

# KVK TIMES

A Window to KVKs of  
ICAR-ATARI ZONE-XI, Bengaluru



ICAR-KRISHI VIGYAN KENDRA,  
KAWADIMATTI (YADGIR)



ICAR-Agricultural Technology Application  
Research Institute, Zone XI, Bengaluru  
University of Agricultural Sciences, Raichuru







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**UNIVERSITY OF AGRICULTURAL SCIENCES**

Lingsugur Road, Raichur-584 104. Karnataka State. India

A Window to  
KVKs of  
ICAR-ATARI  
ZONE-XI,  
Bengaluru

**KVK  
TIMES**



**Dr. Hanumanthappa M**

Vice Chancellor, UAS, Raichur.



## Foreword

Krishi Vigyan Kendras are the agricultural science centres established as innovative institutions that impart vocational trainings to the practicing farmers, school dropouts and field level extension functionaries. They are implementing the lab to land programmes with a responsibility as frontline extension agency. They play a vital role in providing support to the farming community and create awareness about the improved location specific-agricultural technologies. It's my immense pleasure to say that Krishi Vigyan Kendra's have been functioning as the knowledge and resource centre of agricultural technology supporting initiatives of farmers, public, private and voluntary sectors for improving the agricultural economy of the district.

I congratulate the youngest KVK of ATARI Zone-XI ICAR-KVK Kawadimatti (Yadgir) for bringing out the 48<sup>th</sup> issue of KVK TIMES of Zone-XI for the second fortnight of June 2023. I would like to express my compliments to Dr. Venkatsubramanian, Director, Zone XI, ATARI Bengaluru and all the staff of Zone-XI KVKs for their effort to share the achievements in this issue of KVK Times.

I appreciate the sincere efforts of Senior Scientist & Head of ICAR-KVK Kawadimatti (Yadgir) and his team for compiling the 48<sup>th</sup> issue of KVK TIMES.

**Dr. Hanumanthappa M**

Vice Chancellor,  
UAS, Raichur.





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**Dr. M. K. Naik**

Director of Extension, UAS, Raichur

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## Message

I am pleased to pen a few words for “KVK Times” at a time when India has occupied Presidency of G-20. The Honourable Prime Minister remarked G-20 Presidency of India as a Presidency of healing, harmony and hope. That means we have to work together to shape a new paradigm of human centric globalisation. The G-20 Presidency will work to promote the universal sense of oneness which means One Earth, One Family and One Future. Here comes role of KVK. Over the years, the KVKs are evolved as a Power House of Knowledge to empower farming community. The very nature of designing KVK is to place multi-disciplinary team of experts working for uplifting of farmers. Therefore KVKs have a greater role to play in India's G-20 Presidency at grass roots level than ever before. Apart from conducting routine activities namely, frontline demonstrations, onfarm trials, location specific technologies, need based trainings; ultimately dissemination of agricultural technologies to stakeholders, KVKs have been playing a pivotal role even in supply of quality inputs, namely; seeds, planting materials, organic products, bio-fertilizers, livestock breeds etc. In recent years, the KVKs have gained popularity at the rural ecosystem mainly because of several campaigns such as natural farming and soil health cards (soil health), nutri cereals (poshak abhiyan) and vaccination for foot and mouth diseases (animal health) etc. as well as setting up of agri war room to protect the farmers during Covid-19 pandemic and also market linking through social media to protect distressed sale by the farmers. Of late, roles and responsibility of KVKs are changing in the changed context of farming situation. Farmer now needs an intensive knowledge and the skill in post-harvest handling viz; processing, storage and value addition and export rather than more production oriented campaign. Hence, KVKs are to be well equipped and resourceful in these aspects rather than production centric technologies. The target before the nation is very clear in front of KVK to bring in cultivation of 26 mha of degraded land, to reduce carbon footprint by 40%, water footprint by 20%, fertilizer usage by 20% still keeping the production enhanced. I wish KVK shall be able to endure these pressures in meeting the targets.

I compliment wholeheartedly and congratulate Dr.V. Venkatasubramanian, Director ATARI, Bengaluru for conceiving this idea of KVK times. A special word of appreciation to the Head and team of ICAR-KVK, Kawadimatti (Yadgir) for bringing KVK times well in time, encompassing the activities of 2<sup>nd</sup> fortnight of June 2023.

**Dr. M. K. Naik**

Director of Extension  
UAS, Raichur





**Dr. V Venkatasubramanian**

Director, ICAR ATARI, Zone XI, Bengaluru



*Foreword*

Krishi Vigyan Kendras being “The light houses of the farmers” provide insights and light on the newer agricultural technologies to the farming community by undertaking various frontline extension activities like frontline demonstrations, on farm trials and capacity development programmes. The concept of KVKs in each district throughout the country has helped in reaching the technologies to the farmer's door steps and its effective implementation has led to enhanced production and productivity and there by showed the way to double the farmers' income.

I am happy to understand that 'KVK TIMES' made a commendable impact among the KVKs in the zone and also received nationwide appreciation. The 'KVK TIMES' would serve as a ready reckoner for accessing important milestones achieved by the KVKs in the zone. My best wishes are with ICAR KVK Yadgir for editing and compiling 15-30 June 2023 issue of 'KVK TIMES'. My heartfelt compliments to the entire team for covering and compiling major events and activities of KVKs and highlighting the farmers across the KVKs. I am hopeful that with our in built strength and dedicated leadership at various levels KVKs will continue to attain further heights in future by addressing our future challenges of food and nutritional security.

I am grateful to Dr. M. Hanumanthappa, Vice Chancellor and Dr. M. K. Naik, Director of Extension, UAS, Raichur for guiding the KVKs of their jurisdiction for better serving of the farming community.

I congratulate Dr. Jaiprakash Narayan R.P., Senior Scientist and Head and team ICAR-Krishi Vigyan Kendra, Yadgir for bringing out this impactful issue of 'KVK TIMES'. It is my utmost pleasure to share the "KVK TIMES" compiled by ICAR-KVK Yadgir for the period of second fortnight of June 2023. I appreciate the entire team of ICAR-KVK Yadgir for their teamwork in bringing out this last issue of the first volume of 'KVK TIMES' of ICAR-ATARI Zone-XI, Bengaluru.

**Dr. V Venkatasubramanian**  
Director, ICAR ATARI, Zone XI, Bengaluru





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**ICAR-Krishi Vigyan Kendra, Kawadimatti (Yadgir)**

Lingsugur Road, Surpur-585 224. Yadgir, Karnataka State. India



**Dr. JAIPRAKASH NARAYAN R.P.**

Senior Scientist and Head,  
ICAR-KVK, Kawadimatti, Yadgir.

### **ACKNOWLEDGMENT**

Krishi Vigyan Kendras play a major role in uplifting the economic status by educating the farmers to take up better farming practices which in turn reduce their cost of cultivation and increase their income. KVKs work very hard to achieve these objectives by conducting various activities which are getting highlighted in the form of the success stories in the KVK times. It is indeed my great privilege to compile the December second fortnight edition of KVK times. My profound gratitude for the immense support extended for the compilation of this issue of KVK times by Dr. V. Venkatasubramanian, Director, ICAR-ATARI, Bengaluru. I also express deep sense of gratitude to, Dr. B.T. Rayudu, Principal Scientist, ATARI, Bengaluru, Dr. M. J. Chandre Gowda, Principal Scientist, ATARI, Bengaluru, Dr. D.V. Srinivasa Reddy, Principal Scientist, ATARI, Bengaluru, Dr. K. Thimmappa, Principal Scientist, ATARI, Bengaluru, Dr. D.V. Kolekar, Scientist, ATARI, Bengaluru and Dr. Mallikarjun B. Hanji, Chief Technical Officer, ATARI, Bengaluru for their constant support to our Krishi Vigyan Kendra in carrying out these mandate activities.

I am highly obliged to our beloved Hon'ble Vice Chancellor, Dr M. Hanumanthappa and Director of Extension, Dr. M. K. Naik and for their encouragement and immense support extended towards our Krishi Vigyan Kendra. I also thank our new Director of Extension, Dr. S. B. Goudappa for his continuous support and encouragement. It's my duty to whole heartedly thank all my fellow Scientists who have extended their never ending support and valuable suggestions for the betterment of the farming community. I thank Dr. Kotresh Prasad (Scientist) and Sri. Ashok S. Mahendrakar (Sr. Technical Officer) and my entire team of ICAR - Krishi Vigyan Kendra, Kawadimatti (Yadgir) including Scientists, technical and non-technical staff who have invested their valuable time in bringing out this issue of KVK times.

Date : 15-07-2023

Place : Kawadimatti

**Dr. JAIPRAKASH NARAYAN R.P.**





# Krishi Vigyan Kendra

## KAWADIMATTI (YADGIR)



ICAR-KVK, Yadgir was established in the year 2017 in Kawadimatti of Surpur Taluk under University of Agricultural Sciences, Raichur. KVK is having 50 acres of irrigated land, administrative building and farmer's hostel. It includes demonstration plots of vegetables, pigeon pea and fruit crops like guava, mango and sapota varieties. KVK also produces fruit crop seedlings and supplies to the farmers. It also have a slatted floored sheep unit having capacity for 200 sheep and a feed plant. The millet processing unit has been established for encouraging millet farmers. The KVK has developed demonstration plot of 16 fodder varieties and supplies root slips, fodder seeds and stem cuts of different varieties to farmers which helped to developed more than 1500 acres of fodder land in the district.



### Salient Achievements

KVK has formed two farmers producing organizations one on Millet farmers and other on Kenguri sheep farmers and giving technical support to 2 FPO's on horticulture crops. The market linkage and consultation for agri entrepreneurs will be provided.

### Field crops

- Introduction of improved varieties of paddy (GNV-1089) and promotion of direct seeding of rice (DSR) and drum seeder for irrigation water management and integrated crop management (ICM) practices. Promotion of baler for paddy straw management.
- Introduction of new greengram variety BGS-9 for disease resistance and use of yellow sticky traps and pulse-magic for higher greengram yield.
- Introduction of new pigeonpea varieties GRG-811 and GRG-152 for wilt and drought resistance and use of pheromone traps for pest management.
- Introduction of high yielding groundnut varieties K-1812 (KadiriLepakshi), DH256, DH-86, GPBD 4 and KDG 128.
- Promotion of solar operated nipping machine and use of chickpea-magic for increasing chickpea yield.
- Management of pink bollworm (PBW) through use of pheromone traps and management of cotton reddening through use of zinc and magnesium sulphate.







## Horticultural crops

- Introduction of new varieties/hybrids of chilli (UARchH-43, BCH-42 and Arka Haritha).
- Promotion of vegetable-special and microbial consortium *Pseudomonas fluorescens* for increase in chilli yield and integrated pest management in chillimurda complex.
- Introduction of new hybrids of tomato (Arka Rakshak and Arka Abhed) and integrated pest and disease management practices.
- Introduction of new varieties L-49 and Taiwan pink, integrated approaches for fruit fly and ICM in guava.
- Popularization of high yielding watermelon variety Arka Shama and use of plastic mulch for irrigation water and weed management.
- Promotion of fruit fly traps, pest and disease management, mango-special as micro-nutrient supplement, post-harvest management including safe ripening and marketing in mango.
- Introduction of new onion varieties (Bhima Kiran, Bhima Super and Bhima Shakti), ICM, and integrated pest/diseases management.



## Animal Husbandry

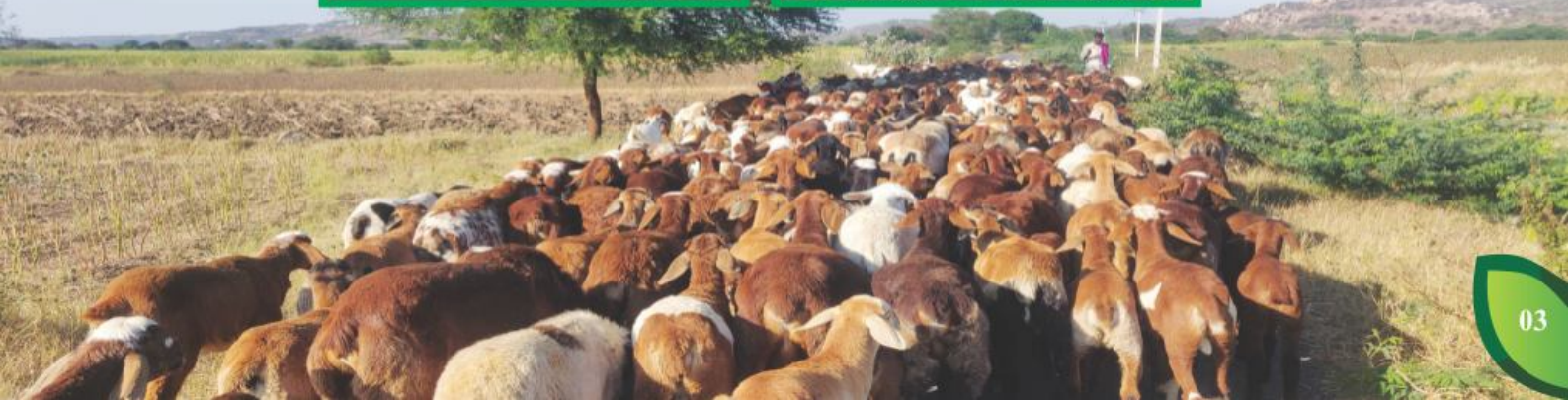
- Promotion of fodder crops cultivation with improved varieties like CoFS 29, 31 and hedge lucerne, *Sesbania grandiflora*, super napier and *Styloxanthus haemata*.
- Established more than 1500 acres of fodder cultivation in the district by providing quality fodder seeds and stem cuttings.
- Promotion of small scale silage making using plastic bags and drums for small ruminants.
- Technical support to semi-intensive and intensive sheep rearing continuous support and information regarding health management, feeding management and marketing, under the guidance of KVK Yadgir more than 200 stall fed sheep farms have been established.
- Introduction of Sirohi and Osmanabadi goat breeds in the district.
- Feed formulation and scientific feeding and health management of dairy buffaloes.
- Capacity development for the rural youths on scientific profitable sheep rearing, dairy farming and desi poultry birds rearing.
- Promotion and induction of Kenguri sheep rearing Farmers Producers Company at Yadgir benefiting 300 farmers.
- Conservation of Kenguri sheep through selective breeding
- Characterization and efforts towards registration of Javari cattle and Kakkera poultry breed of Yadgir district.







# DEMONSTRATION UNITS





## One District – One Product:

## Groundnut Processing & Value Addition in Yadgir

### Groundnut



Oil



Oil cake



peanut butter



Chikki



Masala seeds



Masala powder

### Barikara Umesh, Jaiprakash N RP and Kotresh C P

Yadgir district is the 2<sup>nd</sup> smallest district in the state spread over an area of 5234 sq. km constituting 8.46 percent area of Karnataka State. The average rainfall is 725 mm and the normal rainy days are 46 in a year. The temperature ranges between 42 Centigrade in summer to 26 in winter. Yadgir is identified as Aspirational District by NITI Ayoga, New Delhi. Groundnut is the major oilseed crop cultivating under 43358 ha covering 45 % of total cultivable land in Yadgir district with a production of 209200 quintals. Groundnut (*Arachis hypogaea L.*) is identified as One District One Product crop in Yadgir district.

### Opportunities in Processing & Value Addition of Groundnut in Yadgir District:

Groundnuts especially those produced in the developing countries have been used traditionally since the origin of humanity. It is rich in oil and protein and has a high-energy value. In most of the developing countries kernels are used for oil extraction, food and as an ingredient in confectionery products. Following extraction, the residual cake is processed largely for animal feed, but is also used for human consumption. Following is the process of production of various processed products from groundnut.

### Groundnut Oil:

Groundnuts are high in protein, fat, several vitamins, and minerals and oil comprises about 80% unsaturated fatty acids (UFA) and 20% saturated fatty acids (SFA). It minimizes risk of heart ailments, keeps blood pressure under control, prevents arthrities, works as antioxidants protect body burns toxins & free radicles. It also keeps a check on cholesterol levels.

### Peanut Butter:

Peanut butter is not only rich in vitamin A, vitamin E, protein and trace elements, but also contains a large number of single unsaturated fatty acids, which can reduce body's cholesterol levels and the risk of heart disease.

### Chikki:

Chikki is manufactured, as per regular conventional method in which peanut are first roasted and skin is peeled out by hand rubbing then concentrated sugar syrup is added in grounded peanuts. Then this mixture of sugar syrup and peanuts are placed in moulding tray when it is still hot small pieces are made with regular knife.

### Success Story:

Sri Mallikarjun Chetti a progressive farmer from Surpur Tq. of Yadgir district established a groundnut oil processing unit with a project cost of one crore and availed subsidy of 30 % under ODOP scheme. The total oil extraction capacity of the project is 5000 litres per day. He procures the raw groundnut from local and neighboring districts. The extracted groundnut oil is selling in a brand name of PEANUTPURE at local and nearby district headquarters. They also sell the oil cake for both animal feed and as soil amendments which is extra income other than oil.







# SUCCESS STORY

## Sustainable Income through Sheep Husbandry

*Kotresh Prasad, Jaiprakash Narayan, Umesh Barikar, Guruprasad*

Name	Basannagouda Patil
Activity	Stall fed sheep rearing
Capacity	564 (290 Adults + 274 lambs) (Selling at Rs. 320/Kg LW)
Other activity	Fodder enrichment (Rs. 12/Kg)
Agriculture activities	Paddy, Fodder (CoFS – 31) Seed Production (Groundnut)
Year of establishment	2019
Adoption by farmers	21 Nos
Organization	Kenguri FPO, Saidapur
Awards	Shresta Krishika, UASR - 2022
Employment generation	14 (Throughout the year)
Market linkage	FPO, Hyderabad market
Annual income (Rs.) 40,74,000	16,44,000 (Sheep) 4,80,000 (Fodder) 7,30,000 (Manure) 12,20,000 (Paddy)





## Rajankoluru Progressive Farmers FPO Inauguration

Rajankoluru FPO was inaugurated by Dr Ashok Dalwai (IAS), Dr. Sheelavantar, Honbl. Former Vice Chancellor of UAS Bengaluru, Honbl. Dr. M. Hanumanthappa, Vice Chancellor, UAS Raichur, Honbl. Dr. M.K. Naik, DE UAS Raichur, on 26.06.2023. The FPO is formed under the leadership of Dr. V.C. Patil, Ex. Dean in his village, technically supported by ICAR-KVK Yadgir and Dr. S.V. Patil foundation UAS, Dharwad. Dean's Dr. Nemichandrappa and Dr. Channabasavanna were also present during the inauguration. The exhibition was organized by ICAR-KVK Yadgir and Department of Food Processing, UAS Raichur on this occasion more than 300 farmers and school children's were benefitted. Dr. J.P. Narayan, SSH & Dr. Kotresh Prasad, Scientist of ICAR-KVK, Yadgir briefed about agriculture scenario of Yadgir Dist. to dignitaries & exhibited new technologies to the farmers.



**Dr. S.B. Goudappa**  
Director of Extension  
University of Agriculture Sciences, Raichur.

*Congratulations & Heartily Welcome*  
to  
**KVK's Family Sir**



### STAFF OF ICAR-KVK YADGIR



**Dr. Jaiprakash Narayan R P**  
Sr. Scientist & Head



**Dr. Kotresh Prasad C**  
Scientist (Animal Science)



**Dr. Raja R Chavan**  
Scientist (Plant Protection)



**Sri Ashok S Mahendrakar**  
Sr. Technical Officer (Computer)



**Mr. Amathyappa**  
Assistant



**Mr. Subash Reddy**  
Driver



**Mr. Parashuram**  
Messenger



**Mr. Hanumanthu**  
Agro. Met. Observer



**Mr. Manappa**  
Farm Labour





### Capacity building programme for the Tribal volunteers from Koraput District of Odisha

Three days skill training programme on value addition of Jackfruit, Banana, Ginger and Tamarind was conducted for selected tribal volunteers and staff of ORMAS, an NGO functioning with the support of District Administration of Koraput of Odisha from 26th to 28th June, 23 at the Agro-Processing Training cum Incubation Centre (APTIC) of KVK-Alappuzha. A total of 20 participants including the Chairman, CEO, Young Professional and other officials of ORMA and 14 designated master trainers attended the programme. Smt. Jissy George, SMS (Home Science) handled the training sessions in which more than 30 different products of jack fruit, banana, ginger and tamarind were demonstrated to the participants on hands-on-training. A business plan was prepared and provided with necessary information on the processing machineries for establishing their own enterprises. They were also facilitated to have linkage with successful entrepreneurs running organic shops in Kerala, for creating business opportunities for marketing dried ginger, tamarind and turmeric powder produced by them.

### Mini dal mill functional in the KVK

The mini dal mill procured under SCSP (2022-23) by the KVK is made functionally available to the farmers and entrepreneurs. Even though cultivation of pulse crops were promoted through different interventions by the KVK for the last few years, lack of the primary processing facility was deterring them to expand to larger areas. Hence the idea of establishing a mini dal mill as a custom hiring facility was mooted and implemented. Now the dal mill operational at KVK is utilized free of cost by SC farmers and for a nominal operational charge by all the other farmers.





### KVK Zonal Workshop:



Dr. D. N. Kambrekar, Senior Scientist and Head, KVK Bagalkote attended zonal workshop of KVK's on "Technologies for Strengthening Secondary Agriculture for Entrepreneurship Development" Zone-XI at GKVK campus, University of Agricultural Sciences, Bengaluru on 19 to 20th June 2023. Further from 21.06.2023 to 24.06.2023 participated in the national seminar on "Evolving Extension Science Towards Secondary Agriculture for Sustainable Development" jointly organized by UAS, Bengaluru, Indian Society of Agriculture Extension (ISEE), ICAR New Delhi and ATARI Bengaluru, explained about the activities of KVK Bagalkote, exhibited different products charts of different technologies to **Shri Thawar Chand Gehlot, Hon'ble Governor of Karnataka, Su. Shri Shobha Karandlaje, Union Minister of State for Agriculture and Farmer Welfare, Government of India, Dr. Udham Singh Goutam, Deputy Director General (Agricultural Extension), ICAR, New Delhi, Dr. V. Venkata subramanian, Director, ATARI, Bengaluru and other delegates of seminar.**

Visited NBAIR, Bengaluru and interacted with the Scientists on biological control of insects, pests in different crops. Also visited ICAR-IIHR Bengaluru and interacted with the Scientists and collected seeds of different vegetables and flower crops for conducting OFT and FLDs at KVK Bagalkote.

### Visit to RSK Kardi:



Dr. Dinesh Kumar S P, Scientist (Agronomy) visited RSK Karadi on 19.06.2023. He discussed with the staff of RSK regarding major problems faced by farmers under the RSK, also discussed regarding seed hardening with calcium chloride, sowing of pigeonpea and Bajra can be taken up to July end, contingency crop such as Navane Horse gram etc can be taken and for already sown crop sparying of 2% KCL will helpful for growing of the crops.

### Lecture on Striga Management in Sugarcane:



Dr. Dinesh Kumar S P, Scientist (Agronomy) delivered a lecture on "Striga management in Sugarcane" as a resource person in a training program organized by the Department of Agriculture, Badami at Khanpur SK on 21.06.2021.

### Field Visit to Striga Affected Sugarcane:







Striga affected Sugarcane crop problematic field visit at Chimannakatti and Khanapur S.K. villages of Kulagri (Hobli), Badami (Tq), Bagalkote (Dist.) on 21.06.2023 by Dr. Dinesh Kumar S P, Scientist (Agronomy) and Dr. Siddappa C Angadi, Sr. Technical Officer along with DDA, Dr. Kolekar, ADA and AOs of the Department of Agriculture, Badami.

**ICAR-KVK-Ballari**

**Micro Small and Medium Enterprises day Celebration at Ballari**



The Institute of Chartered Accountants of India Ballari chapter commemorated "Micro-, Small and Medium Enterprises Day" at BDAA Hall in Ballari on 27.06.2023. The objectives of celebrating MSME Day were highlighted by Shri. CA Pannaraj, Chairman of SIRC. Recognising the significance of micro, small and medium-sized firms in the advancement of the world economy was the goal of the seminar. The programme was launched by Shri. B Nagendra, Minister of Youth Empowerment, Sports, and Tribal Welfare and Ballari MLA Nara Bharath Reddy. Dr. Shilpa H., Scientist (Home Science), ICAR-KVK, Ballari spoke on "Agri-Produce Processing and Value addition" at the session. She emphasised on the possibilities for farmers in the Hyderabad-Karnataka region to process and add value to their farm products throughout her talk. Additionally, she discussed the significance that the government places on secondary agriculture and how processing and value addition may play a significant role in helping farmers double their income. The specialists also gave numerous more talks on topics like CFTRI technologies, schemes, banking and subsidies among others.

Along with the farmers and the Chartered accountants, MBA students from several colleges in Ballari, BSc agriculture students and staff from the Agriculture College Hagari, Ballari all participated.

**International Yoga Day:**



Striga affected Sugarcane crop problematic field visit at Chimannakatti and Khanapur S.K. villages of Kulagri (Hobli), Badami (Tq), Bagalkote (Dist.) on 21.06.2023 by Dr. Dinesh Kumar S P, Scientist (Agronomy) and Dr. Siddappa C Angadi, Sr. Technical Officer along with DDA, Dr. Kolekar, ADA and AOs of the Department of Agriculture, Badami.

**Tree Plantation campaign and Awareness programme on Weather based agriculture:**



Tree Plantation campaign and awareness programme on Weather based agriculture was conducted on 24.06.2023 to medical students S. Nijalingappa medical college Bagalkote. A total of 85 students participated and got benefit of this programme. Mr. Basavaraj Nagaleekar (SMS Agrometeorology) explained about Objectives of GKMS project, details about DAMU and Weather based Agro-advisories. Also explained importance of Automated weather station in agriculture and weather related mobile applications like Meghdhoot, Damini and Mausam.



## Valedictory of a “Fruit Processing Industry” training programme- ICAR KVK Belagavi-1



A Valedictory function of a Fruit industry training programme was held on 24th June 2023 at ICAR BIRDS Krishi Vigyan Kendra, Tukkanatti, Belagavi-1. The training programme which went on for ten days (20.3.2023 to 30.3.2023) was organised by ICAR Krishi Vigyan Kendra, Tukkanatti, Belagavi-1 in collaboration with Khadi and village commission industries, Hubballi.

Shri. R M Patil Chairman, ICAR Krishi Vigyan Kendra, Belagavi-1 delivered his presidential speech to the women to get benefit of this training programme and start their own business. Dr. Srinivas Rao Nune, Director, KVIC, Hubballi was chief guest and in his remarks, he advised to take benefit of the different training programmes and schemes available for SHGs in KVIC . He also encouraged the participants to start their small-scale processing industries like jam, jelly, pickle and candy making i.e., value added products to market their products by their own brand. Shri G Rajanna and shri. Ramdas Domewale, Asst. Directors 1& 2 KVIC-Hubballi also attended as guest for this programme; who given the detail guidelines regarding the utilization of fruit processing industry machineries. Dr. Suraj Koujalagi, Scientist (Animal Science) given the introductory remarks on Fruit processing industry training and take benefits of the technologies given by the KVK.

At the end of valedictory function, all the delegates distributed fruit processing industry machineries, certificate along with training manual to 10 SHGs (100 women). Few participants were shared their experience of the training.

During this programme, demonstrated the pulp extraction machine and pulverising machines and also exhibited the different value-added products prepared during the training programme.

The program was anchored by Shri. Parashuram Patil, Scientist (Horticulture), Rekha Karabhari, Scientist (Home Sci.) welcomed the guests. and Shri. M N Malawadi, Scientist (Agronomy) delivered the vote of thanks. Total 112 women and KVK officials were attended the programme and made the event successful.

## ICAR-KVK CHIKKABALLAPURA

### On campus training on importance of soil health and soil test based fertilizer management



Dr. Swathi B, Scientist (Plant pathology), ICAR-KVK, Chikkaballapura served as resource person in training programme on safe use of pesticides and seed treatment organized by Department of Agriculture, Sidlaghatta taluk at Sadali and Basetahalli villages on 27.06.2023 and explained about importance of seed treatment, harmful effects of unscientific pesticide spray on human health and safety measures to be followed while spraying the pesticides, Mr. Reddy Shekar, Agriculture officer explained about soil sampling procedure and importance of soil health.





**Visit of Dr. U.S. Gautam, Deputy Director General (Agril. Extension)**

Dr. U.S. Gautam, Deputy Director General (Agril. Extension), Indian Council of Agricultural Research, New Delhi and Dr.V. Venkatasubramanian, Director, ICAR-ATARI, Bengaluru, Zone-XI visited ICAR-KLE Krishi Vigyan Kendra, Mattikopp and appreciated the efforts of Dr. Prabhakar Koreji, Hon'ble Chairman, KLE Society, Belagavi for developing manganous infrastructure facilities at the KVK for rendering excellent service to the farming community and also expressed his gratitude for establishing Kisan Bazar outlet in the concept of One Stop Shop as a business model for providing on time inputs (seed, fertilizer, plant protection chemicals, micronutrients, bio agents, etc) to the farming community to carry out hassle free farm operations during peak season. The dignitaries along with Shri B.R. Patil, Chairman, KVK, Mattikopp visited Soil Testing Laboratory, Plant Health Clinic, museum, exhibition, seed processing unit cum godown, demo units at KVK instructional farm.

Dr.V. Venkatasubramanian, Director, ATARI, Bengaluru highlighted the progress made by the KVK in a short period in the service of farming community through technology transfer programmes and production of inputs which are not available elsewhere in the district.

During the visit, Hon'ble DDG (Agril. Extension) inaugurated mega farm pond with a storage of 2.4 crore liters, natural/ organic farming demonstration unit, implements purchased under Schedule Caste Sub Plan (SCSP) project and animal feed production unit at the campus and participated in the tree planting event.

An interactive session was arranged with progressive farmers and entrepreneurs developed by KVK through technology intervention programme for their livelihood security. After interacting with the farmers Hon'ble DDG (Agril. Extension) appreciated the efforts made by the KVK for upliftment of farming community by adopting innovative approaches like call to save crop, soil testing at the door step of the farmers, Soil fertility index and fertilizer recommendation charts – pasted at prominent locations of the villages, KVK mobile app to reach un-reach farmers. The massive seed production programme taken up by the KVK for production of seeds of cereals, pulses and oil seeds suitable for the district grabbed the special attention during the visit.

A technical bulletin on Technology Intervention – A Boon to the Farmers Income was also released. Hon'ble DDG (Agril. Extension) addressed the farmers and farm women gathering at KVK stating that the Scientists with the involvement of the farmers should come up with new initiatives/ technologies for climate change as farming sector is affected adversely due to aberrant weather

conditions. He emphasized the need for implementation of natural and organic farming, platform for marketing of value added products produced by the farmers/ entrepreneurs. In addition, he highlighted the various schemes of Government of India executed through KVKs for benefit of the farming community.

At the outset, Mrs. Sridevi B. Angadi, Senior Scientist & Head, KVK, Mattikopp (Belagavi-II) and KVK Scientists of different disciplines briefed about the impact created in the district by the intervention of the KVK. Farmers and Entrepreneurs exhibited the technologies transferred by the KVK for their livelihood security. Shri B.R. Patil, Chairman, KVK, Mattikopp gave the vote of thanks.







## Diagnostic Field Visit



Dr. S. S. Hiremath, Scientist (Plant Protection) along with Dr. S. S. Nooli, Scientist (Agronomy) and Dr. Arun Kumar, Scientist (Genetics & Plant Breeding) from UAS, Dharwad and officials from Department of Agriculture visited problematic plot on cotton at Chippalkatti and Kunnal village of Ramdurg taluk. During the visit Scientists observed Para wilt symptoms in plants with a large canopy and heavy boll load. Leaves of affected plants show wilt like drooping, become chlorotic and turn bronze or red followed by drying. Leaves loose turgidity and become wilted due to increased water loss. The visiting Scientists recommended the management practices like to provide adequate drainage to avoid water logging of the fields, apply 2% urea through foliar spray and copper oxychloride 25g/10 liters of water by drenching near the root zone of infested and healthy plants.

## On campus training programme



Two training programmes were conducted on vermicompost production technologies for self-help group members of Belagavi district. G.B. Vishwanath, Scientist (Agronomy) explained about different species of worms and their characteristics which are used for production of vermicompost. He highlighted about different models of vermicompost units which are affordable to farmers for construction at low cost. Method of filling vermicompost pit was also explained. He also emphasized on watering, enemies for the worms and their management, branding and marketing of the vermicompost and enriching vermicompost with bio-agents. He advised SHG members to start entrepreneur activity on vermicompost production as they have abundant farm waste. S.M. Warad, Scientist (Soil Science) explained about importance of soil sampling, methods of soil sampling, soil test based fertilizer recommendation, precautions to be taken during soil sampling.

## Celebration of International Yoga Day



International Yoga Day was celebrated at KVK campus involving staff of KVK and farm workers. The yoga session was led by Shri S. M. Warad, Scientist (Soil Science). During the session, he explained about the health benefits of the yoga in routine life. The participants performed various yogasanas like Bhastrika, Kapalabhati, Tribandha, Anuloma-Viloma, Omkara, Ujjain, Shavasana, etc. The programme was concluded with vote of thanks by Shri. G. B. Vishwanath, Scientist (Agronomy).



**BRIEF REPORT ON CELEBRATION OF PRE KHARIF TECHNICAL CAMPAIGN-2023**

University of Agricultural Sciences, Bangalore, ICAR-Krishi Vigyan Kendra, Bengaluru Rural District organized Pre-kharif Technical Campaign-2023 on 12.06.2023 at 10.30 AM at Hadonahalli. Dr. Sagar S. Pujar, Scientist (Extension), ICAR-Krishi Vigyan Kendra, Bengaluru Rural District, explained the objectives of the programme to create awareness on newly released varieties and technologies from University of Agricultural Sciences, Bangalore in his welcome address.

Dr. S.V. Suresha, Vice-Chancellor, University of Agricultural Sciences, Bangalore inaugurated the programme and expressed that in the recent past, agriculture has become very difficult due to various factors and climate change is a major one. In this context, in order to benefit the farmers, UAS, Bangalore organized Pre-kharif technical Campaign at all KVKs, ARS stations and colleges in 10 districts under its jurisdictions. The main purpose of the programme is to create awareness and made available of newly released crop varieties and technologies to the farmers as well as extension functionaries. In order to double the farmers income Hon'ble Vice-Chancellor stressed upon to encourage the secondary agricultural activities.

Smt. Lalitha Reddy, S.S., Joint Director of Agriculture, Karnataka State Department of Agriculture, Bengaluru District opined that in the current year seeds and fertilizer supply is adequate hence farmers will not face any issues in availing the inputs. Further, the farmer has to take up sowing and other preparatory activities immediately after receiving the rains. She also given a call to the farmers to enroll crops under the insurance scheme.

Dr. G.M. Nagaraju, Deputy Director, Department of Animal Husbandry and Veterinary Sciences, Bengaluru Rural District suggested farmers to adopt the Integrated Farming System for sustainable livelihood. He also appraised cultivation of improved varieties of fodder, sexed sorted semen in artificial insemination, vaccination for Lumpy skin and calfhood brucellosis disease and also appealed to enroll the animals under insurance scheme.

Sri Gunavantha, J., Deputy Director of Horticulture, Bengaluru Rural District explained the schemes available in Department of Horticulture. He expressed that farmers can contact the Senior Assistant Director of Horticulture in their respective taluks for availing the various schemes.



Shri. H. Appayanna, Progressive farmer and Ex- President, BAMUL expressed that farming community has to visit KVK and harness the benefit of KVK.

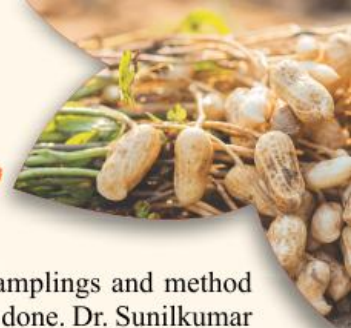
Dr. Hanumantharaya, B.G., Senior Scientist and Head, ICAR-Krishi Vigyan Kendra, Bengaluru Rural District in his presidential remarks elicited that KVK Scientists are always available to render service to the farming community at all the times.

As a part of the programme, technical and interaction session was organized. Dr. M. N. Thimmegowda, Professor and Head, AICRP- Agrometeorology, UAS, GKVK, Bangalore gave a lecture on Monsoon forecast and its effect on farming. Dr. Nethra N., Assistant Professor, AICRP- Seed technology Research, UAS, GKVK, Bangalore, spoke on the benefits of good seed and explained the importance of seed production. Dr. J. Venkategowda, Scientist (Agronomy), ICAR-Krishi Vigyan Kendra, Bengaluru Rural District, explained about the various pre-kharif activities to be carried out by the farmers in the major crops to maximize the yield and income. Dr. P. Veeranagappa, Scientist (Soil Science), ICAR-Krishi Vigyan Kendra, Bengaluru Rural District, spoke about the importance of green leaf manure crops in soil fertility and nutrient management. Dr. H.V. Ramegowda, Scientist (Crop Physiology), ICAR-Krishi Vigyan Kendra, Bengaluru Rural District explained the role and advantage of growth promoters in various crops. Dr. G. M. Dharshini, Scientist (Plant Protection), ICAR-Krishi Vigyan Kendra, Bengaluru Rural District conducted method demonstration on seed treatment in pulses and cereals. Smt. S. V. Meghana Scientist (Home Science), ICAR-Krishi Vigyan Kendra, Bengaluru Rural District also briefed about the processing and value addition of many crops.

Further, in order to promote the various FPOs, entrepreneurs, SHGs, innovative technologies and recently released varieties of UAS, Bangalore, an exhibition was also organized along with various line departments.

Totally 110 farmers and farm women, KVK and other line department staff were participated and got benefited from the programme.





## ICAR-KVK BIDAR

### World Environmental Day Celebration



As the largest global platform for environmental public outreach, World Environment Day has been celebrated by millions of people across the world since its establishment by the United Nations Environment Programme during the Stockholm Conference on the Human Environment in 1972. The UNEP has called for greater efforts to limit waste and transition to a circular economy, as well as releasing a Beat Plastic Pollution Practical Guide and encouraging social media posts under the hashtag Beat Plastic Pollution. The significance of World Environment Day 2023 is immense, from raising awareness about environmental issues to initiating transformational changes in environmental policies worldwide. As our planet's natural resources continue to dwindle, environmental approaches have become overly politicized, and impact-lacking plans have failed to mitigate the devastating effects of climate change, pushing our planet towards an imminent ecological collapse.

On the eve of World Environment Day 2022-23, ICAR - KVK Bidar organized capacity building programme. More than 500 mango SAPLINGS were planted at Karpakpalli village of Chittaguppa taluka of Bidar District. The event was organized in collaboration with Reliance Foundation. The Programme was inaugurated by planting a sampling by Dr. Praveen Jogalekar, Prof & Head (Pomology) COH, Bidar. In his address to the gathering he briefed about scientific

planting technologies of Mango samplings and method demonstration of planting was also done. Dr. Sunilkumar N M, Senior Scientist & Head, KVK Bidar explained about protection of Environment from pollution in particular the use of degradable plastics and also cloth bags to beat the plastic usage so that in coming days we should reduce the use of single use plastic. Also demonstrated the preparation of seed balls and 500 seed balls were prepared. The Seed balls were distributed among the participants to take up seeding in their open land or on bunds in commencing rainy season. The officials of reliance foundation, state coordinator Sri. Shivanand Matpathi & District Coordinator Sri. Ramchandra have witnessed the event.

## ICAR-KVK CHAMARAJANAGARA

### Value addition in fruits and vegetables



An Entrepreneurship Development Programme on Value addition of fruits and vegetables under ICAR-SC-SP programme was organized by Department of Horticulture, UAS, GKVK, Bangalore and conducted by ICAR-KVK, Chamarajanagara on 21st and 22nd June at KVK premises. Dr. C. Doreswamy, Special officer, College of Agriculture, Chamarajanagara inaugurated the programme and highlighted the benefits of SC-SP programme like accelerating access to education and he also emphasized on income generating activities for the farm women.



Dr. Chandrashekhar, S. Kallimani, Scientist (Sericulture) presided over the programme and explained the entrepreneurship development activities pertaining to silkworm cocoon crafts as a source of income. Dr. Vidya, Associate Professor (Horticulture), UAS, GKVK, Bangalore demonstrated the preparation of Lemon Pickle and Fruit Jam (pineapple, orange, banana and apple). Dr. Mohan Kumar, A.B, Scientist (Horticulture) explained the importance of post-harvest management of fruits and vegetables for reducing post-harvest losses in perishables and enhancing the nutritional security. Dr. Deepa, J., Scientist (Home Science) explained the importance of fruits and vegetables in daily diet and also the value addition of fruits and vegetables for family nutrition and enhanced income. In total, 25 farm women participated in the programme.



## ICAR-KVK CHIKKAMAGALURU

### Implementation of Front-line demonstration on introduction of Finger Millet variety (KMR-630) suitable for mechanical harvesting



I.C.A.R-Krishi Vigyan Kendra, Chikkamagaluru implemented Front Line demonstration (FLD) on introduction of Finger Millet variety (KMR-630) suitable for mechanical harvesting on 20.06.2023 at Jodilingadahalli village of Kadur taluk.

Dr. Ullasa, M.Y., Scientist (Agronomy), Krishi Vigyan Kendra, Chikkamagaluru briefed that finger millet is also an important food crop and it can cultivate in both irrigated and rainfed area and it can also be grown as an inter crop. Further explained about KMR-630 variety suitable for rainfed Kharif and late kharif seasons, short duration, high yielding variety and resistant to neck and blast disease and also tolerant to stem borer, aphids and grasshopper. It can also be grown in wide range of soils and also encouraged the farmers to grow this variety and disseminate it to other farming community.

During this FLD implementation, distributed Finger Millet seeds (KMR-630), Zinc Sulphate and Borax to the beneficiary farmers. Total 25 farmers participated and got benefit out of it.



## ICAR-KVK CHITRADURGA

### Entrepreneurship Development Programme on Millets



Entrepreneurship Development Programme (EDP) on Millets was conducted at Vanivilasapura, Hiriyr Taluk for "Srirama Atma Ahara Bhadratha Women Self Help Group (SHG)". The programme was inaugurated by Dr. Kumara. O., Senior Scientist and Head. During his inaugural speech he explained about the importance of millets for health benefits and their nutritional values.

Dr. Saraswathi J.M., Scientist (Home Science) shared the information regarding role of millets in managing diabetes and other metabolic disorders. KVK Chitradurga trained this SHG group for preparation of millets products such as Millets based chakkuli, mixture, laddu, malt, instant dosa powder, ragi malt, roties, papad etc. These products are sold at melas and other outlets. Dr. Preethi., Scientist (Agri. Extension) and Dr. Mahantesh .P. S., Scientist (Horticulture) were present in the programme.



### Participation in KVKs Annual Zonal Workshop



Su. Shri. Shobha Karandlaje, Hon'ble Union Minister of State for Agriculture and Farmers Welfare visited the KVK, Dakshina Kannada exhibition stall at ISEE National Seminar on Evolving Extension Science Towards Secondary Agriculture for Sustainable Development on 22-24, June, 2023 at University of Agricultural Sciences, Bangalore.

### Farmer-Scientist Interaction Programme



Bharatiya Kisan Sangha, Moodbidre in collaboration Department of Horticulture organized farmer-scientist interaction on horticultural crops for Kharif season at Shyamali Enclave auditorium Moodbidre. Shree Narayana Swami inaugurated the programme and Shree UmanathaKotian MLA Moodabidri constituency participated as chief guest. Dr Kedarnath scientist (Plant Protection) ICAR KVK (D.K) Mangaluru participated as a resource person in the programme and discussed about the improved cultivation practices in horticulture crops. A total of 266 farmers benefited from the programme.

### Participated in the ISEE-National Seminar- 2023



Indian Society of Extension Education organized National Seminar-2023 in collaboration with the UAS (B) at GKVK campus, Bengaluru from 22-24th. In the seminar ICAR- NGO KVK's of Karnataka (Davanagere, Belagavi I & II, Gadag, Mysuru) showcased exhibitionstall. The stall was inaugurated by Su. Shri. Shobha Karandlaje, Minister for Agriculture and Farmers' Welfare, Govt. of India. Value added products of Millet, Banana, Sugarcanewere displayed in the stall. Dr.Devaraja T. N. Senior Scientist and Head explained speciality of value added products to delegates. Dr. Ashok M. Dalwai, CEO, National Rainfed Area Authority, MoA and Farmers Welfare, GOI, Hon'ble Dr. S. V. Suresha Vice

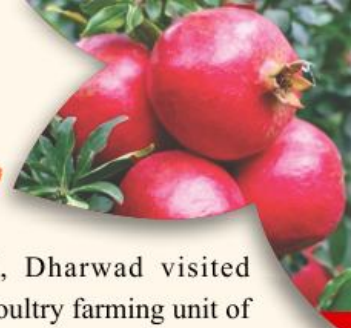
chancellor of UAS (B), Hon'ble DDG ICAR Dr. U. S. Goutham, Hon'ble ICAR-ATARI Director Zone XI Dr. Venkatasubramanian and other delegates visited stall. ICAR-NGO KVK's awarded "Best exhibition stall award" during the seminar. Mr. Mallikarjun B. O. SMS (Agronomy) awarded with best poster presentation and Dr.Avinash T. G. SMS (Plant Protection) awarded with best oral presentation award in the seminar.

### Training and Field visit to DAESI students



ICAR-Taralabalu KVK Davanagere conducted training and field visit to Input dealers of Chitradurga. Mr.Mallikarjun B. O. SMS (Agronomy) delivered lecture on management practices of sown crops and production technology of minor millets. Took participants to Demo units of KVK and explained their significance.





## ICAR-KVK DHARWAD

### Training on Entrepreneurship activities



ICAR-Krishi Vigyan Kendra, Dharwad has organized training programme on Entrepreneurship activities to farm women on 16.06.2023. Dr. Jayashree Pattar, Scientist (Animal Science) explained about the incubation and hatching of chicks as an entrepreneurial activity. Also conducted method demonstration on incubation of fertile eggs and hatching operations. Dr. M. S. Biradar, Senior Scientist and Head, KVK, Dharwad explained about the mandates of KVK and facilities available for farming community. He also explained about the nutri farm through terrace gardening for nutritional security of family. About 22 farm women participated in the training.

### Field visit to Integrated sheep/goat, dairy cum poultry farming unit



Scientists of ICAR-KVK, Dharwad visited Integrated sheep/goat, dairy cum poultry farming unit of Shri Atmanand Wali at Pudukalakatti village on 19.06.2023. Shri Atmanand has participated in the Sheep and goat farming training programme organized by ICAR-KVK, Dharwad. Under regular visit and consultancy by Dr. Jayashree Pattar, Scientist (Animal Science), the farmer established Integrated sheep/goat, dairy cum poultry farming unit at his farm and getting sustained income from all these units. Presently he is maintaining 20 Tellichery goat, 50 Deccani and 30 Kenguri sheep, 4 HF Cross breed cow and 50 local poultry birds.

## ICAR-KVK ERNAKULAM

### Aerial spray of micronutrients demonstrated in Paddy fields



The Krishi Vigyan Kendra (Ernakulam) has demonstrated aerial spraying of micro-nutrient mixtures in paddy fields near Karumalloor, Ernakulam. The unmanned aerial vehicle (UAV) employed for aerial spraying covered upto 2 acres in an hour, whereas manual spraying covers only 0.24 acres in one hour. The quantity of active ingredient required can also be reduced from 4 kg to 500 gm in one acre paddy field when sprayed using UVA. The aerial spray requires 20 litre water per acre, whereas manual spray requires 4 times more water. Lower operational cost of Rs.1250/- per ha comparing to Rs.1665/- per ha for manual spraying is a notable advantage. Aerial spraying of nutrients results higher absorption levels through the leaves in high acidic soils where intake through roots can be lower.





## ICAR-KVK GADAG



### Visit of Director, ICAR-ATARI, Bengaluru to ICAR-KVK, Gadag

Dr. Venkatasubramanian, Director, ICAR-ATARI, Bengaluru visited ICAR - K.H.Patil Krishi Vigyan Kendra, Hulkoti on 12th & 13th June, 2023 to review the activities of KVK.

On 12-06-2023, field visit was organized to Cashew orchard at Shagoti village and interaction with Cashew Growers was held. Director was overwhelmed with the interest and progress shown by farmers in area expansion of Cashew cultivation in Gadag district. Then, a visit was organized to Solar Operated Cold Storage Unit established by Hulkoti Horticulture Farmers Producers Organisation. Later he visited FPO, Hulkoti and interacted with FPO Executives. He expressed happiness for the support and facilitation rendered by KVK in mainstreaming FPO.

Later, the visit was made to Successful Women Entrepreneurs units namely Smt. Jayamma Benni at Hulkoti village and Smt. Mangala Neelagund at Mulagund village. Director felt happy about the efforts of KVK in promotion and excelling of entrepreneurs in hand holding and marketing of products. Further, a visit was arranged to dairy, sheep and goat units established by entrepreneurs with the technical support of KVK.

On 13-06-2023, Director visited Dairy Enterprise and interacted with Shri Raghavendra at Asundi village. Then, he visited Chilli-Food Processing Entrepreneur's Unit namely Smt. Shyamala Karur at Binkadakatti village and Director interacted with entrepreneur and felt happy that, very good progress has been made under ODOP-Chilli Crop promoted by ICAR-KVK, Gadag.

Later, Director was welcomed by NICRA farmers at Shigatarayanakeri village of Mundaragi block. He interacted with NICRA farmers and took complete feedback on impact and effectiveness of NICRA Project in their livelihood enhancement. Later, field visits to CHC, Orchards, Community Ponds, Borewell recharging structures, Check dams, Sheep Enterprise, Dryland Horticulture, Perennial grass planted fields, etc. in NICRA village were made. Later in the afternoon, interaction with DAESI trainees was arranged and Director collected their opinion on on-going DAESI training. The visit to KVK's Community Radio Station and demonstration units mainly Dairy Unit, Sheep and Goat Unit, Vermicompost unit, Oil and Millet Processing Unit, Food Processing Unit, Ethnic Food Café and KVK Farm were also arranged. He expressed happiness for the works carried out in effective transfer of technologies and improving the livelihood of Gadag district farmers. He also gave suggestions to KVK Staff for further improvement in ToT.





## ICAR-KVK HASSAN

### World Milk Day Celebration



World Milk Day was celebrated at Hassan by ICAR-KVK and the self-employment training institute of Canara Bank. The program was inaugurated by Mr. Krishnamurthy, senior development manager at Canara Bank. In his inaugural speech, he stated that milk is a nutritious food and drinking milk is beneficial to everyone. He added that the dairy industry is responsible for raising rural families' economic status.

The program was organized by Dr. Shivashankar M., Scientist (Home Science) at KVK Hassan. During his opening remarks, he informed the farmers about the white revolution in India, dairy production over the past 50 years and the value addition of milk and milk products. He also said that milk and milk products were abundant, but fresh milk and milk products are still hard to get to for consumers. Therefore, farmers still have the opportunity to get direct benefit from local milk and milk products sales in rural areas.

The program was presided over by Mr. Shuchith Kumar, Director, Canara bank self-employment training Institute, Hassan and during his presidential remarks he stated that milk is essential for everyone and that various value-added products like butter, ghee, panner, etc., were produced and sold from milk would make consumers receive nutrient-dense and healthy food.

Mr. Pawankumar, Training Coordinator, Canara bank self-employment training institute, Hassan has addressed the gathering that women farmers play a bigger role in milk production than men farmers do, so the money from milk production should go to women farmers so they can earn their livelihood.

Dr. Sanketh, C. V., Scientist (Agril. Extension), KVK Hassan has addressed the gathering regarding the expansion of India's dairy industry and Dr. Verghese Kurien's role in the country's white revolution. 51 farm and farmwomen from various parts of the district participated in the programme.

## ICAR-KVK HAVERI

### Awareness Programme on Millets and Nutri Garden

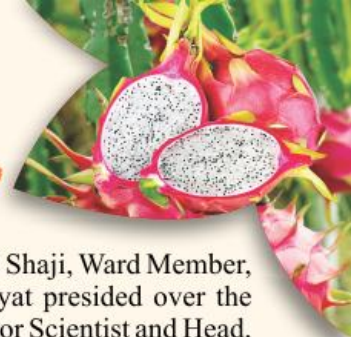


KVK Haveri organized an awareness programme on millets on the Eve of International Year of Millets 2023 and the importance of nutri garden at Arelakmapur village of Hangal Taluk on 22.06.2023. Dr. Shivamurthy Scientist (Agronomist) briefed the importance of cultivation practices of millets. Mrs. Vidya V Sangannavar, Scientist (Home Science) narrated that nutri garden aids increasing nutritional diversity at the household level and the importance of organic farming for nutri garden by utilizing the kitchen trash, backyard poultry and dairy for soil nutrition enrichment. She also highlighted the objectives and benefits of nutri garden and also created awareness on millet based value added products like vermicelli, pasta, bakery, fermented and ready to cook products available in the market. During this occasion inspired the farm women to participate in millet recipe contest in the village.

### Demonstration on Value Addition of Proso Millet







KVK Haveri conducted On-campus training programme cum demonstration on value addition of proso millet in collaboration of NEEDS NGO, Ranebennur on the eve of International Year of Millets 2023. Mrs. Vidya V Sangannavar, Scientist (Home Science) conducted demonstration of cooking of proso millet idli, dosa and payasa and briefed on nutrition aspect and health benefits of millets. Millets are rich source of dietary fibre which lowers bad cholesterol and aids digestion inturn reduces heart related problems and constipation. Since millets are gluten free and low glycemic index which helps in regulating sugar level in blood. Iron, folic acid, antioxidants which helps to prevent cancer and potassium regulates blood pressure. Millets are also used in preparation of payasa, uppama, pulavetc, millets flour in making of chakli, nippattu, khakra, health mix, other bakery products etc and millets milk used in preparation of icecreams. Millet value added products have high demand in the market in present scenario creates an opportunity for entrepreneur development.

## ICAR-KVK IDUKKI

**KVK Idukki implemented Tribal Sub Plan project funded by ICAR-Indian Institute of Rice Research, Hyderabad, entitled: “Ensuring Sustainable Livelihood Security of Scheduled Tribe Rice Farmers at Korangatti Village in Adimali Block of Idukki District”**

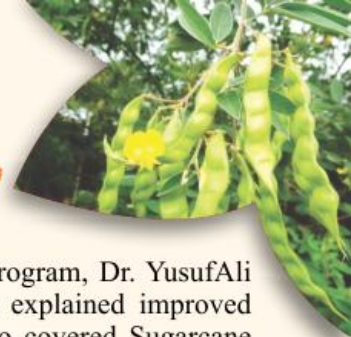


Tribal Sub Plan Scheme “Ensuring Sustainable Livelihood Security of Scheduled Tribe Rice Farmers in Adimali Block of Idukki District” jointly implemented by Krishi Vigyan Kendra, Idukki and Adimali Grama Panchayat with the funding of ICAR- Indian Rice Research Centre, Hyderabad was conducted at Adimali –

Korangatti Panchayat Hall. Mr. C D Shaji, Ward Member, 8th Ward, Adimali Grama Panchayat presided over the programme. Dr. R Marimuthu, Senior Scientist and Head, KVK Idukki, welcomed the delegates and Scheduled Tribe farmers who participated in the function. The program was inaugurated by P Muthuraman, (Principal Scientist and Head, Training and Transfer of Technology Division, ICAR- Indian Institute of Rice Research, Hyderabad. In his inaugural address he deliberated on the importance maintaining traditional varieties of Paddy by the Scheduled Tribal Communities as a part of Germplasm conservation. Dr. P Jeyakumar, (Principal Scientist, Training and Transfer of Technology Division, ICAR- Indian Institute of Rice Research, Hyderabad) delivered the keynote address. He pointed out the techniques to ensure the livelihood security of paddy farmers and given suggesstions to farmers to control stem borer and leaf folder attack in Paddy.

Dr. Brajendra, (Principal Scientist, Soil Science Division), ICAR- Indian Institute of Rice Research, Hyderabad, explained the soil sampling techniques and demonstared the soil test using IIRR developed mini soil kit. According to him soil testing is the most important practise to manage fertiliser application and crop production. Without soil testing, it is very difficult to ensure the right application of fertilisers for the crop and get the optimum yield. Also soil testing is important to provide a recommendation on the amount of manure and fertilizer based on soil test value and according to crop and to avoid excess use of fertilizer and to ensure environmental safety. Special adressess were delivered by Shri. Shitanshu Kumar, Chief Administrative Officer, ICAR- Indian Institute of Rice Research, Hyderabad and Mrs. Sudha Nair, Assistant Administrative Officer, ICAR-Indian Institute of Rice Research, Hyderabad. Smt. Ashly George, Assistant Director of Agriculture, Smt Siji, Agriculture Officer, Adimali, felicitated the programme. After the inaugural session, technical products on management in paddy cultivation namely Lime, Pseudomonas, Azospirillum, Azolla, Phosphobacteria, IIRI- Leaf Color Chart, KAU Sampoorana Micronutrient Fertilizer, Dhaincha Seeds, Tricho Card and Knapsack Sprayers were distributed to the ST farmers. Mr. Sudhakar Soundarajan, Subject Matter Specialist (Plant Protection) and Mrs. Manju Jincy Varghese, Subject Matter Specialist (Soil Science), Krishi Vigyan Kendra, Idukki conducted the classes on Integrated Fertilizers and Pest Control Methods in Rice Cultivation. The scheme was implemented for 100 selected Scheduled Tribe paddy farmers. The project was implemented by the Project coordination Principal Investigator Dr. R Marimuthu, Senior Scientist and Head, KVK Idukki and Co-Investigator Ms. Preethu K Paul, SMS Agricultural Extension, KVK Idukki.





## Digital Technology for Climate Smart Agriculture:



One day training programme on Digital technology for climate smart agriculture in collaboration with Mahindra Agri institute, Mumbai at ICAR-Krishi Vigyan Kendra, Kalaburagi-I campus on 16.06.2023. All India Mahindra Krishi Head Smt. Jiteesha Selark inaugurated the programme and gave valuable suggestions to the farmers regarding different facilities available for the farmers for the welfare of the farming community also highlighted the available smart technologies, tractor and farm implements uses in modern agriculture.

Mahindra Krishi, Zonal Head (South) division Sri. Ramesh Rathore gave the lecture on climate change, soil types, agronomic practices and technology gaps in south Indian agriculture situation. Dr. Raju G. Teggelli, Senior Scientist and Head given presidential remarks and suggest to farmers to adopt new technologies released by agricultural universities for dryland agriculture for the better yield and income. Sri. Pramod Panth, Area Manager, Mahindra Kalaburagi gave audio visual training to the farmers on crop management and crop safety. In this programme KVK Scientists, staffs and more than 45 farmers were participated.

## Training Programme on Improved Agronomic Practices for doubling of Farmers Income



The ICAR- Krishi Vigyan Kendra, Kalaburagi-I and Karnataka State council of Science and Technology, Regional Centre, Kalaburagi jointly organized one day training programme on Improved Agronomic Practices for doubling of Farmers Income at Gobbur (B) village Tq.

Afzalpur on 25.06.2023. In this program, Dr. Yusuf Ali Nimbaragi, Scientist (Agronomy) explained improved agronomic practices of pulses also covered Sugarcane and cotton crops. Dr. Zaheer Ahamed, Scientist (Pathology) explained Integrated Pest and Disease Management in Pulses. The presidential address was given by Dr. M. S. Jogad, Professor and President of KSCST, Kalaburagi suggested to the farmers to take the proper guidance from the scientists for improving yield as well as doubling of the farmer's income.

More than 50 farmers and KSDA staff are participated in the programme. Later, farmers and scientist interaction was arranged and released the posters of redgram wilt and management of pink bollworm in cotton. Vote of thanked by Anilkumar Basme, Technical Officer, KSCST, Kalaburagi.

## Exposure Visit to KVK under Solid Waste Management Training



Farmwomen are from MGNAREGA, Zilla Panchayat, Kalaburagi visited to ICAR-Krishi Vigyan Kendra, Kalaburagi-I on 28.06.2023 under the five days training programme on Solid Waste Management. Dr. Zaheer Ahamed, Scientist (Pathology) gathering and welcomed the participants and farmwomen's play a significant role in Agriculture and solid waste management in this way to protect our environment from various pollutants and maintain the environment clean and healthy. Dr. Shreenivas B V, Scientist (Soil Science) emphasised about the importance of soil and water testing and soil and water conservation in Agriculture also visited to the laboratory and explained about the soil health management. The nature and extent of women involvement in agriculture and environment varies greatly from region to region. Rural women perform numerous labour intensive jobs such as vermicompost preparation; weeding, hoeing, Kitchen garden, grass cutting, picking, Redgram and cotton stick collection for organic recycling and seed production. Mr. Sanjeev, Project Assistant, NRLM, Aurad (B) and 30 farm women of Kalaburagi district were participated and got benefitted from the programme.





## Success Story:

### A Journey of a Successful Farm Woman In Integrated Farming System

Smt. Sayamma w/o Tukaram Rekulagi is a 49 years old enthusiastic woman farmer from small village Ratakal Kalagi taluka, Kalaburagi district owning a plot of 2 acres 5 guntas in which she was having many components like field crops, horticulture crops, twenty goats and Sheeps and 50 desi birds in her mango garden. But the overall income was very poor as the holding was not properly utilized and the units were not integrated. As a part of OFT and FLD programme scientist from KVK Kalaburagi-I visited her farm, it was realized that the plot was suitable for integrated farming system with compatible and economic components and advised to follow the IPDM to manage the crops. She was also adopted all new scientific technologies and succeed.

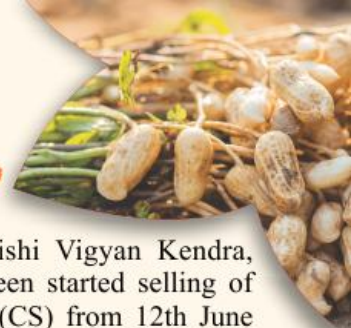
**Training and motivation support:** Smt.Sayamma approaches to ICAR-Krishi Vigyan Kendra, Kalaburagi-I, as per the scientists support, guidance, training and demonstration she implemented components like goatry, poultry, field and horticulture crops like, mango, guava, jamun and used new technologies viz. spraying mango special in mango, high density planting in guava, new technologies in red gram like used improved varieties, seed treatment, usage of pulse magic, integrated pest and disease management and direct marketing etc., and she started irrigation system using open well through generated due to non-availability of electricity and solar lamps used in field and home she is also preparing brooms using locally available materials.

Smt. Sayamma and her son Narsappa, training and motivational support was taken from ICAR-KVK, Kalaburagi-I and adopted in their field. she cultivated 400 dasheri, mallika and beneshaan varieties of mango, 250 Allahabad safed variety of guava and 10 local jamun trees and field crops like red gram and jowar as a intercrops in an area of 2 acre 5 gunta (7 years old) and earned a net income of rupees 3 lakhs, from poultry and goatry she earned with profit of Rs. 55,000/- from making broom she earned a net income of Rs. 75,000/- per annum. All the sources she earned Rs. 4 lakhs 30 thousand annual net incomes in 2020-21 which is 40% more than the previous year.

**Awards:**She received the "Best farm women-2020-21" state level award from Government of Karnataka and leading newspaper Vijaya Karnataka daily's 'Best farmers Award' held at Bengaluru Karnataka on January-2021 and she also conferred with 'Best farm women district level award' by the Vijaya Karnataka daily on the occasion of farmer's day. Crops and animal component leads for sustainable farming with good income. Influenced by her nearly 25 farmers of neighbouring villages have been converted in to Integrated Farming System.







## ICAR-KVK KALABURGI II

### Guest lecture on improved production technological practices of vegetable crops at DATC, Kotnoor, Kalaburgi.



Dr. Chethan T, Scientist (Horticulture) ICAR-KVK, Kalaburgi-II (Raddewadgi) delivered guest lecture on improved production technological practices of vegetable crops to DAESI Participants of DATC, Kotnoor, Kalaburgi on 17th June 2023. During the lecture covered the following topics.

- Importance of horticulture
- Utilization of locally available resources
- Selection of crops according to the seasons
- Integrated nutrient management in vegetable crops
- Integrated Pest and Disease management in vegetable crops
- Post harvest handling of vegetable crops for better life and income

There were 42 participants benefited from the centers.



### Selling of Pigeonpea and Greengram seeds (C/S) under Seed hub Project



In the premises of ICAR-Krishi Vigyan Kendra, Kalaburgi-II (Raddewadgi) has been started selling of Pigeonpea and Greengram seeds (CS) from 12th June 2023 to the KVK jurisdiction and neighboring district farmers. There is good response and demand for the GRG-811 and GRG-152 in Pigeonpea varieties and BGS-9 in Greengram variety.

In the previous year, there was huge crop loss about 70% in the district by complex cause like Fusarium wilt, dry root rot and wet root rot. To mitigate this problem this year cumulatively decided with KSDA, Kalaburgi to sell the varieties of Pigeonpea which are tolerant to wilt and root rot under irrigated conditions.

In this direction GRG-152 and GRG-811 are tolerant to wilt and they will come up well in irrigated conditions. Till today we sold GRG-811-121 qtls, GRG-152 129 qtls and 3.35 qtls Greengram (BGS-9) and about 825 farmers were benefited.



## ICAR-KVK KANNUR

### Capacity Building for Agri-Task Force



KVK Kannur organized a capacity building programme on 15th June 2023 in Chengalayi village to demonstrate the use of garden tiller in the coconut garden as part of NICRA project. The inaugural address was given by Dr. Jayaraj P., Programme Co-ordinator, KVK Kannur, highlighting the importance of tilling the interspaces of coconut palms as it is an efficient method for catching rainwater, conserving soil moisture, improving soil aeration and nutrient uptake. Mrs. Anu V, Assistant Professor (Agronomy), KVK Kannur remarked that mechanization has a pivotal role in the agricultural production as it saves the time and lessens the burden of labour shortage.

Mr. A. Jayakrishnan, a representative (KAICO) from The Kerala Agro Industries Corporation guided the use of garden tiller. Three members of the task force, Mr. Manoj C. K., Mrs. Anitha Babu, and Mrs. Latha K. have attended the programme. The demonstration was conducted in the view that the capacity building of Agri Task force in using such machineries would create more opportunities as well as famers would be able to avail the services at affordable rates.



### District Level Seminar and Exhibition on Jackfruit under ODOP



A District level Seminar and Exhibition was organized by ICAR-KVK, CPCRI, Kasaragod at Chowtara Chavadi, Meeyapadavu, Meenja Panchayath on 27.06.2023, in context with the One District One Product (ODOP) initiative on Jackfruit for Kasaragod district. The programme was intended to create awareness on varieties suitable for different purpose and importance and possibilities of Jackfruit dishes in the daily diet.

Smt.Sundari R. Shetty, President, Meenja Panchayath presided and Dr.T.S. Manoj Kumar, Head, KVK, CPCRI, Kasaragod welcomed the gathering the programme. Dr. K.B Hebbar, Director-CPCRI, Kasaragod inaugurated the programme and he mentioned the importance of Jackfruit as a viable commercial crop for value addition for the district and its importance in daily diet. Dr. D. C Chowta, Progressive farmer inaugurated the Jackfruit exhibition. The exhibition included display of more than 30 selective jackfruit varieties collected from Shri. Muliya Sharma, Progressive farmers from “Halasu Snehi Koota”, various Jackfruit value added products from five successful entrepreneurs, Jackfruit grafts, Jackfruit processing implements and equipments etc. During the programme value added products from two entrepreneurs trained from ICAR-KVK, Kasaragod with the brand name “HITAHARA “ Organic Farm products, Kudlu and ZORRA'S Food Products ,Uduma, were released by the Director, CPCRI, Kasaragod. Smt.Arjitha, ADA, Manjeshwar Block delivered the felicitations.

Two technical sessions were organized on the topic “Jackfruit and its Biodiversity” by Sri. Gabriel Vegas (Retd. Forest Officer) and “Jackfruit varieties and value addition” by Shri V K Sharma, Progressive farmer, Halasu Snehi Koota respectively. A complete Jackfruit based food menu was arranged to highlight the diversity of its use and its significance as a healthy food suggestions. The technical session was followed by an experience sharing of five successful entrepreneurs and an introduction to propagation of jackfruit plants. More than 200 farmers/farm women participated in the programme.

### ICAR-KVK KODAGU

#### Frontline demonstration on Management of virus affected black pepper plantations for sustaining the yield



Black Pepper is an important intercrop of Kodagu District and the crop is suffering from various diseases like Foot rot, yellowing due to nematodes and unproductive of black pepper vines in many plantations due to infections of virus causing huge loss for the farmers. Keeping this in view ICAR-KVK,Kodagu implemented the FLD on Management of virus affected black pepper plantations for sustaining the yield at Konanakatte village of Ponnampet Taluk. Dr.Veerendra Kumar K.V,SMS (Plant Protection) demonstrated the technology package with spraying of Sea weed extract 1.0 ml/l during June, drenching of Arka Microbial Consortium 20 gm per lit of water, spraying of Black Pepper special 5.0 ml/l in 10 farmers field. This Integrated demonstration of proven technology will educate and create awareness among farmers to manage unproductive of black pepper vines to regain its original yielding potential.





**On campus capacity development programme on "Improved cultivation practices in mulberry and bivoltine silkworm management in Kharif season"**



KVK Kolar organized capacity development programme on "Improved cultivation practices in mulberry and bivoltine silkworm management in Kharif season" in collaboration with Karnataka State Sericulture Research and Development Institute, Bangalore and Department of Sericulture, Kolar. Dr. Shivandha V Hongal, SS&H, KVK Kolar presided over the programme. Dr. H. Thimmareddy, Dr. Jyothi N.B., Scientists from KSSRDI Bangalore, Dr. J. B. Narendrakumar, Scientist, REC, Madivala & Dr. Anilkumar S., Scientist (Soil Science) KVK Kolar were participated as resource persons. Shri T.M. Kalappa, Deputy Director of Sericulture, ZP, Kolar, Shri S.N. Srinivas, Deputy Director of Sericulture, Government Cocoon Market, Kolar & Shri M. Manjunath, Assistant Director of Sericulture, Kolar Division were participated as chief guests. Around 65 sericulture farmers and 10 Extension functionaries from Department of Sericulture, Kolar participated and benefited from the programme.

**Orientation training programme on National Livestock Mission (NLM) Scheme**



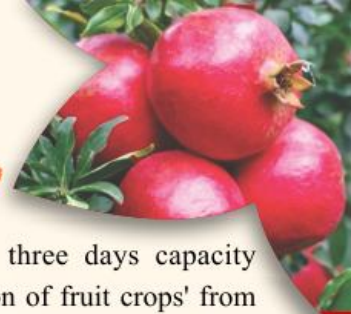
ICAR-KVK Kolar organized FPO'S /Progressive Farmers/ Dealers orientation training Programme on National Livestock Mission (NLM) Scheme in Association with National Seed Corporation Ltd at KVK Kolar on 27.06.2023. 60 farmers, dealers, FPO Directors benefited by the program.

**World Environment Day Celebration 2023**



Krishi Vigyan Kendra, Kollam celebrated World Environment Day on June 5, 2023. The theme for World Environment Day focussed on solutions to plastic pollution under the campaign #Beat Plastic Pollution. World Environmental Day celebrations began with the inaugural session followed by pledge. Two capacity building programmes were conducted as part of celebration. The first session of capacity building programme was handled by Dr. Saroj Kumar V, Assistant Professor (Horticulture) on the topic "Scientific approach towards eco-friendly vegetable cultivation" which was followed by a session on "IPDM Strategy to tackle pests & diseases and Ecological Engineering" by Dr.Lekha M, Assistant Professor (Plant Protection), KVK, Kollam. Tree saplings were distributed to the farmers aiming to raise awareness about environmental conservation. As part of the program, saplings of various fruit varieties were planted, contributing to the environmental cause. The program concluded with heartfelt appreciation from the participating farmers, acknowledging the valuable efforts of KVK Kollam in implementing impactful programs for the benefit of the environment. A total of 62 farmers attended the programme.





### Millet Training Programme



Millets are the only crop that will address important issues in the future like food, feed, fuel, malnutrition, health, and Climate Change. Millets are the storehouse of nutrition and now they are known as Nutri-Cereals. Millets are unique in terms of nutrients and health benefits. With this view ICAR Krishi Vigyan Kendra, Koppal organised training programmes on nutritional importance and value addition to millets in koppal taluk on 19.6.2023. Programme was inaugurated by elder self-help group member Smt. Laxmi Bai in the programme and explained uses of millet in daily life. Dr. Kavitha Y Ullikashi Scientist (Home Science) explained about nutritional importance and value addition of foxtail, brown top and little millets. Dr. Jyothi .R. Scientist (Horticulture) explained benefit of millet cultivation. Smt Geeta SHG member explained about different traditional recipes of millet prepared in northern Karnataka. More than 45 SHG members were benefitted the programme. Little millet payasa and foxtail millet upma were prepared and served to trainees.

### Capacity building programme on value addition of fruit crops



KVK Kottayam organised a three days capacity building training on 'value addition of fruit crops' from 22.06.2023 to 24.06.2023 for the 'Kadanthery FPO' members of Kaduthuruthy Block Level Agricultural Knowledge Centre. Seventeen members of FPO including the board members participated in the training programme. Technology for preparation of minimal and intermediate processing of fruits, preparation of fruit beverages (squash, Syrup, crush, RTS), concentrated products (jam, jelly, varattu), dehydrated products (chunks, tutti fruttii, bar), pickled products, frozen products (cutlet, momos, sip ups) and convenient foods (rasam powder, chutney powder, tea bag) were demonstrated. Sessions were also conducted on packaging, labelling and branding of products.

### Training on Cultivation practices of exotic fruits



Training on scientific cultivation practices of exotic fruits was conducted for the B.Voc.Agriculture technology students of St. Dominic's college Kanjirapally and 38 farmers from nearby panchayaths on 22.06.2023. An exhibition of different popular agricultural technologies from Kerala agricultural University was also conducted along with the one day training programme. Most of the farmers from this area are traditionally Rubber growers and nowadays there is a shift towards more profitable and less labour consuming exotic fruits cultivation. Detailed sessions were conducted on crops like Rambutan, Mangosteen, Avocado, Dragon fruit and Durian. Farmers also shared their experiences in the cultivation of exotic fruits. College management and students helped KVK Kottayam in arranging the programme for the benefit of farmers.





## ICAR-KVK SHIVAMOGGA

### Training Programme on “Integrated Crop Management In Horticulture Crops”



ICAR – Krishi Vigyan Kendra, Shivamogga in collaboration with the Karnataka State Department of Horticulture, Shivamogga organized an off-campus training programme on “Integrated Crop Management in Horticulture Crops” at Yadawala village, Harnahalli (hobli) of Shivamogga Taluk on 22nd June 2023. Dr. Bharathkumar M V, Scientist (Horticulture), KVK explained the techniques in scientific management of major crops like Coconut, Arecanut, Ginger, Jasmine and vegetables that are cultivated mainly in the locality. Special importance was given on the soil testing, crop rotation, micronutrient management and benefits of using bio-pesticides and bio-fertilizers in the horticultural ecosystem. Sri. Raghunath, Senior Assistant Director of Horticulture, Shivamogga explained the various schemes/facilities the farmers can avail from the State Horticulture department. Local representatives of Grama Panchayath, members of Milk producer's cooperative society and about 30 farmers of Yadawala and Harnahalli village attended the meeting. After the theoretical session, field visit to the problematic Jasmine plot (Sclerotia stem rot and bud borer) and Arecanut orchard (micronutrient deficiency and inflorescence die back disease) were made to provide the farmers with the first hand information on identification of field problems and scientific management of the same.

## ICAR-KVK KHOZIKODE

### Seasonal trainings on coconut and fresh water fishes



Scientific principles of crop management in coconut were conducted at KVK for 29 participants from all the parts of Kozhikode district. The trainees were provided awareness on intercrops cultivation especially with tubers like cassava, lesser yam and Colocasia; millets like ragi and bajra, etc. The trainees were also made aware on natural farming and its manorial preparations like Jeevamrutham and Beejamrutha for use and enhancing the vitality of soil. The trainees were also exposed to a live demonstration on use of garden tiller for mechanized soil tilling of coconut basins organized in collaboration with Kerala State Farm Mechanization Mission. The programme was organized by Dr.K.M. Prakash, SMS (Agronomy). Likewise, the visited nine extension officials and one farmer from Assam (for the NGO CML) has been explained about KVK, IISR activities and management of Ganoderma in arecanut and coconut gardens by Dr K.K. Aiswaraya, SMS (Plant Protection).

In addition, one day training on fresh water fish culture by Dr B. Pradeep, SMS (Fisheries) was conducted with hands on training on aquaponics, bioflock culture etc.





## ICAR-KVK MALAPPURAM

### Awareness class to Paddy farmers on scientific paddy cultivation



To equip the paddy farmers to ready for scientific cultivation of rice in ensuing crop season, KVK Malappuram conducted an awareness session in collaboration with LSGD and Department of Agriculture on 27th June 2023. Dr. Najitha Ummer, Assistant Professor (SMS, Plant protection) handled the session and detailed scientific practices of rice cultivation, integrated nutrient and pest management, good agricultural practices for safe production of rice etc. The panchayath president Mr. Libas moideen inaugurated the programme and around 25 farmers attended the session.

## ICAR-KVK MANDYA

### Two days capacity development programme on ICM in Coconut and importance of soil health



Latitude: 12.569203  
Longitude: 76.828766  
Altitude: 713.71842 m  
Humidity: 38.0 m

## ICAR-KVK MYSURU

### Workshop on Arecanut





ICAR JSS Krishi Vigyan Kendra, conducted a workshop on Scientific Farming Practices in Arecanut on 28.06.2023. Chief Guest Ambadi Mahadev addressing the program said that arecanut crop is growing in Mysore area in recent times and farmers should first get information about how to grow good nut and plant it. He said that he should take advice from the concerned scientists.

Mr. Shamaraju, Scientist (Agronomy) who presided over the program, said that there are continuous trainings related to agriculture at our KVK, in which this arecanut workshop is special and this is the first time training related to arecanut is being done. He suggested that all the farmers who have come should take advantage of this workshop.

Shimoga, KSUAHS, Arecanut Research Centre resource person Dr Sudeep H.P, informed the farmers about the history of nut crop, its growing area and production, use of nut, main varieties of nut crop and suitable nut varieties for Mysore district. Management of major nutrients and major diseases of nut has been provided. More than 75 farmers has been interacted in the workshop.

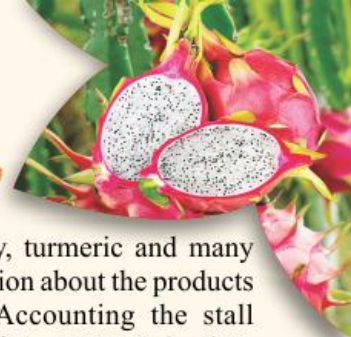
### ISEE Seminar Best Stall for NGO KVKs



The Indian Society of Extension had organized a National Seminar on the topic "Evolving Extension Science towards Secondary Agriculture for Sustainable Development" between 22-06-2023 to 24-06-2023. The NGO KVK's of Karnataka such as Belagvi-1, Belagavi - 11, Gadag, Davangere and Mysuru had participated in the stall exhibition. Various products prepared by the entrepreneurs related to secondary agriculture were exhibited during the seminar. The notable products such as banana bakahu, pickles, millet snacks, Coconut and

A Window to  
KVKs of  
ICAR-Yadgir  
ZONE-XI,  
Bengaluru

**KVK**  
TIMES



Groundnut oils, GI crops, Jaggery, turmeric and many other were displayed. The information about the products and entrepreneurs were given. Accounting the stall display and active participation of the NGO Scientist's the NGO KVK's of Karnataka received the Best Stall Award.

### ICAR-KVK PALAKKAD

#### Inauguration of DAESI 2023-24 and Certificate distribution of Garden Keeper trainees under RKVY-Skill development programme



Third batch of Diploma in Agricultural Extension Service for Input Dealers (DAESI) 2023-24 was inaugurated by Honourable MP of Palakkad Sri V.K Srikandan. The function was presided over by Smt. O. Lakshmikkutty, Chairperson Pattambi Municipality. Certificate for trainees who have successfully completed one month course on Garden keeper under RKVY- Skill Development Programme was also distributed during the occasion. Dr. Sumiya .K.V (Programme coordinator, KVK Palakkad), Dr. Raji P (ADR, RARS Pattambi), Smt. Meena T.D, PAO, Palakkad , Sri. Gunasekaran K. R, DPD, ATMA, Sri Subi Bhaskaran, President, Palakkad Input dealers association, Dr. Resmi, J. (Assistant Professor, KVK Palakkad), Mr. Arun Kumar K.V. (Assistant Professor, KVK Palakkad). 40 input dealers and 25 garden keeper trainees attended the programme.

#### Establishment of millet demo plot under 'Annam project' at GVHSS Pattambi







KVK Palakkad in collaboration with NSS unit GVHSS Pattambi conducted an awareness class on millets its importance and cultivation practices as a part of International millet year 2023 celebration. The programme was organized as a part of 'Annam Project' of the government of Kerala, where each NSS units in schools are asked to produce 10 kg of millets for their uptake. The class was inaugurated by Sri Vijayan, Principal, GVHSS Pattambi and class was led by Dr. Sreelakshmi K, Assistant Professor, KVK Palakkad. As a part of the programme ragi and little millet seeds were sown in the demonstration plots of the school.

## ICAR-KVK PATHANAMTHITTA

### Introduction of Technologies for Tuber Crops in the Cluster Village



An orientation programme to introduce interventions on tuber crops was organised at Kaviyoor Panchayat in Mallappally block on 26th June 2023. The programme was inaugurated by Mr. Dinesh M.D, President, Kaviyoor Panchayat and presided over by Mr Vinod, Member, Kaviyoor grama Panchayat. The keynote address was delivered by Dr C. P. Robert, Senior Scientist and Head, ICAR- KVK, Pathanamthitta. An assessment to compare the mosaic resistant cassava varieties Sree Reksha and Sree Suvarna'was introduced along with the assessment on performance of CTCRI, Thiruvanthapuram developed customized fertilizer and liquid foliar micronutrient mixture for increasing growth and yield of Elephant Foot Yam. Smt. Joycee Koshy, JDA, Pathanamthitta, Smt. Jijimol Kurien, ADA, Mallappally Block, Mr Justin, Assistant director, Soil survey department, Mr. Sandeep P. Kumar, Agricultural Officer, Kaviyoor Panchayat and other representatives of Kaviyoor Grama Panchayat also participated in the programme. As part of the programme a soil health camp was also organized to create awareness among the farming community on significance of soil test based crop specific fertilizer recommendation. Critical inputs were also distributed to the stakeholders. The technical sessions were handles by Mr Vinod Mathew, SMS (Agronomy) and Gayathri S, PA (Lab). 40 farmers participated in the programme.

## ICAR-KVK RAICHUR

### One day Special Camp



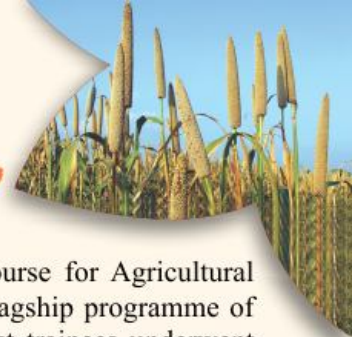
Scientist of ICAR-KVK, Raichur participated as resource person in "One day special camp" organised for members of Co-opertive society and women self-help groups of Sultanpur village, Devadurga taluk Raichur district. Delivered lecture on business opportunities in agriculture and food proceeding to help the women start their own food programme business.

## ICAR-KVK RAMANAGARA

### Capacity building programme on improved fodder crops cultivation







Krishi Vigyan Kendra Ramanagara in collaboration with KMF-BAMUL, Magadi regional office has conducted capacity building programme for dairy farmers on 09.06.2023 at KVK Chandurayanahalli, Magadi. Dr. Dinesha, M.S., Scientist (Agronomy) has delivered a lecture on improved varieties of fodder crops and their cultivation practices and silage preparation. In his talk he emphasized that dairy farmers practicing feeding of Napier and unscientifically cultivated maize as a green fodder and not practicing cultivation and feeding of leguminous fodder crops for profitable dairy farming. Participants visited the KVK demonstration block and explained about the cultivation practices of improved varieties of Napier grass like PBN-342, BNH-10, BH-18, DHN-6, CO-5, Super napier, Guinea grass, Seteria, Tripsacum, Rhodes, Paragrass and Signal grass. Further Scientists briefed that KVK has introduced Lucerne, hedge lucerne, multicut fodder Sorghum (COFS-31), Subabul (Wonder graze), Chaya fodder crops for the benefit of dairy as well as Sheep and Goat rearing farmers and all the fodder seeds, root slips and cuttings were made available in the KVK sales unit. Dr. Lata R. Kulkarni, Senior Scientist and Head explained about the importance of Azolla as a supplementary green fodder for dairy cattle. The officials from KMF-BAMUL, KVK and more than 30 farmers participated in the programme and got benefitted.

As part of the Foundation Course for Agricultural Research Service (FOCARS), a flagship programme of ICAR-NAARM, six ARS Scientist trainees underwent Field Experience Training (FET) at KVK, Thrissur for a period of 19 days from 30th May 2023 to June 17, 2023. The objective of FET was to provide an opportunity to the scientist trainees to focus research efforts on field realities and needs of stakeholders by employing participatory rural appraisal methodology (PRA). Panancherygrama panchayat ward no.10 (Thekkumpadam) was selected for PRA. During the assessment period, the multi disciplinary team of ARS Scientist trainees, thoroughly evaluated the agricultural situation of the village. They assessed not only the needs and requirements of the farmers but also the problems and prospects related to agriculture, horticulture, animal husbandry, dairy and poultry. In addition to the social and resource maps of Thekkumpadam village, they prepared the agro ecological, technology, and mobility maps as well in consultation with key informants of the village. A village seminar was arranged on 14/06/2023 at VFPC Hall, Thanipadam, Thrissur which was inaugurated by the Panchayat President, Mr. P.P. Raveendran. Around 30 villagers participated in the seminar. ARS trainees made a beautiful drawing of agro ecological map of the village using Rangoli powder in front of the seminar venue and was highly appreciated by the visitors. The trainees also conducted institute seminar on 15/06/2023 at KVK. The faculty from various institutes of Kerala Agricultural University participated in the discussion and gave them valuable feedbacks. In overall, FET provided the ARS trainees an onsite experience in understanding the farmer-context and field realities, thus promoting farmer-centric research and development in their future career.

## ICAR-KVK THRISSUR

### ARS Scientist Probationers at KVK Thrissur: As part of Field Experience Training



## ICAR-KVK TRIVANDRUM

### Field Day Celebration





ICAR- KVK Mitraniketan conducted field day celebrations at Kulathoor panchayath on 14th June 2023. The field days were conducted in connection with the FLDs on Ayar nutrient mixture towards the management of secondary and micro nutrient deficiencies in Banana and Integrated pest and disease management in Banana. Progressive banana farmers of Kulathoor panchayath attended the celebration. Dr. Binu John Sam, Senior Scientist and Head, KVK inaugurated the field day celebration and addressed the gathering. SMS Horticulture, Smt. Manju Thomas explained about the scientific nutrient management practices adopted in the FLD and Smt. Bindhu R Mathews elaborated on the integrated pest and disease management strategies followed.

As per the feedback given by participant farmers of FLDs, they have harvested a bumper crop under the technical guidance of KVK, following scientific crop management practices. They were able to minimise the use of chemical inputs, bring down the cost of cultivation and improve the profitability in banana cultivation due to KVK interventions. The field visits made by the multi disciplinary team from KVK and the farm advisories provided helped them in addressing the field problems effectively. The trainings imparted on integrated crop management practices improved their knowledge level on scientific nutrient management practices and adoption of plant protection measures. KVK has ensured the availability of bio inputs required for crop production at Kulathoor panchayath through the Eco shop operated by farmers themselves with the support of Krishi bhavan.

The technologies such as Ayar nutrient mixture from KAU, Cassava based bio pesticide Nanma from CTCRI, Use of Pseudomonas fluorescence against Sigatoka leaf spot disease and foliar application of SOP at bunch emergence for improving the yield were very well accepted by the farmers. They were able to harvest banana bunches weighing 15 to 18 kg, which is much higher than that of the control plot. On an average the farmers were able to obtain an income of Rs. 750/ plant as these bunches fetched about Rs.50/kg in the market. Assistant Agricultural Officer, Sri S Anoop appreciated the need based intervention of KVK in Kulathoor panchayath.



in coconut garden at Ippadi village of Kunigal taluk on 17th July 2023. Dr. Keerthi Shankar scientist (Horticulture) delivered the lecture on importance production technologies in Cow pea and also explained the nutrient management practices in coconut orchard. 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.

### Training programme on production technologies in fruit crops



ICAR - Krishi Vigyan Kendra – Tumkur-I conducted one day training programme on production technologies in fruit crops at Tadsuru Village of Tiptur taluk, Sri. Siddarameshwara, Circle inspector, Tiptur rural inaugurated the training programme and address the farmers about importance of fruits cultivation. Dr. Keerthi Shankar scientist (Horticulture) delivered the lecture on production technologies in cultivation of fruits. on this day fruit crops of drumstick, amla, Sapota and guava seedlings were distributed.

## ICAR-KVK TUMAKUR-I

### Demonstration of Cowpea variety KBC-9 as an intercrop in coconut garden

In Tumkur district, Most of the farmers are practising monoculture in coconut orchard and Practicing mono cropping in coconut reduces land use efficiency (22%) and increases weed menace (80%). To this ICAR - Krishi Vigyan Kendra – Tumkur-I initiated FLD on Demonstration of Cowpea variety KBC-9 as an intercrop





# UDUPI

## Fruit Fair - 2023



Rotary Club, Brahmavara, Keladi Shivappa Nayaka University of Agriculture and Horticultural Sciences (KSNUAHS), Iruvacki, Shivamogga; Indian Council of Agricultural Research – Krishi Vigyana Kendra, Brahmavara, Udupi District and Zonal Agriculture and Horticultural Research Station, Brahmavara, Diploma College of Agriculture, Brahmavara, Vijaya Rural Development Foundation (VRDF), jointly organized a two days mega Fruit Fair during 10 - 11 June, 2023 at S.M.S. Community Hall, Brahmavara. The exhibition stalls of the fair was inaugurated by Hon'ble Vice Chancellor of KSNUAHS, Shivamogga. The Vice Chancellor said that, the University is committed to strengthen the Brahmavara research station and Krishi Vigyana Kendra to serve the farmers of the region. The fruit fare event was inaugurated by Mr. Yashpal Suvarna, Hon'ble Member of Legislative Assembly, Udupi. In his inaugural address the Hon'ble MLA opined that efforts will be made to initiate Agriculture College in Brahmavara. The ceremony was presided over by Mr. Dinesh Kumar Nairy, President of Rotary Club, Brahmavara.

Technical hand book of the fair was released by Revered Father M. C. Mathai. Progressive farmers

were felicitated by Manager of Bank of Baroda. Director of Extension of KSNUAHS, Shivamogga Dr. K. T. Gurumoorthy; Associate Director of

Research of ZAHRS, Brahmavara, Dr. Lakshmana; The Principal of Diploma College of Agriculture, Dr. Sudhir Kamath; The member of Board of Management of VRDF, Mr. Sathish Kumar Shetty, CEO of VRDF, Mr. Sachin Hegde and

Rotary Zonal Senani, Mr. Pranesh S. K. were present during the occasion. ICAR-KVK head Dr. Dhananjaya B with introductory talk welcomed the gathering. Mr. Alwyn Andrade compeered the program. The two day fair witnessed a whopping 30,000 visitors to about 150 stalls that included various tropical fruits, value addition and their products, nurseries and different agro based products and consumer goods. Three technical sessions were conducted on value addition on jack fruit, with demonstrations on development and preparation of value added food and consumer products out of jack fruit.







# JACK FAIR 2023

The ICAR - Krishi Vigyan Kendra, Uttara Kannada, Sirsi in collaboration with Haripriya Sanjeevini Gram Panchayath Federation organized JACK FAIR 2023 on 28.06.2023 at Nandigadde, one of the very remote village in Joida Taluk of Uttara Kannada district. Director of Extension, UAS Dharwad, Dr. A. S. Vastrad in his inaugural address highlighted the nutritional aspects of Jackfruit, which is one of the favorite seasonal fruit in many homes in Uttara Kannda district. He also made special mention about support of university in processing, value addition and marketing of processed products. Suggested to plant short duration jack varieties. Exhibition and competition on Jack recipes was also arranged. Highest number of 141 jack recipes prepared by Shreya SHG, Nadigadde bagged first prize. Dr. Roopa S. Patil, Senior scientist and Head, KVK Sirsi gave introductory remarks about KVK and start up avenues under RKVY –RAFTAR grants. She congratulated the women gathering for preparation and exhibition of different value added products from raw jack, pulp, seed etc and distributed the certificates for winners of food competition.



Shri. S. T. Hegde Danageri, Shri. D. T. Hegde, and Shri. Janardhan Hegde marked their presence as guests and shared their previous experience on Jack festival. Year after year this festival is uniting farm women from all corners of the surrounding village to exhibit their value added products and to share their deep affection for Jack fruits. Smt. Sumangala Desai, President Harirpiya Sanjeevini Gram Panchayath Federation requested the university and KVK to provide technical and marketing support for malnad products. She explained on role of Jack, banana and other wild fruits as food supplements with better nutrition and can become a livelihood option for local people through entrepreneurial activity. More than 100 farm women from surrounding village participated in the programme.







## ICAR-KVK VIJAYPURA-I

### SCSP project :



The oil Extraction machine has been purchased by UAS Dharwad under ICAR-SCSP and installed at ICAR-KVK Vijayapur-1. The demonstration of this machine has been conducted in front of all scientists and few selected farmers of KVK. This machine was with total worth of Rs. 2.65 lakh. This machine can used for extraction of oil from various crops like, Ground nut, Safflower, Sunflower, Sesame, Niger, coconut etc. The engineer from the firm explained in detail about the usage protocol of this above said machine in safety way and also briefed the importance and advantages of this machine over the existing methods of oil extraction. The existence of this technology at KVK Vijayapur has spreading to all farmers and scientists receiving the phone call from farmers to enquiry about the technology.



### Implementation of FLD on “Integrated Fish farming in Farm Ponds”



ICAR-KVK Vijayapura 1 was sanctioned one front line demonstration on Integrated Fish farming in Farm Ponds. The FLD was implemented in 10 farm ponds of Dadamatti cluster of Vijayapura jurisdiction. As suggested by the chairman and co-chairpersons and the expertise of Action plan meeting the new breed of fish i.e Amur 750 fingerlings were given to the beneficiary farmers.

## ICAR-KVK VIJAYPURA-II

### Group meeting for redgram seed production under farmer participatory programme and critical inputs distribution under OFT.



ICAR-KVK Vijayapura-II (Indi) conducted a group meeting for redgram seed production under farmer participatory programme. Dr. Shivashenkaramurthy M. Senior Scientist & Head, ICAR-KVK Vijayapura-II (Indi) has briefed about the redgram seed availability, procurement price for the year 2023-24 at Yalagd village of Devarahippargi taluka of Vijayapura district. Dr. Prakasha G., Scientist (Agronomy) explained about the scientific cultivation of redgram crop viz., seed treatment, nipping etc., and advised farmers to take up suitable variety for dryland as well as rainfed condition. Apart from this, distributed the Soybean seeds, bioagent for seed treatment as a critical input to farmers under On Farm Testing (OFT) programme for the year 2023-24. In this programme 30 farmers were participated and got benefitted.



### Method demonstration advanced nursery technique in chilli crop.





Dr. Shivashenkarmurthy M. Senior Scientist and Head, ICAR KVK, Vijayapura-II(Indi) explained about the advanced nursery technique for transplanting chilli. Fill a seed in protrays with moist compost or coirpith for about a week under shade condition, sprinkle with water. After 30 DAS seedling were ready for transplanting to main field.



## ICAR-KVK WAYANAD

### ICAR- KVK's Of Kerala and Lakshadweep secured First prize for Best stall at Bengaluru



University of Agricultural Sciences, Bangalore, Indian Society of Extension Education,(New Delhi and Bangalore Chapter) jointly conducted National Seminar on “Evolving Extension Science towards Secondary Agriculture for Sustainable Development “ at College of Agriculture, UAS, GKVK, Bengaluru from 22nd to 24th June 2023. During the seminar an exhibition was also arranged with stalls put up by all the KVKs from ATARI Zone XI ,Manage, CFTRI, UAS,Bangalore and other ICAR institutes . KVKs hosted by Kerala Agricultural University, NGO and ICAR from Kerala and Lakshadweep, put up a good show which showcased a variety of value added products from all the major crops like coconut, cassava, jackfruit, banana, rice, mango, nutmeg, honey, millets, spices etc. Out of the 30 stalls which participated in the exhibition , ICAR-KVKs of Kerala and Lakshadweep won the 1st Prize for the Best Stall.



## ICAR-KVK TUMAKUR-II

### Distribution of Certificate and Insurance Copy to FOCT aspirants

ICAR- Krishi Vigyan Kendra (IIHR) organized a programme for distribution of certificate and insurance copies to FOCT vocational training aspirants on 12th January, 2023 at KVK Hirehalli, Campus. Dr. Loganandhan, N., Head inaugurated the programme, during the day he shared about importance insurance polices and training programme for rural youths.



He quoted a few examples of task forces established in Karnataka and other neighbouring states which will be model to replicate. Twenty trainees from Tumakuru, Koratagere, and Madhugiri taluks participated in the programme. The technical session followed by method demonstration on root feeding for Ganoderma wilt in coconut plantation was witnessed by the trainees. Mr. Prasanth JM SMS Horticulture coordinated the programme. All the KVK staff members actively took part in programme.

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# NAMMA YADGIR



**Dr. M. K. Naik**

Director of Extension, UAS, Raichur  
Ex-Vice Chancellor, KSNUAHS, Shivamogga.

## ADIEU SIR

*Thanks for your untired scientific vigor  
and guiding us under the umbrella of  
Teaching, Research & Extension  
at UAS-Raichur*

*Happy Retirement Life*



# KVK TIMES

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

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