Welcome to Land of Lime





KVK TIMES

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

Vol-01, Issue - 46 : 16 - 31 May 2023

GI CROP ಇಂಡಿ ಲಿಂಬೆ GI CROP INDI LIMBE

Azadi Ka Amrit Mahotsav

INTERNATIONAL YEAR OF MILLETS 2023

G20 भारत 2023 INDIA

University of Agricultural Sciences, Dharwad - 580 005

ICAR-Krishi Vigyan Kendra, Vijayapura-II (Indi) - 586 209

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GI TAG FOR INDI LIME

Application for GI Tag is made by Karnataka State Lime Development Board at 3rd Floor, Mini Vidhana Soudha, Indi, District: Vijayapura- 586 209, Karnataka, India for Registration in Part A of the Register of Indi Limbe under Application No. 745 in respect of Horticultural product falling in Class – 31 is hereby advertised as accepted under Sub-section (1) of Section 13 of Geographical Indications of Goods (Registration and Protection) Act, 1999.

The GI link is https://search.ipindia.gov.in/GIRPublic/Application/Details/745

Proof of Origin: Indi limbe is in cultivation in the Indi, Sindagi and Vijayapura taluks of Vijayapura district. It is cultivated and marketing since 15th Century.

GI TAG FOR INDI LIME

- Bearing Throughout The Year
- Fruit Doesn't Fall Even After
- High Keeping Quality
- High juice content (20.57 ml/fruit
- Very Thin Skin/ Peel (< 2mm)
- Large size fruits 12.40 to 18.11 cm2
- Characteristic Aroma
- Less Number Of Seeds (8.01 To 13.06
- High Yielding (20.44 - 89.99
- Round To Oval Fruits
- Shining At Maturity
- Attractive Yellow Colour
- High Acidity (6.43 To 8.19%)
- High Ascorbic Acid (22.22 To 36.81 Mg/100ml)

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UNIVERSITY OF AGRICULTURAL SCIENCES, DHARWAD
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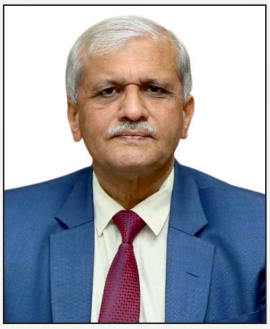

FOREWORD

Krishi Vigyan Kendra is pioneer institute in each district catering the needs of farming community. Krishi Vigyan Kendra's being one of the kinds in the world, functioning with the main objective of transfer of technology and refine them to suit the site-specific farming situation prevailing in each district. Each KVK has been facilitated with soil and water testing laboratories for serving the farmers and this service provides approaches for judicial use of fertilizers and better soil management practices for increasing agricultural productivity of the farmers. Krishi Vigyan Kendra's increase the production and productivity of farm commodities by adopting the technologies brought out by Research institute and innovative farmers.

KVK, Indi, is catering to the needs of northern dry zone of Karnataka through Front Line Demonstration (FLD) and On Farm Testing (OFT) on Redgram, Bengalgram, Sorghum, Maize, Groundnut, Lime, Pomegranate and Grapes etc. KVK, Indi in collaboration with Karnataka State Lime Development Board has the license from IIHR, Bengaluru for production of "Arka Citrus Special" a promising input for acid lime production. Hence, educatory activities on importance of "Arka Citrus Special" through outreach programme have been initiated. Integrated farming system models consistency of field crops, horticultural crops, dairy, goatery, fishery, poultry, nursery unit, vermicompost unit etc is a centre of learning on KVK, campus.

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 and holistic glance over a multitude of activities carried out other KVKs in Zone XI.

I appreciate the efforts made by Senior Scientist and Head, ICAR-KVK, Vijayapura-II (Indi) and his team in compiling, editing and bringing out the "KVK TIMES" and I wish the KVK fraternity a greater success in their future endeavors.

Place: Dharwad.
31st May 2023

(P. L. Patil)
Vice Chancellor

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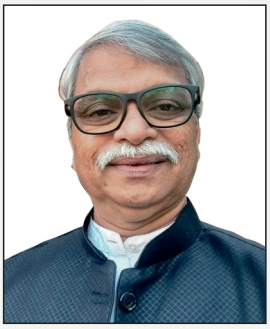
KVK TIMES



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FOREWORD

Krishi Vigyan Kendras (KVK's) serve as a knowledge hub for the transfer of technology from lab to land and play vital role in taking the new technologies from research centre to the farmers field effectively. Further, KVK's are strongest extension system with one stop facility for many needs of farming community.

Since, its inception KVK Indi (Vijayapura-II) during 2016 has made its name in shortest duration of time directly or indirectly by helping the farmers by transfer of technologies through FLD, OFT and training programmes. Jurisdiction of KVK, Indi includes Indi, Sindagi, Devarahipparagi, Chandchan, Almel taluks of Vijayapura district belonging to dry northern zone. Major crops grown are Redgram, Bengalgram, Sorghum, Maize and Groundnut while, Lime, Pomegranate and Grapes are important horticultural crops. Indi is known for lime cultivation and it is called as "Nimbe Naadu" (Land of Lemon) and the well known lime variety 'Kagzi' is exported to many countries. I am happy to share that, KVK, Indi is bringing out 46th issue of KVK times for the period from 16.05.2023 to 31.05.2023. Further, KVK times is a document that records and publishes various extension activities of KVK which are beneficial to the farming community. Good initiation has been made by Director ATARI, Bengaluru and all team members of each KVK family for their collective efforts in bringing out KVK TIMES. I, whole heartedly congratulate Senior Scientist and Head, KVK, Indi and all his team members for putting their efforts in publishing current issue of KVK times.

Dharwad
31st May 2023

A. S. Vastrad
M.Sc.,(Agri), Ph.D
DIRECTOR OF EXTENSION &
DIRECTOR, SAMETI (N)

"At the very heart of agriculture is the drive to feed the world." - Ben Potter

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Dr. V. Venkatasubramanian
डॉ।वी।वेंकटसुब्रमण्यन
Director
निदेशक

FOREWORD

I am happy to know that ICAR-Krishi Vigyan Kendra Vijayapura-II (Indi) is bringing out 46th issue of "KVK TIMES" of Zone-XI for this fort night from 16-31 May 2023. Interventions of technologies in agriculture are crucial and essential in the current agriculture to gain maximum productivity and return without deteriorating our environment. KVKs are well established front line extension system for effective dissemination of technologies to the farmers in the country. Krishi Vigyan Kendras work on the principle of "seeing is believing" and there is need to document various activities carried out by different KVKs. Documentation in the form of publication "KVK TIMES" is an important platform facilitated by ICAR-ATARI, Bengaluru to sensitize the opportunities of making use of technologies, success stories and innovative extension approaches adopted by other KVKs.

It gives me immense pleasure to share the current issue edited by ICAR-Krishi Vigyan Kendra Vijayapura-II (Indi) and worth to mention that, it is a new KVK established in the year 2016 which completed the construction of administrative building with well furnished training hall with audio visual aids facility and farmers hostel. This KVK also established demo unit like diary, goatary, poultry, vermicompost, Azolla and citrus special production unit with Soil and water testing laboratory facility. I appreciate the efforts of Dr. Shivashenkaramurhty M, Senior Scientist & Head of ICAR-KVK Vijayapura-II (Indi) and his team in bringing out fortnightly issue of "KVK TIMES' during second fortnight of May 2023.

Bengaluru
31st May 2023

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ACKNOWLEDGEMENT

I take this opportunity to express heartfelt gratitude to Honourable Vice Chancellor, Dr. P.L. Patil, University of Agricultural Sciences, Dharwad, for his constant support for KVK to work for enhancing the income of farming community by disseminating appropriate technologies at right place in time time in agriculture and allied sectors. I would like to extend my sincere gratitude to Dr. A.S. Vastrad., Director of Extension, UAS, Dharwad for his guidance and inspiration to carry out the assigned work with perfection. Our special thanks go to Dr. R. B. Belli, Associate Director of Extension, UAS, Dharwad for his continuous guidance and support I extend my sincere gratitude to Dr. Shripad Kulakrni, Professor and Nodal Officer of KVKS UAS, Dharwad for his timely guidance and continuous support. It is my immense pleasure to express my sincere gratitude to all KVKs in Zone XI for the quick response and sharing of their activities for KVK Times in stipulated time.

I wholeheartedly thankful to Dr. Venkatasubramanian, Director of ATARI, Bengaluru, for his immense advices and support in shaping up this edition of ***"KVK TIMES"*** which is a fortnightly publication to document the important activities and events of 48 KVK's of the zone XI during the period.

Last but not the least, I wish to place on record our sincere thanks to all my fellow scientists and colleagues of KVK family of ATARI Zone-XI for their sustained efforts in sharing the requisite information in time which largely helped to precisely compile and bring out the final edited issue of KVK Times for the second fortnight of May 2023. I profusely thank all the scientists and staff of KVK Indi for their unstinted support in compiling the KVK Times and offering valued suggestions to bring out this issue in the most befitting manner. I would like to express my profound gratitude to ICAR ATARI, Bengaluru for giving an opportunity to compile the 46th issue of "KVK TIMES" for the period 16th to 31st May, 2023 is another milestone that we present with humility.

SHIVASHENKARAMURTHY M.
Senior Scientist and Head

Demonstration unit of ICAR-KVK, Vijayapura-II (Indi)

























"Life on a farm is a school of patience; you can't hurry the crops or make an ox in two days." - Henri Alain

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"Farmers . . . not only produce the food and fiber we need, but they help ensure our national security and economic stability." - Michelle Grainger

Inauguration of Administrative Building, Farmer Hostel, Soil & Water testing laboratory, “Kulapatigala Nade Krishikar Kade” Programme and Exhibition Cum Sales counter













1. ICAR- KVK, ALAPPUZHA

Participated in Vision-Karappuram Agricultural festival

KVK-Alappuzha actively participated in the district level agricultural festival 'Karappuram Kazhcha' (Vision-Karappuram), a 10 days long event with agricultural seminars, exhibition and other cultural programmes conducted at St. Michaels college ground of Cherthala Assembly constituency represented by the Hon. Minister of Agriculture, Government of Kerala. The festival was organized by Department of Agriculture and Farmer's Welfare from 19th to 28th May, 2023. The KVK stall in the exhibition highlighted technologies on scientific coconut cultivation and plant protection methods, mushroom cultivation, eco friendly pest and disease management and organic waste recycling. Smt. Jissy George, SMS (HS) lead a session in the seminar on 'Scope of value addition of vegetables and fruits' on 22.05.23 and participated in the Detailed Project Report (DPR) preparation clinics for various entrepreneurs on 24th and 25th May, 23. Dr. T. Sivakumar, SMS (Entomology) lead a Quiz competition on 26th May for farmers and students. On 27th May, Dr. P. Muralidharan, PS and Head was the moderator of the seminar on 'Agriculture and Health' and session on experience sharing of young farmers who visited Israel as part of the Govt. programme. The festival was a great success with the participation of thousands of farmers from different parts of the district in the seminars, exhibition and other programmes.





Tree planting as part of mission LiFE programme

Tree planting programme was conducted at the KVK farm on 24th May, 2023 as part of the mission LiFE celebrations invocated by the Govt. of India. About 50 persons including staff members of the KVK and DAESI programme participants under the leadership of Dr. P. Muralidharan, PS and Head actively took part in the planting programme in which grafts of fruit plants, moringa cuttings and leafy vegetables were planted in the KVK campus.



2. ICAR- KVK, BAGALKOTE

Visit to RSK Kulageri cross:





Dr. D. N. Kambrekar, Senior Scientist and Head and Dr. Siddappa C Angadi, Sr. Technical Officer KVK Bagalkote visited RSK – Kulageri cross on 19.05.2023. He discussed with the farmers and staff regarding soil health certificates and issues the certificates to the concerned farmers and explained nutrient status of the soil and further visited to diagnostic Brinjal field visit.

Director of Extension and Nodal officer KVK's, UAS, Dharwad visited KVK Bagalkote





Dr. A. S. Vastrad, Director of Extension& Director, SAMETI (North) and Dr. Shripad Kulkarni, Nodal Officer KVK's, UAS, Dharwad visited KVK Bagalkote on 22.05.2023. During their visit they make discussion on action plan for Kharif 2023 crop planning, OFT and FLD implementation and other activities. visited KVK nursery and Seed hub unit, Bio control Lab, dairy unit, KVK farm and discussed with KVK Scientists. Dr. D. N. Kambrekar, Senior Scientist and Head and all other Scientists and staff were present on this occasion.



Awareness programme on Weather based Agriculture

An awareness programme was conducted on 25.05.2023 to farmers of

Kagalboumba village. A total of 16 farmers participated and got benefit of this programme. Mr. Basavaraj Nagaleekar SMS (Agro-meteorology) explained to farmers about weather, climate, climate change, reasons for climate changeand effects of climate change on agriculture, mitigation strategies, Objectives of GKMS project, details about DAMU and Weather based Agro-advisories. Also explained about automated weather station and Weather-related mobile applications like Meghdoot, Mausam, Damini. On this occasion petroleum conservation awareness programme was also organized for these students.

3. ICAR-KVK, BALLARI

Participates and guides in Balachaitanya Nutrition Rehabilitation Programme of Ballari district.



Malnutrition refers to deficiencies, excesses or imbalances in a person's intake of energy and/or nutrients. It covers two broad groups of conditions. One is under nutrition – which includes stunting (low weight for age), wasting (low weight for height), underweight (low weight for age) and micronutrient deficiencies or insufficiencies (a lack of important vitamins and minerals).The other is overweight, obesity and diet-related non communicable diseases (such as heart disease, stroke, diabetes and cancer). Child malnutrition leads to developmental delay, disabilities, low immunity, various illnesses, poor cognitive abilities, learning disorders, low productivity and poverty. Karnataka state has 26.1 per cent of wasted children, 35.2per cent underweight children, 36 per cent stunted ,60.9 per cent anaemic children, 8.4 per cent post neonatal mortality, 26.9 per cent infant mortality rates (NFHS-5).

Ballari district of Kalyana Karnataka is having 53.3 per cent of underweight and 4.95 per cent stunted children.To address this issue, an unique programme named Balachaitanya was started in the month of May 2023 in the district at all the 5 Talukas to control severe malnutrition in the district among 6 months to 60months of age group at temporarily designed Nutrition Rehabilitation Centers. The programme was collaborated by Women and child development department, health department, district administration, Zilla panchayat and **ICAR-KVK,Ballari.**

Severely Acute Malnourished (SAM) children were observed during their stay at NRCs and the follow up period to analyze the effect of interventional measures on selected anthropometric indicators. Mothers of the children were interviewed on health issues and therapeutic feeding practices at the NRCs using a predesigned and pretested interview schedule.

The rehabilitation period was 14 days for both Severely Acute Malnourished childrenand their mothers. The children were identified based on their anthropometric indices particularly Mid Upper Arm Circumference. Home Scientist of ICAR-Krishi Vigyan Kendra Ballari actively participated as a resource person and member of the Balachaitanya committee. She collected 24 hour dietary recall from the mothers on both first and last day of their admission into the NRC. She also planned the menu according to the ICMR guidelines for the period of 14 days. Nutrition education to the mothers of Severely Acute Malnourished (SAM) children was also given by her. Anthropometry, biochemical profile, immunization history, appetite test were recorded both before and after the rehabilitation period. Children were able to gain on an average of 600 gm of weight during the rehabilitation period (other data yet to be pooled). This successful programme is a model for other districts to combat the malnutrition in the state. A total of 600 children along with their mothers were rehabilitated and the mothers were also provided with the incentives.

4. ICAR-KVK, BELAGAVI -I

Training programme on processing and value addition to jamun



Training cum demonstration on Value addition in jamun fruit was conducted by ICAR-KVK, Tukkanatti, Belagavi-I atKaitnal village of Gokak taluk on 27th May 2023. This programme was conducted for the benefit of rural women and SHGs of Kaitanl.During this trainingDr.RekhaKarabhari, Scientist (Home Science) delivered lecture on Importance and health benefits of jamun and different value-added products prepared from jamun and demonstrated various value-added productpreparation like jamun jam, jamun juice, jamun crush and jamun squash etc to the participants. Fresh and ripe fruit was used to demonstrate products like jam, squash and crush. Also explained the procedure of making jamun Seed powder which is used for diabetic patients. Different equipments like hand operated pulper, blender, during the training. The participants were also given hands on training to removal of seeds, extracting pulp, blending etc. During the plenary session, Dr. D. A.Mhetre, Sr. Scientist and Head of KVK, encouraged participants to take up processing in commercial scale for their livelihood security and should make use of the technologies and processes demonstrated during the programme. The programme ended after the products prepared were served amongst the trainees. There was active and enthusiastic participation by the trainees. Total 32 women were attended the programme.

5. ICAR- KVK, BELAGAVI- II

Beeja Mela 2023



One day 'Beeja Mela' was organized at the KVK campus to provide quality seeds of improved varieties of soybean, groundnut, green gram, black gram and onion. The programme was inaugurated by Dr. Mallikarjun Hanji, Chief Technical Officer, ICAR-ATARI, Zone-XI, Bengaluruand Nodal Officer of ICAR-KLE KVK, Belagavi-II. Inaugurating the programme recalled, Allamaprabhu saint and his vachana on importance of the seeds. He stated that, the awareness of using quality seed material is being created since 12th century. The farmers should be strongly determined for using improved varieties seeds for doubling the farm income. He also insisted upon the farmers to change seeds of improved varieties for every three years and it loses the purity. He appreciated the efforts of the KVK in organizing this mela to ensure timely supply of seeds as the season is onset. Further, expressed that Government of India and ICAR-IIPR, Kanpur have funded Seed Hub programmes for oil seeds and pulses for production of quality seeds of recently released varieties. Hence, farmers should be in forefront to take up the seeds for enhancing their productivity. Shri. B.R. Patil, Chairman, ICAR-KLE KVK, Belagavi-II presided over the session and expressed those seeds is a critical input in crop production and good crop stand depends upon the seed material used for sowing. With this motto to provide quality seeds to the farmers, KVK has produced soybean (KDS-726 and KDS-753), Groundnut (TG-39), Green gram (DGGV-2), Black gram (DBGV-5) and Onion (Bhima Super). The farmers should aim at getting true type of seeds as it gives high return and these improved varieties are resistant to pest and diseases which brings drown the cost of cultivation. The good quality seeds will respond well to applied fertilizers and nutrients. Further, these quality seeds will procure high value in

market. The dignitaries and farmers gathering was welcomed by Mrs. Sridevi B. Angadi, Senior Scientist & Head. G.B. Vishwanath, Scientist (Agronomy)gave opening remarks of the seed mela.Vote of thanks was delivered by Shri. S.M. Warad, Scientist (Soil Science). A total of 500 farmers were benefited by this mela.

World Honey Bee Day



World Honey Bee Day was organized at the KVK campus to raise at the KVK campus to raise awareness and importance of pollinator for getting good yield. Mrs. Sridevi B. Angadi, Senior Scientist & Head inaugurating the programme expressed that bee are considered as one of the most hard-working creatures on the planet which have benefited the farmers by increasing the productivity in the crop. Bees are renowned for their role in providing high quality honey. The honey has several potential health benefits as it contains varieties of nutrients. It is also rich source of antioxidants which helps in control of premature ageing, diabetes, and heart diseases. Apart from this. It helps in suppressing cough in the children. Promotes burn and wound healing. Shri Siddalingappa S. Siddayyanavar, progressive farmer shared his experience in bee keeping and explained about queen raising techniques.

Awareness Campaign On Climate Resilient And Smart Agriculture



The awareness campaign on climate resilient and smart agriculture was organized from 22 May 2023 to 28 May 2023. G.B. Vishwanath, Scientist (Agronomy) and Dr.S.S. Hiremath, Scientist (Plant Protection) briefed about building resilience in soil, rain water harvesting and recycling, water saving technologies, growing different crops accordingly to prevailing situations, contingency crop plan, weather based agro advisories. Farmers from different villages were educated in this programme.

6. ICAR – KVK, BENGALURU RURAL

International Year of Millet 2023 – Climate resilience and Smart Agriculture



ICAR – Krishi Vigyan Kendra, Bengaluru Rural District organized "International Year of Millets 2023 – Climate resilience and Smart Agriculture" programme under Life mission on 26.05.2023 at Melekote village of Doddaballapura Taluka. The current year is observed as the International Year of Millets-2023, several programs have been planned throughout the year to encourage farmers for growing minor millets in this unpredictable climatic situation. As a part of this programme, Dr. Sagar, S. Pujar, Scientist (Agril. Extension) explained about the 'Climate resilience and Smart Agriculture'. In his talk he suggested farmers to take upimproved varieties of minor millets because of their drought tolerance properties. Mrs. Meghana, S.V., Scientist (Home Science) briefed about improved cultivation practices of millets, health benefits and nutrient contents, processing and value addition, entrepreneurship development through packing, labeling and market linkage. Ms. Ranjeetha R., Scientist (Horticulture) briefed about the recent activities of KVKs and also requested farmers to harness the scientist's availability for the overall growth of the farming community. Totally, 37 farmers and farmwomen were benefitted from the programme.

Orientation training programme





ICAR – Krishi Vigyan Kendra, Bengaluru Rural District organized one day Orientation training programme to FPO's / Progressive Farmers / Dealers under National Livestock Mission (NLM) Scheme in collaboration with National Seed Corporation (NSC) Ltd., Chikkaballapura, Bangalore Region on 31.05.2023. The programme was inaugurated by the chief guests Mr. Ahamed Raza, Regional Manager, NSC, Bengaluru expressed the importance of seed to the farming community, Mr. Anil Kumar, Assistant General Manager (Production), Regional Office, NSC, Bengaluru, briefed the gap in the production of fodder crops. Mrs. Shilpa Reddy, Asst. Manager, KMF, Bamul, Bengaluru instructed the prominence and need of fodder for quality milk production and Dr. Venkate Gowda, J., Senior Scientist & Head, ICAR – KVK, Bengaluru Rural District elicited the importance of newly released fodder varieties by the university. Further, the live pledge on Meri Life was taken by the participants. Dr. T.M. Ramanappa, Senior Scientist, UAS, GKVK, Bengaluru delivered lecture on 'Seed production technologies in fodder crops' and Dr. Dinesha, M.S., Scientist (Agronomy), KVK, Ramanagar delivered lecture on 'Improved cultivation practices of fodder crops and fodder conservation practices'. Further, series of lectures were delivered by the dignitaries virtually on various topics like, fodder seeds certification procedures, guidelines for FPOs regarding export registrations and linkage of FPOs, farmers and dealers with e-NAM. During the programme totally 70 farmers and farmwomen were participated.

7. ICAR-KVK, BIDAR

Awareness campaign on Liquid Organic Fertilizers acts as Catalysts in Nutrient Uptake



The increasing demand of organic products of improved quality has become a priority to meet customer needs. Liquid organic fertilizers produced from agricultural residues and industrial wastes are becoming increasingly popular and are rich in micronutrients and growth hormones. ICAR-Krishi Vigyan Kendra, Bidar in coordination with Agriculture Department Bidar, conducted the awareness campaign on Organic farming on 30th May, 2023. Mr Suryakanth Biradar , Deputy Director of Agriculture, Bidar in his inaugural address stressed upon adopting the organic farming practices, further any eco-friendly approach in crop cultivation will have reduced environmental pollution their by it saves the mother earth and also improves the soil quality tremendously. Dr Akshaykumar Scientist (Animal Science) in his speech, these foliar liquid fertilizers sprays act as catalysts in increasing nutrient uptake by plants. Organic fertilizers are manures that are naturally produced. These manures are materials that can be added to soils or at plant base, in order to provide nutrients to have sustained growth. Further, typical organic fertilizers include animal waste viz., animal dung, urine, crop residue mixture, slurry and also plant based organic fertilizers such as biodigester, Dashaparni, Neemastra, Agniastra etc will act as nutrient rich botanical insecticides. Further, he also briefed the participants about the procedures on preparation of liquid fertilizers and pesticides viz. Beejamrutha, Jeevamrutha, Panchagovya and Gokrupamrutha, biodigester, Dashaparni, Neemastra and Agniastra.Mr. Prem Mankare Deputy Project Director, ATMA, Bidar welcomed the guests and gathering and more than 78 farmers were participated, interacted and got benefitted.

8. ICAR- KVK, CHAMARAJANAGARA

Workshop on Climate resilient and smart agriculture

A workshop on "Climate resilient and smart agriculture" as a part of the mission LiFE and International year of millets was organized and conducted by ICAR KVK Chamarajanagara on 26.05.2023 at KVK premises. Dr. C. Doreswamy, Special officer, College of Agriculture, Chamarajanagara inaugurated the programme and he insisted the farmers to give importance for the cultivation of millets apart from commercial crops and suggested to adopt agriculture technologies to combat climate change and to attain sustainability. Dr. Yogesh G S., Senior Scientist and Head, ICAR KVK Chamarajanagara presided over the programme, highlighted the importance of conserving soil and water in minimizing the production expenditure and he also expressed that cultivation of millets is suitable during changing climate situations and he urged to adopt agro forestry practices with scientific technologies. Mrs. Roopa V., Agriculture officer (Technical) Chamarajanagara explained about the facilities available at Department of agriculture for cultivation of millets and for value addition. Mr. Govinda Naik, Agriculture officer, SKDRDP, Chamarajanagara highlighted the importance of value added products from millets which are having medicinal value. Dr. R. Jayaramaiah, Professor and Head (Agro meteorology), UAS Bangalore delivered lecture on climate resilient practices in agriculture such as integrated farming system, soil heath management, efficient utilization of natural resources, methods such as SRI, aerobic rice cultivation to minimize methane production, methods of cultivation to minimize water consumption in agriculture and enhance WUE, balanced application of chemical fertilizers and organic manures and inter cultivation practices to minimize weed infestation. Dr. T. S. Sukanya, Professor (Agronomy), AICRP on small millets, Bangalore explained the nutritional importance of millets and its essential components and she insisted to include millets in daily diet for a healthy lifestyle. Dr. Shruthi M K., Scientist (Agronomy) ICAR KVK Chamarajanagara explained the role of individual and collective action in protecting and preserving the environment. Dr. Somu G., Dr. Deepa J., Ms. Supriya N S., Mr. Rajath H P. and students of College of Agriculture were present during the programme. As a part of the programme a mini exhibition of different varieties of millets and their value added products were displayed. At the end of the programme scientists – farmers interaction was carried out and farmers issues were addressed.





9. ICAR-KVK, CHIKKABALLAPURA

Importance of millets and climate resilient agriculture technologies

ICAR KVK, Chikkaballapura in collaboration with Agriculture Research Station, Chintamani organized off campus training on Importance of millets and climate resilient agriculture technologies at Kaiwara village of Chintamani taluk on 22.05.2023. Dr. Papireddy, Senior Scientist and Head explained about importance of millets. Dr. Venkatachalapathi, Senior Farm Superintendent briefed about nutritional security through millets

and Mr. Vishwanath, Scientist (Agronomy) emphasized on climate resilient agriculture technologies. Nearly 49 farmers participated in the programme.





Off campus training on Importance of millets and climate resilient agriculture technologies

On the occasion of international year of millets, ICAR-KVK, Chikkaballapura organized essay writing competition for school students on 24.05.2023 to create awareness about millets. 60 students of Navodaya School, Kurubur participated in the event. Dr. Tanweer Ahmed, Scientist (Agricultural Extension) addressed the students and explained about different millets and their nutritional value.





On campus training on Climate smart agriculture for extension functionaries

On campus training on Climate smart agriculture was organized by ICAR-KVK, Chikkaballapura for extension functionaries on 25.3.2023. Mr.Vishwanath Scientist (Agronomy) explained about different climate smart technologies. Dr. Sandhya Scientist (Soil Science) explained about Soil test based nutrient management. Dr. Tanweer Ahmed, Scientist (Agricultural Extension) emphasized on millet based entrepreneurship development, Dr. Praveenakumar Scientist (Horticulture) highlighted about drought management practices in horticulture crops. Dr. Swathi, Scientist (Plant pathology) explained about eco friendly pest management practices. 14 extension functionaries participated in the programme.





10. ICAR-KVK, CHICKMANGALUR

Capacity development programme on Mushroom production

ICAR Krishi Vigyan Kendra, Chikkamagaluru has organized Capacity development programme on Mushroom production technologies on 18.05.2023 at KVK, Chikkamagaluru. Dr. Krishnamurthy, A.T., Senior Scientist and Head, Krishi Vigyan Kendra, Chikkamagaluru addressed the gatherings and briefed about capacity development programmes and other Extension activities which are conducting by Krishi Vigyan Kendra and also he briefed that Mushroom cultivation is the one of the enterprise which provides self-employment to the rural unemployed youths. During this programme Dr. Sateesh, R. Scientist (Home Science), Krishi Vigyan Kendra, delivered lecture on different types of mushrooms like edible or non-edible, poisonous and non-poisonous mushrooms, growth stages of mushroom, nutritive values, value additions and marketing process and cultivation procedure of mushroom, storage methods, scopes and demands of mushrooms in the market. Further demonstration on mushroom cultivation has been conducted.

World Bee Day

ICAR, Krishi Vigyan Kendra, Chikkamagaluru, has organized World Bee Day on May 20, 2023, at KVK, Chikkamagaluru. Dr. Krishnamurthy, A. T., Senior Scientist and Head, KVK, Chikkamagaluru, in his introductory speech briefed about the importance of bee keeping. Further briefed that KVK, Chikkamagaluru encouraging the rural youths to come forward and become beekeeping entrepreneurs by engaging in the activities like production of honey, bee-pollen, bee wax, bee venom and processing, branding and marketing. Dr. Girish R, Scientist (Plant Protection), KVK, Chikkamagaluru, explained that, this day is celebrated every year with the aim to create awareness about the significance of Bees and beekeeping. This year's theme was "Bee engaged in pollinator-friendly agriculture production, focusing on actions for restoring, supporting and enhancing the role of these pollinators". Further advised the farmers to avoid the spraying of plant protection chemicals in bee active areas and promote the growing of such crops and plants that attract honey bees.





11. ICAR-KVK, CHITRADURGA

Empowerment of Women by Income Generation Activities

ICAR KVK Chitradurga organized a Training programme on "Empowerment of Women by Income Generation Activities and Awareness creation on Nutrient Value of Millets and its Value Addition" at ICAR-KVK, Chitradurga, on 19.05.2023. Dr.Kumar. O., Senior Scientist and Head inaugurated the training programme and briefed the importance of millets and their incorporation in the daily diet for maintenance of good health. Dr. S. Onkarappa., Scientist (Plant protection) in his speech explained about healthy food habits and the different ways to improve health parameters. Dr.Ravikumar. D., Scientist (Soil Science) suggested trainees

to start Income Generation Activities by installing Millet processing equipments through FPOs at village level. Dr.Mahantesh. P. S., Scientist (Horticulture) explained about cultivation aspects of millets and kitchen gardening. Dr.Saraswathi. J. M., Scientist (Home Science) briefed about value added products of millets and their incorporation in diet for management of metabolic errors like diabetics and other diseases and the theme of International year of millets was explained in detail.



Life style for Environment

Mass Awareness under Mission "LiFE"programme was organized by ICAR-KVK, Chitradurga on 24-05-2023 at Doddasiddavvanahalli village, Chitradurga taluka. The progressive farmers, Self Help Group women members, village leaders and rural women were actively participated in the programme. The programme was started with inaugural song and planting forest species by KVK staff and participants. Dr. Kumara. O., Senior Scientist and Head in his inaugural speech explained the environment which includes soil water and air are the important component which are more polluting nowadays due to human interference in the system. As a citizen we have to maintain quality all the three key elements which is very essential for living organism by way of planting trees. Dr. Ravikumar. D., Scientist, Soil Science briefed about the importance of soil and water analysis, how the sampling should be drawn and how it is related to different types of crop yield. Dr.Mahantesh.P.S., Scientist, Horticulture spoke about floriculture and Plantation crops especially with respect to intercropping, pest and disease management. Dr. Saraswathi. J. M., Scientist, Home Science shared the information regarding role of millets.



12. ICAR-KVK, DAKSHIN KANNADA

Workshop on Lifestyle for Environment: Climate resilient and Smart Agriculture

Workshop on Lifestyle for Environment: Climate resilient and Smart Agriculture was organised at Poonacha, Bantwala. Ramkrishna B. President Gram Panchayat, Punacha presided over the function, Dr. Mallkakrjuna L., Scientist (Soil Science) coordinated the programme and spoke on adoption of climate resilient smart agriculture to maintain food security by sustainably using existing natural resources through crop and livestock production systems. JeevanKolya, District programme manager Bharathiya Vikasa Trust, Manipal,. S K Sarikar, AAO, Vittal, Ravi, PDO, Punacha were present in this workshop.



13. ICAR-KVK, DAVANEGERE

Awareness campaign on Millets – LIFE STYLE for Environment

Lifestyle for environment awareness program was conducted in collaboration with Coromandel International limited Bangalore at ICAR-Taralabalu KVK, Davangere. The program was inaugurated by Dr Devaraja T. N., SS&H and in his inaugural speech expressed that due to change in our life style has created more damage to our environment. More



dependence on junk food, usage of chemical in excess had damaged the environment and its responsibility of the citizen to conserve the environment through ecofriendly approaches, soil and water conservation practices should be adopted. Mr. Mallikarjuna B.O., SMS (Agronomy) delivered lecture on the importance of the millets which are the future food and the varieties which are suited for the climate smart agriculture should be grown. The millets should be processed and value added which would be preferred by the new generation. Change in food style had brought many diseases and disorders in human. So it time to save the environment and give importance to millets.

2. Celebration of World Bee Day



World Bee Day was celebrated on 20-05-2023 with the theme "Bee engaged in pollinator-friendly agricultural production" which is mainly focusing on embracing agricultural method that promote pollinators activity with special reference to bees. Dr. Avinash T. G. SMS (Plant Protection) in his talk stated that 20th May declared as "World Bee Day" in honouring the birth day of Anton Jansa, Slovenian bee keeping pioneer and renowned bee expert. Further, explained about scientific techniques in rearing of bees to get good profit. Farmers need to focus more on eco-friendly ways of pest management, which eventually support bees and other pollinators of the ecosystem. Mr. Mallikarjun B. O. SMS (Agronomy) opined that farmers should take up Apiculture along with Agriculture, Horticulture which makes farmers economically sound. Mr. Mallikarjuna bee keeper from Ranebennuru taluk shared his learnings and information of bee rearing techniques. Mr. Shivanna Itagi, TRDF member and President of Nitturu Horticultural Taralabalu AFPO, Scientists and farmers participated in the program.

14. ICAR-KVK, DHARWAD

Campaign on "Climate Resilient Agriculture

ICAR-KVK, Dharwad organized Campaign on "Climate Resilient Agriculture" on the eve of World Environment Day from 22-28 May 2023. Under the leadership of Dr. M. S. Biradar, Senior Scientist and Head, a pledge was took by the staff and Diploma (Agri) students of ICAR-KVK, Dharwad in the presence of Shri Ravi Hiremath, Forest Department, Dharwad. He focused on the importance of planting the trees and its positive impact on the environment and humankind. Dr. Jayashree Pattar, Scientist (Animal Science) presented a lecture on "Importance of millet as fodder crop". Dr. Shweta Biradar, Scientist (Home Science) delivered lecture on "Importance of millets on human health". Dr. Prasanna Kumar B. H., Scientist (Agronomy) delivered a talk on "Production technologies on millets". Dr. Airadevi P. Angadi, Scientist (Horticulture) delivered lecture on "Millet as intercrop in mango orchard". Around 70 Diploma (Agri) students including staff of ICAR-KVK, Dharwad participated in the programme.





Hands on training on Nursery and propagation techniques to DAESI students



Practical class on nursery management and hands on training on propagation techniques in fruit crops was organized by ICAR-KVK, Dharwad to DAESI students from Dharwad on 19.05.2023. Dr. Airadevi Angadi, Scientist (Horticulture) interacted with the DAESI students and explained about layering and grafting techniques in different fruit crops. Vegetative propagation techniques like hard wood, soft wood and leaf cuttings was demonstrated in ornamental plants like Hibiscus, Plumeria alba, Crotons, Acalypha wilkesiana, Snake plant. About 24 DAESI students participated in the training.

15. ICAR-KVK, ERNAKULAM

LiFE programmes

ICAR-KVK, Ernakulam conducted awareness programmes "Natural Farming" under the theme on Organic and Natural Farming on 30th May 2023 at Alangad. Another programme on "Rainwater harvesting for efficient water management during summer" under the theme Climate change impact on different agro-ecosystems in India and mitigation measures was also conducted on 26th May 2023. The programmes were conducted as part of the weeklong celebration in observance of International year of millets and World Environment day on the theme on Climate resilient and smart agriculture on the concept of LiFE (Lifestyle for Environment).





16. ICAR-KVK, GADAG

Demonstration Of Groundnut Digger Cum Elevator



Tractor Operated Groundnut digger cum elevator was demonstrated in summer groundnut field at Asundi village under OFT programme. Totally 1.2 ha area was covered for harvesting of summer groundnut. The performance of machine was found satisfactory with good area coverage compared to farmers' practice of manual harvesting. Farmers opined that the machine would reduce labour requirement and cost involved in manual harvesting. Pod damage was also significantly reduced when compared to harrowing operation.

Overall, the machine performed well both under red soil and black soil conditions with very less damage to pods. The machine could cover around 1 acre of land per hour. The manual collection and windrowing of uprooted plants was also simplified.

Training For Maitri Workers



Training on 'Artificial Insemination' in collaboration with Department of Animal Husbandry and Veterinary Services of Gadag district under National Gokul Mission Scheme is being conducted from 16-05-2023 to 15-06-2023 at ICAR-KVK, Gadag. Under this training programme, the topics covered are Anatomy of Cattle, Sheep and Goat, Reproductive systems of male and female cattle, sheep and goat, Nutrition and diseases management in large and small ruminants &various Breeds of cattle, sheep and goat, Time of artificial insemination in dairy animals, Management of ecto-endo parasites, Management of dairy animals during pregnancy and milking period and First-aid in Veterinary Services. 41 trainees are undergoing the training programme.

Training For Rural Youths



Training on Scientific rearing of Sheep and Goat was conducted at ICAR-KVK, Gadag in collaboration with SBI-ASF RSETI, Hulkoti under SHREE BALUMAMA KURIGAYI SANGOPANA SEVA DHARMIK TRUST (R) of Dharwad from 22nd to 31st May 2023. Under this training programme topics covered are Benefits& economics of Sheep and goat rearing, Breeds of sheep and goat, Stall feeding method, Nutrition and disease management, Management of ecto-endo parasite, Insurance of sheep and goat and preparation of project report. 35 trainees are participated in this training programme.

17. ICAR- KVK, HASAN

Campaign on Importance of millets



The ICAR-Krishi Vigyan Kendra, Kandali, Hassan in collaboration with agriculture research station, Madenuru, Hassan organized the campaign on the importance of Millets at Krishi Vigyan Kendra, Kandali, Hassan on 25/05/2023. Mrs. Preeti Lobo, head of Surabhi institute, has inaugurated the programme and during her inaugural address she said that housewives had an advantage in providing balanced food to the family by cooking nutria rich millets food. Further, she also mentioned that this campaign is important to create awareness about the nutritional status of millets among the rural families.Dr. M. Shivashankar, Scientist (Home science), KVK, Hassan has organized the programme and his introductory speech, he said that 12.2 per cent women and 6.2 per cent of children in the state were suffering from malnutrition and 30.2 per cent people in the state were undernourished. So, in order to decrease malnutrition and undernourishment people should take millets in their regular food diet. He also said that cultivation of millets will help to get more income to the farmers. Hassan and Kodagu Farmers producer company CEO Mr. Panchakshari said that farmers should create awareness among fellow farmers about the daily use of millets in their diet. Continuing, he exhibited the various

millets, millets products available in his organization and gave information about the procedure of millets product preparation, quantity of products they sold and the profit they earned from the sale of millets products.Mr. Omkaramoorthy, General Manager, Zuari farm hub limited said that since farmers are started to incline towards organic farming, millets are the crops that can be easily grown in dry land situation with less fertilizer. Further he said that cultivation of millets increase farmers health and wealth.

World honey bee day celebration

ICAR-KVK, Hassan in collaboration with ATMA, Department of Agriculture, Arasiekre has organized the world honey bee day on 20/05/2023 at Doddametikurake village of Arasikere taluk. The Programme is inaugurated by Mr. Shivkumar, ADA, Agriculture department, Arasikere and during his inaugural address he mentioned the importance of honeybees in agriculture and also explained how honey bees are the backbone for the farmers. Mr. Ravindranath, Kankatte FPO President has chaired the programme and during his presidential remarks he said that farmers should start beekeeping as part of integrated farming so that the yield of the crop will increase and also he can earn more income by selling honey.

The Programme organizer Dr. Nagagraja, T. Scientist (Plant Protection), KVK, Hassan has said that Scientific beekeeping can be very profitable and there are 5 types of honey bees, some of which are suitable for beekeeping. Also, he mentioned the importance and motto behind this programme. Further, he explained that honey bees is the most important part of agriculture as bees were the basis for pollination of 90% of the crops. Mr. Avinash, ATM, ATMA Programme, Agriculture department, Arasikere and famers from Doddametikurake village of Arasikere taluk different parts of the district were participated in the programme.





18. ICAR- KVK, HAVERI

Climate Resilient and Smart Agriculture under Mission Life Style for Environment (LiFE)



On the occasion of World Environment Day on June 5th, 2023 and in observance of the International Year of Millets 2023, the Department of Agriculture and Farmers Welfare Mission Life Style for Environment (LiFE) finalized the theme of "Climate Resilient and Smart Agriculture" to mark the occasion. In this regard ICAR – Krishi Vigyan Kendra, Haveri (Hanumanmatti) conducted promotional activities between 22 – 28 May, 2023 at the grassroots levels with the objective of disseminating Climate resilient practices among farming communities. Created public awareness

on the health benefits of millets and their suitability for cultivation under tough conditions marked by climate change. Dr. Guruprasad G.S., Senior Scientist and Head, KVK Haveri explaining the characteristics of millets, these are mainly rain fed crops grown by small farmers in areas with very low fertility. Since millets are short duration crop, suitable for rain fed areas, drought tolerant crops that adapt to extreme weather conditions, has insect and disease resistance, eco-friendly crops with low production cost and good yield, smaller in size and higher in nutritional value. During this occasion called the farmers to make it peoples' movement so that the Indian millets, recipes, value added products are accepted globally.

19. ICAR- KVK, IDUKKI

KVK Idukki To Implement SCSP Scheme On Ensuring Sustainable Livelihood Security Of Scheduled Caste Farmers In Chinnakanal Village Of Devikulam Block Funded By ICAR-NBAIR, Bengaluru.









ICAR- Krishi Vigyan Kendra, Idukki implement's SCSP Scheme entitled "Ensuring Sustainable Livelihood Security of Scheduled Caste Farmers in Chinnakanal Village of Devikulam Block in in Idukki district" funded by ICAR-National Bureau of Agricultural Insect Resources (NBAIR), Bengaluru at Chinnakanal Village in Devikulam Block. The programme was presided over by Smt. Veliyammal, Vice President, Chinnakanal Grama Panchayat. Dr. R Marimuthu, Senior Scientist and Head, KVK Idukki, welcomed the delegates and SC farmers, present in the function. The programme was inaugurated by Smt. Sini, President, and Chinnakanal Grama Panchayat by lightening the Lamp. Key note address was delivered by Dr. V Venkatasubramanian, Director, ICAR-Agricultural Technology Application Research Institute, Zone-XI, Bengaluru. In his Key note address he guided the SC farmers to use AYTARI trademarked - Kisan Samriddhi Brand for marketing their produces across the Nation. Dr. B T Rayudu, Principal Scientist (Agricultural Extension), ICAR-Agricultural Technology Application Research Institute, Zone-XI, Bengaluru. Ms. Reena Chacko, Chairperson, Bapooji Sevak Samaj, Dr. R S Remya ,

Scientist- Agricultural Entomology, ICAR-National Bureau of Agricultural Insect Resources (NBAIR), Bengaluru delivered special address. Programme was felicitated by Smt Jeyageetha, Standing Committe Chairman (Development), Smt. Reetha M, Standing Committe Chairman (Welfare), Sri. G Vignesh, Standing Committe Chairman (Health & Education), Smt Gowri, Ward Member III, Sri. Vananaraj, Ward Member V, Smt. Sreedevi Anpuraj, Ward Member VI, Sri. Ramesh, Ward Member VIII, Sri Sreekumar, Ward Member IX, Sri S ganeshan, Ward Member XI, Smt. Jayanthi, Ward Member XII, Sri A V Ashokan, Ward Member XIII, Sri Santhosh, Secretary, Chinnakanal Grama Panchayat. The inaugural session was followed by technical sessions on on role of NBAIR technology of Pseudomonas fluorescens in agriculture was delivered by Dr. R S Remya, Scientist- Agricultural Entomology, ICAR- NBAIR, Bengaluru, Beekeeping in spice crops by Mr.

Sudhakar S, SMS (Plant Protection), KVK Idukki and NBAIR technology of BSF Larve production for feed management in poultry by Dr. S Jayababu, SMS (Animal Science), KVK Idukki. The Director ICAR – ATARI, Bengaluru distributed inputs like Black soldier Fly Larvae production unit and Pseudomonas fluorescensas the NBAIR technological products to 124 selected SC farmers of Chinnakanal Village. The inputs were distributed to 124 tribal farmers.

20. ICAR –KVK, KALABURAGI -I

Workshop on Redgram Complex Wilt

One day workshop on redgram wiltwas jointly organized by ICAR-Krishi Vigyan Kendra, Kalaburagi-I, Zonal Agricultural Research Station and College of Agriculture, Kalaburagi at ZARS campus on 22.05.2023.The programme was inaugurated by Honourable Vice Chancellor Dr. M. Hanumanthappa, University of Agricultural Sciences, and Raichur and his presidential speech appreciated research program on different crops conducted at ZARS Kalaburagi campus.In this occasion Dr. M. K. Naik, Director of Extension, Dr. S. A. Patil, Former Vice Chancellor, UAS Dharwad, Dr. M. M. Dhanoji, Dean, College Of Agriculture, Dr. B. M. Dodamani, Associate Director of Research, Dr. B.S. Reddy, Farm Superintendent and Dr. Raju G. Teggelli, Senior Scientist & Head KVK, Kalaburagi participated as a chief guest.

In this programme Dr. Mallikarjun Kenganal, Scientist (Pathology) ZARS, Kalaburagi participatedas a resource person highlighted the causes and control measures of redgram wilt, Dr. Muniswamy Scientist, ZARS explained the different characters of redgram varieties also highlighted about the new disease resistant variety of redgram. Agronomist Dr. Anand Police Patil briefed about the improved management practice of redgram.Dr. Samad Patel, JDA, Kalaburagi, Smt. Anasuya Hugar, Deputy Director of Agriculture, Sedam, Sri. Santosh Inamdar, Deputy Director of Agriculture, Kalaburagi and Sri. Chandrakant Jeevanagi Assistant Director of Agriculture, Kalaburagi, KVK Heads from Bidar and Raddewadagi campus, KSDA department and TUR board officials, retired University employees, staffs and progressive farmers were participated.





ZREAC & ZREFC Workshop 2022-23 at UAS, Raichur



University of Agricultural Sciences, Raichur was organised ZREAC & ZREFC meeting of Zone 1, 2 & 3, 2022-23on 24th to 26th May, 2023 for all the teaching staff working in Colleges/ Research Stations/ KVK's/AEECs/Directorates of University of Agricultural Sciences, Raichurat Auditorium, Raichur.The programme was inaugurated by Dr. M. Hanumanthappa, Hon'ble Vice Chancellor, UAS, Raichur and provided valuable suggestions to the staff to work hard and develop or find out the scientific solutions for burning issues facing by the farmers and also serve

honestly for welfare of the farming community.The valuable suggestions regarding KVK activities given by Director of extension, Dr. M. K.Naik and expert panel at University head quarters were noted.

Dr. Raju G. Teggelli, Senior Scientist & Head presented Kalaburagi presented the new farm trials and Pop's of the KVK, Kalaburagi scientists and different demo units, cluster villages, major agriculture problems faced by farmers and identified thrust areas of the districts. Scientists of ICAR-KVK, Kalaburagi-I are actively participated.As a part of this programme, All University Key officers, Dept. HODs, Dr. Prabhuraj,Professor& Head, Dept. of Agriculture Entomology, UAS, Raichur, Dr. Jaga Jiwan Ram, Professor & Head, Dept. of Animal Science & Fisheries, UASR, Dr. Ayyanagoudar, Professor & Head, Dept. Agriculture Engineering, UAS, Raichur, Dr. Narayana Rao, Dr. Vishwanath, J, University Head, Dept. SS & AC, Dr. Amaregouda, Professor& Head, Dept. of Crop Physiology, UAS, Raichur, Dr. Mahadev Swamy, Professor & Head, Dept. of Microbiology, UAS, Raichur, Dr. Nidgundi, Professor & Head, Dept. of GPB, UAS, Raichur, Dr. Shashikala, Professor & Head, Dept. of Seed Technology, UAS, Raichur, Dr. Yanjeerappa, Professor& Head, Dept. of Plant Pathology, UAS, Raichur, Dr. Bhavani, Professor & Head, Dept. of Home Science, UAS, Raichur, Dr. Ramesh, Asst. Professor (Rept.), Dept. of Horticulture, UAS, Raichur, Dr. Vijaykumar Palled, Asso. Professor (Rept.), Dept. of Farm Machinery, UAS, Raichur, Dr. Raghavendra B T, Assistant Professor and Technical officer to DE office, UAS,Raichur and Dr. Hadimani, Assistant Professor and Technical officer to DE office, UAS, Raichurwere participated as a subject resource personsand gave valuable suggestions to the scientists. In this programme All 7 KVKs Senior Scientists & Heads, Scientists and University staffs were participated.

21. ICAR- KVK, KALABURAGI-II

Capacity development programme on rainwater harvesting and its efficient use (Catch the rain) by ICAR-KVK, Kalaburgi-II on 31-05-2023 at Kallahangarga



Off campus capacity development programme on awareness for rainwater harvesting and its efficient use (Catch the Rain) and non usage of tobacco at Kallahangraga village Jewargi talukas on 31.05.2023. During the event Dr. Chethan T. Scientist (Horticulture) explained about rain water harvesting techniques and methods suitable for the region and its importance in recharging bore well and digs wells. In the second session, Dr. Mahanthesh M.T, Scientist (Animal Science) given speech about usage of tobacco and its ill effect viz., cancer, stroke, heart disease and COPD on health of young population in India. He also explained mandate activities of KVK. There were 43 farmers participated and discussed various problems pertaining to pre Kharif.

22. ICAR- KVK, KANNUR

International year of Millets- Special programme



KVK Kannur conducted a large-scale demonstration on millet cultivation for 5 acres in convergence with Cherupuzha Grama panchayath and Krishi Bhavan. An awareness campaign was conducted at Cherupuzha to utilise the uplands of Cherupuzha for millet production. 25 kg ragi seeds var KMR 630 were distributed and the inauguration of planting was done by the Grama panchayat president Sri Alexander

Chengalayi- NICRA activities



Under NICRA programme, the principle of crop rotation was demonstrated at Kundamkai padasekharam covering an area of 5 acres by growing black gram VBN 8 seeds to utilise the residual moisture as climate resilient activities.

Method demonstration on MAT nursery preparation

Demonstration of integrated crop management in paddy with mechanisation was initiated at Thalorapadasekharam in Pariyaram panchayat. Skill training on Preparation of mat nursery was done covering an area of 10 acres by adopting standard operating protocol by Smt Anu V SMS Agronomy and Shahanas KMP, farm manager Method demonstration on MAT nursery preparation to overcome labour shortage by enabling mechanised transplantation for an area of 10 acres of paddy field at Pariyaram panchayath was done under the guidance of KVK scientist Smt. Anu V and farm manager Shahanaz K.M.P on 31/05/2023.

23. ICAR- KVK, KASARAGOD

Capacity building programme: Climate Smart Agriculture through Crop Diversification and Precision farming



A capacity building programme on "Climate Smart Agriculture through Crop Diversification and Precision farming" was jointly organized by ICAR-KVK & ICAR-CPCRI on 24th May 2023 in collaboration with Department of Agriculture, Kerala at ICAR-CPCRI. The programme was inaugurated by Dr. K. Balachandra Hebbar, Director, ICAR-CPCRI; in his opening remarks highlighted the importance and relevance of climate resilient agriculture and adoption of climate smart agriculture for mitigate the climate change phenomenon. He stressed on the new pest and disease outbreak correlated with climate change and also highlighted the PMs Concept of 'LiFE, ie Lifestyle for environment'. Smt. K.N Jyothikumari DD-Agriculture (H) chaired the meeting and she briefed the State Horticulture schemes on precision farming for optimum utilization of resources for the district. During the one-day workshop five topics were discussed: Open precision farming, Dr Manojkumar T S, Head-KVK; Fertigation schedule in precision farming for coconut, banana & vegetables by Dr. Benjamin Mathew, SMS-KVK; Management of diseases and pest in coconut, banana & vegetables, Dr Prathbha PS, Sr. Scientist-CPCRI & Climate Smart Soil & Water Conservation, Sri. K. Manikandan, STO-KVK respectively. The workshop also included a CPCRI farm visit, identification, demonstration of agriculture implements and an active Farmer-Scientist interface with the participating farmers. A total of 26 farmer & farm women and 5 officials participated in the programme.





Capacity building programme and input distribution under Tribal Sub Plan (TSP)

The ICAR-KVK, CPCRI Kasaragod, jointly organized a capacity building programme and input distribution under Tribal Sub Plan (TSP) in collaboration with IIHR, Bengaluru at Sheny, Enmakaje Panchayth on 26th May 2023. Dr. R Venkattakumar, Principal Scientist, ICAR-IIHR, Bengaluru briefed the TSP programme and welcomed the gatherings. Dr. B. Augustine Jerard, Project Coordinator (Palm) CPCRI, Kasarsagod presided over the function and Sri. Somasekhara J S, President, Enmakaje Grama Panchayat inaugurated the programme. Sri. Radhakrishna J S, Member XI Ward, Enmakaje Panchayat felicitated the function. A Capacity building programme on LiFE: Life style for Environment based on the theme "Climate smart agriculture through diversification of crops". A farmer-scientist interface was also organised in this connection. Dr. R Senthilkumar, Principal Scientists, ICAR-IIHR, Bengaluru, Dr.Manjunath Gowda DC, Scientist, ICAR-IIHR, Bengaluru, Dr. K Ranjitha, Senior Scientist, ICAR-IIHR, Bengaluru & Dr. Manojkumar T S, Principal Scientist & Head KVK, Kasaragod participated in the interface. A total of 115 farmers belong to ST community participated in the programme. Planting materials of Mango, Jackfruit, Amla, Dragon fruit, vegetable seed kit and bio agents like Trichoderma and Pseudomonas distributed to the participants.





24. ICAR- KVK, KODAGU

Webinar on Scientific Piggery Farming



ICAR-KVK Gonikoppal, Kodagu organized one day online webinar session on 31.05.2023 at KVK campus for the benefit of farmers in association with DATC, Kudige and ATMA, Madikeri on Scientific Piggery Farming. Dr. Suresh S.C, SMS (Livestock), gave lecture on scientific selection, Breeding, Feeding, Health Management and Animal insurance for the benefit of 38 farmers who were present online from Kudige and other districts of Karnataka. After the programme interaction with farmers on piggery farming was done.

25. ICAR- KVK, KOLAR

Bimonthly workshop

KVK Kolar in collaboration with KSDA, Kolar organized Bimonthly Technical workshop for State Department of Agriculture officials of Kolar district on 23.05.2023 at KVK, Kolar. DE, UAS Bengaluru, KVK, Kolar, Scientists, JDA, DD, ADA's, AO's of Kolar district were participated in the workshop. Dr. Shivanad V Hongal, Senior Scientist & Head gave inaugural speech in the workshop. Dr. Anil kumar, Scientist (SS&AC) delivered lecture on Soil health management (Nutrient use efficiency SOC management). Dr. Shashidhar K.R,

Scientist (Sericulture) participated as resource person and delivered talk on improved cultivation practices in mulberry. Around 70 officials have participated in the workshop.





Capacity building programme on Soil Health Management

ICAR-KVK Kolar organizedCapacity building programme under LIFE on Soil Health Management (Nutrient use efficiency, SOC Management) on 23.05.2023 & 24.03.2023 at KVK ,Kolar. Dr. Anil kumar S., Scientsit (SS&AC) delivered lecture on Soil Helath management. Around 50 officials have particiapted in the programme





Capacity building programme on Minor Millets for Nutritional Security

KVK, Kolar organized celebration of International year of Millets 2023 and Mission Life's Agricultural workshop (LIFE) with the theme "Millets for Nutritional security" on 26.05.2023 at KVK, Kolar and Alwatta, Srnivaspura taluk. Dr. Shivanand V Hongal, SS&H delivered lecture on “Importance of Nutri-garden”. Dr. Chikkanna G.S, Scientist (Home Science) gave information on “Importance of Minor millets for Nutritional security”. Around 40 farmers and farm women’s were participated and benefited from the program.





Capacity building programme on Creating awareness for rainwater harvesting and its efficient use

ICAR-KVK Kolar organized celebration of International year of Millets 2023 and Mission Life's Agricultural workshop (LIFE) with the theme "Millets for Nutritional security" in Govt school, Kolar on 30.5.2023. Dr. Chikkanna G.S, Scientist (Home Science) gave information on “Rain water harvesting and it’s efficient use” (catch the rain). Around 70 students were participated and benefited from the program.





26. ICAR- KVK, KOLLAM

Diploma in Agricultural Extension Services for Input Dealers (DAESI)





The first contact point for majority of farmers is the agri-input dealers in their locality. While purchasing different inputs required for farming operations, the farmer naturally tries to find out from the input dealer about the usage of inputs, both in terms of quality and quantity. But, most of these input dealers do not have formal agricultural education. If these input dealers can be shaped as para-extension professionals by providing requisite knowledge, they can bring a paradigm shift in Indian Agriculture. It is in this context, the National Institute of Agriculture Extension Management (MANAGE) had designed a one-year diploma course titled ‘Diploma in Agricultural Extension Services for Input Dealers (DAESI)’, which imparts relevant and location-specific agricultural education to equip these input dealers with sufficient knowledge to transform them into para-extension professionals so as to enable them to address the day-to-day problems being faced by the farmers at field level.

The third batch of Diploma in Agricultural Extension Services for Input Dealers (DAESI) in Kollam district was inaugurated by Hon'ble Grama Panchayath President of Vettikavala Shri. M. P. Sajeev at KVK Kollam. This batch is a combined batch with both licence and non-licence participants. There are 40 participants in this batch. The programme is spread over 48 weeks with 40 theory and 8 field visit. The topics covered include Farming situations, Soil types and problematic soils, Pest and disease management, Cultivation aspects of major field crops, Macro and micro nutrient deficiencies, Seed and pesticides act, Seeds and their storage, Stress management, Business ethics, Mechanisation etc.The contact classes are conducted on every Tuesday’s.

27. ICAR- KVK, KOPPAL

Celebration of world honey bee day -2023



Bees and other pollinators are fundamental for the health of ecosystems and food security. With the theme "Bee engaged in pollinator-friendly agricultural production" which calls for global action to support pollinator-friendly agricultural production and highlights the importance of protecting bees and other pollinators, particularly through evidence-based agricultural production practices, ICAR KVK Koppal celebrated world honey bee day in Kuderemoti village Koppal district. The programme was inaugurated by Senior scientist and Head Dr .Ragvendra Yaligar, he stated that bees are vital for the survival of many plants and animals, as they pollinate about one-third of the world's crops and 90% of the wild flowering plants. Bees are vital for the survival of many plants and animals, as they pollinate about one-third of the world's crops and 90% of the wild flowering plants. Dr. Kavitha Y Ullikashi Scientist (Home science) narrated about nutritional and medicinal value of the honey she told that honey was rich in amino acids, vitamins, minerals, iron, zinc and antioxidants. Which can used as an anti-inflammatory, antioxidant and antibacterial agent. It not only addresses the diseases like cancer, diabetes and heart diseases, it also used as beauty enhancer. Shri Mallappakamanoor progressive farmer shared his experience in honey bee rearing and encouraged farmer for honey bee rearing. More than 50 farmers were benefitted from the programme.



Seed treatment Andolana in Gaddi village Koppal

ICAR KVK Koppal and RSK Venkatgiri organised seed treatment Andolana in Gaddi village on 30.5.2023. The programme was inaugurated by Senior scientist and head Dr. Ragvendra Yaligar. He explained about seed treatment plays an important role in protecting the seeds and seedlings from seed and soil borne diseases and insect pests affecting crop emergence and its growth. Shri Harish Agriculture Officer Venkatgiri RSK narrated that, seed treatments play a crucial role by providing protection for the seed and seedlings against disease and insect pressure from the moment they are planted. There are hundreds of pathogens and insects that can damage or even kill the seed or seedlings before they even have a chance to develop, which can negatively influence the crop's progress throughout the growing season and have a major impact on the yield results at harvest time. Seed treatment not only decrease all the risk but also enhance quality and quantity of the crop Hands on experience on different crop seed treatment was done in the training programme. About more than 40 farmers were benefitted from the programme.



28. ICAR- KVK, KOTTIYAM

Training for Master Trainers on Farm Plan based Production Programme



Directorate of Extension of Kerala Agricultural University is conducting training on Farm Plan based Production Programme for master trainers. The trainees include scientists and officials of State Department of Agriculture who are members of the Block level Agricultural Knowledge Centres. Three day training programme for representatives of Block level Agricultural Knowledge Centres of Alappuzha and Kottayam District was organized and conducted by KVK, Kottayam during 29th to 31st May 2023. Sessions on value chain management in agriculture, entrepreneurship development, prospects of FPO, and strategies of efficient marketing, quality control and online marketing services were handled by competent officials. A representative from well-established "Mayyil Farmer Producer Company" shared their experience gained over years.

Mission LiFE activities



Campaigns were conducted by KVK Kottayam during the second fortnight of May 2023 as per the action plan of Mission LiFE. Campaign on Soil Health Management was conducted on 18.05.2023 with the theme Nutrient Use Efficiency and Soil Organic Carbon management. Around 85 farmers attended the programme. Awareness and Demonstration of Drone application in agriculture for reduction in use of Chemicals & Fertilizers was conducted during 22nd to 27th May 2023. A workshop on Promotion of Climate Resilient Crops/Varieties/Seeds for Climate Resilient/Smart Agriculture was conducted on 27.05.2023 with the theme Importance of Millets in Climate Resilience and Human Nutrition. Value added products of millets were distributed to the 50 participants. Campaign on creating awareness for rainwater harvesting and its efficient use was conducted on 29.05.2023 with the theme -Catch the Rain. Around 50 farmers were benefitted by the programme.

Exhibition cum Sales stall





An exhibition organized by Department of Agriculture, Ministry of Agriculture and Famers Welfare, Thiruvananthapuram at St. Micheal's College ground, Cherthala from 19.05.2023 to 28.05.2023. Various central and state government institutions and NGOs had set up exhibition stalls. KVK Kottayam conducted sale and display of various bio inputs like, Trichoderma enriched cow dung and goat manure, Fish manure etc. and Bio control agents Pseudomonas, Trichoderma etc and Biofertilizers, Azospirillum, P solubising bacteria, VAM etc and value added products from fruits and vegetables, nutmeg rind and millets.

29. ICAR- KVK. KOZHIKODE

LIFE programmes conducted by KVK, Kozhikode





Pledge, trainings and awareness programmes were conducted by KVK, Peruvannamuzhi as part of fortnight Life style For Environment (LiFE) celebrations. These programmes were inaugurated by Dr P. Ratha Krishnan, Head, KVK with the pledge by staff and farmers to follow and maintain environment friendly activities. The trainee farmers were also made aware and making pledge in this regard. Awareness programmes on catch the rain, millets, natural farming, drone usage in Agriculture, climate smart crop varieties and training on plant propagation, mushroom cultivation, rainy season management of honey bees and Soil health management campaigns were conducted as part of it. The participant farmers were served with millet based snacks to mark the importance of millets in daily diets especially during this International Year of Millets.

Farmers trained on usage of rubber tree tapping machine





Rubber is available in about 21930 ha area of Kozhikode district (less than 1/5th area of rubber in Kottayam district) and production is about 1017 kg/ha (845 kg/ha in case of Kottayam), which is less than the national average of 1400 kg/ha. The declining market price is the prime factor followed by labour shortage leads to non-tapping or irregular tapping and yield gap. Farmers using knife for rubber tapping which is time consuming and damaging tree barks. Usage of low cost and effective machineries for rubber tapping was planned by Krishi Vigyan Kendra, Kozhikode by introduction of Rubber Board approved, portable rubber tree tapping machine. The machines were made available for public hiring under NICRA project of KVK, Kozhikode and it was demonstrated to the farmers from Maruthonkara Panchayat. The programme was conducted by Dr P. Ratha Krishnan, Head, KVK, IISR, Peruvannamuzhi in association with Mr. Shyam, Green Earth Agrotech, Kuttiyadi. The demonstrations were participated by farmers from Pratheksha farmers group, Maruthonkara; Mr C.K. Jayakumar and Anjana, K from KVK, Kozhikode. The participant farmers were also issued with Malabar neem saplings for planting at home.

30. ICAR- KVK, LAKSHWADEEP

KVK supports ICAR-NBAIR in mapping out insect diversity in Lakshadweep Islands



KVK-Lakshadweep supported ICAR-NBAIR for identification and mapping out of insect diversity in Lakshadweep Islands during



26-31 May, 2023. Dr. Kolla Sreedevi, National Fellow of NBAIR visited Kavaratti and Agatti islands for this activity. KVK supported towards the work on mapping out the diversity of insects from the farmers field especially the progressive farmers cultivating coconut, vegetables and fruits. The white fly incidence was also widely discussed involving the staff of Department of Agriculture and other stakeholders. Majority of the stakeholders indicated that the whitefly is one of the reasons for the declining coconut production in the island. The advisory provided by KVK and ICAR-CPCRI during 2022-23 was widely discussed. KVK indicated that the exercise of insect collection and mapping out of diversity will be continuous after the monsoon. Records of the earlier studies revealed that there are 79 species of insects under order of Coleoptera, Dermaptera, Dictyoptera, Diptera, Lepidoptera, Mantodea, and Orthoptera which feed on different crop plants. This exercise will also emerge towards identification of new insects in the diverse environment. This joint activity of KVK and ICAR-NBAIR is likely to augment the expertise of KVK and also to work on the management of insect and pest in different crops of the island.

31. ICAR- KVK. MALAPPURAM

RKVY – ASCI training certificates distributed

Completion of RKVY ASCI training on the Job role Garden Keeper was marked by the certificate distribution ceremony organized on 19th May 2023. All the 25 participants, having attended the 27 days training and cleared the subsequent assessment on 28th March 2023, were gathered for the function at KVK. The training certificate issued by ASCI and the Mark sheets were distributed by the newly appointed Programme coordinator, Eng. Priya G. Nair. The participants were given the opportunity for sharing their new engagements and benefits of the attending the training in their livelihood as a part of the post training evaluation





Golden Jubilee exhibition at Govt. ITI Areakode



ICAR-KVK Malappuram made its presence significant in Golden Jubilee exhibition organized by Govt. ITI Area code, on 25th and 26th May, 2023 by setting an info intense stall. The stall had displayed information materials pertaining to various aspects of agriculture and made available distinguishing products, and seeds and planting materials of high yielding varieties produced by the KVK as

well. The stall has been visited by many dignitaries from different spheres of society, school and college students, farmers and general public; and imparted an enriching experience to the visitors.

Awareness programme on Lifestyle for the environment

A pledge on Life style for the environment was took on 19th May 2023 for the farmers and staffs of KVK. A total of 30 participants attended the programme. Another awareness programme on rain water harvesting for farmers was conducted on 26th may 2023. Dr. Abdul Hakkim.V. M, Professor, Dept. of Soil and Water Conservation Engineering, KCAET, Tavanur handled the session





32. ICAR- KVK, MANDAYA

Campaign cum workshop on "Siridhanya"





ICAR-Krishi Vigyan Kendra in collaboration with Zonal Agricultural Research Station (ZARS) and College of Agriculture, V.C. Farm, Mandya organized One day campaign cum workshop on 26.05.2023 "Siridhanya" on occasion of International year of Millets-2023. An exhibition cum sale of different millets products was organized involving different entrepreneurs and FPO's of the district. The programme was inaugurated by lighting the lamp and Mr. Mahesh .H.M welcomed all the dignitaries and the gathering. Dr. Naresh. N.T., Senior Scientist and Head in his introductory remarks briefed about the importance millets and millets campaign programme. Dr. Shivakumar. N, Associate Director of Research, ZARS in his presidential remarks explained about the importance of millets in particularly with respect to nutritional value and health benefits. Mr. Shri Harsha, ADA, Mandya highlighted on the facilities available at the Department of Agriculture for millets growers and entrepreneurs. Dr. Raghupathi. D, Associated Director of Extension briefed the importance and use of millets to overcome the passive life style and its impact on health. During the technical session Dr. Sunil C. M, Junior Agronomist, AICRP on millets explained in detail about improved agronomic practise of millets, Dr. Kamalabai Koodagi, Scientist (Home

Science), KVK provided the information regarding importance of value addiction to millets, Dr. Chandrakala Hanagi, Associate Professor, AICRP on Maize explained about processing and market linkage of millets to the participants. The programme was concluded with the vote of thanks by Dr. Thimmegowda, P, SFS, ZARS, Mandya, total 88 participants were benefited from the programme. A Jatha on creating awareness about use of millets in regular diet among farmers and public was organized students from college of Agriculture, KVK Scientists, ZARS Scientists witnessed the jatha.

33. ICAR- KVK, MYSURU

Apiculture skill development for rural youths

One day training on apiculture was organized at ICAR, JSS, KVK, Suttur, Mysuru district on 27.05.2023. The training was conducted by Dr. Y. P. Prasad, Scientist (Plant protection), explained the importance of honey bees in agriculture and in increasing the additional income for farmers by adapting apiculture. Smt. H. V. Divya, Senior Scientist & Head (I/C) was encouraged the gathered farmers by quoting success stories in apiculture. Resource person Sri. Ravi and Sri. Jayashankar explained about communication between the bees (bee dance), role of worker bee, queen and male bees. Demonstration was conducted to show the maintenance of honey bee colonies, extraction of honey from comb etc. 50 farmers and staffs were participated.





34. ICAR- KVK, PALAGHAT



Capacity building programme on BSF (Black soldier fly) larva production

As part of climate resilient and smart agriculture campaign on 27th May 2023, KVK Palakkad conducted a capacity development program on Household waste management through BSF production as poultry feed". The session was handled by Dr. Smijisha A S, Assistant Professor (Animal Husbandry). Around twenty participants attended the training and gained knowledge about aneconomical and easy method of converting household kitchen waste into more nutritious and valuable poultry and fish feed.All participants were given hands on training for the same.



Capacity building programme on millet cultivation

A capacity building programme was organized at KVK Palakkad, as a part of climate resilient and smart agriculture campaign on 27.05.2023. The session was handled by Dr. Sreelakshmi K, Assistant Professor, KVK Palakkad. An exhibition was also organized along with the

programme so that the trainees could get more idea on different millets and their nutritional qualities. 16 participants attended the programme and later seedlings were distributed to them during the valedictory function

35. ICAR- KVK, PATTANMTHITTA

Cluster Front Line Demonstration On Greengram Cultivation



The ICAR- KVK, Pathanamthitta, Kerala, conducted Cluster Front Line Demonstration (CFLD) under National Food Security Mission to popularize improved green gram variety CO-8 developed at TNAU, Coimbatore. The Cluster Front Line Demonstration (CFLD) on green gram was conducted in 15 acres in the district. The variety matures in 55-60 days. Basket of technologies like rhizhobium for seed treatment, magnesium sulphate and borax as supplement for soil application, Herbicide Imazethapyr (10 % SL @ 400 ml/acre) for weed control and 1% spray of 19: 19:19 as fertilizer was also adopted. The crop is ideal for rainfed conditions. Due to early maturity it escapes terminal drought and ensures sustainable yield. KVK's demonstration plot yielded 684 kg/ha. The Field day was organised on 17th May 2023.Shri. Lalu Thomas, Vice president, Koipram Block Panchayath inaugurated the field day. Dr. C.P Robert, Senior Scientist and Head, KVK, Pathanamthitta presided over the function. Shri. Vinod Mathew, SMS (Agronomy) and the coordinator of CFLD programme also spoke during the occasion.

WORLD HONEY BEE DAY 2023



World Honey bee day 2023 was organised at KVK, Pathanamthitta on 20th May 2023 with an aim to educate the general public about the importance of bees and beekeeping. The lead talk was delivered by Dr.Rincy K Abraham, SMS (Horticulture) on the theme "Engaging in Pollinator-Friendly Agricultural Production." Mr. Varghese T Mathew, the lead farmer of KVK and an active member of KVK promoted Honey producer society demonstrated the scientific honey bee farming procedures.

36. ICAR-KVK, RAICHUR

Seed Treatment method demonstration:



A method demonstration programme was conducted by ICAR-KVK, Raichur with reference to seed treatment. Farmers from nearby villages participated in the same. Seed treatment reference to application of fungicides, insecticides or a combination of such to seeds so as to disinfect from seed borne pathogens as will as early occurring pests. The farmers were suggested to takeup seed treatment before sowing with not only chemical pesticides but also bio-pesticides like Trichoderma@ 4 g./kg seed, Pseudomonas @ 10g./kg. seed, bio-fertilizers like Rhizobium& PSB @ 10g./kg. seed to improve nutrient uptake also.

37. ICAR- KVK, RAMANAGARA

Awareness about Climate resilient smart agriculture and importance of Millets





ICAR- KVK Ramanagara organised celebration of International year of Millets-2023 and Mission Lifestyle for Environment (LIFE's) agricultural workshop with the theme "Climate resilient and climate smart agriculture" and "Campaign on Importance of Millets". The program was inaugurated by lighting a lamp. On this occasion, Dr. Lata R. Kulkarni, Senior Scientists and Head said that Millets are a panacea for diabetes, obesity, heart related diseases and anaemia which are found in recent times, so it is very important to consume them in daily diet. She also explained about the role of Millets for good health and nutrition, importance of Processing, value addition, Branding and Packaging techniques. Dr. Dinesh, M.S., Scientist (Agronomy) briefed about the nutritional importance of millets like Ragi, Foxtail millet, Proso millet, Barnyard millet, Little millet, Brown top millet and Pearl millet, its important qualities, different varieties, seed rate, seed treatment, spacing, integrated nutrient management and weed management, natural farming, organic farming and also explained about climate resilient and climate smart agricultural practices. Dr. Geetha from AYUSH Department, Magadi urged farmers to adopt a millet based diet to address modern lifestyle disorders and explained the importance of Ayurveda, Yoga, Pranayama, Naturopathy, Unani, Siddha, Homoepathyto maintain good health. Dr. Sowjanya, S., Scientist (Agricultural Extension) highlighted the Mission Life's main objective of saving energy, saving water, controlling and saying no to single use plastic, adopting a sustainable food system, reducing waste, adopting a healthy lifestyle and reducing e-waste. On this special occasion, exhibition was organised based on the theme Millets, Natural farming and organic farming. More than 40 participants and KVK staff Dr. Rajendra Prasad, B.S., Scientist (Plant protection), Dr. Deepa Pujar, Scientist (Horticulture),Smt. Shanta Balagond, SMS (Agrometeorology), Smt. Umarani, K.(Farm manager), Smt. Roopa, C.H., Technical officer and Shri. Narasimhachar (Assistant) participated in this special occasion and were benefited.

38. ICAR- KVK, SHIVAMOGGA

Training Programme On IFS, Climate Resilient Agriculture and Millets.



ICAR – Krishi Vigyan Kendra, Shivamogga in collaboration with the Organic Farming Research Centre, Keladi Shivappa Nayaka University of Agricultural and Horticultural Sciences, Shivamogga organized a one day training programme on Integrated Farming System, climate resilient agriculture and millets at ICAR KVK, Shivamogga. Dr. Sannathimmappa, Senior Scientist & Head, KVK Shivamogga briefed the farmers on the importance of the capacity development programme. The programme was inaugurated by Dr. R. C. Jagadeesh, Vice Chancellor, KSNUAHS, Shivamogga and articulated opinion of integration of age old practices of using locally available farm wastes along with bi-products of



Animal husbandry in integrated system of Agriculture, Horticulture and Bee keeping to reduce the dependence on inputs of inorganic source. Dr. K T Gurumurthy, Director of Extension advised the farmers to maintain soil health for sustainable production. Dr. Veeranna, H. K., Professor (Agronomy) provided the farmers with information on importance of IFS and inclusion of millets in farm production under changing climatic conditions. Dr. B C Hanumanthaswamy, Associate Director of Extension informed the trainees about diagnosis and management of pest and disease in major crops. The farmers also interacted with Dr. Bharathkumar, Scientist (Horticulture) about management practices of major plantation crops of the region. Totally 60 farmers from 3 villages of Shivamogga districts participated and benefitted from the programme.

39. ICAR- KVK, THRISSUR

Empowering officers to lead FPOs



KVK Thrissur conducted three-day Farm Plan based Production Programme Training from May 22-24, 2023 for 60 master trainers including Block level Agricultural Knowledge Centre (BLAKC) nodal officers and officials of Department of Agricultural and Farmers' Welfare. The training aimed to equip the master trainers for facilitating the Farmer Producer Organisations in different block panchayats of Ernakulam and Thrissur districts. The major sessions included in the training programme were formation, structure and functions of FPO, CEO selection process, statutory and legal competencies, FPO Scenario in India and Kerala, preparation of DPR, FPOs in Kerala ecosystem, integration of MSME schemes with FPOs, custom hiring services of SMAM, efficient handling of input centres, licensing, and quality control, strategies for efficient marketing, credit linkage for FPOs, tuber crop-based value chain and entrepreneurship development, value chain management, online marketing, value addition of fruits, vegetables, cereals and millets etc.At the end of three-day sessions, experience sharing of FPOs was also done by most successful FPOs of Thrissur and Ernakulam District for the past five years. The valedictory session of the training programme was inaugurated by Director of Extension, Kerala Agricultural University.

Chalakudy and Thalikulam FPOs



Two FPOs in Chalakudy and Thalikulam are being supported by ICAR – KVK Thrissur with NCDC funding. The two have registered as per Cooperative Society Act, 1969 and are now in the process of adding shareholders and establishing enterprises.

40. ICAR- KVK, TRIVEDRUM

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



Farmers reported 30-40% of yield loss due to theroot rot and tuber rot in cassava which is one of the major crops in Thiruvanathapuram district. In lowland regions plants are showing symptoms like yellowing, drying of leaves and rotting of tubers. Based on the field surveys and research findings of ICAR- CTCRI, observed an association of two or more pathogens and other pests in the infected fields, however its confirmation is under progress. Disease incidence usually is higher during the rainy season which cause root rot of tapioca with symptoms like breakage of roots associated with a foul odor and change in colour.Pathogens may spread through planting material, soil, water and other farm tools. With adhoc recommendations provided by ICAR-CTCRI, KVK Trivandrum conducted frontline demonstrations in the lowland regions. On completion of the program KVK organized field day celebration as part of the drive to spread the technology developed by Central Tuber Crop Research Center to control the root rot disease in Cassava. The harvest festival was organized at BalaramapuramShri.Thulaseedharan Nair's field. Farmers testified that in the demonstrated field, tapioca rarely shown root rot disease unlike in conventional cassava cultivation. Local body representative, Smt. Shalini L. S inaugurated the harvest festival and requested the farmers to adopt the scientific technologies to overcome the pest and diseases. Dr. Binu JohnSam, Senior Scientist & Head explained the importance of spreading the technology especially among the farmers cultivating cassava in lowlands. Smt. Bindhu R Mathews, Subject Matter Specialist, Plant Protection briefed the technology to the farmers.

41. ICAR- KVK, TUMKURU-I

Celebration of 'Millets Campaign and Climate Smart Agriculture Techniques'





ICAR - KVK – Tumkur-I conducted one day workshop on 'Millets Campaign and Climate smart agriculture techniques' on 23rd May 2023 at KVK Tumkur-I to create Awareness of the contribution of millet to Food Security and nutrition. and Inspire stakeholders to improve sustainable production and quality of millets. Dr. Sumana, AYUSH, Medical Officer, AYUSH Hospital, Konehalli inaugurated this programme and addressed "Millets have fewer cross-linked prolamins, which may be another factor contributing to millet protein digestibility. Millets are low in GI and aid in the regulation of blood glucose levels, are excellent for weight loss and digestion. Millets also boost our immunity, reduce cardiovascular risk and prevent asthma. A breakfast high in fiber, protein, and healthy fats can help you avoid overeating later in the day. Millets contain 7-12% protein, 2-5% fat, 65-75% carbohydrates, and 15-20% dietary fibre making it an ideal breakfast choice." Mr. Siddarameshwara, Circle Inspector, Tiptur Rural, explained that millets are the only crop that will address important issues in the future like food, feed, fuel, malnutrition, health, and climate change. Millets are adapted to a wide range of ecological conditions demanding less water and inputs and fit well even in infertile soil. Dr. V. Govinda Gowda,

Senior Scientist and Head, ICAR KVK Tumkur-I addressed this as nationwide campaign has been launched in which all the agricultural institutes of the country have been involved. KVK-Tumkur-I also planned different activities to be conducted during the celebration of millets year. Dr. Jayaramaih, Professor, meteorology department, UAS(B), Bangalore delivered the guest lecture on climate smart agricultural technologies and Dr. Prabhu Ganiger, Associate Professor (Entomology), AICRP, Millets, (B), Bangalore has delivered the guest lecture on Importance of Millets cultivation, history and improved production technologies. On this special event KVK Tumkur-I organized "Seri Ruchi" recipe competition for rural women and distributed prizes for innovative recipe. A total 86 members were participated in the training programme and benefited.

Demonstration of Finger millet var. KMR-316 under double cropping system (Cowpea – Finger millet)



ICAR - Krishi Vigyan Kendra – Tumkur-I initiated FLD on Demonstration of Finger millet var. KMR-316 under double cropping system (Cowpea – Finger millet) at Bandrehalli village, C.N Halli. Mr. Darshan, M. E., scientist (Agricultural Extension) addressed the farmers that Finger Millet is being grown as sole crop with blast susceptible varieties in Tumkur district. Farmers are not taking the advantage of bimodal distribution of rainfall from May to November (7 months) to adopt double cropping system. Therefore, it is essential to demonstrate double cropping system using medium duration cowpea (KBC-9) and blast resistant Finger millet variety (KMR-316) for maximum productivity. On this occasion critical inputs were distributed to the partner farmers and conducted demonstrated about seed treatment using bio fertilizer and method of soil sampling for soil analysis

42. ICAR- KVK, TUMAKUR- II

Celebration of World Bee Day in collaboration with ICAR-IIHR, Bengaluru





The celebration at ICAR-IIHR was graced by Dr. S. K. Singh, Director, ICAR-IIHR in the presence of Dr. Partha Pratim Choudhury, Regional Honey Testing Lab Principal Investigator, Dr. Debi Sharma, In-charge FSRL Dr. Prakash Patil, PC, AICRP Fruits and Dr. P.V.R. Reddy, Head Crop Protection. Among the 52 farmers attended, 72 percent women farmer participation was recorded including members of a FPO which emphasis the role of bee-keeping in women empowerment in Indian agriculture. The farmers visited the RHTL and FSRL wherein, they were briefed about the State-of-the-Art instruments being used for honey quality testing. They were also explained how RHTL facility in ICAR-IIHR can emerge as a crucial link between the Council and the farming community for any bee-keeping or honey related entrepreneurship. A live demonstration was set up by Dr. P.V.R. Reddy, to showcase the apiculture fundamentals and commercial rearing of honey bees. The benefits of practicing apiculture production and its importance in terms of both financial and ecological aspects were discussed during an interactive session. The farmer visit to IIHR was co-ordinated by Mr. Jagadish K.N., Subject Matter Specialist Agril.Extension and Dr. Loganandhan,N., Head ICAR-KVK, Hirehalli, Tumakuru II. Farmers were also shown the significant achievements in honey production through short video film played in the auditorium of IIHR.

43. ICAR- KVK, UDUPI

Inauguration ceremony of Scientific value addition of Jack Fruit

Keladi Shivappa Nayaka University of Agriculture and Horticultural Sciences, Iruvakki, Shivamogga; Indian Council of Agricultural Research – KVK, Brahmavara, Udupi District and Zonal Agriculture and Horticultural Research Station, Brahmavara jointly organized two day skill development training program on "Scientific Value Addition in Jack Fruit" from 26.05.2023 to 27.05.2023. The training program was inaugurated on 26.05.2023 by progressive farmer Mr. Ramesh Nayak, Kamakshi Farms, Thekkatte, Udupi District. In his inaugural address Mr. Nayak called upon farmers on considering agriculture as an industry in order to make agriculture a lucrative entrepreneurship activity. He also emphasized on following scientific protocols in planting and managing crops to achieve higher farm income. Dr. Lakshmana, Associate Director of Research, Zonal Agriculture and Horticultural Research Station, Brahmavara presided over the ceremony. In his presidential remarks, Dr. Lakshmana elaborated on value addition opportunities in jack fruit. Chief Guest, Dr. Sudhir Kamath K. V., Principal, Diploma College of Agriculture, Brahmavara, mentioned about various nutrients available in jack fruit, and their role in maintenance of good health. Resource persons Dr. Maruthesh, Farm Superintendent and Station Head, Agriculture and Horticultural Research Station, Ullala and Mrs. Divya Nayak, Head, Marketing Unit, Kamakshi Farms, Thekkatte were present. Dr. Dhananjaya B., SS&H, KVK with introductory talk welcomed the gathering. Dr. Jayaprakash, R. Scientist, compared the program while Dr. Sadananda Acharya, Scientist delivered vote of thanks.





Third Convocation of Diploma in Agricultural Extension Services for Input Dealers (DAESI) ICAR-Krishi Vigyana Kendra, Brahmavara

Keladi Shivappa Nayaka University of Agriculture and Horticultural Sciences, Iruvakki, Shivamogga; University of Agricultural Sciences, Bengaluru; State Agriculture Management and Extension Training Institute (SAMETI); National Institute of Agricultural Extension Management (MANAGE); Karnataka State Department of Agriculture, Udupi District; ICAR – KVK, Brahmavara, Udupi District and Zonal Agriculture and Horticultural Research Station, Brahmavara jointly organized 3rd convocation ceremony of "Diploma in Agricultural Extension Services for Input Dealers (DAESI) students at the campus of ICAR-KVK, Brahmavara on 27.05.2023. Dr. Dhananjaya B., Senior Scientist and Head, ICAR-KVK, Brahmavara, deliberated on the importance of agricultural input service dealers while welcoming the gatherings. In her introductory talk, Dr. Kalpana, Nodal Officer, SAMETI, Bengaluru discussed on the benefits of the DAESI diploma program for agriculture input dealers. She also called upon the diploma graduates to be of good service to agriculturists with consultancy and timely advises to farmers. Dr. Gurumurthy, K. T., Director of Extension, Keladi Shivappa Nayaka University of Agriculture and Horticultural Sciences, Iruvakki, Shivamogga inaugurated the



convocation ceremony. He emphasized on the importance of integrated crop management, integrated pest management and integrated disease management in agriculture and horticultural crops. Dr. Gurumurthy also informed that DAESI graduates shall be in constant touch with the University faculty and further educate farmers in good agricultural practices while delivering them input services. Chief Guest, Mrs. Seema Savanoor opined that DAESI graduates with their newly acquired skills and knowledge, can now work as link between farmers and agriculture institutions. Dr. Sudhir Kamath, Principal, Diploma College of Agriculture, Brahmavara, as chief guest spoke on the need for spreading knowledge and awareness program through leaflets and information sheets at places of input service dealers regarding prevailing pests and diseases during the season. He also called upon the graduates to maintain a database of farmers visiting them with crop details for future references and management of their crops. The convocation ceremony was presided over by Dr. Lakshmana, Associate Director of Research, Zonal Agricultural and Horticultural Research Station, Brahmavara. He suggested that agricultural input service dealers can be of great information centers for farmers. Dr. B. C. Hanumantha Swamy, Associate Director of Extension, KeladiShivappa Nayaka University of Agriculture and Horticultural Sciences, Iruvakki, Shivamogga was also present as chief guest.DAESI students shared their experiences during the study period and awards were given away for the best students. Convocation Certificates were distributed by the Chief Guests. Dr. Jayaprakash R, Scientist compeered the program, while Dr. Raviraj Shetty G., Scientist delivered vote of thanks.

Cashew Apple utilization and value addition

On campus training programme on Cashew Apple utilization and value addition was organized on 27.05.2023 at Krishi Vigyana Kendra Brahmavara by Dr. Raviraja Shetty .G, scientist (Horticulture). Dr Dhanajaya B, Senior Scientist & Head, KVK Brahmavara, presided over the function. Dr. Shankar. M, Associate Professor, Agricultural Engineering, ZAHRS, Brahmavar was the guest. Every year in India more than 70 million tons of Cashew Apple are being wasted, even though it has high nutritional value. In the training the participants were made aware about nutritional value, value added products, preparation of different kinds of product out of Cashew Apple. A demonstration on Cashew Apple Juice preparation was held. There were about 33 participants in the training programme.





44. ICAR- KVK, UTTARA KANNADA

World Bee Day 2023





ICAR - KVK, Uttara Kannada, Sirsi in association with Honnavar Beekeepers' and Village Industries Cooperative Society Ltd. Uttara kannada organized World Bee Day on 20.05.2023 at Honnavar under the theme "Bee Engaged in Pollinator – Friendly Agricultural Production". Dr. Roopa S. Patil, Scientist (Plant Protection), KVK Sirsi gave introductory remarks about bee day celebration and role of bees in biodiversity conservation. Dr. A. S. Vastrad, Director of Extension, UAS Dharwad inaugurated the programme through Honey extraction and highlighted the importance of bees in pollination services, scope of GI tag for Honnavar honey and start up avenues under RKVY –RAFTAR grants. Shri G anapathi R. Bhat, Progressive Bee keeper, Karwa discussed about status of coastal beekeepers and marketing of honey. Another guest Dr. S. B. Jagginavar, Head, AEEC, Kumta explained the history of beekeeping and utilization of bees during world war as biological weapons. Senior Beekeeper G. U. Bhat stressed on assured market price for quality honey in cooperative societies. Shri. Vishwanath S. Bhat, President Beekeepers Society, Honnavar gave presidential remarks. During this occasion, elderly beekeeper Shri. Krishna Subba Hegde, Hosakuli was felicitated for supplying more than 150 Kgs of honey to the society. He too shared the beekeeping journey since childhood and even after retirement from the service. Shri Raveendra Bhat, Secretary, Beekeepers Society, Honnavar welcomed the gathering and Dr. Roopa S. Patil, Scientist (Plant Protection) presented vote of thanks. Smt. Shweta A. Mannikeri SMS (Home Science) compared the programme. About 50 beekeepers participated in the programme.

45. ICAR- KVK, VIJAYAPURA-I

Soil and plant health management:



Two days on campus training programme was organized at KVK Vijaypur-1 from 26.5.23 to 27.05.2023 in Collaboration with Coramandaal International Pvt. Ltd, Bengaluru on the topic, Soil and plant health management. The Dean and campus head, Dr. I. M. Sarawad and Dr. Ramesh Kumar, Zonal Agronomist, Coramandal International Pvt. Ltd, Bengaluru were inaugurated the programme and highlighted the importance of Soil and plant health in the present day situation. The Senior Scientist and Head, Dr. G.S. Yedahalli briefed the importance and objective of the programme. In this training programme, the resource persons Dr. Vidyavati Yadahalli Scientist (Soil Science) highlighted the importance of Soil and its conservation practices etc, and also Scientists Dr, Shilpa Chogatapur, Dr. Sangeetha Jadhav and Dr. Prakash H. T were delivered the lectures on various aspects. In this programme, nearly 30 techno promoters were participated from different districts of Northern Karnataka.

46. ICAR-KVK, VIJAYAPURA-II

Diagnostic visit to problematic grape orchard



Dr. Shivashenkaramurthy M., Senior Scientist and Head and Dr. Savita B., Soil Scientist, ICAR-KVK, Indi visited diagnostic grape orchard at Anjutagi village Indi tq of Sridar Babald, Grape grower. Grapevine affected with fungal vascular diseases (Verticilliumwilt). Sudden drying of all green leaves of grapes and finally whole plant is died due to water and nutrient supply is blocked. Leaves lose turgor and show signs of scald because of invasion of xylem tissue by Verticillium.Verticilliumwilt disease affected grape stem exhibit vascular streaking. Verticillium wilt occurs through the grape roots, and the fungus migrates up the vascular tissue. Wilt symptoms appear when warmer weather exerts water stress on infected plants whose vascular tissue is plugged with gums, tyloses, and mycelium. Berries on affected shoots dry up early in the season.Hence, the decline and death of young vines can cause significant economic losses to the grape farmers. Suggested to farmers is spray of Azoxystrobin+ Tebuconazole @ 1 ml per litre water and drenching of 8-10 litre of solution of Azoxystrobin +Tebuconazole (@ 1 ml per litre) in the root zone of grape plant for management of Verticillium wiltdisease. It wassuggested for application of Jeevamruta solution @ 2 litre per vine at the intervals of 15-20 days to grape orchard for strengthening and getting better yield.

Diagnostic visit to Brinjal plot and Lime orchard: Scientific cultivation leads to higher yield and better price.





Diagnostic Field visit conducted by ICAR-KVK Vijayapura-II (Indi) on 1st June 2023. Dr. Shivashenkaramurthy, Senior Scientist and Head, fellow Scientists Dr. Prakasha G and Dr. Veena Chandavari visited Brinjal plot, which was severely affected with shoot and fruit borer in Kesarala Tanda of Indi taluka. The scientists were observed infested field and found symptoms viz., withering of terminal shoots/dead hearts, bore holes on shoots and fruits plugged with excreta, shedding of flower buds and drying of leaves. Farmer and scientist's interaction sessions were organized and cost effective shoot and fruit borer management practices were recommended. Farmers were advised to avoid using insecticide at the time of fruit maturation and harvest and uproot and burn old plants before planting new plants since they harbour pest and carry over infestation. Farmer s advised to apply neem seed cake 250 kg/ha at the time of transplanting and incorporated into the soil and also suggested to spray any one of the insecticide starting from one month after planting at 15 days interval. Carbaryl 50 WP 2 kg + wettable sulphur 50 WP 2 kg, Quinalphos 25 EC 1.5 L + Neem oil 1.0 L, Azadirachtin 1.0% 1.0-1.5 L or Fenpropathrin 30 EC 250-340 ml or Thiodicarb 75 WP 625-1000 g Flubendiamide 20 WG, 375 g with 500 – 750 L water/ha for effective control. Dr. Shivashenkaramurthy, Senior Scientist and Head explained the chemical dose, time and spraying method in lime orchard during field visit of Hanumath Rathod, Kesaral Tanda of Indi Taluk. Dr. Prakasha, G.,

Scientist (Agronomy) briefed about the flower drop control in lime. The application of auxins, gibberellins and/or cytokinins has been successful in reducing flower drop (increasing fruit set) as well as immature and mature - fruit drop. Dr. Veena Chandavari, Scientist (Home Science) highlighted the nutritional and health benefits of lime fruits and it contain carbohydrate, fibre, vitamin C, potassium, folate, calcium, thiamin, niacin, vitamin B6, phosphorus, magnesium, copper, riboflavin and pantothenic acid.

47. ICAR- KVK, WAYANAD

Farmer Scientist Interface



As part of Farm Plan Based Production Programme (FPPP), a Farmer-Scientist Extension Interface was conducted by the Scientists of KVK Wayanad and RARS Ambalavayal in collaboration with Department of Agriculture and Farmers Welfare at Block Office, Panamaram AKC to discuss the ground realities in the impact of climate change on different agro-ecosystems in India and their mitigation methods. Sri. Vinoy A.T, Panamaram ADA welcomed the gathering. The programme was inaugurated by Smt. Girija Krishnan, Panamaram Block Panchayath President. Special address was given by Dr. Safia N.E, Senior Scientist and Head, KVK Wayanad. SMS of Horticulture and Plant Pathology from KVK Wayanad and RARS Ambalavayal dealt on the farmers doubts on agriculture policies, crop production and crop management aspects. Exhibition of live disease and pest attack specimens, live nematodes under microscope etc were included in the programme.

KVK Wayanad-Release of Beneficial parasitoid wasp against Tapioca mealy bug



One day Brainstorming Meeting on 'Management of Mealy bugs in Cassava- Present Status and Future Strategies' was organized by ICAR-CTCRI at Sreekariyam, Thiruvananthapuram. Scientist from Krishi Vigyan Kendra Wayanad received the parasitoid for trial purpose after attending the meeting. Discussions were held on future course of action to control the cassava mealybug which is one of the most destructive pests of tapioca. To tackle the issue of tapioca mealy bug, ICAR- NBAIR, Bengaluru imported the beneficial parasitoid wasp, Anagyrus lopezi which was released in Tamil Nadu on 2022 and in Kerala at Thrissur during 2023. In Wayanad, the parasitoid was released in farmer's tapioca field to manage mealy bug under the guidance of faculties of KVK Wayanad.

48. ICAR- KVK, YADGIR

Capacity development programme on integrated pest and disease management in pomegranate



The capacity development programme was conducted on IPM and IDM in pomegranate in Surpur taluk in collaboration with Val agro pvt. ltd. Dr. Jaiprakash Narayan, Senior Scientist and Head emphasized on advances in cultivation of pomegranate, bahar management, pruning techniques and importance of rest period in pomegranate. Dr. Hanumanthappa Srihari, Scientist (Entomology) briefed about IPM practices for bacterial blight, fruit fly and thrips management. The scientist also discussed about Wilt complex management and anthracnose leaf spot management.

Historical Places in Vijayapura



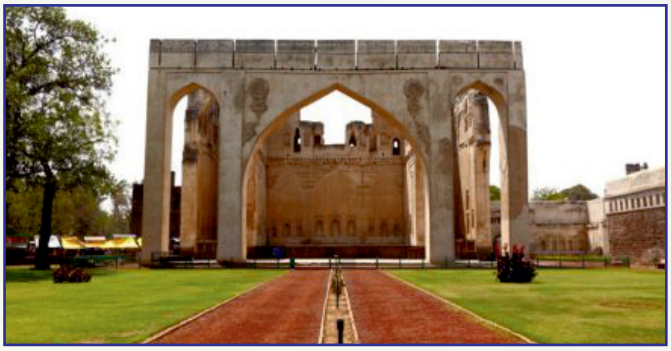
Shree Shanteshwara Temple, Indi



Almatti Dam



Golgumbaz



Gaganmahal



Barakaman



Shivagiri



Uppaliburaz



Ibrahim Roza

KVK TIMES

A Window to KVKs ICAR-ATARI, Zone-XI, Bengaluru
Vol 01, Issue 46th, 16-31th May 2023

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Published by:
ICAR-Krishi Vigyan Kendra, Vijayapura-II (Indi),
Railway Station Road, Indi, Dist: Vijayapura- 586209
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With the guidance of
ICAR-ATARI, Zone-XI, Bengaluru



ICAR- KVK VIJAYAPURA-II (INDI) ADMINSTRATIVE BUILDING



ICAR- KVK VIJAYAPURA-II (INDI) FARMERS HOSTEL



REDGRAM SEED PRODUCTION PLOT AT ICAR- KVK VIJAYAPURA-II (INDI)