kendra, Uttara Kannada

Backyard poultry farming training cum Chicks distribution to SC families

Backyard poultry farming training was organized by ICAR-KrishiVigyan Kendra, Uttara Kannada, on 20.03.2023 at Yaduga village of Haliyal taluk in collaboration with ICAR-NIVEDI, Bengaluru under DAPSC-SCSP project. The 31 scheduled caste farmers and farm women were participated in the programme. Dr Ranganath G.J, Scientist- Animal science, thought the participants about the importance of improved backyard poultry breeds with respect to rate of growth and egg production, feeding, management, vaccination, disease management, alternative source of feeds to the backyard poultry chicks, protection from predators, value of eggs and marketing. Dr Venkatesh, Assistant professor, college of forestry, opined that the backyard poultry farming and Vegetables

would meet the nutritional requirements, alleviate malnutrition and acts as source of subsidiary income to SC families. To 21 beneficiaries distributed the DP cross 6-week-old chicks and vegetable kits.



41 ICAR - Krishi Vigyan Kendra, Vijayapura - I

ASCI training on Small dairy farmer

25 days skill training programme for the job role Small Dairy farmer was conducted from 1st March to 25th March at KVK, Vijayapura with a pre-evaluation test in which 25 rural youths, farm women and farmers were participated. During the training programme different topics covered such as selection of high yielding dairy animals, their feed and fodder management, preparation of low cost concentrated feed with locally available materials, housing, handling of animals, disease management, value



addition to milk and milk products and finally disposal of sick and dead animals, Employment skills... etc.

Different method demonstrations carried out during the programme like silage preparation, azolla preparation,

animal feed preparation, hydroponic fodder development.

Field visit done to different farms such as crossbred cow farm, desi cow farm, buffalo farm, IFS farm and value addition industry. And the training programme was enrolled with the post evaluation test to the trainees.



Field day on ICM in Groundnut:

ICAR-KrishiVigyan Kendra, Vijayapur Senior scientist and head Dr. G.S.Yadahalli and Scientist Dr. Vivek. S. Devaranavadi organized a field day on ICM in Ground nut under NMOOP oilseeds in the farmer's field at Kalgurki village, Basavan Bagewadi taluk, Vijayapur on 26.03.2023. Dr G.S.Yadahalli suggested the farmers that increasing the crop productivity is difficult especially in



dry places, where farmers and scientists alike have a difficult task. While building ponds to conserve rainwater is a good idea. He also suggested the farmers regarding the fertilizer application and management of pest and



diseases in Ground nut. The farmer's feedback is found to be positive. Similar demonstrations were also conducted in Mukarthihal and Bijjaragi villages of Vijayapur district.

42 ICAR - Krishi Vigyan Kendra, Vijayapura - II

On -campus training programme Recent advances in Acid lime cultivation

ICAR-Krishi Vigyan Kendra, Vijayapura-II (Indi) organised on campus training programme on **recent advances in Acid lime cultivation** on 24.03.2023 at KVK under the sponsorship of Karnataka State Lime Development Board, Indi. Mr Anand Biradar, DDH, Lime board, and Mr Srinivas, Marketing Manager, Mahadhan Pvt.ltd. Pune participated as chief guest and Programme was inaugurated by pouring water to pot. Mr Anand Biradar, explained about the activities of Karnataka State

Lime Development Board and ODOP Scheme. Mr Srinivas, given information on importance of micronutrient application in citrus crop. Dr. Heena M. S., Scientist (Horticulture) had explained in detail about nutritional importance of acid lime, selection of varieties, healthy disease free seedling, production practices, macro and micro nutrient management, Fertigation, Bahar Management, pest and disease management and post-harvest technology of acid lime. Dr Ssavita B., Scientist (Soil Science) gave lecture on importance of soil and water testing in acid lime. A total of 45 farmers participated and got benefited out of this programme.



43 ICAR - Krishi Vigyan Kendra, Wayanad

Poshan Pakhwada Campaign by ICAR KVK Wayanad

Poshan Pakhwada campaign, implemented by National Nutrition Mission, was organized under the leadership of Krishi Vigyan Kendra, Wayanad, Department of Women and Child Welfare, District ICDS Cell and Central Institute of Fisheries Technology, Kochi. The campaign was inaugurated by Hon. Wayanad District Collector Dr. R. Renuraj. ICDS District Programme Officer, T. Hafsatth presided over the function.

Potlon Pakwada will emphasize the importance of small grains and the Anaemia to Growth (Viva) project. The campaign runs till April 3rd 2023. KVK Wayanad, Programme Coordinator, Dr. Safia N.E, Kochi CIFT, World Fish Project Principal Scientist Dr. Sushila Mathew, Women and Child Development District Officer Sri. V.C. Sathyan and Child Development Project Officer, Karthika Anna Thomas led the campaign. An awareness programme was also organized for the Anganwadi staff on "Nutrition development through fish products". The programme was successfully completed with the technical support of Sampushtha Kerala Wayanad District Coordinator, U.S Nishant, Kalpetta ICDS Block Coordinator, Smt. Shahansha and other ICDS staffs. As part of this, the campaign discussed the issues of creating



awareness among the people about under nutrition, weight loss and the importance of small grains, which helps in leading a good lifestyle and promoting nutritious food style among the people.

"Fish for health and prosperity" Campaign

ICAR KVK Wayanad conducted a campaign on "Fish for health and prosperity" at Nadavayal in association with Kochi Central Institute of Fisheries Technology and CARD- Light to Life project-Nadavayal, Wayanad. The



World fish project aims to promote the nutritional awareness among tribal population. KVK Wayanad Programme Coordinator, Dr. Safia N. E welcomed the gathering. Smt. Mercy Sabu, President, Poothadi Grama Panchayath presided over the function. The campaign was inaugurated by Sri. Ismayil C, Tribal Development Officer, Mananthavady. Felicitations to the programme was given by Rev. Fr. Aji Cheriyan, Project Director, CARD- Light to Life project, Sri. C. K. Vijayan Madappally, Rtd. Superintendent, Fisheries Department, Andaman and Sri. Unmesh Y David, Director, C E F, Wayanad. Dr. Susheela Mathew, Principal Scientist, World Fish Project described about the project and Sri. Stephan Jacob, Project Coordinator, CARD, delivered vote of thanks.



**Achievements
of
ICAR - Krishi Vigyan Kendras**

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1 ICAR - Krishi Vigyan Kendra, Puducherry

ABOUT KVK

The first KVK of the Nation was started at Puducherry on 21st March, 1974. This Kendra was administrated by Tamil Nadu Agricultural University, Coimbatore upto March 1992. The technical and administrative control of this centre has been taken over by the Government of Puducherry Union Territory from 1st April 1992. Subsequently, with effect from 30th May 1994, this Kendra has been registered as Society under Society Registration Act.



As per the mandate of ICAR this Kendra conducts various training programmes to Farmers, Farm Women, Rural youths and the Extension Functionaries on Agriculture and allied fields like Animal Husbandry, Fisheries, Home Science etc. This KVK also conducts On Farm Testing (OFTs) and Front Line Demonstrations (FLDs) on various fields apart from undertaking other extension activities like Farm Advisory Services, Publishing Newsletter, Hosting website, Organising Farm Science Clubs, Farm women Clubs, Technology Transfer Clubs and Self Help Groups, Kendra also has All India Coordinating Rice Improvement Projects (AICRIP), Vocational Agricultural Course (VAC), Tissue Culture Laboratory (TCL), Bio-Control Laboratory (BCL), Seed production and Horti-care Schemes. This Kendra is notified as SAMETI under ATMA, Puducherry.

This institute is awarded with National Level Best KVK Award for the year 2005-06 by the ICAR, New Delhi for its outstanding extension activities towards the livelihood development of farming community in Puducherry Region.





Chronological Development of KVK, Puducherry



2 ICAR - Krishi Vigyan Kendra, Kodagu

About ICAR-Krishi Vigyan Kendra Gonikoppal, Kodagu

ICAR-Krishi Vigyan Kendra (KVK) is a knowledge and Resource Centre of Indian council of Agricultural Research (ICAR). This aids developing and dissemination of location specific technologies at district level. Krishi Vigyan Kendra (KVK), Gonikoppal is the first ICAR KVK in Karnataka was established on 16th December 1976 under Indian Institute of Horticultural Research (IIHR), Bengaluru in Kodagu District. Initially it was functioning at Chettalli, under Central Horticultural Experimental Station (CHES). Later during the year 1992, the erstwhile Citrus Experimental Station, Gonikoppal activities were shifted to Chettalli and Krishi Vigyan Kendra started functioning at Gonikoppal. KVK, Gonikoppal is located in Ponnampet taluk which is 65 km away from Madikeri and 92 km away from Mysore. The centre is situated in Sub-tropical humid zone with mean temperature of the station range between 32 °C and 19°C. The district is entirely depending on rains of Kharif season and majority of the crops will be taken up with the help of rain water with protective irrigation. This hilly region is a part of Western Ghats known for its coffee estates, thick vegetation, high rainfall, sports persons and warriors. The agro climatic conditions, soil type, available infrastructure, extension support in the district have greatly encouraged cultivation of plantation and spice crops



3 ICAR - Krishi Vigyan Kendra, Haveri

KVK Haveri comes under the purview of University of Agricultural Sciences, Dharwad. This ICAR - Krishi Vigyan Kendra (KVK), Haveri was established at Hanumanamatti in the year 1977. The activities of KVK includes On farm testing, Front line demonstrations, trainings to farmers, production and supply of seeds and planting materials and serve as resource and Knowledge centre.

On Farm Test (OFTs)

So far, more than 133 OFT have been conducted in Agriculture, Horticulture, Animal husbandry and Home science with the aim of verifying scientifically validated technologies at the farmers field level.

Front Line Demonstrations (FLDs)

To create awareness about new production technologies, conducted 282 demonstrations from 1991-92 till now. Through these demonstrations, the farmers of the district were able to adopt the new technologies in their fields and also helped in disseminating information to other farmers.

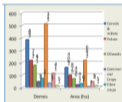


Fig. 1. Thematic area category wise front-line demonstrations during 2011-12 to 2021-22

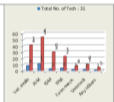


Fig. 2. Thematic area wise technology assessment under crop during 2011-12 to 2021-22

Trainings

According to the requirements of the farmers and to introduce new technologies, 1310 indoor and 1638 outdoor training programs have been organized in the premises of the center and in the villages, and more than one lakh farmers/farmer women have benefited from it. Based on the knowledge of the trainings received on seed production, soil and water conservation, irrigation practices, improved tillage practices, integrated farming practices, vermicomposting, dairy farming income generating activities many have emerged as resource persons. More than 120 trainings have been organized for the extension workers and officers of various departments working in rural areas to help the farmers to carry out self-employment and to disseminate new technical information to all the farmers in the district.

Seed production and supply of quality seedlings

More than 850 quintals seeds produced in groundnut, sorghum, millets and green manure crop like sunhemp and provided to the farmers. Similarly more one lakh high quality planting materials of Horticultural crops like sapota, curry leaf, tamarind, drumstick, mango, cinnamon and guava are being produced and supplied to the farmers at reasonable prices.

Soil and Water Testing Station

A Soil and Water Testing Center was established in 2005-06 in the premises of KVK to create awareness among farmers about the importance of soil and water testing for scientific nutrient management and adoption of appropriate irrigation practices. So far 37,043 soil and 17802 water samples have been tested from different parts of the district and based on the results the farmers have been informed about the steps to be taken for higher yield.



Demonstration units

Dairy farming, sheep farming, back yard poultry, vermicompost, azolla, Horticulture nursery, fodder block and rain water harvesting units have been implemented in the campus to impart technical skills to the farmers visiting to the KVK trainings.

Publication and Promotion

Sincere efforts have been made to create awareness and more knowledge among the farmers through various mass media such as newspaper, radio, television, WhatsApp, facebook, twitter. In this direction, many success stories and inventions of farmers are being published to motivate the farmers by providing them with more technologies in addition to promoting the topics through written media like research articles, manuals, handout, folders, books. Farmers are being convinced about the new agricultural technologies by bringing the farmers under the single platform through workshops, agricultural fairs and material exhibitions.

Through electronic information transmission system, from time to time appropriate information is given to farmers on agriculture and agriculture related matters through sources such as information kiosks, mobile messaging and e-communication networks. Advice and appropriate guidance is also given through field visits, e-mail, telephone and letters to respond to farmers' problems.

Distinguished Achievements of KVK

- Imparted the awareness and skill development training programme on seed production technologies. The beneficiary farmers now involved in seed production of field crop and horticulture crops.
- New varieties of Groundnut (K-134, JL-24, R-8808, KRG-1 and GPBD-4), cotton (DHB-105 and DHH-11), maize (DMH-105), sesame (DSS -9), Redgram (Maruti, TS-3R, Asha, BSMR-736) and Sorghum (9-13, SPV-2217 and SPV-829) have been popularised.
- Introduced Soybean crop (JS-335) in the year 2012 in the district and presently it is been grown in 15000 ha area.
- Quality seedlings of Sapota (DHS-1, DHS-2), guava (L-49) and curry leaf (Suvasini) are being provided at reasonable prices. Due to this, there has been a significant increase in the area of dry land horticulture crops in the district.
- KVK created scientific and technical awareness about various components of organic farming like vermicompost production, green manure crops, use of biological pesticides, crop management and dairy farming.
- Integrated farming system has been widely popularised in the past decade and models have been implemented in farmers field for economic sustainability and self-reliance of farmers
- Biocontrol laboratory established in the year 2015. So for 9000 kg of *Trichoderma* provided to the farmers to encourage organic farming.
- Realizing the inclination of the farmers towards commercial crops, the KVK conducted the demonstration of Bt cotton in the district
- Popularization of millets like little millet (Sukshema, DHLm 36-3), foxtail millet (HMT-100-1, DHFm 76-3), finger millet (DHRS-1, DHFm 78-3), Kudu millet and brown top millet,
- For drudgery reduction purpose improved kurfi, edge sickle, ground nut decorticator, groundnut digger, cycle weeder, fruit harvester chaff cutter and milking machine demonstrated at farmers field.
- KVK has coordination with various line departments, voluntary organizations, cooperative organizations and banks operating at the district, taluk and village levels and also guidance and assistance are being sought from these organizations to achieve the objectives of the KVK.
- Awareness on new animal husbandry technologies like silage making, enriched dry fodder, clean milk production, balanced animal feed preparation, production of improved fodder crops, Azolla production, use of mineral mixture, artificial insemination, broiler farming, backyard poultry farming, sheep and goat farming created through extension activities.

4 ICAR - Krishi Vigyan Kendra, Gadag

38 years in the service of farming community

Krishi Vigyan Kendra (KVK), a science and knowledge centre sponsored by Indian Council of Agricultural Research (ICAR), Department of Agricultural Research and Education under Ministry of Agriculture, Government of India was established in Hulkoti village of Gadag district of Karnataka State in collaboration with a Non Government Organisation "Agricultural Science Foundation" during the year 1985. KVK was named as *K.H.PATIL KRISHI VIGYAN KENDRA* in fond memory of the Founder of ASE Late Shri K.H.Patilji, the doyen of co-operative movement in this region, who facilitated the establishment of KVK in Hulkoti to serve farming community of Gadag district.



From then KVK with the support of ICAR, New Delhi has been relentlessly working for the past 38 years in the drought prone district of Gadag in Karnataka State. Based on the needs of the farmers, KVK formulated strategies and programmes which were implemented through organisation of Front Line Demonstrations in various crops and enterprises, training programmes, extension programmes, seed production activities and supply of technical products. KVK collaborated with ICAR Institutes, State Development Departments, NABARD, Non-Government Organisations and other Institutions to strengthen the mandated activities. KVK achieved the following impacts and brought sustainable livelihood improvement of farm families in Gadag district during last 38 years.

- High yielding varieties of Greengram (DGGV-2 variety) and Bengalgram (JAKI-9218) variety have been spread in 90 per cent and 80 per cent of total area under cultivation in both the crops respectively. 24 to 27 percent increased productivity is achieved in both the crops.
- Redgram based intercropping system in Maize, Greengram and Foxtail Millet is spread in 4450 hectares with additional net returns of Rs.298 lakhs.
- KVK brought 12250 hectares of Onion area under improved variety of Arka Kalyan and Bheema Super
- Under drought situation KVK efforts resulted in establishment of Dryland Horticulture in 2000 area.
- KVK's efforts in crop diversification has brought 850 hectares of area under Cashew and 1200 hectares under Mango cultivation. KVK facilitated the farmers in marketing the raw cashewnuts and Mango through private organisations and melas. By this the farmers income is doubled through Mango and Cashew cultivation.
- KVK's efforts resulted in re-introduction of Millets namely Foxtail Millet, Little Millet and Browntop Millet. KVK established Millet Processing Unit to facilitate farmers in processing and marketing of processed Millets. The Ethnic Food Café and Organic Sales Unit were started at KVK Campus to create awareness on Millet



nutrition and easy availability of Millets and its value added products to the consumers. More than 100 Entrepreneurs in Millets and other enterprises have been nurtured by KVK.

- Awareness has been created among farmers on use of organic inputs. About 338 vermicompost units have been established with annual production of 5500 tonnes
- Under KVK guidance, more than 100 fodder cafeteria have been established, thus achieving nutritional security for livestock in KVK adopted villages
- KVK has successfully introduced primary processing equipments mainly Spiral Separator in 135 villages. Use of this equipment has not only reduced drudgery but contributed additional returns of Rs.12.98 lakhs to 780 farmers who have used it.
- In 2022, the Sahakar Radio 89.6 Mhz, Namma Dwani Nimagagi has been established at KVK Campus to provide timely information to farmers, farm women, youths on pests, diseases, crop varieties, market rates and rainfall data etc.

Thus a visible impact has been noticed in the district due to interventions of KVK in improving the livelihoods of farming community.



5 ICAR - Krishi Vigyan Kendra, Tumakuru - II

About Krishi Vigyan Kendra, Tumakuru - II

ICAR-Krishi Vigyan Kendra, Hirehalli, Tumakuru was established by the Indian Council of Agricultural Research (ICAR), New Delhi on 24th March, 2009. This is the first additional KVK allotted within a district. The KVK is located Hirehalli, in the NH-48 high way, about 10 km from Tumakuru towards Bengaluru. The major aim of the KVK is to cater to the needs of farmers of Tumakuru District, covering five out of ten taluks of the district viz., Sira, Koratagere, Pavagada, Madhugiri (Central Dry Zone IV) and Tumakuru (Eastern Dry Zone V). This KVK is functioning under ICAR-Indian Institute of Horticultural Research (IIHR), Bengaluru.



Achievements of KVK - Tumakuru-II

ICAR-KVK, Hirehalli, Tumakuru bagged First Prize in 3rd National Water Award for NICRA Project

The NICRA Village of Tumakuru District, D. Nagenahalli (Yelerampura Gram Panchayat) being implemented by the ICAR - Krishi Vigyan Kendra, Hirehalli, Tumakuru, Karnataka was bestowed with the 1st Prize in the "3rd National Water Awards-2020" on 29th March, 2022 in New Delhi. The Yelerampura Gram Panchayat was felicitated with the Award by the Ministry of Jal Shakti, Government of India, recognizing the commendable efforts in the area of water conservation and management in the category of the "Best Village Panchayat - South Zone".

As the region is under Semi-Arid with the high variability of rainfall, the various Rain Water Harvesting Structures as part of Technology Demonstration Component of NICRA were constructed/renovated to conserve, store and provide the critical irrigations to the Kharif and Rabi Crops. About 81 Farm Ponds, 13 Check Dams, 13 Percolation Tanks were constructed as a part of the TDC-NICRA Programme since 2011. It helped in harvesting the rain water of 2,03,360 Cubic Meters (20.33 Crore Litres) in the Village. This led to the increase of additional area under the irrigation by 52 ha during the Kharif and 35 ha area during the Rabi Season. Several in-situ moisture conservation methods like tree based farming system and dryland horticulture crops were demonstrated in 43.5 ha area. Trench-cum-bunding, sowing across the slope and improved planting methods were also adopted by the farmers which resulted in the higher yields upto 35 per cent.



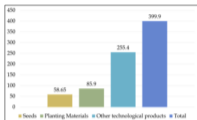
Dr N. Loganandhan, Principal Scientist & Head, ICAR-KVK, Hirehalli received the Award from the then Honourable President of India, Shri Ram NathKovindji, in the third National Water Awards and Launch of Jal Shakti Abhiyan: Catch the Rain Campaign 2022 in New Delhi. Shri. P.R.Ramesh NICRA Nodal Officer, President and PDO of Yeleramapura Gram Panchayat also accompanied him during the award function.

On 22nd March 2021, on 'World Water Day', the 'Jal Shakti Abhiyan: Catch the Rain' campaign was launched by the Prime Minister which was taken up in all districts in rural as well as urban areas of the country during the pre-monsoon and monsoon period. Noting the exemplary work done by the National Water Award winners for water management in their respective fields, the President said that on the basis of such examples, we could find hope for a water secure future.

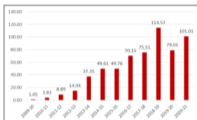


“ICAR - IIHR - KVK in the service of farmers - our nation builders”

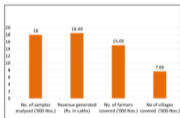
Our Achievements



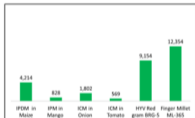
Value of technological products (Rs.in lakhs) produced by KVK (2015-20)



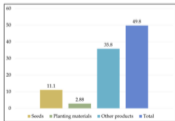
Decadal income under Revolving Fund Scheme: 2010-2020 (Rs. in lakhs)



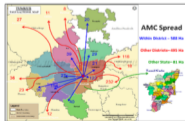
Outcome of Soil samples analyzed during 2015-2020



Dissemination of important technologies from KVK (Area in ha)



Number of farmers benefitted (in 1000's) by KVK products (2015-20)



Dissemination of technological product (AMC) within and outside the district/state



6 ICAR - Krishi Vigyan Kendra, Ballari

KVK Ballari's 28-year journey in service to farmers

Established in 1995 ICAR - Krishi Vigyan Kendra, Ballari has been doing a yeoman service to farming community of undivided Ballari district in the areas of agriculture and allied fields. Its significant role in transferring developed technologies, organising need based capacity building programmes for farmers and extension personal, front line demonstration of proven technologies and assessing suitability of a technology in Ballari region through OFTs has helped in improving socio-economic conditions of farmers in the district.

Major achievements of KVK, Ballari over 28 years of its journey are listed below:

"Drill sown paddy cultivation" method popularized in the district was able to impress farmers since it reduced cultivation costs, saved water, increased productivity and reduced insect and disease incidence.

The use of integrated crop management methods such as appropriate spacing and planting density, micronutrient management, and effective pest and disease management, in conjunction with suitable varieties have helped in increasing yield and economics in various crops, especially chilli, cotton and paddy and also in various horticultural crops viz., guava, pomegranate, sapota and banana.

The technology disseminated on stall fed ram lamb fattening was highly appreciated by farmers and as of now around 50 farmers have their stall-fed sheep units in their fields following trainings conducted by KVK, Hagari. Now the enterprise has become a source of income for these farmers, with a profit of minimum of Rs. 5,000 per ram lamb after only 7-8 months of fattening. The horizontal spread has roped in farmers into the economically sustainable embrace.

Trainings related to entrepreneurship development programme on fig value addition has seen a long lasting sustainable results with a group of farm women finding their livelihood in the enterprise. This activity has not just improved their livelihood but also has reduced the post-harvest losses of figs fruits.

The efforts of KVK have now spread into many areas with focus on secondary agriculture and value addition in various field and horticultural crops. This has helped KVK in attracting farmers, students, entrepreneurs in a large number in recent years.



7 ICAR - Krishi Vigyan Kendra, Belagavi II

Achievements of the KVK

KVK has analysed 14,730 soil samples and issued 1,13,635 soil health cards. KVK has produced total of 120.3 q of bio-agents, 1320 q of soybean seed (KDS-726, KDS-753 & NRC varieties), 1643 q of Bengalgram seeds (JG-11, BGD-111-1 & Jaki-9218), 295 q of Greengram seed (DGGV-2), 10 q of Black gram (DBGV-5), 39 q of Wheat (MACS-6478, UAS-375, DBW-93, DBW-168), 72 q of Groundnut (Dh-256 & Kadiri-1812), 69 q of Sorghum (M-35-1, SPV-2217), 4.95 q of Onion (Bhima Super), 2 q of Onion (Pune Pursungli) and 25,500 no. of planting material of different fruits and ornamental crops. The most promising technologies accepted by the farmers of the region are good practices in cotton enhanced the productivity which has spread in an area of 2155 ha, Greengram variety DGGV-2 spread in 884 ha, JG-11 in 25,874 ha, Jaki-9218 in an area of 12,000 ha, in-situ incorporation of sugarcane trash extended to 800 ha area, management of white grub by using *metarhiziumanisopliae* in 2,140 ha, eco-friendly management practices in pest & disease of cabbage production spread in 65 ha and soybean rust was managed in an area of 1 lakh ha by creating awareness in the Belagavi district. KVK has awarded with "Vishista Samman" from ICAR-IISR, Indore (MP) during 2021-22 for the quality soybean seed production with farmers participatory mode.





Significant Achievements of ICAR-Taralabalu Krishi Vigyan Kendra, Davanagere

Self-Employment Trainings to Rural Youth

Organised 18 vocational trainings for 380 un-employed rural youthon 'Coconut Tree Climbing and Plant Protection Management' sponsored by Coconut Development Board, Bengaluru., NRLM, Zilla Panchayath, Davanagere and Agricultural Skill Council of India, New Delhi in the last 8 years. The trained youth are provided with climbing device to be self- employed in rural areas. After the training the average tree climbing by the youth increased from 12 to 35 trees/day and average earnings increased from Rs. 2,450 per month to Rs. 6,900 per month.

WhatsApp groups

Started 19 WhatsApp groups which included Krishi Vigyan Kendra and AHRS scientists, Development Department personnel, farmers, NGOs activists, FPOs, company manufacturers among others. Innovative technologies are discussed and farmers problems are addressed immediately.

Saturday Organic Bazaar

Promotion of organic farming by both State and Central Governments in the last 2 decades encouraged many farmers to take up organic farming in Davanagere district. The agricultural output produced through this organic farming is need to be marketed through separate channels without mixing with regular markets because the yield levels especially in the initial years are low when compared to normal practice. The farmers are finding it difficult in marketing these produce. ICAR-Taralabalu Krishi Vigyan Kendra, Davanagere initiated Saturday Organic Bazaar during 2013. This marketing facility in the KVK premises facilitated organic farmers to sell their produce directly to the consumers without the involvement of middlemen. The organically produced rice, millets, jaggery, groundnut oil, sunflower oil, safflower oil, coconut oil, fruits, vegetables, dry fruits, value added products from rice and millets among other products are sold. From consumers point of view they were getting healthy and good quality produce directly from farmers.

The average transaction per week in Saturday Organic Bazaar from 8 participant is Rs. 65,865 and average profit to farmers is Rs. 26,675 which accounts for 40.5 per cent. Since the organic farmers are selling their produce directly to consumers without involvement of middlemen resulting in enhanced income to the farmers, This model is continued since 2013 indicates the acceptance from consumers who are getting daily needs at their doorstep.

Kasa Rasa Abhiyana

Campaign and Demonstration started in 2015 for urban bio-waste degradation using microbial culture and conversion of it to compost for use in kitchen garden. Till now 1450 households in Davanagere city adopted this technology.

Establishment of Amirth Farmer Producer Organization

17 Farmer Producer Organisation (7 in Davnagere, 5 in Haveri, 5 in Chitradurga district) were established in collaboration with Watershed Development Department, Horticulture Department, Fisheries Department, Sheeps Wool Development Department. All the FPOs are doing input business like seeds, fertilizers, Pesticides, irrigation items etc. and output business, besides technology dissemination.

Direct Marketing of Mango

The normal procedure followed in Mango marketing is leasing out whole plantation for 2 to 3 years to local traders. The average earning to farmers through this marketing channel ranges from 20 to 25 per cent of consumer price. ICAR-Taralabalu Krishi Vigyan Kendra, Davanagere organized several frontline demonstrations on integrated crop management in mango and given technologies like integrated nutrient management, integrated pest and disease management, pruning and also introduced 'Mango special' technology released by ICAR-Indian Institute Horticultural Research, Bengaluru. The frontline demonstrations resulted in increase in yield of Mango upto 15 per cent. This increase

in yield of mango has not helped farmers in getting higher income due to poor marketing channels. Along with these technologies KVK also established community mango ripening chamber for safe ripening of mangos using ethrel and causticsoda. KVK convinced 5 farmers to not to lease out mango plantations and instead harvest themselves and ripen them using safer chemicals and provided opportunity in KVK Premises to sell mangos directly to consumers. The analysis of direct marketing mango by the producer farmers reveals that during 2018-19 1.1t mango sold and earned gross income of Rs. 66,000 followed by 2.5t with gross income of Rs. 2,00,000 during 2019-20, 8.5t and earned gross income of Rs. 8,50,000 during 2020-21, 6.8 t with gross income of Rs. 7,48,000 during 2021-22. All 5 farmers could have leased out their mango plot and earned gross income of Rs. 2,50,000 only, instead the farmers earned Rs. 8,50,000 (more than three times profit) with little additional effort and cost of harvesting, ripening and transportation which accounts to approximately Rs. 50,000.

Garden Training

In order to grow organic fresh vegetables in household level, 7845 urban households were trained in kitchen and terrace gardening and 39 % of trainees are adopted this practice.

Youtube Videos

Released 89 videos in youtube with agricultural technologies for the benefit of farming community

Best KVK Award:

Awarded with 'Pandit Deendayal Upadhyaya Rashtriya Krishi Vigyan Protsahan Puraskar-2018 (Zone-XI)'. Central Agriculture Minister Sri Narendra Singh Tomarji presented the award on 16-07-2019 at New Delhi, in recognition of achievement of Krishi Vigyan Kendra for farming community.

Best NICRA KVK Award

KVK received 'Best NICRA KVK' Award 2019 during annual review meeting held at ICAR-CRIDA, Hyderabad during 4th - 6th June, 2019 for climate resilient technology dissemination.

Best KVK award

ICAR-Taralabalu Krishi Vigyan Kendra received 'Best KVK' award 2022 by ICAR-National Research Centre for Banana, Tiruchirappalli, Tamil Nadu in recognition of outstanding achievements made in the transfer of Banana related technologies on 20-08-2022.





9 ICAR - Krishi Vigyan Kendra, Alappuzha

Significant achievements of ICAR-KVK-Alappuzha

Krishi Vigyan Kendra – Alappuzha was established in 2004 with ICAR-CPCRI, Kasaragod as the host organization and located in the Regional Station campus at Kayamkulam. The district of Alappuzha is characterized by the presence of Coastal Plains and Midland laterites with paddy, coconut, vegetables, banana, spices, tuber crops, dairy, poultry, goatary, fisheries, mushroom, and value addition as the major crops & enterprises. Apart from the routine and mandated activities of frontline extension in the agricultural and allied sectors, the KVK takes up demonstrations on Coconut based Integrated Farming Systems, Climate Resilient Farming Technologies, Production of inputs for farming activities; promotes Value chain of crops, Farmer producer Companies, ICT application in Agriculture; and hosts an Incubation centre for Secondary Agriculture and Farmer facilitation centre and Rural mart through its FPO. The demonstration farm of the KVK has a mushroom spawn production unit; plant propagation units; Dairy, poultry, goatary, duck and fish units; different composting units; Farm machineries and equipments unit and a small sales counter for the benefit of the visiting farmers and students.

Among the many achievements that the KVK had during the last two decades, the major ones are:

1. Large scale adoption through popularization of climate resilient technologies for the rice based cropping system and animal/poultry husbandry in Kuttanad region where below mean sea level farming is practiced
2. Success in dairy, goat and poultry rearing through improved shelter, feed, breed, and disease management through capacity building programmes and demonstrations
3. Revitalizing turmeric cultivation in the district through value chain approach and Farmer Producer Company
4. Agro-Processing Training cum Incubation Centre (APTIC) of the KVK functions as a state level resource centre for capacity building and incubation of farmers and entrepreneurs in Agro-processing and value addition and hand holding for establishment of their enterprises
5. Delivering Agri inputs like planting materials, bio-agents, chicks, pheromone traps, mushroom spawn and technology booklets/handouts at affordable rates to farmers

In recognition of the performance and achievements, this KVK was awarded

- (1) Pandit Deendayal Upadhyay Krishi Vigyan Protshahan Puraskar of the ICAR for the best KVK in Zone XI during 2016
- (2) Best KVK Award-2021 of the ICAR-NRC Banana, Tiruchirappalli for the outstanding achievements made in the transfer of banana related technologies



10 ICAR - Krishi Vigyan Kendra, Ernakulam

ICAR-Krishi Vigyan Kendra (Ernakulam) of the Central Marine Fisheries Research Institute (CMFRI), as part of its commitment towards farmers, has adopted the new normal during Covid 19 and found ways to support them in those difficult times. As Covid 19 cases fell, the KVK shifted most of its programmes to offline mode to continue educating farmers. In order to support agriculture and allied sector and to promote self sufficiency, even during lock down the KVK delivered poultry chicks and Pearl spot seeds at farmer's doorsteps. Also KVK commenced daily door delivery of ready-to-cook cut vegetables to Kochi homes sourced directly from farmers of Ernakulam district to primarily assist them to market farm produce. As main fish landing centres and retail fish outlets were closed completely or partially, the KVK with the help of KVK's Self help group Kadappuram fresh fish vitharana sangam collected fish from farmers at farm gate and door delivered cleaned fish. KVK also commenced a tie up with online food delivery platform Swiggy for supplying farmers produce online. As part of KVK's main thrust area-promoting safe food production, quality organic inputs and seeds were supplied through its farm store located at CMFRI. Along with the farm store, Farm shoppe was also initiated to supply branded food products directly procured from farmers, farmer collectives and self help groups. This ensured reasonable price to the farmers as well. Live fish marketing was also demonstrated with the objective of enhancing farmer's income while supplying quality produce to consumers. In addition, the satellite production centres, established in public-private partnership mode in farmer's fields, produce quality vegetable, tuber crops & fruit planting materials, poultry chicks and fish fingerlings (Pearl spot) in large-scale and supply accordingly. KVK also popularized sesame cultivation in summer paddy fallows. Exposure visit for the trainee farmers of the Regional Agricultural Technology Training Centre (RATTC), Vytilla to KVK's farmer participatory demonstration sites for cross learning, in association with the Kadoopadam Chira samrakshana samithy and Malsyakarshaka club, Mookkannoor rejuvenation of freshwater pond, Jal Shakti Abhiyan and mela, natural farming and other capacity development programmes, technology backstopping, ATMA Kissan Gosthis and live webcasting of Hon'ble PM's programmes were organized. The Mini rice mill installed by KVK Ernakulam at the Periyar valley Spices Farmer Producer company Ltd., Kothamangalam commenced its operation with the objective of demonstrating farm level paddy processing and branded marketing of locally produced rice as a profitable rural enterprise. Field days on precision farming in watermelon, salad cucumber, sesame cultivation, etc was conducted. This KVK is emphasizing safe to eat food production in homesteads through its various programmes.



11 ICAR - Krishi Vigyan Kendra, Idukki

KVK Idukki coordinated the release of “KisanSamridhhi” brand of AIARI Zone XI, Bengaluru

In 1955, KrishiVigyan Kendra or Farm Science Centre was started in Santhanpara under the society for the holistic development of farmers of Idukki district and for effective dissemination of information and technology related to innovative farming and Good Agricultural Practices. Since past 25 years Krishi Vigyan Kendra, Idukki mainly focus on the upliftment of Spice farmers with latest innovative technologies. Release of “KisanSamridhhi” brand of AIARI Zone XI, Bengaluru was done in Zonal workshop of KVK's 2022 held at University of Agricultural Sciences, Dharwad. Idukki district is the spice bowl of Kerala, mainly Small cardamom, Black pepper, Nutmeg, Cloves, Cinnamon and alike. KrishiVigyan Kendra, Idukki has initiated the registration and received the trademarking for the brand named “KisanSamridhhi” in 5 classes in the name of The Director, AIARI, Zone XI, Bengaluru. The logo was designed as per the norms and condition by KVK Idukki. Sushri. Shobha Karandlaje, Honorable Minister of State Agriculture and farmer's welfare, Government of India, New Delhi released the logo of KisanSamridhhi during the Annual Zonal workshop of KVK's held at UAS, Dharwad. A KisanSamridhhi branded Spice box developed by KrishiVigyan Kendra, Idukki comprising different spices from Idukki district was also released during the event. Farmers across the nation can use the brand KisanSamridhi for marketing of their quality produces.



12 ICAR - Krishi Vigyan Kendra, Kannur

Krishi Vigyan Kendra Kannur is a front-line agricultural extension centre and one of the KVKs financed by the Indian Council of Agricultural Research (ICAR) under the Kerala Agricultural University. It started functioning on 30 March 2004 on the premises of Pepper Research Station, Panniyur. KVK primarily works to influence the other extension systems of the district, caters to the training needs of the farmers and extension functionaries, and facilitates the spread of technologies tailored to the diverse environment of farmers. The activities of the Kendra are focused to address the prioritized agricultural problems of the district and identified thrust areas.

Major interventions:

Farmer producer organizations (FPO)

KVK is involved in providing technology support to the three FPOs in the district as Producer Organisation Promoting Institution (POPI) with financial support from NABARD.

- Mayyil Rice producer Company (Special Grant of Rs 50.00 Lakh from State Planning Board 2020-21) with 510 share holders. Semi processing rice mill worth 15 lakhs is installed at mayyil.
- Cheruthazham Black Pepper Producer Company (Special Grant of Rs 50.00 Lakh from State Planning Board 2019-20) with 500 share holders.
- Kuttiyattoor Mango producer Company with 609 share holders got GI certification this year.

In addition to this we are also providing technical support to other FPOs in the district. Raised coconut seedling nursery to produce 15000 seedlings from elite mother palms identified from district through convergence with Tejaswini Coconut producer Company at Cherupuzha.

Participatory production of seeds and planting materials:

Quality seeds of latest KAU released HYV of Paddy-Akshaya and Lavanya are produced in farmer's field through participatory mode to meet the demand of high yielding quality paddy seeds. Salt tolerant variety of paddy, Lavanya is suitable for saline ecosystems of Kerala like Kaipad and Pokkali are performing well under the natural Kaipad lands with soil amelioration. About 5.0 tonnes of seeds were produced and are to be supplied through department of Agriculture for horizontal spread.

Production of tubers like Tapioca e.g. Sree Pavithra and Sreeraksha, Yams, Sree Neelima and Sree Keerthi, Sweet potato, Turmeric etc. also was started with support from CTCRI, Thiruvananthapuram and IISR Kozhikode.

Attracting and Retaining Youth in Agriculture (ARYA)

Ensuring livelihood and entrepreneurship support to target youth by continuous handholding support under ARYA is attracting many youths and NRIs to take up innovative solutions as well as income from primary sector. KVK has conducted training to youths under Production, Processing, Value addition, Marketing of fruits, vegetables, coconut, mushroom and honey, nursery management etc. under this programme and the placement record is encouraging. Training to rural youth in association with FPO is also yielding good results in processing value addition and nursery activities. A training cum incubation centre is also functioning under ARYA.

National Innovations on Climate Resilient Agriculture (NICRA)

Chengalayi panchayath in Kannur district is selected for the NICRA project. Various climate resilient interventions were undertaken like soil health management and SOP using soil test data, Scientific mat nursery preparation, IPM strategies, micronutrient application, seed production of tuber crops, introduction of short duration turmeric variety.

Mushroom Spawn Production

Many mushroom-based entrepreneurial units were established in various parts of the Kannur district. Right now the availability of quality spawn is one of the major production constraints that mushroom farmers face. To overcome



this, KVK Kannur has established a mushroom spawn production unit under ARWA ("Attracting and Retaining Youth in Agriculture") project to supply quality spawn materials to the mushroom farmers of the Kannur district. 1200 nos of spawn packets are produced every month.

Bio agents Mass production units

KVK Kannur has started mass production of *Trichocake*, *Metarhizium*, in addition to the existing bio pharmacy activities including mass production of *Beauveria bassiana* and *Lecanicilliumlecanii*, *Trichoderma*, *Pseudomonas*, *Neemex*, enriched vermicompost, enriched coir pith compost with *Trichoderma* and micronutrients. These agents are distributed to the farming community through various outlets of the Department of Agriculture (Agro Service Centre, Eco shops, Bio input centre, Farmer Extension Organisation etc.).

Unser SHM a project on establishing a mass production unit for biocontrol agents has been sanctioned for an amount of Rs.90 lakhs.

Enterprises Developed

Skill training programmes conducted under different schemes, MIDH, ARYA resulted in the establishment of the following enterprises in the district:

Beekeeping units	: 47 Nos.
Mushroom Production units	: 64 Nos.
Processing and value addition	: 18 Nos.
Nursery	: 10 Nos.
Gardening and Landscaping	: 4 Nos.

Agri start ups for farming community

Deep flow Technologies, an Agri start-up in Kannur is addressing the problems of Pepper, rice, vegetables, and banana farmers with innovative solutions through a farmer-friendly mobile app namely "Farmer Assist" for monitoring the history of management and return on investment with technical support from KVK and PRS. The modality of Result based management (RBM concepts) in targeting a return on investment with a precision approach is being implemented in selected farmer's fields. They are already involved in addressing the field-level problems of Black pepper rice, vegetables, and banana of Kannur, Kasaragod and Idukki and the experience gained with these crops can be well replicated in other crops also.

Nutrigarden

Nutrigarden programme was implemented in convergence with Njangalumkrishileku with short-term and long-term strategies targeting **low external inputs to high nutritive outputs**. As an outcome of the nutrigarden programme, Munderi Gramapanchayat is implementing the same programme in over 3000 homesteads under Njangalumkrishileku and more panchayats too started similar programmes.

District panchayat with KVK intervention is implementing Passion Fruit village in 100 locations spread over 13 panchayats.

Cluster FLD on Pulses

Role of pulses in improving land productivity as well as nutritional security by making use of fallow land was the objective and accordingly, promising high-yielding varieties of pulses were made available to farmers in Ezhome, Pattuvam, Pariyaram, Kurumathur, Kadannappally, Kunnimangalam, Mayyil etc. Seeds of green gram varieties BGS-9 and CO 8 and black gram LBG 791 were distributed to farmers as part of the programme covering an area of 80 hectares (40 ha green gram + 40 ha black gram).

Cluster FLD on oilseeds

HYV of sesame Thilak and TMV 7 were introduced in the Clusters of MalappattomPattuvamKadannappilly, Payyavoor and Kuttiaatoo. White sesame variety G Til 4 also introduced in the area. KVK Kannur in convergence with Kudumbasree has taken up project in tribal areas of Payyavoor. Khadiri variety of ground nut was introduced in 5 ha of Kannur district.

Agri Knowledge Centres

KVK Kannur scientists are acting as nodal officers of Taliparamba, Irikku, Edakkad and Peravoor block for a holistic agricultural development by helping the people representatives and extension functionaries in developing a comprehensive block level development plan under decentralized plan for each block in Kannur. Special project for MunderiGrama Panchayath is prepared under the guidance of KVK Kannur.

Filed level issues are addressed by KVK team in managing Yellowing of Arecanut, in Payyanur and Taliparamba Blocks. MDDT visit was conducted to the landslide area of peravoor block and proposed revival package.

Aralam Farm Revival

A comprehensive revival package of Aralam Farm amounting to Rs.15.50 crores was prepared and submitted to the government by KAU where KVK scientists played an important role with our technical interventions. A series of handholding training were also conducted for the labourers and tribal families of the settlement area at Aralam in association with Kudumbasree and the tribal department.

Skill development trainings

Sponsored skill development training programmes were undertaken in collaboration with Kudumbasree, ESAF and Cheemeni Open Jail.

NABARD IFS Project

As part of the NABARD-funded project on Promotion of integrated farming through skill upgradation of master farmers, 20 master farmers and 40 youths as agri task force from 4 panchayaths of the district were trained.

SC-SP programme

Under the SC-SP programme, the production of quality seed rhizomes of improved varieties of ginger and turmeric was initiated in the Aralam, Mayyil and Cheruthazham panchayaths in collaboration with IISR.

Popularisation of improved varieties and hybrids of vegetables in collaboration with IHR in the Payyavoor, Malappattam, Muyyam, Mayyil and Aralampanchayaths.

A utility centre for SC farmers will be established at Pattuvampanchayath with ICAR support.

Training cum Demonstration on post-harvest fisheries

Four trainings were proposed and conducted on value addition of fish in collaboration with CIFT, Cochin. 20 beneficiaries were identified and training on various value added products like fish pickles, fish chutney powder, and breaded and battered products of fish was conducted.



13 ICAR - Krishi Vigyan Kendra, Kozhikode

Special about KVK, IISR, Kozhikode

Krishi Vigyan Kendra, Calicut was established in 1992 under the Indian Institute of Spices Research at Peruvannamuzhi, 60 km away from the district headquarters Kozhikode. Received Best KVK award- 2011 at Zonal level and working for improving agriculture, farmers income and entrepreneurship activities. Following are some of the flagship programmes of this KVK.

- ❖ Bush pepper seedlings production by offering trainings (@ more than 10 trainings per year for >300 farmers), production (@10,000 seedlings per year) and supply to farmers from Kozhikode, Malapuram, Kannur, Thrissur, Ernakulam, Trivandrum of Kerala. In addition supplied bush pepper to other states like Tamil Nadu, Karnataka, Telungana and Maharashtra.
- ❖ Exclusive farmer trainings such as friends of coconut (two batch per year) funded by CDB, Cochin; Broiler goat rearing, Ornamental fish colour enhancing feed production, Kasturi turmeric seed production are special of this KVK.
- ❖ Production and supply of nutmeg grafts, layer chicks, spice plant seedlings and seeds are also unique to this KVK.

New initiatives

KVK, Kozhikode has been carrying new initiatives for the benefit of farmers.

1. Mass production and distribution of bush pepper through field nurseries.
2. Strawberry cultivation in high elevation and plains of Kozhikode district.
3. Introduction of green gram cultivation in Summer fallows.
4. Small onion cultivation with seeds from TNAU (Co - 5 and Co-6).
5. Drone usage in Agriculture mainly for spraying of micronutrient mixture.
6. Hatchery for layer chick's production and Agri- Bio- Pharmacy.

Awards and reorganization to farmers

Hand hold with farmers and making them happy by providing advisory, technological inputs, etc. The innovative and sincere efforts of farmers were recommended by KVK, Kozhikode for awards and reorganizations. During the past 30 years, the nominated farmers were bagged national, regional and state level awards. ICAR awards, Kerala state awards, Intuitional awards (IISR, IARI, CCARI, CDB, etc.), women's day awards.

Following farmers were received awards during 2022-23 as per nomination by KVK, IISR.

- ❖ Smt Bindu Joseph received ICAR award (Pandit Deen Dayal Upadhyay Krishi Puraskar - 2022).
- ❖ Mr K.T. Francis received Best coconut farmer – South West region of Coconut (2022) Development Board, Cochin under large farm small holding category.



14 ICAR - Krishi Vigyan Kendra, Malappuram

KrishiVigyan Kendra, Malappuram established in 2004 has been one of the foremost agricultural extension centres of the State, and has assumed a major role in improving the livelihood of the farming community of Malappuram district. KVK Malappuram was instrumental in making strategic interventions in addressing the pressing problems in the district. The centre contemplates new ways to integrate promising models for the agriculture sector targeting global competitiveness. Formation of an SHG group 'KrishiSahayi' focusing on women empowerment in mechanization of paddy has earned national appreciation. Setting up of crack teams for coconut based mechanization, the 'Friends of Coconut' through KVK-CDB collaboration, has been another successful outcome of the group mechanization efforts taken up by the Kendra, in major crops. Systematic endeavours of the Kendra in the area of Integrated Pest and Disease Management, gained abundant appreciation. A couple of cyber extension models like a robust mobile application in agriculture (Farm extension manager) covering technical information on hundred crops, SMS based farm advisory service and an on line credit calculator have been developed by the scientist of the centre.

KVK has strong functional linkages with various departments and more than 20 stake holders including line departments, NABARD, State Planning Board, LSG bodies, research institutes, etc which earned immense good will and unparalleled reputation in the agrarian sector of the state.

The centre is having a District Agro Meteorological Unit (DAMU) which release biweekly agro-advisory bulletins based on weather forecast data.

As a testimony for its incredible journey, the centre has been conferred with best KVK Award of ICAR in 2015 and of Kerala Agricultural University in 2018. Unstinting efforts of the KVK in uplifting farmers, also culminated in honouring with PPVFR award- 2015, JagjivanramAbhinavkisanpuraskar in 2018 and 2021 and Kisansammrudhi award for best woman entrepreneur awards of ATARI, during the year 2021 to its nominees.





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ICAR - Krishi Vigyan Kendra, Lakshadweep

Arka Subra in coconut garden a way forward to address nutrient deficit soil

Recent studies indicate that soils of Lakshadweep are deficit of nutrients causing severe incidences of insect, pest and diseases. Loss in immunity of coconut palms has been widely observed. One of the recommendations of ICAR-CPCRI and ICAR-IIHR to KVK-Lakshadweep, ICAR-CMFRI is towards enriching the soil with nutrients. Being an organic territory, all biological methods have to be tried out. One of the advised interventions is to introduce Velvet Bean (*Mucuna pruriens*), that can fix nitrogen in soil and have the potential to contribute to soil N concurrently increase the yields. With this, ICAR-IIHR supplied *Mucuna* seeds var. Arka Subra to be demonstrated in three islands. In this series, the first demonstration was held at Kavaratti involving 15 major coconut growers. The demonstration was introduced by Dr. P. N. Ananth, Senior Scientist and Head of KVK. Seeds of *Mucuna* were distributed and the concern about soil health were discussed and strategies were drawn out.







INTERNATIONAL YEAR OF
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**भा.कृ.अनु.प - कृषि तकनीकी अनुसंधान
संस्थान जोन-११,
हेब्बल, बेंगलुरु - ५६० ०१४**

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