

KVK TIMES

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

Vol 01, Issue 43, 1-15 April 2023



ICAR-Krishi Vigyan Kendra, Udupi

Keladi Shivappa Nayaka University of
Agricultural and Horticultural Sciences
Iruvacki, Shivamogga



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ಕೆಲದಿ ಶಿವಪ್ಪ ನಾಯಕ ಕೃಷಿ ಮತ್ತು ತೋಟಗಾರಿಕೆ ವಿಜ್ಞಾನಗಳ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಶಿವಮೊಗ್ಗ

**KELADI SHIVAPPA NAYAKA UNIVERSITY OF AGRICULTURAL AND
HORTICULTURAL SCIENCES, SHIVAMOGGA**

Dr. R.C. Jagadeesha

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FOREWORD

Dr. R. C. Jagadeesha

ICAR - Krishi Vigyana Kendras (KVKs) are working tirelessly and continuously struggling for the socio-economic development of farming community and promotion of scientific agricultural practices. Agricultural growth in India is a need-based research and transfer of information, knowledge and agricultural technology to the farmers and stakeholders. KVKs, the extension pillars of the nation, have played a pivotal role in disseminating technical *know-how* and information to farming community in India.

I strongly believe that documentation of good practices, research and extension activities is an essential part of successful organization. All the KVKs of Zone XI, under the aegis of ATARI has taken a great step in bringing out fortnightly newsletter "*KVK Times*". This publication gives a quick glance over a multitude of activities carried out in Zone XI.

I heartily congratulate KVK-Udupi for publishing "*KVK Times*"- Vol 01, Issue 43, 1-15 April, 2023 that includes success stories and recent happenings in agriculture and allied sectors to bring it to the light for general public and farmers. I also appreciate the team of KVK-Udupi, KSNUAHS, Shivamogga for their untiring service to agriculture and allied sciences in general and local farming community in specific.

I wish the KVK fraternity a greater success in the days to come.

Place : Iruvakkki
Date : 11-04-2023


(R. C. Jagadeesha)



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**KELADI SHIVAPPA NAYAKA UNIVERSITY OF AGRICULTURAL AND
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PRELUDE



Dr. K. T. Gurumurthy
Director of Extension
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In agriculture and allied sectors, KVKs play an important role in reducing the knowledge and technological gap between research institutes and farmers. Contributions of KVKs in self-employment among rural youth, creation of entrepreneurship and livelihood leading to rural development and socio-economic upliftment of the farmers is commendable.

Documentation of KVK activities including success and inspirational stories through fortnightly newsletter, "KVK-Times" is a laudable initiative taken up by ATARI, Zone XI, Bengaluru chapter. I commend the efforts of Dr. V. Venkatasubramanian and his team for this publication tasks. I am sure that *KVK Times* shall become a platform for all the KVKs of the zone in sharing, collaborating, and networking with each other's research and extension activities. Further the newsletter can become a ready reckoner for the farming community and other stakeholders to stay abreast with the latest in the field.

I heartily congratulate and appreciate the efforts of Senior Scientist and Head of ICAR KVK – Udupi, Dr. Dhananjaya B., and his team in bringing out fortnightly issue of the *KVK Times* for the Vol 01, Issue 43, 1-15 April, 2023

I also wish the ICAR KVK-Udupi more laurels in the coming years.

Dr. K.T. Gurumurthy
Director of Extension
KSNUAHS, Shivamogga



ICAR Agricultural Technology Application Research Institute, Zone XI

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Dr. V. Venkatasubramanian

डॉ। वी। वेंकटसुब्रमण्यन

Director

निदेशक



Foreword

Krishi Vigyan Kendras (KVKs) play a crucial role in taking technologies developed in laboratories to farming community. Overall, rural development of the nation is accelerated by the activities and programs of KVKs. Collaborated participation of scientists, extension workers, farmers and other stakeholders have successfully increased self-employment and adaption of newer farming practices. This has helped immensely in improving socio economic conditions of Indian farmers. Thrust areas of KVKs included human resource development, science and technology backed farm practices, location specific technologies, market linkage and entrepreneurships in agriculture.

"KVK TIMES", a fortnightly newsletter publication was initially mooted with an intention to showcase and publicize various scientific information and technological advances of agricultural interest to farming community and other stakeholders. The newsletter shall now turned into an important engine to help in developing networks and collaborations among scientists and extension experts across the KVKs in Zone XI. I am extremely delighted to know that ICAR-KVK Udupi is bringing out the current edition of the newsletter. I am also happy to quote here that ICAR-KVK Udupi supported FPO has been awarded the national level best FPO award for the year 2022 in the "Outlook Agritech Summit And Swaraj Awards 2022".

I greatly acknowledge with gratitude the support and guidance received from Dr.R.C. Jagadeeshaa, Hon'ble Vice Chancellor of KSNUAHS, Shivamogga and Dr.K.T. Gurumurthy, Director of Extension, KSNUAHS, Shivamogga in all the activities of ICAR KVK-Udupi. I have bountiful appreciation to ICAR-KVK Udupi team headed by Dr. Dhananjaya, B, Senior Scientist and Head, ICAR-KVK Udupi for bringing out "KVK TIMES" Vol 01, Issue 43, 1-15 April, 2023. I wish ICAR-KVK Udupi a very fruitful and rewarding year ahead.

(V Venkatasubramanian)

Bengaluru
06 April 2023

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Indian Council of Agricultural Research, New Delhi :: ಭಾರತೀಯ ಕೃಷಿ ಅನುಸಂಧಾನ ಪರಿಷತ್, ನವ ದೆಹಲಿ
Keladi Shivappa Nayaka University of Agricultural and Horticultural Sciences, Shivamogga
ಕೆಲದಿ ಶಿವಪ್ಪ ನಾಯಕ ಕೃಷಿ ಮತ್ತು ತೋಟಗಾರಿಕೆ ವಿಜ್ಞಾನಗಳ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಶಿವಮೊಗ್ಗ

ಭಾ.ಕೃ.ಅನು.ಪ.-ಕೃಷಿ ವಿಜ್ಞಾನ ಕೇಂದ್ರ, ತಡ್ಡುಪಿ ❖ ICAR-Krishi Vigyan Kendra, Udupi

ಐ.ಸಿ.ವಿ.ಆರ್. - ಕೃಷಿ ವಿಜ್ಞಾನ ಕೇಂದ್ರ, ಉಡುಪಿ

ಬ್ರಹ್ಮಾವರ, ಉಡುಪಿ ಜಿಲ್ಲೆ-576213. ಕರ್ನಾಟಕ



ಡಾ. ಬಿ. ಧನಂಜಯ, ಹಿರಿಯ ವಿಜ್ಞಾನಿ ಮತ್ತು ಮುಖ್ಯಸ್ಥರು
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Dr. B. Dhananjaya

ACKNOWLEDGEMENTS

I feel privileged to bring out this compilation of "KVK Times"- Vol 01, Issue 43, 1-15 April, 2023 showcasing significant events and activities of Zone XI.

With immense pleasure, I express my heartfelt gratitude to Dr. R. C. Jagadeesha, our beloved Hon'ble Vice Chancellor, Keladi Shivappa Nayaka University of Agriculture and Horticultural Sciences, Shivamogga for his constant support and timely guidance rendered to KVK-Udupi in pursuing our research and extension activities.

I extend my heartfelt thanks to Dr. Gurumurthy, Respected Director of Extension, KSNUAHS, Shivamogga for his support and encouragement that always kept our staff motivated to achieve more. Our special thanks go to Dr. B. C. Hanumantha Swamy, Associate Director of Extension, KSNUAHS, Shivamogga for his continuous guidance.

I pay my immense gratitude to Dr. Venkatasubramanian, Director, ICAR-ATARI, Bengaluru for his continuous motivation and encouragement. Timely guidance and encouragements received from Dr. Srinivasa Reddy, Principal Scientist and Nodal Officer is highly acknowledged. Further, my heartfelt gratitude to ATARI, Bengaluru, Zone XI for giving us an opportunity to compile and bring out the Vol 01, Issue 43, 1-15 April, 2023

I greatly acknowledge the support received from all the staff of KVKs of zone XI in sharing their newsletter contents in time.

I sincerely thank my dedicated team of technical and non-technical staff at KVK-Udupi who have been instrumental in bringing this newsletter out with their invaluable contributions.

(Dhananjaya B.)

Place : Udupi

Date: 13.04.2023

KVK TIMES

A window to KVKs of ICAR-ATARI, Zone – XI, Bengaluru
Vol 01 Issue 43 1-15 April 2023

BEST KVK STALL AWARD: 2022-23

ICAR- KRISHI VIGYAN KENDRA, UDUPI
KELADI SHIVAPPA NAYAKA UNIVERSITY OF
AGRICULTURAL AND HORTICULTURAL SCIENCES, SHIVAMOGGA



ಕೆಆರ್‌ಡಿ ಶಿವಪ್ಪ ನಾಯಕ ಕೃಷಿ ಮತ್ತು ತೋಟಗಾರಿಕೆ ವಿಜ್ಞಾನಗಳ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಶಿವಮೊಗ್ಗ

ಕೃಷಿ ಮತ್ತು ತೋಟಗಾರಿಕಾ ಮೇಲೆ-2023

ಪ್ರಮಾಣ ಪತ್ರ

ಶ್ರೀ/ಶ್ರೀಮತಿ/ಮ|| ಕೃಷಿ...ಬಿಬ್ಬಿನ...ಕೇಂದ್ರ.....ಬ್ರಹ್ಮಾವರ.....ಇವರು

ಕೆಆರ್‌ಡಿ ಶಿವಪ್ಪ ನಾಯಕ ಕೃಷಿ ಮತ್ತು ತೋಟಗಾರಿಕೆ ವಿಜ್ಞಾನಗಳ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಶಿವಮೊಗ್ಗದಲ್ಲಿ
ದಿನಾಂಕ 17 ರಿಂದ 20 ಮಾರ್ಚ್, 2023 ರವರೆಗೆ ನಡೆದ
"ಕೃಷಿ ಮತ್ತು ತೋಟಗಾರಿಕಾ ಮೇಲೆ-2023" ರ
ಅಂಗವಾಗಿ ಏರ್ಪಡಿಸಿದ್ದ ಕೃಷಿ ಹಾಗೂ ತೋಟಗಾರಿಕೆ ವಸ್ತುಪ್ರದರ್ಶನದಲ್ಲಿ ಭಾಗವಹಿಸಿ,
ಅತ್ಯುತ್ತಮ ಕೃಷಿ ಬಿಬ್ಬಿನ ಕೇಂದ್ರ ಯುಜಿ..... ವಿಭಾಗದಲ್ಲಿ
ಪ್ರಥಮ / ದ್ವಿತೀಯ / ತೃತೀಯ ಸ್ಥಾನ ಪಡೆದಿರುತ್ತಾರೆ.

ವಿಶ್ವವಿದ್ಯಾಲಯ ನಿರ್ದೇಶಕರು
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ವಿಜ್ಞಾನಗಳ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಶಿವಮೊಗ್ಗ

ವಿಜ್ಞಾನ
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ವಿಜ್ಞಾನಗಳ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಶಿವಮೊಗ್ಗ



ICAR KVKs

Alappuzha	1	Kodagu	18
Bagalkot	2	Kolar	18
Ballari	2	Kollam	19
Belagavi-I	3	Koppal	19
Belagavi-II	4	Kottayam	20
Bengaluru Rural	5	Kozhikode	20
Bidar	5	Malappuram	21
Chamarajanagar	6	Mandya	22
Chikkaballapur	6	Mysuru	22
Chikkamagaluru	6	Palakkad	23
Chitradurga	7	Pathanamthitta	23
Dakshina Kannada	8	Ramanagara	24
Davanagere	9	Trissur	25
Dharwad	10	Triruvananthapuram	25
Ernakulam	12	Tumakur-II	26
Gadag	13	Udupi	27
Idukki	14	Uttara Kannada	27
Kalaburgi-I	14	Vijayapura-I	28
Kalaburgi-II	17	Vijayapura-II	29
Kannur	17	Waynad	29



AGRICULTURE SCENARIO OF UDUPI DISTRICT





ICAR-KVK Alappuzha

Unique Unipole display on 'International Year of Millets'

On the occasion of the International Year of Millets-2023, KVK-Alappuzha erected an attractive display on the unipole hoarding highlighting the importance of millets in our daily life. The unipole hoarding was established in 2020 with a display on various Govt of India schemes in agriculture and allied sectors for creating awareness among the stakeholders.



On the occasion of International Year of Millets, the hoarding display was changed in February, 2023 to depict the importance of millets by highlighting the main features of seven important millets viz., jowar, bajra, finger millet, foxtail millet, barnyard millet, little millet and kodo millet. The text prepared in local language and relevant photos would certainly help all the visitors including farmers, entrepreneurs and consumers to understand the health benefits of consuming millets. This unique unipole display attracts attention of thousands who visit the CPCRI, RS campus as well as the KVK annually

Twelve students completed Internship/Project work in Food Processing

Twelve students from Vimala College, Thrissur under University of Calicut completed their three months Internship/Project work in the KVK as part of their Bachelor of Vocational Studies (B.Voc) in Food

Processing programme. During the three months period from 05.12.22 to 04.03.23, the students took up projects in processing and preparation of value added food products. In addition, they could attend all the training and awareness programmes conducted by the KVK in processing and value addition of agricultural produces (banana, jackfruit, coconut and various other fruits), providing them a good exposure on the potential of the sector.



The residential programme was undertaken by utilizing the machineries and facilities available in the Agro-Processing Training cum Incubation Centre (APTIC) of the KVK. Based on the observations made in the individual study topics, project reports were prepared by the students and submitted for the fulfilment of their degree programme.

Smt. Jissy George, SMS (Home Science) and Dr.P. Muralidharan, Principal Scientist and Head, KVK coordinated the programme and guided the students. Certificates to the students were distributed in the valedictory function conducted on 22.03.23, in which the students shared their experiences and confidence built through the programme, in the presence of KVK staff





ICAR-KVK Bagalkote

Visit to RSK – Karadi

Dr. Dinesh Kumar S P, Scientist (Agonomy), KVK Bagalkote visited RSK-Karadi on 10.04.2023 and given information regarding the 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.



altitude: 16.098866
longitude: 76.20891
latitude: 12.2316 m
accuracy: 11.6 m
time: 10-04-2023 12:45
site: RSK-Karadi

Visit to RSK – Savalagi

Dr. Venkanna Balaganur, Scientist (Animal Science), KVK Bagalkote visited RSK-Savalagi on 10.04.2023 and given information regarding the feeding strategy for increasing the SWF and fat in the milk of dairy cattles. Further farmers were given information on control of their animals with goat fox vaccine.



132th Dr. B. R. Ambedkar Jayanthi

The 132th Dr. B. R. Ambedkar jayanthi was celebrated at KVK Bagalkote on 14.04.2023 at KVK Bagalkote. On this occasion Dr. Sudha S, Scientist

(Plant Pathology), KVK Bagalkote and other staff and farm labours were present.



ICAR-KVK Ballari

Visits IFS farmer's field

Scientist's of ICAR-KVK, Ballari visited IFS farmer Sri.Doddabasavana Gouda's farm on 5.04.2023. Doddabasavana Gouda is a progressive farmer who hails from Chellagurki village in Ballari Tq and owns 2.5 acres of dry land with a bore well. Scientists interested with the farmer about his numerous farm activities during their field visit. For a consistent source of income, the farmer had grown drumstick inter cropped with ber, jackfruit, fig, and pomegranate. In addition, he grows brinjal and tomato as crops to support his monthly expenses by selling the produce at the nearest market.



In addition, he is a member of the "Natures Green" farmer producer organization, through which he sells drumstick seeds and other natural products to Ballari and other locations. Apart from that, he has a half-acre beetroot production that he sells at district organic outlets in Ballari.



ICAR-KVK Belagavi-I

Training on BEE star labelled energy efficient pump sets and water conservation

ICAR-BIRDS Krishi Vigyan Kendra Belagavi-(Tukkanatti) has conducted one day training programme on “BEE star labelled energy efficient pump sets and water conservation” on 23/01/2023 at KVK Campus. Sri. R. M. Patil, Chairman and Ex-Minister, GOK has presided the ceremony and in his presidential speech he urged to conserve the electricity and water to the maximum extent in order to lead a sustainable life and to help to lead a balanced life for the upcoming generation.



Mr. Mahesh Bagadi, Asst. Executive Engineer, HESCOM, Dhupdal was the Chief guest of the ceremony and resource person for the training. In his guest lecture, introduction to the BEE star labelled pump sets and their efficiency in conservation of the electricity was deliberated. In addition, he also pin pointed the activities where energy is being wasted and how to overcome that was also informed. A prolonged interaction where farmers queries were answered authentically and it was the main highlight of the training programme.

Mr. D. C. Chougala, Scientist of Krishi Vigyan Kendra deliberated on Solar power operated pump sets and

their usage in conservation of electricity. Central Government's KUSUM Scheme and what are the procedures to follow in order to avail this benefit the scheme was also discussed. Farmers queries on agriculture pump sets operated by solar power were discussed during the session.



Mr. Adarsha H. S, Scientist, Krishi Vigyan Kendra, in his guest lecture discussed about the alternative sources of energy. Additionally, energy efficient pumping, impeller trim, system pressure drop, use of control valves, BEE star ratings, points to be consider while rewinding the motor and water conservation were the major points of discussion during the lecture.

Mr. N. R Salimath, Scientist of Krishi Vigyan Kendra has expressed the vote of thanks. Farmers were given with reading materials for future studies. Food and refreshments for farmers and dignitaries arranged in KVK Campus. Thus, one day training programme concluded.





ICAR-KVK Belagavi-II

KVK Scientists visited to farmers fields

KVK Scientists undertook field visits of FLD/ OFT plots at Ingalgi, Bevinakopp and Devalapur villages of Bailhongal and Savadatti taluks. The team visited plots of sugarcane, sugarcane+soybean intercropping system, okra crops at Ingalgi village and capsicum, tomato and soybean fields at Bevinakopp village and taken observations on crop parameters related to growth, fruiting bodies. Besides this, concerned Scientists observed carefully the presence of egg/larva of major & sucking pests and their extent of damage on crops of and occurrences of the disease.



In this connection, Scientists provided technical advisories on measures to be taken for control of respective pest and diseases apart from prophylactic measures to be initiated by the farmers.



Farmers expressed their happiness over the performance of technologies introduced in the demonstrations and added that interventions like eco-friendly technology, INM, IPM and intercropping system will definitely enhanced the yield and income of the crop produce.

On campus training to extension functionaries

On campus training programme was organized for extension functionaries on crop production technologies in *kharif* crops. Scientist (Agronomy) explained about different crops grown in Belagavi district and their importance.



He addressed about different varieties and their characteristics, agronomic practices like land preparation, manures and manuring, spacing, method of sowing, weed and water management in *kharif* crops. Scientists (Soil Science) briefed about nutrients their deficiency and management practices. Scientist (Plant Protection) explained about different types of pest and diseases and their management.





ICAR-KVK Bengaluru Rural

Training programme on improved plant protection practices in horticulture crops

ICAR – Krishi Vigyan Kendra, Bengaluru Rural District and Karnataka State Department of Horticulture, Bengaluru District jointly organized training programme on 'Improved Plant protection practices in Horticulture Crops' at ICAR – Krishi Vigyan Kendra on 01.04.2023. There were two sessions organized in the training programme and 46 farmers and rural youth were participated.



Technical session included management of pest and diseases in horticulture crops through eco-friendly technologies, plant protection measures in fruits and vegetables. Method demonstration was organized on installation fruit fly traps in mango spraying of chemicals to Chilli in the field and use of plant protection safety kit to the trainees.



ICAR-KVK Bidar

Field Day on Sesamum crop

Sesame (Sesamum indicum L.) is the oldest indigenous oilseed crop, with longest history of cultivation. Sesame is commonly known as til (Hindi, Punjabi, Assamese, Bengali, Marathi), ellu (Tamil, Malayalam, Kannada), tila/pitratarpa (Sanskrit) in different parts of India. Sesame plant needs fairly high temperature during its life cycle. Normally the optimum temperature required during its life cycle is between 25 - 35 degree C the Swetha is introduced for summer season.



ICAR-Krishi Vigyan Kendra, Bidar conducted the field day on ICM in Sesamum with variety Swetha under Frontline Demonstration, in the field of Shri Rajreddy from Yerbagh village of Basavakalyan taluk, Dist Bidar on 10.4.2023. Dr. Sunilkumar N M , Senior Scientist and Head, ICAR KVK, Bidar and Chief Guest of the function asked the farmers to adopt ICM practices for getting the higher yield and to have sustainable income. The special feature of sesame variety Swetha is White seed, determinate, tolerant to powdery mildew, stem rot, leaf curl and macrophomina which mature between 90 to 95 days, Oil Content (%) 51 to 52 with highest yield and suitable for the summer season. Shri Rajreddy, Progressive farmer presided over the function and appreciated the KVK for providing the newly released and high yielding and summer suitable sesame variety seeds to the farmers for popularization. Dr Akshay Kumar, Scientist (Animal Science), of ICAR-KVK, Bidar participated and interacted with farmers (28 farmers).



ICAR-KVK Chamarajnar

World Health Day 2023

World Health Day was organized and conducted at Haralipura village for SHG members on 06.04.2023 with the theme "Health For All". Dr. Deepa J., Scientist (Home Science) briefed about the significance of the day and the theme which calls to take necessary actions to tackle health challenges today and tomorrow. Topics such as Millets and their value addition, Recommended Dietary Allowances (RDA) for women and diet to be followed for overcoming degenerative diseases were explained by the scientist to the participants.



She also stressed about the importance of balanced diet in daily life and sanitation and hygiene practices to be followed. At the end of the programme, SHG members and Scientist interaction was carried out where the participants expressed their interest for value addition in millets, ragi in particular. In total, 56 members participated in the programme.

ICAR-KVK Chikkaballapura

ICAR- KVK, Chikkaballapura organised training programme on azolla cultivation and its importance at Kutarajanahalli village of Chintamani taluk. Dr. Sandhya K., Scientist (Soil Science) explained about importance of azolla in nutrient management in dairy animals, ideal site for azolla cultivation and scientific cultivation of azolla. 26 farmers participated in the programme.



ICAR-KVK Chikkamagaluru

Assessment of 25 days Skill training on Honey Bee farmers

ICAR, Krishi Vigyan Kendra, Chikkamagaluru conducted 25-days skill training program for honey bee farmers from 08.03.2023 to 02.04.2023 in collaboration with the Agriculture Skill Council of India, New Delhi. Assessment of this capacity building programme was arranged on 10.04.2023 at KVK, Chikkamagaluru.



During this assessment, assessors from Agriculture Skill Council of India (ASCI) conducted theoretical and practical exams related to selection of site for beekeeping, beekeeping operations, installation of beehives, selection, procurement and introduction of bees in beehives in order to test the training skills and practical knowledge occurred by the trainees.

During this assessment Dr. Krishnamurthy, A. T., Senior Scientist and Head, KVK, Chikkamagaluru and Dr. Girish R, Scientist (Plant Protection), KVK,



Chikkamagaluru were attended and Total 20 Honey bee registered farmers were successfully attended this assessment programme.



Importance of weather-based forecasting system and weather-based application in agriculture

ICAR-Krishi Vigyan Kendra has organized capacity development programme at Aldur hobli, Chikkamagaluru taluk on 03.04.2023. Mrs. Shabnum, P. S., SMS (Agromet) has enlightened the gathering about DAMU schemes and its mandates, effect and role of weather in crop production.



Further explained about preparation and circulation of bulletins based on major crops in the taluk and also advised the farmers to practice weather-based farming system and Climate smart agriculture in order to reduce the loss and risks in agriculture sector and also explained in details about selection of right crop about right variety and effective utilization of weather forecasting in agriculture. Along with that, they advised the people to follow the advisories of DAMU-KVK, Mudigere regularly in which DAMU will provide integrated Crop Management advices in Agromet advisory services (AAS), also explained in details

about Meghdhoot and Damini Lightning application and its uses for farming communities and total 35 farmers got benefited out of it.



ICAR-KVK Chitradurga

Event report of Krishi Mela

Keladi Shivappa Nayaka University of Agricultural and Horticultural Sciences, Shivamogga organized Agricultural and Horticultural Mela at Navile campus from 17.03.2023 to 20.03.2023. In the Mela, ICAR KVK-Chitradurga participated and organized a stall for exhibition. The stall was inaugurated by Dr.R.C.Jagadeesha, Honourable Vice-chancellor of KSNUAHS, Shivamogga. Samples of Horticultural crops like Pomegranate, Guava, Sapota, Jackfruit, Pappaya, Dragon fruit, Banana, Coconut, Onion and Chilli were displayed. Agricultural crop varieties such as Cobs of Jowar, Maize, Millets, Groundnut, Castor, Sunflower and Safflower. Important Disease specimens were displayed and different types of pheromone traps were also displayed with the protection measures.





Millets and Value added products of millets like ragiladdu, ragi malt, ragikashaya, millets based laddu, dry jamoon, chakuli, nippatu, instant dosa mix, groundnut chikki and groundnut laddu were kept for sale under sahyadri brand. Fodder seeds were also kept for sale. Around two thousand farmers visited the stall and 40 per cent of the products were sold. ICAR KVK, Chitradurga stall received the Best Stall Award – 2nd Place.

ICAR-KVK Dakshinakannada

Farmers Field Day on Scientific Coconut cultivation



The ICAR- Krishi Vigyan Kendra (Dakshina Kannada) Mangaluru has organized the Farmers Field Day on scientific coconut cultivation programme sponsored by Coconut Development Board (Ministry of Agriculture and Farmer welfare, Government of India) Regional Office Bengaluru at Kodiyala Village of Sullia Taluk, Dakshina Kannada district.



Dr. Rashmi R., Scientist (Horticulture) briefed about scientific method of coconut cultivation practices, method of soil sampling and their uses, Integrated nutrient and water management in coconut. Dr. Kedarnath, Scientist (Plant Protection), ICAR-Krishi

Vigyan Kendra (Dakshina Kannada) Mangaluru highlighted about plant protection activities for sustainable and effective management of pest and diseases. In this programme 34 farmers participated and during the session Mr. Vittal Gowda, FOCT trainee and Master Trainer of FOCT palm climbing training shared his experience among the farmers on climbing of coconut trees by using climbing machine.

PRE-ACTION PLAN WORKSHOP

Pre action plan workshop for the year 2023-24 of KVK, Mangaluru under the KVAFSU, Bidar jurisdiction was held on 12-04-2023 at training hall of KVK, Mangaluru. At the outset Dr. T. J. Ramesha, Senior Scientist & Head, KVK, Mangaluru welcomed Director of Extension, Technical Experts, and Scientists for the workshop. Dr. N.A. Patil., Director of Extension KVAFSU, Bidar, chaired the session, Dr. Ravi Bhat, Head of Division (Agronomy) ICAR-CPCRI Kasaragod, Dr. Vinayaka Hedge, Head of Division (Plant Pathology), ICAR-CPCRI Kasaragod, Dr. Rajesh K. M., Principal Scientist (Fisheries), CMFRI Mangaluru, Dr. Jayaprakash S M, Associate Professor, ZAHRS, Brahmavar, Dr. Vasanth Shetty, Regional Research Officer, (Veterinary Science) Mangaluru & KVK Scientists and other technical staff were present during the workshop.



All the concerned scientists made deliberations during the workshop. Programme was ended with vote of thanks by Dr. Shivakumar R., Assistant Professor (Animal Science), ICAR-KVK, Mangaluru



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” to impart knowledge and skill on scientific coconut cultivation to farming community of Dakshina Kannada at Terasa Agro Solutions, Vittala, Bantawala. The Block level seminar was commenced with registration of participants. The seminar was inaugurated by Mr. Alphonso Mascarenhas, Progressive Farmer and interacted with the farmers and highlighted about the his expressive to the farming community. 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 and urged to utilise technologies developed by the various institute and Boards and also explained about scientific coconut cultivation practices for sustainable production of coconut. Dr. Kedarnath, Scientist (Plant Protection) ICAR-KVK, Dakshina Kannada participated as a resource person and Also explained about scientific methods of plant protection technologies for effective management of pest and diseases. Mr. K. Sadananda, Grama Panchayat President also participated in the programme. Total 51 Farmers/farm womens were participated in the programme.



ICAR-KVK TARALABALU Davanagere

Radio Kissan Day celebration



Celebration of Radio Kissan Day in collaboration with the All India Radio, Chitradurga. The main theme of the program was on International Year Millets – Production and Processing of Millets.

The program was inaugurated by Dr. Devaraja T.N., SSH and in speech he expressed that Radio is the important media and especially agriculture related programs were popular among the farming community. The international year of millets 2023, where the farmers should come forward to grow the millets.

Mr Mallikarjuna B. O., SMS (Agronomy) delivered lecture on the production technology of millets. Foxtail millet, Pros millet, Kodomillet, Barnyard millet and Korale are important millets which can be grown in kharif. The processing of millets, packing should be done on farm. The different products prepared from the millets were packed and sold.

Mr. Raghu, Entrepreneur who got the training on the preparation of the Banana Central core stem based juice, at NRC for Banana, Tiruchirappalli, who had prepared the juice and explained the method of preparation while sharing his experience.

The program was attended by Mr. Thippeswamy, DDA, Davangere, Mr. Renukaprakash, Head, AIR, Chitradurga and 200 farmers participated in the program.



Celebration of the Field day of NMOOP CFLD Groundnut.



Field Day was celebrated at Siddamanahalli, Jagalur taluk under NMOOP –CFLD Integrated Crop Management in Groundnut. The program was inaugurated by progressive FLD farmer Mr. Onkareswara and in his feedback he expressed that the technology provided by the KVK Scientists helped in achieving the better yield of the groundnut. The application of the gypsum at initial stages of the crop growth had improved the peg initiation and improved the yield. Spraying of Macro nutrient sprays had really helped in increasing the size of the pod and weight but due to weather condition we could not achieve the potential yield.

Mr. Mallikarjuna B.O., SMS (Agronomy) expressed that farmers should give importance to the seed production of the variety (G2-52) and in turn make higher net returns. FLD farmers participated in the program and visited the plots and interacted with farmers. Dr Avinash T. G., SMS (plant protection suggested the farmers to go for the varieties which are tolerant to the tikka disease.



ICAR-KVK Dharwad

The Pre-Action Plan Meeting 2023-24 of KVKs under UAS, Dharwad jurisdiction was organized by Directorate of Extension, UAS, Dharwad and ICAR-Krishi Vigyan Kendra, Dharwad at Staff Training Unit, UAS, Dharwad from 5-6 April 2023. Dr. P. L. Patil, Vice Chancellor, UAS, Dharwad, Chief Guest inaugurated and addressed the meeting that, Krishi Vigyan Kendras are at the forefront of bringing new technologies to the doorsteps of farmers.



All the KVKs should be actively involved in implementation of demonstration of new technologies and seed production programme in their respective KVK farms to increase the revolving fund. He assured that University will give all the support for the overall development of KVK farms. He suggested to publish research papers and popular articles on the technologies of KVK and research related to agriculture and allied subject in high NAAS rated journals.





Dr. A. S. Vastrad, Director of Extension, UAS, Dharwad presided over the meeting and expressed that incubation centers for entrepreneurship development have been set up in the university so that one rural youth from each KVK will be given direct support by the University to encourage them in various entrepreneurship programmes. KVK Scientists should also take part in research by proposing various sponsored projects. Dr. Shripad H. Kulkarni, Nodal Officer (KVKs), Directorate of Extension, UAS, Dharwad presented introductory remarks and welcomed the gathering. Dr. S. A. Gaddanakeri, Associate Director of Extension (HQ), UAS, Dharwad provided vote of thanks. Dr. V. S. Patil, Dean, College of Community Science, UAS, Dharwad, Dr. R. B. Belli, Associate Director of Extension (Vijayapur), UAS, Dharwad, Experts from respective departments, Senior Scientist and Heads, Scientists and Technical Officers of six different KVKs under UAS, Dharwad jurisdiction were present during the meeting. The Action Plans for 2023-24 were presented by the respective Senior Scientist and Heads and Scientists, the expert committee suggested modifications for improvement of the proposals.

Success Story of farm women

Smt. Parvathi Dandin

Smt. Parvathi Dandin from Shinganalli village of Dharwad taluka having 50 acres of irrigated land in which she mainly grows maize, sugarcane, soybean, vegetables and had a mango and coconut orchard, maintains four cross breed cows.



From the 50 acre land and dairy unit she used to get only net annual income of Rs. 7,10,700/- because of pest and disease problems in agricultural crops, reduced milk yield and reproductive problems in dairy animals. To address these problems and to enhance the farm income, she visited KVK, Dharwad for consultancy on sericulture and fish farming in farm pond, scientific management of dairy farming. Scientists given consultancy and visited her field and suggested to take up the sericulture, fish farming and growing of fodder in orchards.



After KVK intervention she established sericulture unit, vermicompost unit, grown guinea fodder grass in between mango orchard (500 mango and 100 coconut trees). Also released the improved breeds of fish fingerlings (Catla, Rohu, Amur) suitable for farm pond and organically growing vegetables. From the farm residues and dairy waste she recycled the waste into compost and jeevamruta. She also prepares the balanced concentrated feed for livestock from the available farm produce.



ICAR-KVK, Dharwad giving regular technical guidance and new innovative technology to update and improve the production in her farm. She is



member and leader for various NGO and SHG. Subscribed for agriculture and related magazines to update her knowledge.

Smt. Parvathi Dandin and her whole family members are working together in the farm and directly marketing farm produce. Now she is earning an income of nearly Rs. 24 lakh per year. She is also training and motivating other farm women in those areas. Many families in and outside the village also visit and taking guidance in improved agriculture practices. She was awarded as Innovative Farm Women by University of Agricultural Sciences, Dharwad during 2019-20. Also awarded organic farm women by Vishnu Sena by Hubballi.

Training programme on Nutri Garden

On 15.04.202, ICAR-Krishi Vigyan Kendra, Dharwad flamboyantly organized one day training programm on Nutri Garden. Dr. Prasanna Kumar, Scientist (Agronomy) welcomed the guests and trainees. Dr. Shweta Biradar, Scientist (Home Science) presented introductory speech about the programme.



Dr. M. S. Biradar, Senior Scientist and Head inaugurated the training programme. Dr. Vinutha Muktamath graced the programme as Chief Guest and delivered lecture on importance of nutri garden followed by a lecture on importance of nutrients on health by Dr. Shweta Biradar. Dr. Airadevi Angadi, Scientist (Horticulture) gave lecture on layout of nutri garden. Dr. Jayashree Pattar gave lecture on importance of organic manure. Dr. Praveen Goroji,

Senior Technical Officer (Lab. Tech.) gave lecture on importance of soil testing. Programme ended with the vote of thanks by Smt. Shailaja Galagali, Technical Officer (Computer).



ICAR-KVK ERNAKULAM

Kerala minister inaugurates KVK's Harvest mela.

The Minister for Industries, Government of Kerala, Shri P. Rajeev inaugurated the harvest mela of Watermelon from the precision farming demonstration fields of KVK Ernakulam at Kadungallur grama panchayath near Ernakulam on 8th April 2023. The watermelon was farmed in summer paddy fallows fetching additional income to the farmers. Shri. Jabbar and Shri. Santhosh P Augustine were the partner farmers. Fertigation and mulching were the highlights of precision farming. Need based foliar spray of macro and micro nutrients were also provided.



Pheromone traps were placed to counter the fruit fly attack. Normal water melon cultivation gives a yield of 20-25 tons/ hectare whereas the yield in precision farming was 38-40 tons per hectare. The



watermelon was sold at farm gate price of Rs. 30/- per kg. The wholesale price is only Rs.15/- per kilogram.

State level farmers seminar and Panel discussion moderated

KVK Ernakulam associated in organizing a state level farmers seminar and panel discussion as part of Ente Keralam 2023 programme held at Marine drive, Kochi on 6th April, 2023. Shri Shoji Joy Edison, SMS (Horticulture) of KVK Ernakulam moderated a session, Processing and value addition in agriculture commodities. Retired scientist from DFRL Dr. Anilakumar, Smt. Shamziya K H, Asst Professor, KVK Kollam and Dr. Jissy George, SMS Home science, KVK Alappuzha were the participants of panel discussion.



ICAR-KVK GADAG

CAPACITY BUILDING OF FPOs

ICAR-K.H.Patil Krishi Vigyan Kendra, Hulkoti, Center of Excellence for Farmers Producers Organisation, Bengaluru, Watershed Development Department and Department of Horticulture, Government of Karnataka jointly organised training and capacity building for Board of Directors and CEOs of FPOs on 15-03-2023 at KVK Campus, Hulkoti. The programme was inaugurated by Dr. Sudha V. Mankani, SMS (Home Science). She briefed about the importance of organising the training and capacity building programme specially for FPO's Directors and CEOs role in Millet cultivation as well as millet

processing and value addition.



Dr. Shashibhushan G., Senior Consultant briefed about the content and the importance of training programme for the FPOs. Dr. Kumar, Consultant spoke on the various information on FPOs like farmers mobilisation, legal compliances, books of accounts, business action plan etc were main content of the training programme. The exposure visit Millet processing unit, oil processing unit at KVK campus and experience sharing by FPO Heads of Gadag district were organised. About 30 FPOs Directors and Members of Gadag district participated in the training programme.

CELEBRATION OF WORLD WATER DAY, 2023

ICAR-K.H.Patil Krishi Vigyan Kendra, Hulkoti, State Department of Agriculture, Gadag, District Legal Services Authority, Gadag and Reliance Foundation, Gadag jointly organised World Water Day on 22-03-2023 at KVK Campus.



The programme was inaugurated by Shri.K.Guruprasad, Senior Civil Judge, District Legal Services Authority, Gadag and addressed the farmers,



farm women and rural youths regarding the importance of water and water efficiency. Further, he said that, awareness creation on water use efficiency among public, agriculture field and allied sectors is very important. Shri A.I.Hiremani, President, District Legal Services Authority, Gadag participated as a Chief Guest in the programme and spoke on conservation of water. Smt. Taramani G. H., JDA, Gadag, president of the programme spoke on various water harvesting structures and protection of water. Shri P. K. Hosamani, Director, SBI-ASF-RSETI, Hulkoti and Shri Govindayya G., District Project Management were present on the occasion. After the inaugural programme, technical session by Shri N. H. Bhandi, SMS (Soil Science), ICAR-KVK, Gadag was organised on soil and water conservation practices in dryland areas and shared KVK's experience in water conservation practices adapted in various villages in the district. More than 150 farmers and farm women participated in the programme.

Before the conduction of method demonstration, Ms. Preethu K Paul, SMS (Agricultural Extension), briefed the importance of spraying IIHR- Vegetable special in the yard long bean field.



IIHR- Vegetable special contains most of the Micronutrients such as Zn, B, Fe, Cu, Mn, Mo and Cl and most of the Secondary Nutrients such as Ca, Mg, S And K. Spraying of IIHR Vegetable special enhances Pod quality in terms of appearance, keeping quality and taste. It will also help in retaining more number of flowers, thus increase in the pod setting leading to higher yield. Across the district on an average 2320 farmers were benefitted by IIHR Vegetable special

ICAR-KVK Idukki

Vegetable special spray in *Manjari* variety of yard long bean in Idukki district

ICAR-Krishi Vigyan Kendra (BSS), Idukki conducted a demonstration of *Manjari* Variety of yard long bean in Idukki district. The demonstration was conducted in Rajakkad cluster villages. As part of conducting an agricultural method demonstration on spraying of IIHR Vegetable special in yard long bean variety *Manjar*, Ms. Manju Jincy Varghese, SMS (Soil Science) and Ms. Preethu K Paul, SMS (Agricultural Extension), ICAR-KVK Idukki, organized a field visit to the Plot at Rajakkad cluster village and demonstrated spraying of IIHR vegetable special. The spray was demonstrated to FLD farmers at 2gms/lit of water.

ICAR-KVK Kalaburgi-I

Exposure Visit to KVK

ICAR- Krishi Vigyan Kendra, Kalaburagi-I facilitated exposure visit to KVK by different organizations of the district as a part of their exposure field visit to KVK for creating awareness on Agriculture and allied sciences to the childrens, students and public on every year. At the outset, Dr. Raju G. Teggelli, Senior Scientist and Head, ICAR-KVK, Kalaburagi-I and all scientists of the KVK shared the information about the Importance and Scope of Agriculture and also to create the job opportunities and profitable business to the society.

'Pashu Sakhi' exposer visit to KVK

The 'Pashu Sakhi' II batch farm women's visited to Krishi Vigyan Kendra, Kalaburagi-I on 01.04.2023.



Women play a significant and crucial role in agricultural development and allied fields. Dr Shreenivas B V, Scientist (Soil Science) gathering and welcomed to the students and staffs and explained about the importance of Soil and Water test in Agriculture also visited to the laboratory and emphasised about the soil health management.



The nature and extent of women's involvement in agriculture varies greatly from region to region. Rural women perform numerous labour intensive jobs such as vermicompost preparation, weeding, hoeing, Kitchen garden, grass cutting, picking, Redgram and cotton stick collection for organic recycling, seed production, keeping of livestock, milk processing, preparation of ghee, etc. Dr. Zaheer Ahamed, Scientist (Pathology) during his introductory remarks he mentioned it is proud that 60 per cent of works in agriculture were carried out by women only also explained about the various government schemes for encouragement skill development works. Dr. Devendra Biradar, Deputy Director, Animal Husbandry department Kalaburagi, Mr. Gundappa, Project Assistant, SKDRDP, Afzalpur and 55 farm women of Kalaburagi district were participated in the programme.



AL-Badar Institute of Health and Dental College Students

III year B.Sc.Dental Science student's exposure visited KVK on 03.04.2023. Dr. Zaheer Ahamed, Scientist (Pathology) explained about KVK activities and different demonstration units like Agriculture Museum, Soil and Water Testing laboratory, Terrace Garden, Botanical Garden, Hydroponics, Azolla Unit, Vermicomposting unit, Compost, Nursery, Poultry, Watershed model, Dairy and Farm Pond etc.to the students. Total 25 students and staffs were getting the knowledge of Agriculture as well as Animal Husbandry information. Dr. Dodamani, Professor, College Of Agriculture, Kalaburagi and Coordinator Smt. Poornima and Smt Afroz Lecturer participated.



S.R.N Mehta School and P.U. College Students

S.R.N Mehta School and P.U. College, Kalaburagi Students visited to KVK on 10.04.2023. Dr. Zaheer Ahamed, Scientist (Pathology) gathering and welcomed to the students and explained about the museum and Pathology related information. Dr Shreenivas B V, Scientist (Soil Science) explained about the importance of Soil and Water testing in Agriculture.





Dr. Vasudev Naik, Scientist (Horticulture) shared about Terrace and Botanical Garden. Dr. Manjunath Patil, Scientist (Animal Science) informed about Dairy and Poultry and Dr. Yusuf Ali Scientist (Agronomy) explained regarding Vermicompost and preparation of bio units products which are used in Organic farming. Total 130 students and staffs were visited and got information from the scientists.



Gulbarga University MSW Students

Gulbarga University, Kalaburagi Master of Social Work, II year students visited to KVK on 11.04.2023. Dr Shreenivas B V, Scientist (Soil Science) gathering and welcomed to the students and staffs and explained about the importance of Soil and Water test in Agriculture also visited to the laboratory and emphasised about the soil health management.



Dr. Zaheer Ahamed, Scientist (Pathology) explained about the museum and agriculture related information. Dr. Vasudev Naik, Scientist (Horticulture) shared about the new technologies used in horticulture crops and about Terrace and Botanical Garden. Dr. Manjunath Patil, Scientist (Animal

Science) informed about Hydroponics, azolla unit and Poultry and Dr. Yusuf Ali Scientist (Agronomy) explained regarding preparation of Vermicompost and its marketing and importance bio unit's products which are used in Organic and or Natural farming. Total 25 students and staffs were visited and got information from the scientists.

Gulbarga University M.Sc. Zoology Students

M.Sc. Zoology III year students of Government College, Kalaburagi are visited to KVK on 12.04.2023 for Soil and Water Testing laboratory and Vermicomposting Unit as a part of their syllabus.



Dr. Shreenivas B V, (Soil Science) emphasised on importance of soil fertility and soil and water testing and use of soil health card to improve soil fertility and crop productivity by adopting new technologies and also encouraging organic and or natural farming also explained about the procedure followed for analysis of different nutrients of soil and water. Dr. Ashok Prathan Assistant Professor and Coordinator and 30 students are participated and got benefitted from the visit.





ICAR-KVK Kalaburgi-II

Field visit to acid lime plot during fruting stage



Dr. Chethan T., Scientist (Horticulture) visited Acid lime FLD field on 06-04-2023. at Saidapur village Tq. Jewargi. It is observed that, there was deficiency of micro nutrients. So, suggested to apply IIHR citrus special @5g/lit and also application of enriched FYM. Further, visited Okara OFT filed at Ijeri village Tq. Jewargi. It is observed that, among three hybrids there were incidence of sucking pest and wilt in two hybrids viz., Arka Anamika and CoBh-1 including farmer variety (Check). So, suggested to take integrated management practices for getting good yield.



ICAR-KVK Kannur

Food Expo and Sales Mela

KVK Kannur in collaboration with Consortium of Food Entrepreneurs in Kerala (CFEIK) and DIC Kannur organized a Food Expo and Sales Mela at Town Square, Kannur from 1st April 2023 to 15th April 2023. The programme was inaugurated by Sri. Brijith Krishna, CEO of Eatery Malabaricus, Enterprise based on cashew sprout in a function chaired by Adv. Vinoy Francis, Chairman, COFEIK. Dr. P. Jayaraj, Programme Coordinator, KVK Kannur in his key note address emphasized the importance of skill development of entrepreneurs dealing with agricultural products and also the opportunities of exhibitions to showcase the diverse value added products from agricultural produces.



Sri. A. S. Shiras, General Manager, DIC, Kannur had delivered felicitation address. Sri. Rasheed Muhamed, Chef and Creative Head, CATABRAY Hospitality, lead a brainstorming session on EDP. Participants of training programmes on value addition of fruits, vegetables and fish conducted by KVK Kannur displayed their products in the Expo.





ICAR-KVK Kodagu

Skill training programme Garden Keeper

A skill training programme on the job role Garden Keeper was conducted at ICAR-Krishi Vigyan Kendra, Gonikoppal, Kodagu district in collaboration with Agriculture Skill Council of India and ATARI, Bengaluru from 2nd March to 31st March 2023. The programme was inaugurated by Captain Kalimada Rana Najappa, a progressive planter and garden enthusiast.



In his inaugural address highlighted on the importance of skill in selection of plants, site selection, planting and their nourishment by appropriate manuring, watering and plant protection measures. Gardening is an evergreen area for scientific application of skills for both self-house gardening and customised services as employment. The Chief guest M. N. Ramesh, Retd. Professor (Horticulture) gave a brief importance of the gardening in urban area and local public park development and how it gave him happiness, employment and recognition in the society. The programme was presided by Sri. K. A. Devaiah, Head In-charge. The programme was coordinated by Master trainer Mr. Prabhakar B, SMS (Horticulture). A total of 20 farmers, farm women and rural youth attended the benefits of the 25days vocational skill training on Gardening.



ICAR-KVK Kolar

Fourth Batch DAESI programme at KVK, Kolar

ICAR-KVK, Kolar organized Fourth Batch DAESI programme at KVK, Kolar on 5.04.2023 and 12.4.2023 for DAESI input Dealers. Dr. Anjanappa M, Professor (Vegetable science) COH, Kolar delivered lecture on Nursery management in vegetable crops and Vegetable grafting: Practical session- Hands on training programme.



Mr. Shashi Kumar, Facilitator gave information on Production technology in field crops (Kolar District). Dr. A. G. Babu, Assistant Professor (Crop physiology), COH, Kolar delivered lecture on Importance of growth promoting hormones in horticulture crops. A total of 80 DAESI trainees were benefited from the programme.

DD Chandana TV programme on Importance of Natural farming.

Dr. Anil kumar, Scientist (Soil science) given TV Program to DD Chandana on Importance of Natural farming at KVK Kolar (Date of Recording on 10.4.2023).





ICAR-KVK Kollam

BHAUMAM-23

On behalf of the celebrations of International days, the District Agromet Unit (DAMU) has conducted three days programme entitled " BHAUMAM-23" on 21st, 22nd, 23rd March, 2023 at Krishi Vigyan Kendra, Kollam. The programme was inaugurated by Shri. Harsha Kumar, Vettikkavala Block Panchayat President by planting a tree on World Forest day. On the same day, there was a session on the topic " Carbon Neutral Farming" by Smt. Saffiya M, Agromet Observer, DAMU, KVK, Kollam to help the farmers to know about the carbon cycle existing in the nature and how to maintain that for the well being of future generations. On March 22nd - World Water Day, a session was conducted on the topic " Mangrove Ecosystem". This session was led by Shri. K. K. Reghuraj, Farm Superintendent, Kerala University of Fisheries and Ocean Studies (KUFOS).



This session was conducted for the students from different colleges for creating awareness among them about the importance of conservation of nature and natural resources. On March 23rd- World Meteorological Day, which was the last day of the programme, two sessions were conducted.

The morning session was on the topic "Maarunna kaalavasthayummaatenda krishireethi kalum" which was led by Shri. Stanly Chacko, Retired Principal Agricultural Officer and the afternoon

session was led by Smt. Isabella Job, SMS (Agrometeorology), DAMU, KVK, Kollam on the topic "Significance of Weather & Climate in Agriculture". As the participants got many new informations from the programme they expressed their gratitude at the end of the sessions which made the programme a great success.



ICAR-KVK Koppal

Training programme on eco friendly management of wilt complex in Guava to enhance yield

Guava (*Psidium guajava* L.) is an important fruit crop of subtropical countries. It is grown almost in all the states of India. It is a hardy crop and is cultivated successfully even in neglected soils and is attacked by a large number of pathogens, mainly fungi.



Wilt is the most destructive disease for guava plant in India and losses due to this disease are substantial. *Psidium guajava* wilt is known to occur from India, Latin America, Malaysia, Pakistan, South Africa, South Asia and Taiwan.



The disease is soil-borne and is difficult to control. Since, the disease results in the complete mortality of the affected plants, the loss is total. Although, severe loss is there in the annual crops also, huge monetary losses occur especially in perennial fruit trees as it is a loss of labour of several years. Guava is a crop where this disease is very serious and it can be said that this is the only disease of guava which is threatening guava cultivation in India. It causes monetary as well as nutritional loss. In Koppal guava is one of the major cash horticulture crops. But wilt, the area and production is gradually decreasing. ICAR KVK Koppal carried out a training programme on eco friendly management of wilt complex in guava to enhance yield on 7-4-2023 in Hulihaidar village. Dr. Ragvendra Yaligar Senior scientist and head inaugurated training programme and explained in detail about the types wilt and its eco-friendly management in guava. Dr. Fakirappa Scientist (Agrometrology) explained in detail about management of soil in horticulture crops. More than 30 farmers were benefitted

ICAR-KVK Kottayam

Capacity building programme on Post harvest processing and value addition of agricultural crops

KVK Kottayam organised a three days capacity building training on 'Post harvest processing and value addition of agricultural crops' from 10.04.2023 to 12.04.2023 for the students of St.Teresas B.Ed College Changanassery. Twenty students participated in the training programme.



Technology of preparation of minimal and intermediate processing of fruits and vegetables, technology of preparation of fruit beverages, concentrated products, dehydrated products, frozen products were demonstrated. Sessions were also conducted on packaging, labelling and branding of products. Dr. Jisha A Prabha, Assistant Professor (Community Science), KVK Kottayam handled the sessions.

ICAR-KVK Kozhikode

Fruit plants and vegetable seeds distributed to SC beneficiaries

Distribution of Fruit plants and vegetable seeds to SC beneficiaries was held at Perambra Block office. The programme was inaugurated by Shri N. P Babu, President, Perambra Block Panchayat. Mr K. K. Vinodan member, Block Panchayat presided over the programme, Dr P. Ratha krishnan, Programme coordinator, KVK explained about the project and importance of Natural Farming. Smt. Lisi, K.K, Member, Block Panchayat delivered felicitation address.



Earlier Smt Sushama, P. V. , SC development officer, Perambra welcomed the participants and Mr Kadar, Secretary, Block Panchayat delivered a vote of thanks. The programme was attended by farmers and beneficiaries from seven Panchayats of Perambra block.





Vlathamkara Cheera was introduced at Kozhikode and harvested as Vishu Gift

As a new venture, KVK, IISR, Kozhikode was introduced Vlathamkara cheera for cultivation at Kozhikode district. Seeds from Vilathankara, Trivanrum were being arranged and field was maintained by Disha farmer groups under the supervision of Dr P.S. Manoj, SMS (Horticulture).



The well grown cheera were harvested during Vishu and the programme was inaugurated by Shri T.P. Dhamodharan, President, Naduvannur Grama Panchayat. The farmers attracted by this peculiar colour of Vlathamkara cheera and started cultivating it by them self after getting seed from KVK, Kozhikode. Now this crop is cultivated in more areas under Naduvannur Panchayat and nearby Kottur Panchayat.

ICAR-KVK Malappuram

Rural tricho-card units: New dawn for women entrepreneurship in agriculture

KVK Malappuram has organized a valedictory function to note the completion of Collaborative project with NABARD entitled Rural tricho-card unit a livelihood option for women and for enriching rice ecosystem'. The event marked project report presentation, certificate distribution to the trainees, and supply of equipment and accessories to initiate

demonstration unit under the project at block level. The function was attended by Dr. Ibraheem Kutty C., Head KVK Malappuram, Mohammed Riyas, DDM, NABARD, Sri. Vinod, ADA Valanchery Block, Dr. Najitha Ummer, PI of the project and other SMS of the centre.



MIDH-NHM programme on spices

Demonstration of micro-rhizome technology as a measure to combat seed shortage woes in ginger has been conducted. Planting Materials in the form micro rhizome were distributed to the identified beneficiaries for cultivation. Prior to planting, beds were solarized and the method of soil solarisation was practically demonstrated to ensure proper adoption of micro-rhizome technology.





ICAR-KVK Mandya

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

KVK, VC Farm, Mandya has conducted the Participatory Rural Appraisal (PRA) techniques on 20.03.2023 at Lakshmisagara (Cluster village), Pandavapura taluk, 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. Krishi Vigyan Kendras 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.. KVK VC 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. Kamalabai Koodagi, Scientist (Home Science), Dr. Rekha Badalingappanavar, 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.

ICAR JSS - SUTTUR MYSORE

Report on Vocational training programme



Three months vocational training programme on Tailoring and Embroidery has been organized at ICAR JSS Krishi Vigyan Kendra, Suttur in collaboration with JSS Jana Shikshan Samsthan, Mysuru in 3 batches covering 60 farm women.

The programme has been inaugurated by the in-charge Senior Scientist and Head Smt. H.V. Divya opined that farm women make their free time by learning skills viz tailoring and embroidery for upliftment of their socio-economic status.



Smt. Nijaguna, resource person of the vocational training delivered lecture about the opportunities in tailoring and embroidery. She opined that tailoring and embroidery vast opportunities not only in and around your place but also outside. Hence, she informed to farmwomen to attend the programme regularly for effective learning.

ICAR-KVK Palakkad

Exposure visits to mango orchards and hi-tech unit for trainees on job role garden keeper

As part of RKVY Skill training programme on the job role Garden keeper for 25 emerging agripreneurs, KVK Palakkad has conducted an exposure visit to Muthalamada Mango city and hydroponics unit. The trainees are provided with hands on experience in identification of different mango varieties, post harvest management of mangoes and grading standards for export quality. Exposure visit to hydroponics unit at Vadakarapathi panchayat was also conducted. The participants are updated with information regarding digital sensors and automated equipment for hydroponics. A needy session on experience sharing with hydroponics entrepreneur had enabled trainees to accept the latest trend in smart farming.



Micro-irrigation skill training

KVK Palakkad had conducted a Skill training on Micro-irrigation for 25 trainees. KVK had equipped the trainees with Micro Irrigation techniques that holds

a very critical role in the installation and function of micro irrigation system that not only uses the existing natural resources efficiently but also benefits the farmers in terms of decreased cost of cultivation in the long run. Micro-irrigation system, which mainly comprises drip and sprinkler irrigation, has emerged as an effective tool for conserving water and improving water use efficiency. This special session covered the components of micro-irrigation system; tools, equipment and material required for the installation of the system; selection and suitability of pump; and installation of pipe networks and risers. Moreover, they are also made aware of variety of tools and equipment utilized for this purpose and their basic repair and maintenance also.



ICAR-KVK Pathanamthitta

Field day on bio intensive pest management in paddy var.manuratna

Field day on Bio intensive pest management in Paddy Var. Manuratna was held at Nedumpuram Panchayath in Pulikkezhu Block. Ms. B Prasanna kumari, President, Nedumpuram Grama Panchayat inaugurated the event. In her inaugural address she emphasized that the efforts of KVK team made the farmers aware of innovative technologies to get higher profit as well as crop productivity. Dr. C P Robert, Senior Scientist and Head delivered the Key note address. In his address, he highlighted that these type of innovative approaches in paddy field should be



popularized among the farming community by means of demonstration and trainings. Representatives of Padashekharam stated that success of paddy cultivation in 'Varappadam' padashekharam which covers parts of Nedumpuram and Peringara Panchayat, is mainly due to the adoption of Manuratna variety of paddy with a duration of 100 days. Along with the suitable var. Manuratna, adoption of Bio intensive pest management strategies that includes basket of technologies like Prophylactic application of *Pseudomonas fluorescens* for Sheath blight, Sheath rot, Bacterial blight, Application of tricho cards (*Trichogrammajaponicum*+*T. chilonis*) @ 5cc /ha for five times for Rice stem borer, Leaf folder, Foliar spray of Azadirachtin 1% @750ml/ha on 35th and 65th DAT for Rice stem borer, Leaf folder, Rice bug and sheath blight and Nitrogen fertilizer application based on Leaf colour chart for Sheath blight, Leaf folder, Stem borer to reduce the prevailing insect pest attack in the field also paved way for better yields compared to other long duration varieties of paddy like Jyothi and Uma.



ICAR-KVK Ramanagara

Horticulture Fair 2023 Participation in fruit and flower show of Ramanagara district

The District administration, Zilla Panchayat and Department of Horticulture organised Horticultural Fair 2023 at district high school grounds, Ramanagara organised a three day fruit and flower show. ICAR-KVK Ramanagara involved in displaying the latest technologies released from various universities and research institutes at the exhibition arena. A number of progressive farmers, including rural youth and women witnessed the exhibition stall.



The Deputy Commissioner, Dr. Avinash Menon on Rajendran, IAS and Shri. Digvijay Bodke, IAS, Chief Executive Officer, Zilla Panchayat visited the KVK stall and discussed about the innovative activities and technologies demonstrated to mitigate the constraints faced by farmers in the district. Mr. Shivakumar, Additional Director of Horticulture, GoK and Mr. Munegowda, Deputy Director of Horticulture, Ramanagara visited the stall and discussed about the use of drones in agriculture with special emphasis to plantation crops.





ICAR-KVK Thrissur

Utility Centre for availing farm implements and equipment to SC farmers.

KVK Thrissur is now a Utility cum Facilitating Centre for farm implements and equipment. Through the ICAR funded "SC Farmers implements and equipment utility centre at KVK's" -SCSP Project 2022-23, an impressive array of useful farm equipment like manure pulveriser, brush cutter, power sprayers, single row seeder, chainsaw, tender coconut punch cum splitter, weighing balance, grinding mixie, and multipurpose ladder etc. are now ready at KVK to facilitate agri based activities of SC farmers. The project aims to enhance the scope of small farm mechanisation among the target group and to create a favourable environment for agricultural prosperity, income enhancement and product diversification. It is envisaged that a core group of skilled youth specialized in diverse farm mechanisation activities may be nurtured in near future by the judicious integration of similar schemes undertaken by local self-government institutions. Special attention will be given to SC women groups as well thus facilitating women empowerment and employment generation.



ICAR-KVK Thiruvananthapuram

Workshop on Millet cultivation and value addition

Commemorating the importance of International year of millets 2023, ICAR KVK, Mitraniketan, Vellanad, Thiruvananthapuram conducted one day workshop on millet cultivation and its value addition for farmers in collaboration with Mitraniketan and Malayala Manorama. Seventy five farmers participated in the programme at Mitraniketan City Centre on 12.04.2023.



The inaugural function commenced with the welcome speech of Dr. Reghu Ramadas (Joint Director, Mitraniketan) who is working with the vision of our founder chairman of Thiruvananthapuram Krishi Vigyan Kendra for the empowerment of tribal peoples for more than 30 years. Workshop was inaugurated by Dr. Madhava Menon, IAS (Retd.) and former Vice Chancellor, KAU by highlighting the importance of millets and shared his experience working with the tribal population of Kerala. In the present scenario of climate change, millet plays a very important role in the health of soil, humans, birds and livestock. Mr. Nandhu, (Area Manager, Malayala Manorama, Trivandrum) acknowledged the initiative taken by ICAR KVK for promotion of millets. Dr. Binu John Sam (Senior Scientist and Head, ICAR KVK Thiruvananthapuram) thanked all the distinguished guests and participants of this programme.



Mrs. Jyothi Rachel Varghese (SMS Agronomy) delivered lecture on cultivation practices of major and minor millets and its role in maintaining soil fertility by adopting cultivation with low inputs with minimum irrigation. Mr. T. J Kurien, an certified organic farmer from Kannur district shared his farming experience with cultivating major millets in an area of 4.2 acres. Mrs. Bindhu R Mathews (SMS Plant Protection) handled a session on pest and disease management in millet cultivation during her lecture. Dr. Devika I (SMS Home Science) handled as session on importance of value addition and processing in day to day life for income generation for safe and healthy living for the betterment of the society.



Dr. Bindhu Gouri, (Faculty of Agri Buisness School for women, ICAR KVK Coimbatore and founder of G-Tree Agro Tech private Ltd.) shared her experience in working with millets for the last 13 years. Dr. Devika I along with Dr. Bindhu Gouri demonstrated by preparing millet based value added products like health drink, millet laddoo and millet cookies which were distributed to all those who attended the programme. The workshop was an eye opener for farmers and seeds of major millets were also distributed for cultivation. Programme created awareness to cultivate the crops even in the space available by using portrays. Many of the farmers have already accepted millets in their diet.

ICAR KVK Hirehalli Tumakuru II

Sponsored Training on Small Mushroom Grower



The Valedictory programme of twenty five days Skill development training programme (ASCI) on “Small Mushroom Grower” was conducted on 13th April 2023 at ICAR-Krishi Vigyan Kendra, Hirehalli, Tumakuru. Dr. Loganandhan.N, Principal Scientist and Head, KVK, Hirehalli was attended this programme and suggested all the participants to become successful entrepreneur in mushroom cultivation. On the same day mushroom based food products competition was conducted to the participants. Prizes were distributed to the winners and along with this training manual were distributed to all the participants. Dr, Somashekhar, SMS-plant breeding and smt Jyothi Appu Naik, Computer programmer, Shri Shashidhar K.N, Programme assistant were also present in this programme. This Valedictory programme was coordinated by Smt Radha. R. Banakar, SMS (Home Science), KVK, Hirehalli.





ICAR-KVK Udupi

“Mechanized Mat method of Paddy nursery preparation”

ICAR- Krishi Vigyana Kendra Brahmavara, Udupi in collaboration with Sri Kshetra Dharmasthala Rural Development Trust (R) Dharmasthala Head office, Agricultural division organized a training cum method Demonstration of Paddy Mat Method of Nursery preparation on EDP mode on 11.04.2023 at KVK Udupi.



Dr. Dhananjaya. B Senior Scientist and Head KVK Udupi, given the information about paddy varieties suitable for mechanization, soil sewing for nursery mat preparation, selection of seeds, tray sowing using manual as well as machine was demonstrated. After care of paddy nursery viz, providing shade, removal of shade, water requirement and plant protection measures, transportation of nursery mats, land preparation for transplanting using transplanter etc, were highlighted during the training.



Method demonstration using Automatic paddy mat nursery machine was conducted at Customer Hiring Center, ZAHRS, Brahmavara. 52 farmers from Udupi, Dakshina Kannada, Uttara Kannada and Sirsi, 25 Agriculture supervisors and 3 Taluka level project officers of SKDRDP totally 80 participants were visited the KVK and benefitted by the training programme.

ICAR-KVK Uttara kannada

Demonstrations of Kisan Drones in Agriculture

Ministry of Agriculture and Farmers Welfare is promoting the application of Kisan Drones in various operation of the Agriculture sector. To take this initiative forward, ministry is providing subsidy for the procurement of drones and its demonstration under the Sub Mission on Agricultural Scheme (SMAM). For the current year 2022-23, funds of Rs. 52.50 Crores were released to ICAR-identified KVKs, ICAR institutes, and SAUs for the procurement of 300 nos of Kisan drones and for organizing demonstrations with pesticides and crop/soil nutrients.



ICAR -KVK Uttara Kannada Sirsi is considered as one among the 100 KVK's in India for demonstration of Kisan drones in Agriculture. Under this project, provision was made for purchase of Kisan drones and method demonstration on drone spraying technology was conducted in 79 ha on hire basis from Chatak Innovations, Islampur, Maharashtra. Drone



demos were organized in Maize, Paddy, Arecanut, Cowpea, Blackgram and Groundnut ecosystem at Haraganalli, Pala, Ingalaki, Veerapur, Malagi, Kalakoppa, Shinganalli villages of Mundagod taluk. Nano urea and Chlorantraniliprole insecticide were used as nutrient and management of Fall army worm and other borers. Around 10 liters of spray solution was used to cover 1 acre area of field cops in just 10 to 12 minutes.



Two to four years old Arecanut gardens were concentrated for spraying on foliage part only. Its very difficult to spray on inflorescence and nuts of Arecanut. Though Kisan drone is time, labour and cost saving technology, many information has be known. Still the trial is under initial phase, more information on drone efficiency, bio-efficacy data on insect pests and diseases, feasibility of drone demo on areca based cropping system has to be generated in ensuing season. Dr. Roopa S. Patil, Scientist (Plant Protection) is in-charge of Kisan drone project.

ICAR-KVK Vijayapura I

SKILL TRAINING ON SMALL DAIRY FARMER

Twenty five days skill training programme on 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.

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.

Finally the assessment was conducted at KVK, Vijayapura with assessment team of skill India on 11.04.2023.



PRA ACTIVITY

Participatory rural appraisal (PRA) is an approach used by non-governmental organizations (NGOs) and other agencies involved in international development. The approach aims to incorporate the knowledge and opinions of rural people in the planning and management of development projects and programmes. The PRA activity conducted at Hattarkihal and Yaranal village for collection of farmer's field problems.





ICAR-KVK Vijayapura II

PRA Activity at Madari village

ICAR -Krishi Vigyan Kendra, Vijayapura-II (Indi) organized PRA Activity on 01.04.2023 at Madari village of Sindagi taluka, where Chief Guest is Dr. Shivashenkaramurthy, Senior Scientist and Head, ICAR-KVK, Indi. Dr. Santosh Shinde, Scientist (Animal Science), ICAR- KVK Vijayapura-II (Indi) coordinator for this programme and welcomed all the Scientist and Madari village farmers for programme. Dr. Shivashenkarmurthy Senior Scientist and Head, informed about the KVK activities, facilities available at KVK, Indi and importance of PRA activity to all the farmers of Madari Village.



Farmers are actively participated in PRA activities and themselves drawn the village map using colour rangoli and involved in the discussion. Dr. Savita B. Scientist (Soil Science) explained about the importance Soil and water sampling and testing for crop improvement by practically showed how to drawn the soil samples for nutrient analysis in the farmer field.



Later, all Scientist were visited the Groundnut, Sugarcane and Rabi sorghum plots and suggested the

crop residue management for the better soil health, requested to use sugarcane trash for mulching, prepare compost instead of burning. In this programme, around 35 farmer and farm women participated. The programme ended with vote of thanks by Dr. Prakasha G. Scientist (Agronomy).

ICAR-KVK Wayanad

Capacity Building Programme on Mushroom cultivation

KVK Wayanad conducted two days training and awareness programme to Kudumbasree members of Wayanad district as part of capacity building programme. There were an active participation of 20 women trainees. Dr. Safia N.E, Programme Coordinator welcomed the gathering. Classes on spawn production, mushroom cultivation, pest and disease management and value addition of mushrooms were dealt by the faculties of KVK Wayanad. They were given practical sessions on mushroom bed preparation and various recipes of mushrooms.

Exposure visit to ICAR-KVK Wayanad

Farmers from Koduvally block under Madavoor Krishibhavan visited KVK Wayanad. Various units were familiarised by the faculties and one day awareness programme on vegetable cultivation and grafting techniques were conducted on the day. There were 25 farmers who were very enthusiastic in participating the programme.





KVK TIMES



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