

KVK TIMES

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



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

ACKNOWLEDGMENT

I feel privileged and proud to compile and edit the third issue of 'KVK TIMES' as the period of compilation coincided with 75th year of Indian Independence. I wholeheartedly thank ATARI, Bengaluru for giving us this unique opportunity. I acknowledge with at most sincerity the constant encouragement and moral support that we receive from our Honorable Vice Chancellor, Dr. K.N. Kattimani in carrying out our KVK activities and his constant motivation to serve the farming community to the best of our capabilities.

I would like to record with immense gratitude, the enthusiasm and concern showed at each stage of compilation of this issue by Dr. V. Venkatasubramanian, Director, ICAR-ATARI, Bengaluru which helped us to bring out this issue with ease. I extend my sincere thanks to Dr. M. J. Chandre Gowda, Principal Scientist, ATARI, Bengaluru and Nodal officer of our KVK for constantly encouraging us to move positively during execution of all our assignments. I would also like to place on record the help of all the other scientific and administrative staff of ATARI, Bengaluru for infusing confidence in all of us to take up our endeavors.

I would like to extend my heartfelt thanks to our beloved Director of Extension, UAS, Raichur Dr. D.M. Chandargi for this calm and composed nature which inspires us to carry out our responsibilities with ease and perfection. I also thank all the other staff of Directorate of Extension, UAS, Raichur especially Dr. Moulasab and Dr. Raghavendra for their timely help in carrying out our works.

I record with immense pleasure, the overwhelming response of Zone XI KVK family in sharing spectrum of their activities which in itself show the ability of KVKs to shoulder the varied responsibilities.

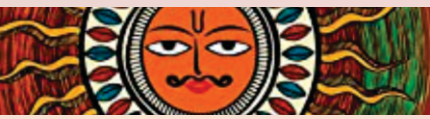
Last but not the least; I thank my entire team of KVK, Ballari for their support and valuable suggestions to make this issue the way it has emerged. My sincere thanks to Mr. Mruthyunjaya Babu of G.C. Graphics, Ballari for timely design of newsletter and Mr. B.G. Suresh Babu for his efforts in designing the cover page and compiling the news items elegantly.

Date : 19-08-2021

Place : Ballari

Dr. RAMESH B K

Senior Scientist and Head,
ICAR-KVK, Hagari, Ballari



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UNIVERSITY OF AGRICULTURAL SCIENCES

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Dr. K N Kattimani

Vice Chancellor, UAS Raichur



Foreword

I am extremely happy to note that ATARI, Bengaluru has come up with a unique idea to bring out '**KVK TIMES**', a fortnightly e-Newsletter to showcase the activities carried out by each of the 48 KVKs in Zone XI. KVKs play a pivotal role in dissemination of agriculture technologies to the farmers and documenting the success achieved in the process will help others in the system to cross-learn. If this exercise boosts the spirit of extension scientists in their quest to serve the farming community, purpose of this newsletter will be justified.

I share with immense pleasure that one of our KVKs, ICAR-KVK, Kalaburgi-I has won '**Pandit Deen Dayal Upadhyay Rashtriya Krishi Vigyan Protsahan Puraskhar-2020**' and a contact farmer Sri. Sharanabasappa Patil of Kalaburgi, has been conferred with prestigious '**Jagajivan Ram Abhinav Kisan Puraskar 2020**'. The efforts of Directorate of Extension, UAS, Raichur and ATARI, Bengaluru in constantly guiding them to attain the feat are highly appreciable and noteworthy. I wish all the KVKs in Zone XI to excel in their field of work and to achieve the highest in their service towards the farming community.

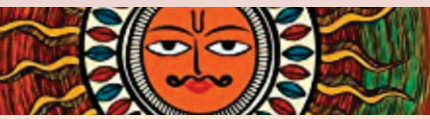
My best wishes are with each one of you in the KVK family in carrying out the assigned responsibilities to serve the society.

Kattimani

Dr. K N Kattimani

Vice Chancellor, UAS Raichur





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Dr. D M Chandargi

Director of Extension, UAS Raichur



Message

We have already begun our celebration to commemorate 75th year of Indian Independence. Agriculture in India has come a long way since Independence. A growth rate of about one per cent per annum witnessed during pre-Independence era rose to about 2.6 per cent per annum in the post-Independence period. The contribution of agriculture extension system in growth of Indian agriculture is indelible and KVKs as Front Line Extension agencies have been playing a major role as agriculture knowledge and resource centres across the country.

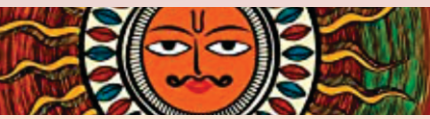
Documentation of various activities carried out by KVKs is an important task and this will help in furthering sustainable technologies in agriculture. So the novel idea of ATARI, Bengaluru in bringing out '**KVK TIMES**' to continuously document the work of all the KVKs in Zone XI is highly appreciable. This would serve as a ready reference for accessing important milestones achieved in the zone. My best wishes are with KVK, Ballari for editing and compiling this issue of 'KVK TIMES' for 1-15' August 2021. My compliments to the entire team for covering important events and activities of KVKs in the issue.

Directorate of Extension, UAS, Raichur feels proud to state that three of our KVKs, KVK - Raichur, Bidar and Kalaburgi-1 have brought laurels to the University by bagging best KVK awards at National and Zonal levels. I wish all our other KVKs to work hard to keep the spree of getting awards and thereby make a mark in their respective districts by effectively serving the farming community.

Dr. D M Chandargi

Director of Extension, UAS Raichur



**Agricultural Technology Application Research Institute (ICAR-ATARI)**

Zone-XI, MRS, H.A. Farm Post, Hebbal, Bengaluru - 560 024.

**Dr. V Venkatasubramanian**

Director, ICAR ATARI, Zone XI, Bengaluru

**Message**

A first of its kind virtual platform, KVK TIMES which documents fortnightly activities of each of the 48 KVKs of Zone XI is gaining a real momentum. The news items covered in last two issues made an impact that is long lasting. The success of banana value addition product 'BaKaHu' published in the first issue of '**KVK TIMES**' is now spreading across the country and KVK Uttar Kannada has organized a workshop on Value addition with Banana flour. Most of the news items published in the TIMES has got the potential of cross learning among KVKs and worth reading. This should boost the morale of all of us and many such noteworthy efforts of our fraternity in the zone must get the due recognition that they owe.

The fortnight (1-15 August, 2021) is special in a sense that we are stepping into the year of India's 75th year of Independence. At this juncture, let all of us take a pledge to use our scientific know-how to increase productivity in agriculture and allied sectors and at the same time, exercise caution to preserve our ecological balance. The responsibility lies on the able shoulders of KVK family and I am confident that we achieve it united.

Value addition to field crops especially nutri-millet and horticulture produce hold a key to sustainable income in near future and KVKs should focus on imparting such viable skills to the farmers in their jurisdiction and to take it further with a proper market linkage. Few of such attempts from different KVKs in the zone are reflected in this issue of 'KVK TIMES'.

I wish all of you to come out with novel ideas that help us to substantially increase farmer's income and attract large number of youths into agriculture. Let our saga to bring in light in the lives of millions of farmers continue.

Dr. V Venkatasubramanian

Director, ICAR ATARI, Zone XI, Bengaluru



BRAVING COVID-19 CRISIS, FARM WOMEN OF BALLARI SCRIPT AN INSPIRING SUCCESS STORY IN FIG VALUE ADDITION



Fig is an important horticulture crop grown in Ballari district in Karnataka. 'Ballari Red', a locally grown fig variety, is one among the few varieties grown throughout the year in India. It has excellent quality, sweetness and colour. The variety covers 1100 hectares of farmland in the district. Chennai and Bengaluru are two major markets for Ballari Red. The COVID-19 lockdown in 2020 led to a break in the supply chain of raw figs and a sudden drop in demand. As these fruits have a very short shelf life, they were left unharvested on the fields as the small farmers considered it as a burden to incur additional labour cost for picking of fruits.



Empowering Farm Women



ICAR-KVK, Ballari responded quickly to this unprecedented situation on a war-footing. KVK refined a post-harvest technology for producing fig bars and fig rolls, developed originally by UAS Raichur, to suit the local needs. This was disseminated to farm women of Srinivas camp, Kurugodu taluk in Ballari district where figs are grown extensively. Hands-on trainings, online advisories, field visits and demonstrations organized by KVK Ballari for the farm women, led to impactful results. Self Help Group (SHG) leaders Mrs. Sudha and Mrs. Pooja learnt the process of making value added products. Once the art of making fig bars and rolls was mastered, the samples were sent to NABL accredited Pesticide Residue and Food Quality Analysis Laboratory (PRFQAL), UAS Raichur to assess the quality parameters. FSSAI licences were obtained as the products met the required quality parameters. Branding and labelling were done. This led to strong presence in the market.

As fig bars gained popularity and demand, other women in and around Srinivas camp approached KVK-Ballari for similar guidance. With technical backstopping, the farm women of different SHGs and few progressive farmers started their ventures. Once the COVID-19 lockdown was eased, solar tunnel dryers and tray dryers were setup to increase the productivity and hygiene. One solar tunnel dryer can dry 300 kg of pulp, yielding 100 kg of fig rolls each day. This increased production by three times compared to the sun drying process. A group of youngsters sensing increasing market demand, installed 14 solar tunnel dryers and other machinery to enhance productivity. With the market intelligence gained, the group is now planning to produce 15-20 quintals of fig rolls each day by employing 60 skilled women.

KVK-Ballari helped to establish links between the entrepreneurs and local administration. This helped to install Solar Tunnel Dryers by the Dept. of Horticulture. Under the Prime Minister's Formalisation of Micro Enterprises (PM FME) 'One District-One Product' (ODOP) scheme, fig is identified as a potential crop for Ballari district. KVK-Ballari arranged a platform for interaction of the farm women entrepreneurs with the expert advisors of PM FME scheme. Thus a small but a firm step in fig value addition is evolving into a long successful journey with the able handholding of ICAR-KVK, Ballari.

"Thinking is the capital, Enterprise is the way, Hard Work is the solution" - APJ Abdul Kalam





ICAR-KVK, Alappuzha

An Empowered Woman Clearing Heights Even in the Pandemic Period

Smt. Archana of Pathiyur panchayath in Alappuzha district is an educated, unemployed rural woman who is enthusiastic in taking up challenges. She joined the Skill Development Programme on 'Friends of coconut tree' conducted by KVK-Alappuzha and got exposed to the methods of scientific management of coconut in addition to the hands on training for climbing and harvesting the coconut palms using the pedal type coconut climbing device. She is equipped with a climbing device brought under Kerasuraksha group insurance coverage of the Coconut Development Board. On successful completion of the training she started climbing coconut palms in her neighborhoods using the climbing device with the confidence gained from the training.



Affected by the COVID-19 pandemic, her husband who stayed in Gulf was forced to come back home. Without getting upset by this inward migration, Smt. Archana and her husband started coconut harvesting as a vocation and approached the local Krishi Bhavans and progressive farmers for opportunities. Gradually, they started getting calls from the farmers in the panchayath. Now, on an average they are getting 15 to 20 days employment in a month with an average daily earnings of Rs.1500 to 2000/- (for harvesting 30 to 40 palms). They started taking up management of pests and diseases like rhinoceros beetle, red palm weevil and leaf rot with the technical support of KVK, which is a very demanding requirement from farmers. Smt. Archana and her husband thus earn a decent income from the job even in the pandemic period. Her success story is an inspiration to her peers to take up such challenging occupations which are in demand.



ICAR-KVK, Bagalkote

Director of Extension, UAS, Dharwad visits ICAR-KVK, Bagalkote



Director of Extension Dr. Ramesh Babu, UAS, Dharwad along with Nodal officer (DAESI), SAMETI North, Dr. M. Gopala, UAS, Dharwad visited Nursery unit of ICAR-KVK, Bagalkote wherein activities like guava grafts of varieties Lucknow-49 and pink pulped Arka Kiran are being raised along with drumstick (variety Bhagya) saplings, dragon fruits plants, saplings of lime, curry leaf, vegetable seedlings of tomato, chilli, marigold, watermelon and various indoor plants of ornamental and medicinal importance.



ICAR-KVK, Ballari

KVK, Ballari Grows Humble Local Millets that are Set to Go Global



United Nations has declared 2023 as '**International Year of Millets**'. The aim is to increase awareness of the health benefits of millets and their suitability for cultivation in tough condition marked by climate change. To comply with intention of World's highest body, KVK, Hagari has taken an initiative of growing nutri-millets – foxtail millet (HN-46) and Ragi (HR 13 and GPU 67) in its farm field with an intension of supplying best quality seeds of new varieties to the farmers of the district. HN-46 is Hagari Navane developed at our farm and a proud outcome of UAS, Raichur and is released for higher grain and fodder yield.



ICAR-KVK, Belagavi I

Sticky Traps are Best Aid for Uzi fly Management in Silkworm Rearing Houses



In order to address the most severe problem of Uzi fly infestation in silkworm rearing house at Mudalgi and Gokak taluka villages, ICAR-BIRDS Krishi Vigyan Kendra, Tukkanatti, Belagavi-1 has designed and implemented Front Line Demonstration (FLD) on Integrated uzi fly management in sericulture. One set of Uzi sticky boards per rearing house (5 sticky boards + 5 lures) are provisioned during this programme. An Uzi sticky board gives us a tremendous result by trapping surprising numbers of Uzi flies. In addition to this, two pouches of *Nesolynx thymus* are provided per 100 DFLs which is a Hymenoptera ecto-pupal parasitoid for Uzi fly also found effective to control the Uzi fly in 3rd to 5th day of fifth instars in demand.



ICAR-KVK, Belagavi II

Entrepreneurship Development Programme on Laddu Preparation



Shravana Masa is auspicious month for Hindus, where series of festivals and poojas takes place. Nagapanchami, a festival of laddus also falls during this period. Catching the opportunity, ICAR-KVK,

Belagavi-II encouraged Self Help Group (SHG) members of Mahalaxmi ATMA Mahila Swa Sahaya Sangha, Bailwad village, Bailhongal taluk for taking up the venture of laddu preparation as an entrepreneurial activity. The group was trained for preparation of North Karnataka popular sweet 'Ladki Undi' and 'Khardani Undi'. Under the supervision of the KVK, they were able to produce 200 kg of laddus with an initial investment of Rs. 20,000/-. The FSSAI license owned by the KVK was honoured to the SHG for establishment of the entrepreneurial activity. These laddus were sold as hot cake within span of three days at price of Rs. 180/kg and gained net profit of Rs. 16,000/-. This initiative boosted the will power of the group members to take up the venture for production of different types of traditional laddus preferred by the local community.



ICAR-KVK, Bengaluru Rural

KVK, Hadonahalli Establishes Rural Mart



Bengaluru Rural District is located in peri urban area with very good market potential for fruits and vegetables. Fruits and vegetables are cultivated in an area of 13517 ha and 7794 ha respectively in the district. An average of 1,93,877 tons of fruits and 1,53,273 tons of vegetables per annum are produced in the district. Farmers usually sell their produce through direct marketing and commission agents to maximize their returns.

'Rajaghatta' is well established FPO working with farmers for the well being of farming community. FPO is procuring vegetables from its members and sell through direct as well as on line marketing mode. The FPO has 1000 members among which 300 of them are vegetable growers who don't have proper market linkage.

ICAR-KVK is located in logistic place, where thousands of people visit Ghati Subramanya temple, a famous religious place only 3 km away from KVK, Hadonahalli. Catching this opportunity KVK, Hadonahalli established Rural mart in its campus, in collaboration with FPO and financial support from

NABARD. KVK, Hadonahalli act as a facilitation center for this Rural Mart. Majority of the visitors are from Bengaluru city and they purchase fresh vegetables and other products from the mart. Rural Mart is helping the farmers in getting the fair price for their produce and consumers are also getting fresh vegetables. The products available in the mart are vegetables, fruits, micro-nutrients, organic manures, bio-fertilizers, bio-agents, millets, value added millet products, plants, seeds etc.



programme on ICM in Ragi for tribal area farmers located in Upakara colony village of Terakanambi hobli, Gundlupete taluk, Chamarajanagara district. In a view of bringing the farmers in contact with KVK, other line departments and NGOs in order to make them aware about the Government facilities and other benefits for their upliftment during the pandemic conditions and future life. In this programme distributed improved Ragi variety KMR-630 and waste decomposer to the participants and informed about the improved management practices in Ragi and usage of waste



ICAR-KVK, Chamarajanagara

Capacity Development Programme on ICM in Ragi for Farmers of Tribal Area

On 19.07.2021, ICAR KVK, Chamarajanagara in collaboration with AICRP Ragi, V.C Farm, Mandya and TREND NGO organized the capacity development

Fortnight 'AGRI-NEWS'

PM Releases 9th Installment of PM-KISAN

The Honorable Prime Minister, Shri Narendra Modi released 9th installment of financial benefit under Pradhan Mantri Kisan Samman Nidhi (PM-KISAN) on 09.08.2021 through video conference. The Prime Minister also interacted with farmer beneficiaries during the event. This enabled the transfer of an amount of more than Rs. 19,500 crores to more than 9.75 crores beneficiary farmer families. The Prime Minister remarked that our agriculture and our farmers have a big role in determining the condition of India in 2047, when the country completes 100 years of independence. It is time to give direction to India's agriculture to face new challenges and take advantage of new opportunities.

Display of MRP Mandatory on Subsidised Agriculture Machines

Honorable Union Minister of State for Agriculture and Farmers Welfare, Shobha Karandlaje reiterated in a press statement that The Union Ministry of Agriculture has issued an order for mandatory display of MRP (Maximum Retail Price) on all agricultural machines and equipment sold in markets. She also stressed that any manufacturer who fails to display MRP on their products, will not be allowed to enlist for supply of machines under subsidy programmes.

Now, Coconut Development Board can Appoint Growers as its Chairman

As part of the Centre's plan to boost the production and productivity of coconuts, the government has decided to make the post of Coconut Development Board chairman non-executive. Honorable Union Minister of State for Agriculture and Farmers Welfare, Shobha Karandlaje said in a press statement that "In future, the government can appoint coconut growers or field experts as the chairman of the Board. The Board would have a CEO with executive powers".

"If agriculture fails, everything else will fail" - M S Swaminathan

decomposer for effective decomposition of the farm waste. The programme was chaired by Dr. Chandrakala Hanagi, Senior Scientist and Head, ICAR KVK, Chamarajanagara, Chief guest was Dr. Deepak, Head, AICRP on Rice, VC Farm, Mandya. Programme was jointly organized by Dr. Sunil. C.M, Scientist (Agronomy), ICAR KVK, Chamarajanagar and Dr. Ajaykumar, Founder member TREND NGO. In this programme 40 tribal farmers participated and expressed to keep connection with the KVK and other organization for the future well being.



ICAR-KVK, Chikkaballapur

Skill Development Training on Cocoon Biocraft at ICAR-KVK, Chikkaballapura



ICAR-Krishi Vigyan Kendra, Chintamani, Chikkaballapura district conducted a skill development training on 'Cocoon bio-craft' from 02.08.2021 to 07.08.2021 where 15 participants were oriented towards "Entrepreneurship development through Cocoon Bio-craft". The participants were imparted hands on training in various aspects of preparing the crafts using waste cocoons and activities included cocoon cleaning, sorting, colouring, cutting of cocoons to give different shapes such as flowers, buds, etc. They were also taught about garland preparation, designing of greeting card wall hangings, flower pot and bouquet preparation and so on. Exposure visit to a commercial cocoon biocraft unit owned by Prof. Vijayendra, M., a retired professor of sericulture, College of Sericulture, Chintamani was organised in order to orient and encourage them towards establishing their own enterprise.



ICAR-KVK, Chikkamagaluru

FLD on Demonstration of Paddy Variety KHP-13

ICAR-Krishi Vigyan Kendra, Mudigere conducted demonstration on paddy variety KHP-13 in the 25 farmers field along with the capacity development programme. This variety is highly suitable for hill zone of Karnataka and also is a long duration crop which can be harvested at 165 to 170 days after sowing. It yields up to 50-55 quintals per hectare. Further, it is resistant to blast disease, stem borer and corid bug. It is also resistant to lodging during heavy winds and rain.



ICAR-KVK, Chitradurga

Greengram Variety KKM-3 For Higher Yield In Dry Land Conditions

In order to popularize the greengram varieties among the farmers of Chitradurga district a field day was conducted on "Productivity Enhancement in greengram through introduction of greengram variety KKM-3" at Vengalapura village of Hosadurga taluk on 09-08-2021.



The problem analysis revealed that the lower yield in greengram at Chitradurga district was due to non-availability of high yielding and disease resistance varieties. The greengram variety KKM-3 have special feature of medium duration, high yielding, high palatable, drought to yellow mosaic disease tolerant. Thus, ICAR-KVK, Chitradurga conducted Front Line Demonstrations and trainings to create awareness about the technology thereby improving the yield of greengram in the district. Farmers opined that KKM-3 greengram variety produced higher yield, less incidence of yellow mosaic disease, short duration and drought tolerance.

MEETINGS CONDUCTED BY ATARI, BENGALURU IN THE FORTNIGHT

- ✘ A virtual meeting on google meet platform to review the progress of DAMU was conducted by Dr. D V Srinivasa Reddy, Principal Scientist of ATARI, Bengaluru on 03-08-2021. Heads of KVKs implementing DAMU along with their SMS (Agromet) took part in the meeting.
- ✘ A meeting on google platform to review the status of filling of formats of DFI success stories was held on 05-08-2021 by Dr. M J Chandre Gowda, Principal Scientist and Head of DFI cell, ICAR-ATARI, Bengaluru. He reviewed the status with respect to each of 48 KVKs of Zone XI and cleared the doubts of many in filling the formats. Senior Scientist and Heads of all the KVKs and the concerned scientists implementing the DFI work participated in the meeting.
- ✘ A zoom meeting with all the scientists of KVK was held on 09-08-2021 to discuss the procedure involved in uploading publications, reports, videos, data, bulletin etc., by the KVKs in KRISHI Portal. Dr. V Venkatasubramaian, Director, ICAR-ATARI, Bengaluru presided over the meeting. Dr. Mallikarjun B. Hanji, Chief Technical Officer, ATARI, Bengaluru explained the procedures to upload documents in KRISHI Portal with a power point presentation.
- ✘ Zonal Committee meeting of “Attracting and Retaining Youth in Agriculture (ARYA)’ project was held on zoom platform on 10-08-2021. Dr. V Venkatasubramaian, Director, ICAR-ATARI, Bengaluru presided over the meeting. The KVKs implementing ARYA and all the Senior Scientists and Heads of KVKs of Karnataka, Kerala and Lakshadweep took part in the meeting.



ICAR-KVK, Dakshina Kannada

Vermi-composting to Combat Scarcity of Organic Manures for Sustainable Production



During the year 2021-2022 under “Raitha Bhandu Abhiyan” a capacity development programme on vermi-compost production was organised in collaboration with Zilla Panchayat for 59 extensional personnels (Panchayat Development Officers, Assistant Directors of Agriculture and Technical Assists) under MNREGA scheme at ICAR –KVK, Dakshina Kannada. The main objective of the programme was to impart training to the farmers to establish vermi-composting units at various gram panchayats, so as to ensure

“ನೇಣು ಕುಳದೊಳಗಡಗದ ಕರ್ಮ ನೇಣು ಮೇಲೆಯೆ ನಿಂತಿದೆ ಧರ್ಮ.” – ಕುವೆಂಪು

the self-sufficiency of compost at farm level for sustainable crop production in the district. About 5200 vermi-compost units would be established with the technical support of Dr. Naveen Kumar B. T., Scientist (Agronomy), ICAR- Krishi Vigyan Kendra, Dakshina Kannada.

A women entrepreneur named Smt.Prathiba Rai from Ramakunja, Puttur Taluk has been intensively trained in production of vermi-compost and earthworms (*Eudrilus eugeniae*) on commercial scale. At present she is maintaining 10 units with 10 tonnes production. After realising the success she is planning to utilise the waste land for upscaling the activity through construction of 40 more units at her farm. Besides this, she is determined to supply earthworms to each Gram panchayats for 5200+ vermi compost units to reach self sufficiency in demand for organic manure in the district.



ICAR-KVK, Davanagere

'New Fish in the Block'



Technology assessment of high value fish species for inland aquaculture in farm ponds is implemented in Uchavvanahalli and Hebbalu villages of Davanagere taluk by KVK Davanagere. *Puntius pulchellus* is relatively new candidate fish species for inland aquaculture and being taken to culture ponds for the first time in the district. It is a medium carp, called 'Haragimeenu' in Kannada, a native species of Tunga river. Breeding of this species is standardised by the scientists of Central Institute of Fresh water Aquaculture (CIFA), Bengaluru (RC). Its growth and adaptability performances will be assessed as it is tasty and widely accepted fish in the market.

International Biofuel Day Celebration



International Biofuel Day was celebrated in collaboration with Zilla Panchayath, Davanagere at Naraganahalli village, Davanagere taluk on 10-08-2021. The programme was inaugurated by Dr. Vijaya Mahanthesh B. Danammanavar, CEO., Zilla Panchayath, Davanagere. The theme for World Biofuel Day 2020-21 is based on 'The promotion of biofuels for a better environment'. The day is to raise awareness to replace the traditional fossil fuels with non-fossil fuels. Biofuels will have a positive impact on the environment which will help in improving the economic condition of the country by providing a practical and feasible solution.

The Krishi Vigyan Kendra is operating the project on 'Biofuel Research, Information and Demonstration Centre (BRIDC)' sponsored by Karnataka State Biofuel Development Board, Bengaluru since 2010-11. The centre collecting biofuel seeds from farmers and extracting biodiesel which is used at 10 % as a blend with diesel vehicles, besides, creating awareness on importance of biofuels and planting biofuel plants.



ICAR-KVK, Dharwad

Diagnosis of Infertility in Animals by using Portable Ultrasonography

ICAR-KVK Dharwad in association with Dept. of Animal husbandry and veterinary services Dharwad, conducted infertility animal health camp at DFI village Shirur on 09.08.2021. The conditions responsible for infertility like anoestrus, metritis, cystic ovary, silent heat and genetic abnormalities were diagnosed by using portable ultrasonography. All these conditions were treated with suitable medicines, hormonal therapy. The

"The true India resides in its villages." – Chaudhary Charan Singh



farmers were advised about importance of feed and fodder in the management of repeat breeding problem in livestock. Thirty farmers were participated and 30 cows, 15 buffaloes were treated in the animal health camp.

Magic of 'Black Magic Rose' Variety

Sri Shankrappa Siddappa Angadi, a enthusiastic dairy farmer from Manasur village of Dharwad taluk is earning nearly 5 lakh rupees from one acre of land. He owned a land of one acre in which he was having many enterprises like pond, 4 buffaloes, one cow and two calves along with Mango orchard. Due to low returns the land was converted in to flower garden. The land was mainly utilized for making in to a rose garden for which the grafted cuttings of Black magic variety and button rose were purchased from Tamilnadu nursery. The variety gives flowers of uniform colour with good keeping quality. Daily he is harvesting nearly 2500-3000 flowers and directly marketing in Dharwad. Drip irrigation is followed for watering and farm yard manure is abundantly used as dairy is in the farm itself. Bio digester unit has been established to supply nutrients and bio pesticides. The farm bunds are planted with fodder crops and green manure crops. Even though it is flower crop he still follows organic practices and happy with the returns. He is beneficiary of Pradhan Mantri Krishi Sinchayi yojana



and MNREGA scheme. Influenced by him nearly 30 farms have been converted in to rose gardens. Small scale mechanization is followed by using equipments like hand operated rotavator, chaff cutter etc. The scientists from KVK have guided them in establishing vermi-compost unit, pruning technology and nutrient management along with profitable dairy. The hard work and guidance have brought happiness in the life of Sri Shankrappa.



ICAR-KVK, Gadag

Trainers Training Programme



On 5th August, 2021, ICAR-KVK, Gadag in collaboration with Zilla Panchayat and Women and Child Welfare Department, Gadag organized Trainers Training Programme on "Malnutrition among children, healthy foods for healthy life and nutrition garden". The Child Development Project Officers, Assistant Child Development Project Officers and Supervisors participated in the programme. Shri S G Salageri, District Court Judge, inaugurated the programme and addressed the gathering and stressed the need for eradication of malnutrition and deficiency diseases among children. Shri Usman A., Deputy Director, Women and Child Welfare Department briefed the role of trainers in training. The Scientist (Home Science), KVK, Gadag, resource persons from District Nutrition Rehabilitation Centre, Gadag and Karnataka State Rural Development and Panchayat Raj University endowed the trainers knowledge with their expertize on healthy foods for healthy life, importance of millets, nutri-garden, growth monitoring in children, F-75 and F-100 formulas. The video on nutri-garden was also shown to trainees. A group discussion on healthy foods and un-healthy foods was also part of the programme. organized. Fifty six officers participated and these officers are going to train anganwadi teachers in coming weeks, so as to eradicate malnutrition problem in the district.



ICAR-KVK, Ernakulam

Organic Manure From Fish Market Waste: Commercial Unit For Women Entrepreneur established

KVK Ernakulam established a commercial production unit for processing fish market waste into quality organic manure at Munambam, Ernakulam, Kerala. The unit that has a capacity to process 1MT fish waste in a month is established with funding of ATARI, Bengaluru. The partner women entrepreneur Smt. Ivy Jose earlier undergone a training at KVK during January 2021 and subsequently undergone a series of follow up trainings.

Fish waste management is the one of the serious issues faced by the retail fish cleaning and selling shops/markets, fish landing centres, small scale and large scale fish processing plants and shrimp peeling units in Ernakulam district of Kerala. On an average 35-45 per cent of the fish amounts as waste and is available centrally in fish markets as consumers prefer cleaned fish to whole fish. Presently substantial percentage of fish waste is being disposed by dumping into open water bodies creating serious environmental and health hazards.

The fish waste is a good source of essential nutrients required for plant growth. It contains the nutrients such as Nitrogen (9%), Phosphorous, (2%), Minerals (21 %), Calcium (5.8%), Potassium (0.6%), Sodium (0.6%), Magnesium (0.17%), Iron (100 ppm), Zinc (62ppm), Manganese (6ppm) and Copper (1ppm). The technology of composting fish waste to organic manure is by using microbial inoculum. The fish waste manure is branded as Fishlizer that contains Nitrogen (1.44%), Phosphorus (0.45%), Potassium (0.46%), Calcium (1.28%), magnesium (0.5%), Sulphur (0.15%) and Boron (11.3 Mg/kg). The amino acids present in fish would enhance flowering and fruit setting in plants favouring enhanced production. Standard recommendation is 200gm per plant as basal dose and 50 gm every subsequent 15 days interval. The KVK Ernakulam has been selling Fishlizer since 2015 and more than 5 MT sold in 1 Kg retail packets.

Entrepreneurship development programme on organic manure production from fish waste that covers production, packing, storage, marketing and technology backstopping the business for initial two years is offered by KVK (Ernakulam). Those who are interested can contact: The Senior Scientist & Head, KVK-Ernakulam, e-mail: kvk.ernakulam@icar.gov.in



ICAR-KVK, Hassan

Mushroom Growers Skill Development Training Programme

ICAR-KVK, Hassan inaugurated the 25 days skill developmental programme titled “Mushroom cultivation Techniques” sponsored by ASCI on 02-08-2021. Mr. Yogesh, DD, Horticulture Department in his inaugural speech briefed the trainees on the schemes and subsidies available in the department. Dr. Rajegowda, Senior Scientist and Head, KVK, Hassan has chaired the programme and during his presidential remarks he said that trainees should focus on group marketing rather than individual marketing of mushrooms to get more profit. Dr. M. Shivashankar, Scientist (Home science) KVK,

Hassan during his introductory remarks, mentioned the importance of skills in mushroom cultivation, market scenario and present statistics about mushroom cultivation. Dr. Nagaraja, T., Scientist (Plant Protection) KVK, Hassan has highlighted the 'nutritional importance of mushroom'. The programme was moderated by Dr. Sanketh, C. V., Scientist (Agricultural Extension).



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ICAR-KVK, Haveri

Horticulture Day Celebration at ICAR-KVK, Haveri



'Horticulture Day' was celebrated by KVK- Haveri (Hanumanamatti) in collaboration with IFFCO Ltd. Haveri on 09.08.2021 to commemorate birth anniversary of "Father of Horticulture" Dr. M.H. Marigowda, who revolutionized the Horticulture development in Karnataka. Mr. S.S. Patil, the Chairman of Taluk Agricultural Produce Co-operative Marketing Society (TAPCMS), Hirekerur taluk of Haveri district inaugurated the programme. During his inaugural speech, S.S Patil recalled the achievement made by Dr. M H Marigowda in the field of Horticulture.

Dr. Ashoka P, Senior Scientist and Head, KVK, Haveri narrated how efforts of Dr. M H Marigowda paved way for creation of Horticulture department in Karnataka and getting an independent status after its separation from agriculture department. During the programme, seedlings of custard apple, curry leaf and cashew have been planted by farmers, farm women and KVK staff in the premises of KVK farm. All the participants were distributed with vegetable seed kits and Horticulture plants. Totally 23 farmers (farm women and men) were participated and benefited in the programme.



ICAR-KVK, Idukki

Animal Health Campaign In Connection with Azadi Ka Amrut Mahotsav: India @ 75

Animal Health Campaign in connection with 75th Indian Independence Day celebration was conducted at Nettithozhu APCOS Milk Society Hall, Chettukuzhy, Vandanmedu on 2.08.2021 by ICAR KVK(BSS), Idukki in collaboration with IFFCO, Idukki and Kerala Dairy Department. Mr. K V Thomas, President, Nettithozhu, APCOS, milk society inaugurated the programme by

delivering valuable suggestions. He emphasized on the importance of animal health campaign for sustaining the productivity of the livestock. Awareness on importance of prevention and control of infectious as well as contagious diseases along with their control measures were given to the farmers. Farmers were made aware on the scientific livestock management and poultry practices, hygienic milk production and management practices through the Animal Health campaign.



During the camp Alembic Pharmaceuticals, Ernakulam, distributed Veterinary medicines to the farmers under the sponsorship of IFFCO, Idukki region. The program was made effective by conducting awareness training on livestock as well as poultry rearing practices including Ethno Veterinary Medicine practices by Dr. S. Jayababu, SMS (Animal Husbandry), ICAR-Krishi Vigyan Kendra, Idukki, Kerala. Mr. Rakesh P.S, Field Officer, IFFCO delivered the felicitation address during the programme. Sixty six farmers and five Extension functionaries participated in the Animal Health Campaign following the COVID -19 protocols. Sixteen livestock and nine poultry birds were treated during the Animal Health Campaign.



ICAR-KVK, Kalaburgi I

Planting of 75 Trees in Campus on Eve of 75th Independence Day

The planting of 75 trees on the occasion of Amrith Mahostav 75th Independence day programme was



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initiated by planting of trees by Minister of Large Industry, GoK., Sri. Murugesh Nirani. Sedam MLA Sri. Rajkumar Patil Telkur, MLC Sri. Sashil G. Namoshi and District Commissioner Smt. V.V. Jyothsna participated in the programme at ICAR- KVK Kalaburgi. Also, public representatives and officials visited 'Agri-Museum' of KVK Kalaburagi and witnessed low cost technologies developed by UASR scientists and progressive farmers of Kalaburgi district.



ICAR-KVK, Kalaburgi II

Capacity Development Programme on Use of Pulse Magic in Improving the Yield of Pulse Crops



ICAR-KVK, Kalaburagi-II (Raddewadgi) organized off-campus training programme on use of pulse magic in improving the yield of pulse crops on 10.08.2021 at DFI Village Beeranahalli Tq. Sedam Dist. Kalaburgi. Dr. N.Manjuntha, Scientist (Agronomy) gave lecture on role of pulse magic in improving the yield, seed quality and uniform maturity of pulse crops viz., green gram, blackgram and pigeon pea during kharif season. Dr. Basawaraj Kadanavar, Scientist (Agril. Entomology) explained the integrated pest and disease management in pulse crop and role of nipping technology in Pigeon pea. Sri. M.C. Patil, Technical Officer (Farm Management) explained the practical problems faced by the farmers during the continuous rainy period and suggested the remedies to overcome these problems in pulse crop and he also asked farmers to follow integrated crop management practices. Around 38 farmers participated during the off campus capacity development program including CFLD beneficiaries (black gram, green gram and pigeon pea). During this event scientists also made follow-up visits to CFLD on green gram and black gram fields and distributed pulse magic packets to CFLD beneficiaries.



ICAR-KVK, Kannur

Multi-Disciplinary Diagnostic Team (MDDT) Visits

Incidence of Pinhole borer in Arecanut

An MDDT visit of KVK scientists, officials from Department of Agriculture and ATMA was conducted at Padiyoor Panchayath as the incidence of a new pest was reported in arecanut. Pin hole borer (*Euplatypus paralellus*) attack was found in young seedlings of arecanut. Extrudation of yellowish brown jelly like substance from pin holes was noticed. Application of Quinalphos or chlorpyrifos was suggested as remedial measure.



Severe incidence of Giant African Snail

Giant African snails once brought for research in Kerala have turned Kerala into its home. Menace of African snail was reported from Chembilode, Munderi, Perlassery, Payyambalam and Chirakkal Panchayats of Kannur. To address the issue, an MDDT visit of scientists from KVK Kannur, PRS Panniyur and officials from Department of Agriculture was conducted and suggested the control measures like application of copper sulphate or common salt and tobacco decoction.



ICAR-KVK, Kodagu

Integrated Management of Premature Fruit Drop in Coffee

Coffee is one of the major commercial crop of Kodagu District covering 70% of the total cultivable area. The impact of Climate Change especially the variations in rainfall pattern both in terms of quantum and distribution is being experienced for the last three years in Kodagu district. High quantum of rainfall in short periods is leading to flooding of plantation, causing soil erosion, water logging in root zone and wet feet condition. Providing ideal conditions for the flare up of diseases causing defoliation and also the premature fruit drop, affecting the crop production to a great extent. Keeping this in view ICAR-KVK, Kodagu has taken up front line demonstration of management of premature fruit drop in coffee in 10 farmers fields in Devarapura village of





Ponnampet Taluk. The technology from Central Coffee Research Institute, Balehonnuru, Chikkamagalur involves spraying of 1% Bordeaux mixture along with 50 ml Plano fix (NAA) in 200 litres of water during June, spot spraying of Propiconazole 1.0 ml per lit, Soil application of Urea 100 gm per plant during mid-monsoon break and cleaning of cradle pits before onset of monsoon. This technology was demonstrated by Shri Veerendra Kumar K.V, SMS (Plant Protection) at Devarapura village of Kodagu district to manage the problem of premature fruit drop in coffee reported by farmers.

Indo-German Project Team Visits KVK, Kodagu



Indo-German project team visited ICAR-KVK, Kodagu to discuss about ongoing activities of KVK, cropping pattern for enhancing farmers income through implementation of scientific technologies and the district scenario of Human wildlife conflict mitigation. The team, accompanied by the district department of forestry discussed on various topics like alternate crops of non-grazing type, public awareness programmes on conflict management, training programme on value addition, marketing through EDP activities, enhancement of food source in the forest area for animals and safety measures for the public from wild animals.



ICAR-KVK, Kolar

Mass Awareness Programme on Management of Mites Infested Mulberry Garden

Kolar district is well known for its silk production. The mulberry crop occupies an area of 19617 ha in the district. Since 20-25 days, many farmers have contacted KVK and sericulture department complaining severe deformities of young leaves on growing shoots. In this



During the survey, it was observed that the mulberry crop was severely infested with yellow mite, *Polyphago tarsonemus latus* found feeding in huge numbers on the lower side of young growing leaves resulting in upright, small and light yellow coloured leaves. Farmers were suggested to spray Proparagite 57 EC@1.5 ml per liter of water or Chlorfenapyr 10 SC@1.5 ml per liter of water at 15 days after bottom pruning and consecutive sprays at 10 days interval. The farmers were advised to maintain a safety period of 20 days after spraying.



ICAR-KVK, Koppal

Awareness Programme for Adolescent Girls on Health, Hygiene, Nutrition and Life Skills



An awareness programme on health, hygiene, nutrition and life skills for school dropout adolescent girls was organized by the KVK, Gangavathi in collaboration with ICDS on 20/7/2021 at KVK Gangavathi. Adolescent girls were briefed about reproduction, health issue, services and malnutrition. Along with these adolescent girls were also advised about different life skills and personal development.





ICAR-KVK, Bidar

A Journey of Metre Brothers - 'Industry Labour to Farm Entrepreneurs'

Entrepreneurship is the capability to develop ideas and attain success with them. Innovations, ability to accept changes, face the risks and organizing the resources are some of the factors involved in creating a sustainable enterprise. Metre Brothers from Gogga Village in Bidar district of Karnataka started their journey as labours in industry at Mumbai. After 6 years they decided to come back to their native village because of decline in their income.

With the technical backup from ICAR Krishi Vigyan Kendra, Bidar Sri Shivaraj (45 years) and Sri Namdev (42 years) started farming drumstick and sugarcane in their 4 ha of land. They got good yield and price for both the crops. Since sugarcane is a long duration crop, they have to wait for a year to get the income. In order to get regular and continuous income on weekly and daily basis KVK Bidar suggested them to go for vegetable crops and on the same year they were selected for Integrated Farming System (IFS) during 2014. This initiation boosted them and now they have vermi-composting, bio-fertilizers usage, eco-friendly pest management, micro nutrient management along with livestock (cow). They have adopted technologies like use of improved varieties and hybrids in vegetables like, tomato, chilli, beans cabbage, cauliflower. Now they gained practical knowledge and field experience regarding vegetable production. With the help of Horticulture department they have installed shade net that helped in excelling in vegetable productivity. Now they are champion farmers for cabbage and cauliflower production.



With the advice of ICAR-KVK Bidar they are earning handful of money. Further Metre brothers were linked with vegetable growers. Now in addition to vegetable nursery now they have extended it to papaya seedlings production. Today these two extended their service to the hundreds of farmers in the district as well as nearby district and to states like Maharashtra and Telangana. Along with sale of the seedling they are extending their service on no cost basis over phone and also by need based visit to the farmers fields.

The hard working nature and honesty helped them to establish themselves and also to have a good rapport with the fellow farmers. Methre brothers are now successful agricultural professionals who grow crops and take care of their animals on farms. They work all the day and hours in nursery use their business skills to find buyers for vegetable seedlings. Now their earnings from nursery seedlings of papaya, chilli, cabbage, cauliflower, tomato, brinjal, watermelon, muskmelon, marigold, sugar cane and ginger is more than 30.00 lakhs per annum and they are also giving employment to 12 farm women daily.

Finally they say self-employment gives more freedom in choosing what crops you need to grow or niche to specialize for better prospects in our location for the benefit of our farmer friends.



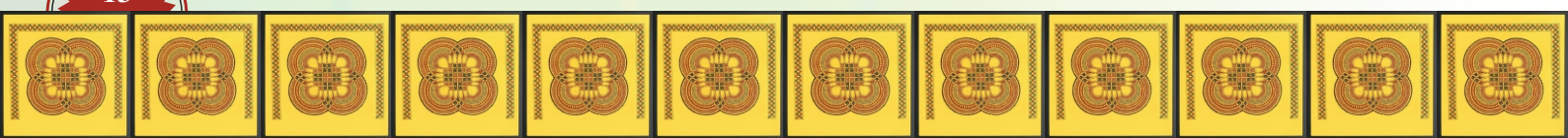
ICAR-KVK, Kozhikode

Sree Reksha Cassava, a mosaic resistant variety introduced at Kozhikode

ICAR- Krishi Vigyan Kendra, Indian Institute of Spices Research, Peruvannamuzhi introduced Sree Reksha, a new cassava variety of Central Tuber Crops Research Institute, Trivandrum. This variety attains maturity in 8 to 9 months period, yielding 8-17 kg tubers per plant and highly immune to virus attack. An introductory class on “Tuber crops cultivation especially



of tapioca” by Dr Susan John, K, Principal Scientist, CTCRI was held with contents like Sree Reksha cassava



variety special features, cultivation practices and economic benefits. Sree Pavithra and Sree Reksha Cassava variety cuttings were procured from CTCRI, Trivandrum and planted at Naduvannur, Kottur, kattipara, Thamaraserry, Maruthonkara Panchayats and other parts of Kozhikode through 50 selected progressive farmers covering about 5 ha of land. These farms will serve as mother garden for the supply of Cassava varieties. The programme was inaugurated by Dr P. Ratha Krishnan, Programme Coordinator, KVK by issuing cuttings of the variety to Mr Jasar Perambra, a progressive farmer.



ICAR-KVK, Mallapuram

Post GI Capacity Building of Tirur Betelvine Grower Communities



Tirur betelvine growers who have achieved the Geographical Indication (GI) status through the concerted efforts of the IPR cell of the KAU and the Department of Agriculture, Govt of Kerala have encountered many problems related to Post Covid supply chain disruptions. KVK Malappuram has been hand holding the betel vine growers with cost effective technologies to reduce the cost of cultivation. KVK has started tapping on the linkage with NABARD to coin a project for the grower capacity building with developing innovation platforms to synergise various actors involved. The activities envisaged are scaling up of application of Trichoderma Enriched Coir pith as manure from the KVK, organising stakeholder meet for effective marketing linkages, adoption of organic farming technologies such as foliar application of vermiwash, panchakavya and jeevamrutham. KVK has launched social media groups of grower communities and a chief farmer network for advisories.

Launching of common Processing facilities under ARYA



The common Processing facilities at KVK under ARYA to promote entrepreneurship among youth had been inaugurated by the Director, ATARI months ago. In line with the directions, five machinery were launched this week to offer incubation facilities for youth in KVK. The continuous sealer, cabinet drier, fruit mill, kettle and pulverizer were launched in KVK to offer services of a



common facility centre for youth and also to backstop NRIs who have suffered reverse migration due to COVID Pandemic.



ICAR-KVK, Mandya

Release of Fingerlings in Farm Pond :

ICAR-Krishi Vigyan Kendra, V.C.Farm, Mandya in collaboration with Department of Fisheries conducted on-campus training programme on 11.08.2021. During the programme Mr. Bipin Bopanna, Deputy Director, Dept. of Fisheries enlightened the participants about methods of fish rearing, market facilities, value addition and facilities available from the department to different categories of farmers. Dr. Naresh N.T, Senior Scientist and Head, KVK informed the farmers that Mandya district is having canal water facilities youth of the district should come forward to take up fisheries activity and help the family in getting additional income and sustain the family. Scientist (Horticulture and Sericulture) and Dr. Mahesh.H.M were present in the programme. On this occasion fingerlings were released into the KVK farm pond.



"Agriculture is the most healthful, most useful and most noble employment of man" - George Washington



ICAR-KVK, Kollam

Invasion of Giant African Snail in Kollam District

Giant African Land Snail, *Achatina fulica* (Stylommatophora: Achatinidae) is the second worst polyphytophagous (>500 plant species including agricultural crops) invasive pest species of terrestrial land snail native to East Africa invaded most part of world which crucially affected in subtropical and tropical regions. In the current year, the outbreak of African snail was first reported from Ezhukone Panchayat in Kollam district during the month of May and a Team of scientists from KAU along with the scientist from KVK, Department officials, panchayath representatives visited the place and wide awareness campaign publicity was given through different mass media.

Current status of Giant African Snail Invasion

The Giant African snail problem has aggravated several folds and created a menace to the locals as well as farmers by destroying the public places and the crops cultivated. A detailed survey on the invasion of giant African Snail in Kollam district was conducted by Krishi Vigyan Kendra Kollam with the help of department officials to map the invasion of giant African snail incidence and the results thus obtained is very alarming with the invasion spread to 9 blocks (out of total 11 blocks in Kollam district) covering 26 panchayaths (out of 69 panchayaths) with a 13 percentage increase in spread over 5 years by invading 78 wards in different panchayaths. Among the different panchayaths, Velinelloor and Vilakkudy are the severely affected panchayaths. A comparative study between data on the invasion of Giant African snail in Kollam district during 2014 and 2021 were carried out and found that, the extent of spread was increased by several folds.

Action plan for combating the invasion of Giant African snail

The giant African snail management needs to be done in a long term vision mode. The biology of giant African snails implies that the multiplication and egg laying coincide with the rainy season. Each snail is capable of laying approximately 1200 eggs and hence the management options need to be focused before egg laying. Hence the apt correct time for doing the management of giant African snails is the summer season or during the summer showers. KVK, Kollam with the support of district crop health and ATMA team of Department of Agriculture Kollam has mapped the distribution cum invasion of giant African snails in different blocks of Kollam district. Many of the places like blocks, panchayaths and wards were visited by our multi-disciplinary team of KVK and mapped and identified the severity. Current surveys and studies revealed that the spread of the giant African snail across Kollam district is very crucial and the situation will be dangerous unless and until we take appropriate measures for managing them at the right time. Mass awareness programmes for the panchayath members, extension functionaries, people, farmers, health workers, and Asha workers, harithakarma sena members of affected and non-affected wards were conducted through offline and online mode. Also KVK arranged a mass campaign for setting up of traps to attract Giant African Snails and methods to kill the attracted ones.





ICAR-KVK, Mysore

Millets Awareness Programme

ICAR JSS Krishi Vigyan Kendra Suttur in collaboration with Department of Agriculture K R Nagar taluk has organized Millet awareness programme under National Food Security Mission scheme on 5th August 2021 at Mirlehubli K R Nagar taluk. The programme is presided by Mr. Dhananjaya D. N., Deputy Director of Agriculture (DDA), Hunsur division and inaugurated by Mrs. Geeta, President, Grama Panchayath, Mirle. The DDA Hunsur has given presidential remarks on traditional cultivation of millets in ancient period and importance of millets in the diet for modern lifestyle.



Mrs. N. Jamuna Urs, Rtd. Scientist (Home Science), ICAR JSS Krishi Vigyan Kendra Suttur has participated as a resource person and delivered speech on nutritional value of millets, importance of millets in improving health and preparation of different millet recipes. Another resource person Mr. Anand K., a millet growing farmer cum entrepreneur from Mysuru shared his experience of cultivating, processing, and value addition of different millets. Mr. Anand also talked about marketing of the millets. The millet cooking competition was organized for rural women. Nearly 18 women have participated in the competition. Similarly, Millet Drawing competition was organized for school children to educate more about millets, nearly 22 students have participated in the drawing competition. Prizes and certificates were distributed to the winners of the both the competition and participation certificates were issued to all the participants for both the competition.

Mr. Krishnegouda, President, Jalasiri Farmers Producer Organization, MirleHobli, Mr. Ramprasad, Project Office, Jalasiri FPO, Mrs. Veena, ATMA staff and nearly 60 farmers and farm womens from Mirle and neighbouring villages were participated in the programme. Mrs. Divya H.V., Senior Scientist and Head (I/C), ICAR JSS KVK Suttur welcomed the guests and participants, also gave introductory remarks about the program. Mrs. Netravati Yattinamani, KVK Suttur moderated the programme and Mr. Guruprasad, ADA, Department of Agriculture, K.R.Nagartaluk, presented vote of thanks.



ICAR-KVK, Palakkad

Management of Quick Wilt in Pepper at Poopara Tribal Colony Inside Parambikulam Tiger Reserve



Pepper is the major source of income for the tribes in Poopara, a tribal village inside the Parambikulam tiger reserve in Palakkad district. Pepper is cultivated in 30 ha of land in the colony. Severe drying up of pepper vines were reported in this area during 2020 November. Experts from KVK Palakkad visited the place along with officials from state Department of Agricultural Development and Farmers' welfare, tribal welfare Department and Forest department. Wide spread incidence of quick wilt was observed and confirmed. Recommendations for the management of disease were given. Scientists from IISR also visited the area and confirmed the disease. They funded the proposal for the management of quick wilt in pepper in Poopara colony. But the tribes were totally unaware of pesticide application. Hence a proper guidance was highly essential for adopting proper management practices. KVK conducted a method demonstration in the colony on preparation and application of Bordeaux mixture. 56 tribal families of the colony participated in the programme. It was decided to take forward the proposal for integrated management of pepper plantation in Poopara involving all the stake holders.

'Onakkoottu' – A Pack of Onam Special Value Added Products from KVK Palakkad



The sale of Onakkoottu was inaugurated at KVK Palakkad as a part of the revival of the food processing unit of the station. Onakkoottu is made with a variety of

He who plants a tree, plants a hope.

processed products such as banana chips, sarakkaravaratti, puliyinchi, banana payasam and pickles under the guidance of Dr. Reshmi R., Assistant Professor, Home Science. Onakkoothu was prepared with special emphasis on banana, the 'One district one product' crop of the district. Dr. Jayasree Krishnankutty, the Director of Extension, KAU presided the function and Smt. O. Lakshmikutty, Municipal Chair person, Pattambi inaugurated the function. Sri. P.K. Abdul Majeed carried out the first sale by handing over the Onakkoothu to the emerging entrepreneur Smt. Bindu Sivan.



ICAR-KVK, Pathanamthitta

Mukulam: A Replicable Model For Empowerment Of School Children In Agriculture



During the pandemic COVID-19, KVK initiated online programmes for the school children as part of the Mukulam programme. A child being the future of tomorrow, it is very essential that a culture relating to agriculture or farming be inculcated in them from a very young stage. Keeping this in mind Krishi Vigyan Kendra initiated a comprehensive programme for children of the district called Mukulam, with a sole aim to create awareness among children about biodiversity conservation, food security and climate change during the year 2010. In the past 10 years Krishi Vigyan Kendra was able to spread the message of “Mukulam” to 27000 family members through 5400 students covering 72 schools that participated in the programme. During the past 10 years the school vegetable garden alone contributed to a turnover of Rs. 12.6 lakhs with a production of 25.2 tonnes, part of which they used for the midday meal programme of the school and the rest sold for enabling the students to “earn while they learn”. Mukulam 2021 includes capacity development of school children on topics like safe vegetable cultivation, rainwater management and resource conservation, micro-greens to boost immunity during COVID pandemic, aquaponics, backyard poultry rearing, honey bee rearing and value addition of seasonal crops. The capacity development programmes includes, trainings, quiz competition and seminars. The expected outcome of the Mukulam 2021 programme is to sustain the interest of the Eco club members of the school children in farming during the prevailing COVID pandemic period. As part of the programme 2500 vegetable seedlings and bio-control agents have been distributed to 10 selected schools in the district. The programme was inaugurated by Rt. Rev. Thomas Mar Timotheos Episcopa, Chairman, KVK, Pathanamthitta.

Workshop on Climate Resilient Dairy Farming: Challenges and Opportunities

A Workshop titled 'Climate Resilient Dairy Farming: Challenges and Opportunities' was organised by ICAR Krishi Vigyan Kendra, Pathanamthitta on 12th August 2021. The workshop was presided over by Rev. Abraham P. Varkey, Director CARD and inaugurated by Dr. V. Venkatasubramanian, Director, ICAR - ATARI, Bengaluru. The keynote address was delivered by Dr. Jayasree Krishnankutty, Director of Extension, KAU. The technical session was led by Dr. Muralidharan P, Principal Scientist and Head, ICAR- KVK, Alappuzha and had deliberations on Emerging diseases in dairy sector with emphasis to monsoon season, feed management during monsoon season, strategies for clean milk production and technologies for climate resilient dairy farming. Schemes of department of Animal husbandry, dairy development department and NABARD support for agricultural development were also presented. An open forum (Farmers scientists interface) and panel discussion was also part of the programme.





ICAR-KVK, Raichur

District Commissioner Inaugurates Veterinarian's Workshop at KVK, Raichur



Technical Seminar for Veterinary Doctors was organised on 6th August 2021 at ICAR-KVK, Raichur by Department of Veterinary and Animal Sciences, Raichur in collaboration with KVA, Raichur Chapter and ICAR-KVK, Raichur. This programme was inaugurated by District Commissioner Dr. Satish B.C. In his inaugural speech, he remarked that livestock are the integral parts of agriculture and they provide sustainable prosperity in agriculture and the role veterinarians play a key role in achieving sustainable farming. Besides, he said the veterinarians have to acquire the knowledge about new technologies in the field of animal science and have to serve the farming community with dedication. Further, he informed that the Government has sanctioned Ghoshala to the district which will be handed over soon. During this occasion, pamphlets on prevention of cruelty to animal and toll free helpline number of Veterinary Department were released.

Dr. D M Chandargi, Directorate of Extension, in his speech informed about the new technologies and on-going activities of the ICAR-KVK Raichur. Further he said that livestock keeping is one of the important subsidiary occupations among allied agriculture activities. Dr. Shivanna, Deputy Director, AH & VS, Raichur, Dr. Amaregowda, President of Karnataka Veterinary Association, District Chapter; Dr. Pralhad Ubhale, Head and Senior Scientist of the ICAR-KVK, Raichur, Assistant Directors, 35 Veterinary Officers and KVK scientists took part in the programme.



Formation of FPO by KVK, Raichur

University of Agricultural Sciences, Raichur has been in forefront to carry out various activities to strengthen the socio-economic status of the farming community. ICAR-KVK, Raichur formed "Bettada Basaweshwara Farmer Produce Company Ltd." at Jakkaladinni, Sirwara taluk, Raichur (Dist.) in association with ICAR-IIMR, Hyderabad and by the ceaseless support of Dr. K. N. Kattimani, Honourable Vice Chancellor and



GOVERNMENT OF INDIA
MINISTRY OF CORPORATE AFFAIRS
Central Registration Centre

Certificate of Incorporation

[Pursuant to sub-section (2) of section 7 and sub-section (1) of section 8 of the Companies Act, 2013 (18 of 2013) and rule 18 of the Companies (Incorporation) Rules, 2014]

I hereby certify that BETTADA BASAVESHWARA FARMERS PRODUCER COMPANY LIMITED is incorporated on this Tenth day of August Two thousand twenty-one under the Companies Act, 2013 (18 of 2013) and that the company is limited by shares.

The Corporate Identity Number of the company is U01100KA2021PTC150615.

The Permanent Account Number (PAN) of the company is **AAKCB0629D**

The Tax Deduction and Collection Account Number (TAN) of the company is **BLRB21480E**

Given under my hand at Manesar this Tenth day of August Two thousand twenty-one.

Digital Signature Certificate
KAMAL HARJANI

For and on behalf of the Jurisdictional Registrar of Companies
Registrar of Companies
Central Registration Centre

Disclaimer: This certificate only evidences incorporation of the company on the basis of documents and declarations of the applicant(s). This certificate is neither a license nor permission to conduct business or solicit deposits or funds from public. Permission of sector regulator is necessary wherever required. Registration status and other details of the company can be verified on www.mca.gov.in

Mailing Address as per record available in Registrar of Companies office:
BETTADA BASAVESHWARA FARMERS PRODUCER COMPANY LIMITED
C/o HARISHCHANDRA GOUDA P, H.NO. 2/52, JAKKALADINNI,
MANVI, Raichur, Karnataka, India, 584129

* as issued by the Income Tax Department



Dr. D. M. Chandargi, Directorate of Extension, UAS, Raichur. Over 30 years back, Jakkaladinni was one of the identified village in growing chilli, pigeon pea, chickpea and paddy. There was a special demand for chilli in the market called Jakkaladinni chilli. As time passed, the quality was deteriorated and area under chilli was reduced due to climate change and unscientific management practices. After the intervention of KVK, Jakkaladinni has been selected as one of DFI village and carried out different agricultural and allied activities to double the farmers income. Facilitated drinking water by sponsoring village pond under KAPC project and formation of FPO is another milestone towards doubling the socio-economic status of the farming community.

"The discovery of agriculture was the first big step towards civilized life." - Arthur Keith

Rural Unemployed Youths of Ballari Find Their Sustainable Livelihood in Stall-fed Sheep Rearing

Traditionally, sheep rearing is an integral part of rural livelihood in Karnataka and more so in semi-arid regions of Kalyana Karnataka. The sheep population of about 2.60 million (Livestock Census, 2012) in Kalyana Karnataka with highest percentage (29.1%) in Ballari district indicates the importance of sheep rearing in this region. In recent times, stall feeding of sheep has emerged as a new livelihood option for rural youths as it does not need sheep to be taken for grazing. Other positive attributes of this technology that attract the youths are - a never fading demand for mutton, demand for male fattened lambs (rams) in local market, returns realised in just 6-8 months of rearing, no threat of market fluctuations and availability of two important meat breeds of sheep in the region – Ballari and Kenguri along with Elaga (Ameengad Sheep) of Bagalkote area.

KVK, Ballari has been training rural youths on scientific aspects of stall fed sheep rearing in collaboration with Dept of AHVS and Canara RSETI, Ballari since past 7-8 years but the number of youths approaching KVK for training has increased many folds during COVID 19 pandemic. Both online and offline training programmes have been carried out during the pandemic. Among the youths who have been trained so, 30 in Ballari district and 10 youths from different parts of the state are practicing stall fed ram lamb fattening for livelihood. Farmers of Ballari are supported by supplying seeds of quality fodder like CoFS 31, Hedge lucerne and Sesbania for scientific fattening.

For fattening, male lambs are purchased at or one-month after weaning (@ 3 months) from local shepherds. Lambs are fattened for next 6-8 months to coincide a festival like Bakrid when the demand for mutton is more. By that time, a live body weight of 40-45 kg per lamb is achieved. Farmer gets a minimum of Rs. 5000 net profit per lamb. So if one rears 30-50 lambs based on his resources, he is sure to get a profit of Rs.1,50,000 - 2,50,000 in just 6-8 months. Thus, a sustainable income for a livelihood in a shorter duration is achieved during each year. Kenguri and Elaga prove to be the best sheep breeds under stall fed conditions of semi-arid Ballari region and perform to their fullest potential.





ICAR-KVK, Ramanagara

Demonstration on Precision Laser Land Levelling for Direct Seeded Rice Cultivation in Ramanagara District



Paddy is the major irrigated crop grown under puddled transplanted condition, presently facing the problems of scarcity of water, high labour cost, poor nutrient use efficiency and increased cost cultivation. In order to address these issues Krishi Vigyan Kendra, Ramanagara has planned FLD on “Demonstration of direct seeded rice in irrigated rice cultivation”. To realize the better results from direct seeded rice cultivation, laser land levelling is the pre requisite. Hence, the demonstration of precision land levelling with laser land leveller was held in selected demonstration plots in three taluks of Ramanagara district. The laser land levelling helps in maintaining proper depth of sowing with seed drill, uniform crop stand, crop maturity, higher water application efficiency and crop yield. In this demonstration KSDA officials and farmers participated.



ICAR-KVK, Shivamogga

Human Resource Development Programme for SC Community



ICAR-Krishi Vigyan Kendra, Shivamogga has organized the human resource development programme for livelihood upliftment and awareness programme on Government policies and schemes for scheduled caste clusters from 11-08-2021 to 16-08-2021.



ICAR-KVK, Thrissur

KVK Supports SC Farmers Under SCSP Project at Madakkathara



ICAR - Krishi Vigyan Kendra , Thrissur is implementing the Scheduled Caste Sub Plan of Govt of India for development and upliftment of marginalized SC farmers of Madakkathara panchayath and other nearby panchayaths having higher percentage of SC farmers. Input kits comprising of Sreya (bio pesticide), Ayar (Secondary micronutrient mixture), Sampoorana (Micronutrient mix) and Fish amino acid (growth promote) were distributed to farmers. The programme aims to handhold the SC farmers in their agricultural activities by providing continuous technical support.

The programme was inaugurated by Dr. M. K. Naik, Hon'ble Vice-Chancellor, Keladi Shivappa Nayaka University of Agricultural and Horticultural Sciences, Shivamogga. The programme was presided by Dr. K. C. Shashidhar, Director of Extension and Dr. S. U. Patil, Associate Director of Extension, KSNUAHSS participated as chief guest.

During this programme, the Deputy Directors of different line departments viz., Agriculture, Horticulture, Animal Husbandry, Fisheries, Sericulture, Small Scale industry, Social Welfare Department were given the information on Government policies in their concerned departments and different schemes which are available in the district for SC clusters.

The KVK scientists delivered the lectures on value addition in agriculture and horticulture crops, sheep and goat farming, backyard poultry, income oriented horticulture activities, mushroom cultivation, integrated farming system, vermicompost and bio-fertilizer production, bee keeping, establishment of nutrition garden for health and nutrition security. Also given the information on income generation activities and importance of ICT in marketing of agriculture and horticulture produce. On 15-08-2021 participants were taken as exposure visit to Apiary at Chipli village, Sagara taluk.

Totally 25 members from SC community of Shivamogga district were participated and got benefitted from the programme.



DSR Method of Paddy Cultivation : An Alternative to Transplanted Method of Paddy Cultivation



Ballari is known for cultivation of fine quality rice. Paddy is the major crop of Ballari District cultivated over an area of 90000 ha in TBP irrigation command under transplanted method. Unscientific water management i.e., continuous stagnation of water in transplanted method has led to deterioration of soil physical properties, leaching loss of applied fertilizers and increased soil salinity in the TBP command area. On the other hand scarcity of water especially to tail end farmers of TBP irrigation command has forced farmers to adopt DSR method of paddy cultivation technology developed by UAS, Raichur. During the year 2014-15, ICAR-KVK, Ballari has introduced DSR method in the District through FLDs and created awareness among farmers through trainings, group meetings and media coverage. Gradually the area under DSR method is increasing over years and at present the area under DSR method is to the extent of 10000 ha in the District.

The technology is gaining popularity among the farmers of district owing to its advantages namely, lesser seed requirement (reduces seed cost to the extent of Rs.1500/ha), reduced cost of cultivation (cost on land preparation, nursery, transplanting cost reduced to the extent of Rs.15000/ha), 25-30% water saving, similar yields compared to that of transplanted method, lesser incidence of BPH and other pest and diseases (reduces cost on plant protection to the extent of Rs.5000/ha) and crop comes to maturity early by 10-15 days. The key issues for consideration in DSR technology are- depth of sowing should not be more than 3cm and normally sown with seed cum fertilizer drill both under dry and wet conditions. Use of pre-emergent herbicide (pendimethaline) at the time of sowing and post-emergent herbicide (Bispyribac Sodium) at 25 DAS is critical and inter cultivation or hand weeding at 50- 60 DAS.

Technology is catching the eye of many traditional paddy growers as it saves water as well as the money spent in the process of production.





ICAR-KVK, Trivandrum

Automatic Drip Irrigation System for Sustainable Vegetable Production



Vegetables available from market are not fresh and are not totally organic. The need for having fresh produce have prompted people to utilize their terraces for cultivation using grow bags. More than 18,000 terrace gardens have been promoted since 2016. During summer, plants face severe drought leading to plant wilting. It is here that automatic drip irrigation helps to a great extent.

Automatic low cost drip irrigation system includes, among others, the drip kit, booster pump and timer. This innovative technique attracted people in urban and semi-urban areas to adopt the technology for roof top vegetable cultivation.

Mitraniketan Krishi Vigyan Kendra, Thiruvananthapuram, Kerala, addressed these issues by training rural youth in installation and maintenance of automated drip irrigation system for terrace gardens. During the lockdown period digital timer, submersible pump, water tank and drip systems were installed at Vamanapuram, Nanniyoude, Kallara, Peringamala and Manickal Panchayats covering 33 households of Thiruvananthapuram district. This was conducted as a part of Vamanapuram Block LSGD Project where ASCI – Micro Irrigation Technicians steered the mechanism at field level.

According to farmers' feedback drip irrigation saved about 60% of water compared to manual hose irrigation, increased yield by 24% with 95% water use efficiency. Introduction of automated system has resulted in lot of developments in crop production like improvement in water saving, increase in crop yield, enhancement in water as well as fertilizer use efficiencies and greater benefit cost ratio as well, in comparison to general micro irrigation system.



ICAR-KVK, Tumkur I

World Breast Feeding Week 2021

World Breast Feeding Week 2021 was organized at ICAR-KVK, Konehalli, Tumakuru-I in collaboration with Women and Child Welfare Department, Gram Panchayath and Health Department, Tiptur on 03.08.2021. M S Madhuswamy, Gram Panchayth president, Mathihalli inaugurated the programme.



Dr. Roopa B Patil, Scientist (Home Science) focusing on the theme "Protect Breast feeding: A Shared Responsibility" highlighted the importance of breast milk and nutrition during lactation. Dr. O R Nataraju, Senior Scientist and Head in his presidential remarks, stressed about importance of colostrums and nutrients in the breast milk. Smt. B N Prema, WCD Department in her introductory remarks spoke about care to be taken during lactation period. Vice President of Gram Panchayath, Mrs. Tejavathi, Dr. M H Shankar, Yoganand and Manjula Health department, K M Latha, Poshan Abhiyan, about 50 pregnant women, lactating mothers, parents, anganawadi workers and asha workers were present during the programme.



ICAR-KVK, Tumkur II

Board of Directors Meeting of FPO, Koratagere



An orientation programme for the Directors of FPO – Negila Siddhi was arranged at Thovinakere, Tumakuru District on 12th August 2021. This FPO was supported by NABARD, executed by Isha Foundation, Coimbatore as CBBO with Technical support from KVK, Hirehalli. In this meeting, the roles and responsibilities of the Directors were explained to them by the team in which Dr. Loganandhan, N., Head, KVK Hirehalli emphasized on the role played by KVK for their successful business venture.



ICAR-KVK, Udupi

Field Day Programme on Management of Vaucheria Species of Yellow Green Algae Weed and other Weed Species in Paddy Cultivation of Coastal Karnataka



Field day programme on Management of Vaucheria species of Yellow Green Algae Weed and other weed species in paddy cultivation of coastal Karnataka was organized on 12.08.2021 at Kundabarandadi village of Kundapura Taluk.

The programme was inaugurated by Dr. K C Shashidhar, Director of Extension, Keladi Shivappa Nayaka University of Agricultural and Horticultural Sciences, Shivamogga during his inaugural remark he congratulated the farmers of the regions for practicing in a scientific manner to bring down the yellow green algae weed load population and other weeds too. He also requested the farmers to spread this technology among the farming community in and around of your village.

The chief guests of the programme Dr. S U Patil, Associate Director of Extension, Keladi Shivappa Nayaka University of Agricultural and Horticultural Sciences, Shivammogga, Smt. Roopa Maada, Assistant Director of Agriculture, Department of agriculture, Kundapura, Dr. B Dhananjaya, Senior Scientist and Head, KVK Brahmavar were present in the programme.

The beneficiary farmers Mr. Babu Ganiga and Mr. Annayya Ganiga were happy with the technology given by the Scientists of Krishi Vigyana Kendra to overcome the menance of yellow green algae and other weeds in paddy cultivation. The programme was anchored and brief information of the programme was done by Dr. Naveen N E, Scientist (Agronomy), KVK Brahmavar.

Vote of thanks by Smt. Mamatha, Agriculture Officer, RSK, Vandse. Dr. Sachin U. S, Scientist (Plant Protection) and Ms. Jyothi, ATMA Officer, Kundapura were present in the programme. The programme was witnessed by 42 farmers.



ICAR-KVK, Uttara Kannada

Workshop on “Banana Flour (BaKaHu) Value Addition and Khadya Vaividya”

Workshop on “Banana flour (BaKaHu) value addition and Khadya Vaividya” was organized by ICAR-Krishi Vigyan Kendra, Uttara Kannada, Sirsi on 11.08.2021 at Sirsi.

The event was inaugurated by Dr. V. Venkatsubramaniyan, Director, ICAR - ATARI Zone-XI, Bengaluru. In his inaugural address, he expressed that banana powder contains more energy and potassium when compared to wheat and maida flour. Using of banana powder in the preparation of products enhances the nutritional value and can be exploited commercially. Organizing such workshops to create awareness and promote value addition will gain national and international opportunities. In today's scenario of health consciousness, BaKaHu like nutritious products will gain commercial importance and bring glory to the farming community.



Main attraction of the Workshop was Exhibition cum competition of BaKaHu value added products. Nearly 56 farm women and SHG members participated and exhibited more than 175 BaKaHu products in sweet, spicy and daily usable category. The exhibition highlighted the importance of banana powder products diversity and nutrition security.

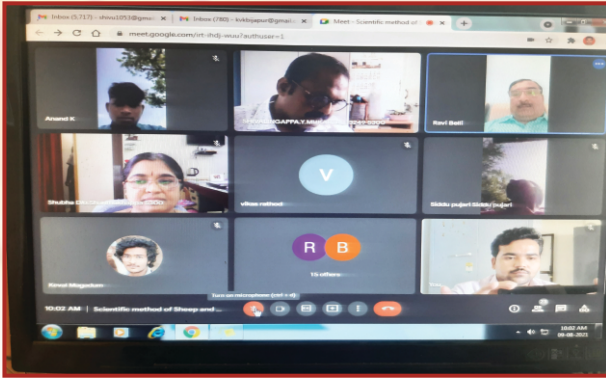
During technical session, Dr. Ravi Y, Scientist (Home Science), KVK Uttara Kannada, Sirsi emphasized on the nutrition composition and scientific processing of Banana powder (BaKaHu) and value addition.

Over 350 participants including Farmers, farm women, entrepreneurs, SHG's and other stakeholders participated in the banana workshop. The event was organized as a part of the “Azadi Ka Amrit Mahotsav” to commemorate 75 Years of Indian Independence.



ICAR-KVK, Vijayapura I

Capacity Development Programme on Scientific Sheep and Goat Rearing



Three days training programme on scientific method of Sheep and Goat rearing was organized through online by KVK Vijayapur from 12.08.2021 to 14.08.2021. Sixty eight participants took part in the programme. Dr. R. B. Belli, Associate Director of Extension, AEEC, Vijayapur while inaugurating the programme said sheep and goat are like ATM to farmers. Deputy Director of AHVS, Vijayapur, Dr. Pranesh Jahagirdar talked about schemes in the department. Shri. Vikas Rathod from NABARD, briefed about the loan facilities available. Dr. S. Y. Mukartal, Dr. Anilkumar and Dr. Vilas Kulkarni, Former Dean (Agri), AC, Vijayapur covered various aspects of scientific sheep and goat rearing. Dr. Shubha S, Senior Scientist and Head, KVK, Vijayapur welcomed the gathering and Dr. Shivalingappa Hotkar extended vote of thanks.



ICAR-KVK, Vijayapura II

Rapid Roving Survey to Lime Orchards



Several problematic citrus fields were visited by scientists of ICAR KVK Vijayapura-II (Indi), in Bairunagi village of Indi Taluk. Wherein majority of the yield losses and low market rate was due to pests and disease with citrus canker, leaf miner and mites. Suitable measures are suggested by the scientist to improve the yield and market value.



ICAR-KVK, Waynad

Processing of Tapioca at ICAR-KVK, Waynada



ICAR-KVK Waynad helped tapioca farmers during COVID-19 Pandemic. HortiCorp and ICAR- KVK, Waynad joined hands to help the farmers to get their produce processed through drying using the Common Facilitation Centre of KVK Waynad. This drying technique of tapioca enables the farmer to store dry tapioca for 6-12 months and sell the same when there is a demand in the market. Also, processed drying of tapioca fetches higher market price thus ensuring more benefits in terms of economic returns to farmers. KVK Waynad could processed 3 tonnes of tapioca during June- July using the limited demonstration facilities available at the office with the help of SHG unit. KVK thus helped SHG women to earn livelihood by value addition to tapioca.



ICAR-KVK, Yadgir

Capacity Development Programme on FPO Functioning



The Shorapur millet producers company limited is formed in Shelgi cluster of Shorapur taluk in collaboration with Indian Institute of Millet Research, Hyderabad. The capacity development programme was organized on 11.08.2021 in Mushtalli village regarding FPO functioning, its usefulness and encouraged the farmers for holding shares of FPO and get its benefits. The farmers showed lot of interest and gave their consent to become members in large numbers.



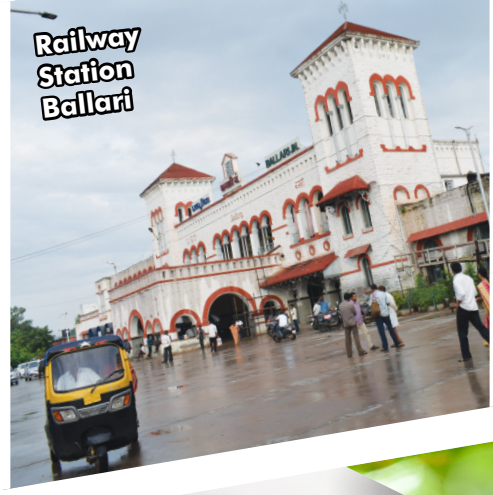
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Sandur



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Mincheri Hills



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Ankasamudra



Hampi



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Daroji Karadi Dhama



KVK TIMES

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

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