

# KVK TIMES

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

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CARD INDIA

**ICAR – KRISHI VIGYAN KENDRA, PATHANAMTHITTA  
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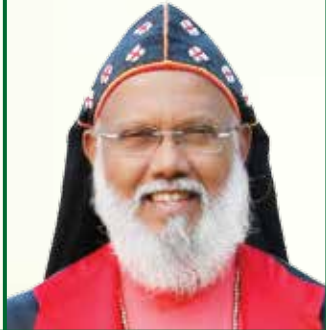
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## Malankara Mar Thoma Syrian Church CHENGANNOOR - MAVELIKKARA DIOCESE



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## MESSAGE

India has witnessed a silent evolution evolving from a food deficient and import dependent nation to a Global agriculture powerhouse today. Even post covid, the agriculture sector has shown great resilience. The government has been putting in immense effort in encouraging a climate smart and sustainable agriculture. The technologies developed in agriculture and allied fields should reach the farming community in time to harness its benefits. This is where the KVK's can play a very great role.

ICAR Krishi Vigyan Kendra ,CARD, Pathanamthitta hosted by Christian Agency for Rural Development, (CARD), the rural Development wing of Malankara Mar Thoma Syrian Church is in its 27th year of serving the farming community. I am proud to mention that the sincere efforts of the KVK team enabled us to bag the Pandit Deendayal Upadhyay Krishi Vigyan Protshahan Puraskar for the year 2017. This appreciation makes us more responsible to accomplish the challenges faced by the farming community in the district. I am sure that the KVK team will strive to work for the interest of the farmers of the district.

We Believe that documentation of all the technologies and activities of the KVK's of Zone XI under the leadership of Dr. V Venkatasubramanian, Director, ATARI will lead to evolution of new ideas. The KVK times could not have been completed without the prompt response and the contribution of the fellow KVK fraternity in Zone XI. I applaud their efforts and efficient collaboration. On this occasion, I congratulate Dr. C. P. Robert and Team for their sincere and relentless effort in bringing out the 35<sup>th</sup> edition of KVK times. May god bless you and pray for all success in this endeavor.

Chengannur  
12 December 2022



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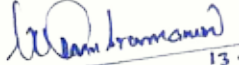


## FOREWORD

Indian agriculture supports 58 % of the population as against about 75 % at the time of independence. The country has made substantial achievement in agriculture since the onset of green revolution in late 60's. Natural resource base of agriculture that provides sustainable production is shrinking and degrading thus adversely affecting productivity of the land. However, demand for agriculture and productivity is ever-increasing due to increased population. This calls for identifying severity of the problem confronting agriculture sector and to provide suitable technology backstopping in improving productivity and profitability in agriculture.

KVK being the light house for technology support to the farming community plays a vital role in abrupt sharing of knowledge and technology. 48 KVK's in Zone XI of ATARI placed in states of Kerala, Karnataka and Lakshadweep Union Territory has immensely contributed in enhancing agriculture productivity and farmer income thus ensuring sustainable social and livelihood security of farm families.

I am happy that KVK Pathanamthitta is bringing up the 35th Volume of KVK Times covering the first fortnight of Dec 2022. I congratulate the KVK fraternity of Zone XI specially Dr. C. P. Robert, Senior Scientist and Head and his team of KVK, Pathanamthitta for bringing out this unique edition of KVK Times.

  
13.12.2022  
(V Venkatasubramanian)

Bengaluru

13 December 2022

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**DR. JACOB JOHN**  
Director of Extension  
Kerala Agricultural University

## MESSAGE

I am happy to realize that ICAR-KVK, CARD, Pathanamthitta is entrusted with the responsibility of bringing out the 35<sup>th</sup> edition of KVK Times, a fortnightly e-publication documenting and publishing programmes and activities of 48 KVKs' in Kerala and Karnataka States and Lakshadweep Union Territory.

The e-publication has been meticulously documented, systematically edited and hence, emerged well. The knowledge base shared by each KVK is unique and would also serve as a repository of agriculture-based information across the states. This is pertinent, particularly when the NARS strives for enhancing the crop productivity with an ultimate goal of enhancing farmer income thereby ensuring our nation's food security.

I take this opportunity to congratulate Dr. V. Venkatasubramanian, Director, ATARI, Zone XI, Bengaluru for the innovative idea of bringing out KVK Times, which is perhaps the first of its kind in the country among KVKs. My sincere appreciation to KVK fraternity in Zone XI, especially team KVK, Pathanamthitta led by Dr. C. P. Robert, Senior Scientist and Head. I wish KVK, Pathanamthitta all success in all their future endeavours.

**JACOB JOHN**

Mannuthy  
14 December 2022



**CARD**

**CHRISTIAN AGENCY FOR RURAL DEVELOPMENT**

Social Service Wing of The Mar Thoma Church

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**REV. MONCY VARGHESE**  
Director, CARD, Pathanamthitta

## MESSAGE

Agriculture, being the Indian economy's backstay sustains 58% of the work force and generates 18.8% of the country's GDP. Though there has been a lot of improvement in the agriculture sector after the Green Revolution, issues associated with adaptation to climate change, fragmented land Holdings and low farm productivity still plague the sector. A holistic approach towards helping the farmers face the challenges and make agriculture more climate resilient and environmentally sustainable is the need of the hour

ICAR Krishi Vigyan Kendra, CARD, Pathanamthitta hosted by Christian Agency for Rural Development, (CARD), the rural development wing of Malankara Mar Thoma Syrian Church is doing a commendable work in the field of agriculture to benefit the farmers of the society. The systematic study of the problems faced by the agricultural sector and the genuine effort to solve them with all the available technology and extension activities have primarily contributed to the society. It is an excellent effort on the part of ICAR ATARI Bangalore Zone XI to document all the activities of the 48 KVK's and bring it out in the form of KVK TIMES every fortnightly. I am happy that ICAR-KVK Pathanamthitta, hosted by CARD is entrusted the responsibility to bring out the 35<sup>th</sup> edition of KVK times. My best wishes to all the KVK team who have contributed to the newsletter.

**REV. MONCY VARGHESE**

Tiruvalla  
15 December 2022

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## ACKNOWLEDGEMENT

Atma Nirbhar Bharat(ANB) Abiyan which translates to self reliant India and numerous agricultural Schemes that focus on soil health, enhanced productivity and profitability has assisted agriculture in achieving enhanced growth of 3.9% in 2021-22. The effort put into agriculture and allied sector for its sustainable development is immense. I am honoured to be a part of such venture that can benefit people on a much larger scale.

I am grateful to ATARI Director Dr. V. Venkatasubramanian, for his advices and support in shaping up this edition of KVK times which is a fortnightly publication to document the important events of 48 KVK's of the zone during the period. The documentation of programmes and innovative activities can bring about a massive difference to the system as such and can help in bringing about the evolution and spread of new thoughts and ideas. I am thankful to our Chairman Rt. Rev. Thomas Mar Timotheos for his blessings in bringing out the 35<sup>th</sup> edition of KVK times and Rev. Moncy Varghese, Director CARD for his continual support and advice in all the endeavors of KVK.

Dr. Jacob John, Director of extension, Kerala Agricultural University, has also greatly advised and helped us in bringing out the KVK Times. I also take this opportunity to thank Dr. B.T Rayudu, Principal Scientist and Nodal Officer of our KVK and other fellow scientist and staff of ATARI for the guidance and help rendered in bringing out this publication. I extend my gratitude to the heads of KVK and their team for their timely contribution of the material for the successful publication of the 35<sup>th</sup> edition of KVK times. My team at KVK, Pathanamthitta, have worked hard for bringing out the publication in time. On this occasion I thank all my KVK family. The 35<sup>th</sup> edition of KVK times for the period 1<sup>st</sup> December to 15<sup>th</sup> December 2022 is another milestone that we present with humility.

**CHRISTIN P. ROBERT**

Kolabhagom  
15 December 2022

# KVK PATHANAMTHITTA HIGHLIGHTS






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# ICAR-KVK ALAPPUZHA

## Orientation on “Agro-Processing” to Cooperative Sector Officials



Two days orientation programme on “Agro-Processing” for the cooperative sector officials from five southern districts of Kerala viz., Ernakulam, Idukki, Alappuzha, Kollam and Trivandrum was conducted at KVK-Alappuzha on 1st and 2nd December, 2022. The programme was arranged on behalf of the Project Monitoring Unit (AIF) of the NABARD for orienting the cooperative banks /societies on establishing infrastructure for taking up secondary agriculture



activities including aggregation, processing and marketing of agricultural produce. The participants were oriented on possibilities and potential of value addition of agricultural produce available in their respective region (coconut, jackfruit, banana, fruits and vegetables, spices, tuber crops etc.) and initiatives required for inter-linkage between their organizations for aggregation and marketing activities. Exposure on marketing sector and related Govt schemes

(like PMFME) were also done by different resource persons. The participants expressed their optimism in taking forward projects under the Agri Infrastructure Fund (AIF) of the Govt. of India combining with other schemes also. A total of 31 participants representing 16 cooperative banks/societies and cooperative department officers attended the programme. Dr.P. Muralidharan, Head and Smt. Jissy George, SMS (HS), KVK coordinated the programme.

## Seminar on “Small Scale Enterprises in Agricultural Sector”

Considering the importance of Agri-enterprises in the present scenario and orienting prospective farmers and youth towards a successful enterprise, KVK-Alappuzha joining hands with leading media publishing house Manorama-Karshakasree organized a seminar on ‘Small scale Agri-Enterprises’ for pre-registered persons on 13.12.22. The concept of proper selection of a suitable enterprise and attaining the required knowledge and skill on the same was conveyed to the participants by the resource persons of the KVK. Prospects and scope of various enterprises like poultry/goat farming, mushroom cultivation, apiculture and value addition of banana were presented. Dr. P. Muralidharan, Head moderated the programme in which Dr.S.Ravi, Mrs. Lekha G, Dr. Sivakumar T. and Mrs. Jissy George presented the topics and answered queries of the participants. About 50 participants including farmers, rural youth and students attended the programme.



# ICAR-KVK BAGALKOTE

## World Soil Day



World soil day was organised on 05.12.2022 at Krishi Vigyan Kendra, Bagalkote in coordination/ jointly with National Rural Livelihood Mission under the theme of *Soil: where food begins*. Dr. Basavalinga Swamiji Mahant Tirta Sirur inaugurated the function by lighting the lamp and spoke about the programme. He highlighted on the prevention of soil erosion by planting the trees, avoiding heavy irrigation. He also stressed that it is our responsibility to conserve and enrich the soil health by applying organic fertilizers to soil. Shri. C. R. Mundaragi Project Director & NRLM(ZP) Chief Guest of the programme spoke on importance of soil health in agriculture, integrated farming system and role of women in agriculture. Progressive farmer Shri. Dundappa Danappa Bellubbi spoke on importance of soil test in crop selection and he explained about livestock farming, harmful effects of application of chemical fertilizers to soil. The only way to preserve the healthy soil for future generation is by growing green manures, and adopting organic farming and developed agriculture technologies. Dr. Mouneshwari Kammar, Senior Scientist and Head KVK Bagalkote, president of the function spoke that “soil is the main source of food, the only way to protect the life is to conserve the soil”. Dr. Dinesh Kumar S P, Scientist (Agronomy) gave introduction about the programme. He explained the history of celebration of soil health day, theme of soil health day. Dr. Siddappa Angadi, Senior Technical Officer, KVK Bagalkote, organised and anchored the programme. In this programme more than 75 farmers and farm women of Hunagund, Bagalkote and Badami talukas participated and got benefitted. At the end of programme Dr. Basavalinga swamiji distributed soil health cards/soil testing reports to selected farmers. On this occasion all KVK Scientists and supporting staff of NRLM Zilla Panchayat Bagalkote actively participated in the programme.

## Field Day on Redgram



Redgram field day organised on 06.12.2022 by Krishi Vigyan Kendra Bagalkote at Budihal S. K. village, under the cluster front line demonstration (CFLD) for 2022-23. On this occasion Dr. Mouneshwari Kammar, Senior Scientist & Head, KVK Bagalkote spoke and gave detailed information to farmers about facilities available to the farmers at Krishi Vigyan Kendra and information on integrated Redgram practices to achieve higher yields. Dr. Siddappa Angadi, Senior Technical Officer, KVK Bagalkote, gave detailed information on significance of soil and water test in crop production. Mr. Basavaraj Nagalikar SMS (Agromet) explained activities carried out under GKMS and DAMU projects in KVKs and IMD released mobile applications like Meghdhoot and Damini. Among the participated farmers, Mr. Devendragouda Goudra expressed his opinion about how different agricultural technologies like high yielding varieties and varieties suitable for machine harvesting help to achieve higher yields. The programme organised under the leadership of Dr. Siddappa Angadi, Senior Technical Officer KVK Bagalkote, conducted at Mr. Rachamma Palled field and total of 35 farmers participated and succeeded the programme.

Another field day on Redgram was organised on 10.12.2022 by Krishi Vigyan Kendra Bagalkote at Timmapur village of Bagalkote district under the front line demonstration (FLD) for 2022-23. On this occasion Dr. Dinesh kumar Scientist (Agronomy) KVK Bagalkote gave detailed information to farmers about integrated redgram cultivation practices to achieve higher yields. A total of 18 farmers participated and got benefit of this programme.



# ICAR-KVK BALLARI

## World Soil Health Day 2022

World soil health day was celebrated at Bannihatti village of Sandur Taluk on 5.12.2022 with the theme 'Soils: Where food begins' by ICAR-KVK, Ballari in collaboration with Deshpande foundation. The programme aimed to raise awareness of the importance of maintaining healthy ecosystems and human well-being by addressing the growing challenges in soil management, increasing soil awareness and encouraging societies to improve soil health.



Dr.Ramesh, B. K., Senior Scientist and Head of ICAR-KVK,Ballari in his inaugural address mentioned that caring soil is extremely important for sustaining healthy life on earth. The human/animal health actually lies on good health of soil as it supports healthy plant growth to provide nutritious produce to keep us healthy. Dr.Ravi., Scientist (Soil Science) mentioned about how important is soil's health in retention and release of water and nutrients, promote and sustain root growth, maintain soil biotic habitat, respond to management, resist degradation and act as a buffer for environmental pollution.



Dr.Govindappa M.R., Scientist (Plant pathology) addressed the gathering on the organic ways to improve soil fertility. He also mentioned about biological agents which helps for soil health. Dr.Shilpa H., Scientist (Home Science) told the farmers and farm women on how human health and soil health are inter-related. They were also taught about soil testing, importance of soil health cards, integrated nutrient management, decomposing of crop residues to produce high quality organic manure and bio fertilizers to improve soil health. The programme was followed by the farmers-scientists interactive session. Follow up field visits to the nutri-gardens were also taken up by the scientists at Bannihatti and Talur villages after soil health celebration. Soil sampling was live demonstrated at Nutri-garden plots of the farm women. A total of 75 farm women and farmers took part in the programme and got benefitted.



## ICAR-KVK BENGALURU RURAL

### Celebration of World Soil Day

ICAR-Krishi Vigyan Kendra, Bengaluru Rural District organized the world soil day – 2022 programme at Karepura village, Doddaballapura Taluk in collaboration with Raitha Samparka Kendra, Doddabelavangala on 5<sup>th</sup> December 2022. The world soil day 2022 was celebrated under the theme



**“Soils: Where food begins”.** The programme was inaugurated by Dr. J. Venkate Gowda, Senior Scientist & Head and Smt. Rajeshwari, ADA, Doddaballapura.

Dr. Venkate Gowda, J. highlighted the importance of soil day celebration and about the key factors responsible for maintaining soil fertility and soil productivity to sustain the agricultural production.

Dr. P. Veeranagappa, Scientist (Soil Science) elaborated the ecosystem functions of soils in sustaining the human life and various soil management strategies to improve the soil functions. Recently soil nutrient loss is a major degradation process threatening nutrition and it is recognized as the most critical problems at global level for food security and sustainability. Majority of the food produces are not rich in vitamins and nutrients as they were 70 years ago and it is estimated that 2 billion people worldwide suffer from micronutrients deficiencies known as hidden hunger because it is difficult to detect. The main cause of soil nutrient imbalance is the underuse, misuse and overuse of nutrients and though healthy soils can significantly contribute to ending hunger and create a healthy planet but only if we address global soil threats including nutrient imbalance.

## ICAR-KVK BELAGAVI – 1

### ATARI Officials Visit to Nutrigarden Special Programme at Rajapur



Dr. D V Kolekar, Scientist (Agriculture Extension), ICAR-ATARI, Bengaluru visit to Gangama Mandal Nutrigarden demo units at KVK and deaf and dumb school. ICAR- Krishi Vigyan Kendra, Tukkanatti, followed by interaction meet was arranged to collect the feedback of nutrigarden special programme implemented in Rajapur village of Mudalagi Taluk from nutrigarden beneficiaries. After the interaction meeting visit to different nutrigarden plots are made. Total 27 farm women attended the meeting. The day concluded with visit to OFT Turmeric plots at Pamaladinni and interaction with farmers regarding the performance of 3 turmeric varieties.

### Awareness Programme on Food and Nutrition for Pregnant Women, Lactating Mother and Infants

Women and child welfare department organized awareness programme in collaboration with ICAR BIRDS Krishi Vigyan Kendra, Tukkanatti, Belagavi-1 on Importance of food and nutrition for pregnant women, lactating mother and infants at Mudalgi. Objective of this programme was to educate the anganwadi teachers about food and nutrition during pregnancy, lactation, because eating a nutritious diet during pregnancy is linked to good brain development and healthy birth weight and can reduce the risks of many birth defects. A balanced diet will also reduce the risks of anemia, as well as other symptoms such as fatigue and morning sickness. Along with this lecture given different recipes of supplement food for 6–12-month children. Total 50 women were participated in this training programme.



## ICAR-KVK BELAGAVI - 2

### Celebration of World Soil Health Day



The World Soil Health Day was celebrated at ICAR-KLE Krishi Vigyan Kendra, Mattikopp on 5 December 2022. The programme was inaugurated by Shri. S.S. Patil, Joint Director of Agriculture, Department of Agriculture, Belagavi. He addressed the gathering that maintenance of good health of the soil is very essential to keep one self-healthy. The deficiency in the soil is also noticed in the human beings. Hence providing proper nutrition to the soil becomes pertinent by following soil health card. Shri.S.B. Kongawad, Deputy Director of Agriculture, Department of Agriculture, Belagavi expressed that our aim should be at increasing the soil fertility by providing organic inputs to promote sustainable management of soil resources. Dr.Sunil Kumar Nooli, Associate Professor, ARS, Sankeshwar interacted on management of problematic soils.

### Training Module for Krishi Sakhi

ICAR-KLE Krishi Vigyan Kendra, Mattikoppa in association with Karnataka State Rural Livelihood Promotion Society, Department of Skill Development, Entrepreneurship and Livelihood, Bengaluru and Zilla Panchayat, Belagavi organized First training module on Agro-ecological Practices for Community Resource Persons of Farm Livelihood (Krishi Sakhi) from 5 – 10 December, 2022 for 90 selected Krishi Sakhi from 11 taluks of Belagavi District. The programme was inaugurated by Dr.Raga Priya, Mission Director, Sanjeevini

– KSRLPS, Bengaluru and addressed Krishi Sakhis to create awareness about different government schemes formulated for the benefit of the farming community. One should bridge the gap between the farming community, line departments, KVK and Village level extension workers for effective transfer of technology for increasing the productivity. The programme was presided over by Shri. Mahantesh Kavatigmath, Former Chief whip Legislative Council, Karnataka Government & Director, Board of Management, KLE Society, Belagavi. Training of Krishi Sakhi is a unique programme to develop them as a Master trainer to educate farmers at field level to guide them for appropriate action on time. The training included importance of soil testing, soil sampling methods to pest and disease management in major field and horticulture crops of the district. Apart from that knowledge on nutrition gardening, importance of balanced diet, value addition to field and horticulture crops, use of mobile apps and information on first aid treatment was also included in the training. The valedictory programme was held on 10 December 2022. Dr. S.I. Athani, Director of Extension, UHS, Bagalkot appreciated the efforts of KVK for training 90 krishi sakhis of Belagavi district in three batches.

### Celebration of Samvidhan Divas



Samvidhan Divas was celebrated at the KVK to commemorate the adoption of the Constitution of India and to honour and acknowledge the contribution. The oath on the eve of constitution day was administered by Shri. G.B. Vishwanath, Scientist (Agronomy) to the staff of the KVK. Awareness among the KVK staff was created on use of online portal for reading the “Preamble to the Constitution on India”.

## ICAR-KVK BIDAR

### Soils: Where Food Begins

ICAR Krishi Vigyan Kendra Bidar and Zilla Panchayat Bidar Jointly celebrated the world Soil Day on 05<sup>th</sup> December 2022 at ICAR-KVK Bidar on the theme ‘Soils: Where food begins’. In his inaugural address Sri Manikrao Patil, Executive Officer, Bidar told about the importance of crop residue and stressed upon not to burn the crop residue and it’s a high time to conserve the soil and the nature. Sri Ramachandra Sheriker, Head Reliance foundation Bidar in his address this event aims to raise awareness of the importance of soil quality for human well-being, food security and ecosystems and also government has number of schemes one can use these schemes in building the soil. Dr. Sunilkumar N.M. presided over the function. He appealed the Extension Officers and the Farmers to save the nature and nature’s soil and water. Dr.R.L Jhadhav given a lecture on importance of natural farming in protecting the nature and soil and Dr.Akshaykumar by organic forming and Mr.Dhanaraj V.S by soil sampling methods.



## ICAR-KVK CHAMARAJANAGARA

### Block Level Crop Seminar on Coconut Cultivation Technologies

One day Block level crop seminar on Coconut cultivation technologies was organized on 02.12.2022 at ICAR KVK Chamarajanagara in collaboration with Coconut Development Board, GOI, Bengaluru. The programme was inaugurated by Sri. E. Arawazhi, Director, Coconut Development Board, Regional Office, Bengaluru. In the programme, Dr. C. Doreswamy, Special Officer, College of Agriculture, Chamarajangara, Dr. Siddappa R., Assistant Professor, College of Horticulture, Mysore, Dr. Mohan Kumar A. B., Scientist (Horticulture), ICAR KVK, Chamarajangara and Ms. Supriya N. S., Scientist (Agril. Extension), ICAR-KVK, Chamarajanagara were present.

A brief introduction to the programme was delivered by Ms. Supriya N. S. and Sri. E. Arawazhi, encouraged the farmers by providing information about the facilities available at Coconut Development Board. Importance of value addition in Coconut was highlighted by Dr. C. Doreswamy. Significance of



coconut crop cultivation and importance of regular practice after completion of the training was stressed by Dr. Mohan Kumar A B. Further, Dr. Siddappa R, delivered technical information on Integrated crop management of coconut and Dr. Umashankar Kumar, Associate Professor, College of Agriculture, Chamarajangara explained in detail about Integrated pest and disease management of coconut. In total 50 farmers from different parts of the district participated in the programme.

## ICAR-KVK CHIKKABALLAPURA

### World Soil Day



World Soil Day was celebrated at Kootarajanahalli village of Chintamni taluk. Dr. Sandhya K, Scientist (Soil Science) highlighted about importance of soil health and need of integrated nutrient management for sustainable agriculture. Dr. Papireddy Senior scientist and Head explained about green manuring and its importance. Dr. Tanweer Ahmed, Scientist (Agricultural Extension) explained about scientific soil sampling procedure. Soil Health cards were distributed during the programme. 50 farmers participated in the programme.

### Field Day on Finger Millet

Field day on Finger millet KMR 316 variety was organized by ICAR-KVK, Chikkaballapura at Appegowdanahalli village of Sidlaghatta taluk. Dr. Papireddy, Senior Scientist and Head explained about varietal characteristics of KMR 316 variety. Mr. Vishwanath, Scientist (Agronomy) explained in detailed about scientific cultivation practices in ragi. Dr. Sandhya, Scientist (Soil Science) emphasized on nutrient management and soil conservation. Mr. Munendra, progressive farmer shared his experience in cultivation of Ragi KMR 316 variety. 35 farmers from surrounding villages participated in the programme.



# ICAR-KVK CHIKKAMAGALURU

## Field Day on Coconut

ICAR-Krishi Vigyan Kendra, Chikkamagaluru has organized two Field day programmes on Coconut at Uddeboranahalli village of Chikkamagaluru taluk and Banavara village of Sakarayapattana taluk of Chikkamagaluru district on 02.12.2022 and 07.12.2022 respectively.



Dr. Krishnamurthy, A.T., Senior Scientist and Head, KVK, Mudigere, in his introductory speech suggested the farmers to adopt improved technologies developed by the agricultural universities and high yielding varieties to enhance the productivity and also coated that soil of the garden should be tested frequently at KVK in order to know the status of soil and apply the fertilizer based on soil results. Dr. Ravi, C.S., Assistant Professor, Dept of PSMAC, College of Horticulture, Mudigere, delivered the lecture on selection of Mother palm for seed material to raise the nursery and briefed on suitable Soil, Congenial weather conditions, irrigation, fertilizer application, maintenance, manuring, irrigation schedule, intercultural operations and integrated nutrient management and further briefed about value added products and their marketing and enterprises development in coconut. Dr. Keerti Shankar, Scientist (Horticulture), KVK, Chikkamagaluru detailed about scientific coconut cultivation technologies, such as newly developed varieties, characters and selection, production of quality seedlings, method of planting, soil conservation practices and water management in coconut. Dr. Nagaraj, H, Assistant Professor, College of Horticulture, Mudigere, explained detailed about integrated pest and disease management in coconut. On this Field day total 70 farmers participated and got benefit out of this programme.

## World Soil Day: 'Soils: Where Food Begins'

ICAR-Krishi Vigyan Kendra, Chikkamagaluru has celebrated 'World soil day' with the theme "Soils: Where food begins" in collaboration with College of

Horticulture, Mudigere, ZAHRS, Mudigere and Taluk Growers Association, Mudigere on 05.12.2022 at College of Horticulture premises. Dr. Krishnamurthy, A.T., Senior Scientist and Head, KVK, Mudigere, in his introductory speech explained about the importance of the World soil day and raised awareness regarding the importance of maintaining healthy ecosystems and human well-being by addressing the growing challenges in soil management, fighting soil salinization and importance of soil analysis and advised the farmers to practice organic and Natural farming in order to maintain soil health. Sri. Balakrishna, President, Taluk Growers Association, Mudigere, inaugurated the programme and in his inaugural speech briefed that, if the fertility of the soil is destroyed, everything will be destroyed in the world and he said that everyone should come forward to protect the soil. Recent years due to heavy usage of chemical fertilizers soil fertility, texture and structure are degrading. Further advised to practice organic farming for enrich the soil fertility.

On this occasion Sri. Jayaram, Ex-President, Karnataka Growers Federation released the Technical Bulletin on soil conservation and advised the farmers about importance and practice of organic farming for enriching and protecting the microbial activities in the soil.



Dr. Narayan. S. Mavarkar, Dean, COH, Mudigere in his presidential remarks briefed that "On this eve of world soil day celebration, we should collect soil samples of our land and make soil analysis mandatory and based on the results one should apply fertilize to crops to maintain the fertility of the land". Dr. Shiva Kumar M. N, Soil Scientist, COH, Mudigere, explained about the annual soil loss in agriculture, the importance of soil health management, integrated nutrient management and techniques of soil sample analysis. On this occasion Sri, H. T, Mohan Kumar, President, Karnataka Growers Federation, Sri. K. D. Manohar, Secretary, Taluk Growers Association, Farmers Producers Organization President Sri. Poornesh, KVK Scientists and Students actively participated in this programme.



## ICAR-KVK CHITRADURGA

### Block Level Workshop on Scientific Coconut Cultivation Practices and Soil Health Day



A Block level workshop on Scientific Coconut Cultivation Practices and Soil Health day in collaboration with Coconut Development Board was organized by KVK, Chitradurga on 05-12-2022.

The programme was inaugurated by Mr. Veerabadrappa progressive farmer Molakalmur taluk. During his inaugural speech he shared about his 55 years' experience in Agriculture as farmer and farm entrepreneur. Soil is most important resource for any farmer so farmers should take care of maintaining soil health, conservation of water resource and should be cautious about usage of inorganic fertilizers.

Dr. O. Kumar, Sr. Scientist and Head, KVK presided over the program and during his presidential speech, he discussed that Coconut cultivation is predominant in Chitradurga and Tumkur districts. Whereas the area and productivity of coconut is declining day by day. Farmers need to adopt the scientific technologies to increase the productivity of the crop. He also briefed about the harmful effect by using herbicides in agriculture and suggested the farmer to go for application of 50% of organic, 50 of inorganic fertilizer which help to maintain the soil health as well as to earn better crop yield.

Mr. Umesh ADA and Mr. Nagaraj, ADH, Molakalmur, Mr. Chidhananda Murthy, officer IFFCO, Chitradurga, Dr. Prakash Kerure, Scientist (Horticulture), Dr. S. Onkarappa, Scientist (Plant protection), Mrs. Geethakumari B.N, Programme Assistant and 96 farmers/farm women were participated in the programme.

### NICRA Project Launching and Field Day of Different Cropping System

On 14-12-2022 National Innovation on Climate Resilient Agriculture (NICRA) launching program and field day of different cropping system was organized by KVK at Yelaghatte village, Challakere Tq.

Mr. T Ragumurthy, honorable MLA of Challakere inaugurated the programme and custom hiring center (CHC). During his inaugural speech, he opined that the climate in Challakere taluk is very much suitable for growing dryland horticulture crops, hence farmers should focus on alternative crops like cashew, jack, amla, mango etc. replacing groundnut and arecanut crops. Dr. Hemla Naik B, Director of Extension, KSNUAHS, Shivamogga, was chief guest of the program. He briefed about the NICRA project objectives and modalities. NICRA project is operated throughout the country since from 10 years in order to help farmers who are experiencing climate resilient farming. He also suggested adopting dry land horticulture and agro-forestry along with water conservation practices for better utilization of natural resources.

Dr. Kumara O, Senior Scientist and Head briefed about the custom hiring center (CHC) at NICRA village and also explained the seed production activities under project for self-reliance farming. Projects cover 950 ha. area of which 85% is under rainfed with predominantly groundnut cropping system. The main objective of project is to conserve the rain water and alternate cropping system blending low water requiring crops (Castor, redgram, Field bean, Finger millet) and (Dry land horticulture crops like Cashew, amla, ber custard apple and exotic fruit crops). Mr. R. Virupakshappa, SADH, Mr. J. Ashok, ADA, Challakere Tq., Mrs. Lakshmidevi president, Gram panchayath, Devaramarikunte, Mr. Manjanna, Director, Vedhavathi Krushikara Sanga and members along with 87 farmers and farm women's participated in the programme.



## ICAR-KVK DAKSHINA KANNADA

### Improved Cultivation Practices in Horticulture Crops and Management of CSRB in Cashew



ICAR-Krishi Vigyan Kendra (Dakshina Kannada) Mangaluru in collaboration with Primary Agricultural Credit Cooperative Society, Mundooru village of Puttur taluk organized a capacity development programme on improved cultivation practices in horticulture crops and Integrated management of stem and root borer (CSRB) in cashew on 12.12.2022. Mrs. Triveni Rao, Assistant Registrar of cooperative Societies Puttur inaugurated the programme. Mr. Suresh Kumar Sorake presided over the programme and Dr. T. J. Ramesha, Senior Scientist and Head, ICAR-KVK (D.K) Mangaluru participated as the chief guest. Dr. Kedarnath, Scientist (Plant Protection) and Dr. Rashmi, R., Scientist (Horticulture) participated as resource persons and briefed about the improved cultivation practices and integrated pest and diseases management in horticulture crops. Mr. Jayaprakash, CEO of PACCS Mundooru, members of the society and 73 farmers participated in the programme.

### CDP on Management of Inflorescence Die Back and Leaf Spot Disease in Arecanut



ICAR-Krishi Vigyan Kendra (Dakshina Kannada) Mangaluru organized a capacity development

programmes on management of inflorescence die back and leaf spot in arecanut on 09.12.2022 at Balanja Village of Belthangady Taluk to the OFT farmers. Dr. Kedarnath, Scientist (Plant Protection) and Dr. Mallikarjun, L., Scientist (Soil Science) participated as resource person in the programme and briefed about the improved cultivation practices and integrated pest and diseases management in arecanut. Dr. Shivakumar, Scientist (Veterinary) also percolated in the programme. A total 16 famers were participated in the programme.

### CDP on Integrated Crop Management in Okra



ICAR-Krishi Vigyan Kendra (Dakshina Kannada) Mangaluru organized a capacity development programme at Iddabettu Sampige, Moodibidri Taluk, Dakshina Kannada on 07-12-2022 under Front Line Demonstration on Integrated Crop Management in Okra Variety Halu Bhendi (White Velvet).

Mr. Harish Kotian, Progressive Farmer inaugurated the programme. Mr. Shyamasundara Rao, Retd. Teacher and Progressive Farmer presided over the programme. Dr. Rashmi, R., Scientist (Horticulture) coordinated the Programme and delivered a lecture on crop production of okra. Dr. Kedarnath, Scientist (Plant Protection) participated as resource person and brifed about integrated pest and diseases management in okra and Dr. Mallikarjuna L. Scientist (Soil Science) highlighted about the importance of soil testing in coastal karnataka and Integrated Nutrient Management in okra cultivation. A total of 18 farmers were participated in the programme and as a part of the programme provided critical inputs to the ten selected Bhendi growing farmers.

## ICAR-KVK DAVANAGERE

### Celebration of 'World Soil Day'



ICAR-Taralabalu Krishi Vigyan Kendra, Davanagere celebrated 'World Soil Day' as a

part Agriculture Technology Information Week in collaboration with KREDL, Bengaluru and Department of Agriculture, Davanagere on 05/12/2022 with the theme 'Soils; where food begins'. Mr. Umesh, Treasurer, IAT, Bengaluru had inaugurated the programme. Series of guest lectures were organized. Er. Appannagouda Goudar from Karnataka Renewable Energy Development Limited (KREDL) spoke on BEE Star labelled Energy Efficient pumpsets. Mr. Raghava, a Natural Farming practitioner spoke on Natural Farming and its advantages and Mr. H. M. sannagoudra, Subject Matter Specialist (Soil Science) provided information on soil health management. 278 farmers, students and scientist had participated in programme. Dr. Devaraja T. N., Senior Scientist and Head presided over the programme. Exhibition of organic products was also organized with special stalls.

### Celebrated Field Day: FLD-Integrated Crop Management in Paddy

ICAR-Taralabalu KVK in Collaboration with Department of Agriculture and Hirekogaluru Taralabalu AFPO conducted Field Day on FLD-Integrated Crop Management in Paddy at Hirekogaluru Village of Channagiri taluk under the guidance of Dr. Devaraja T. N. Senior Scientist and Head. Mr. Mallikarjuna B. O. SMS (Agronomy) addressing to gather said farmers need to give more emphasis for use of Bio-fertilizer and Nano Urea. Seedling dip with Azospirillum before transplanting will helps in supplying the Nitrogen to the crop. Top dressing with Nano urea will give more yield and high nutrient use efficiency.



Dr. Avinash T. G. SMS (Plant Protection) highlighted the eco-friendly management practices for major Pests of Paddy with special reference to Yellow stem borer, Brown plant hopper and Ear head bug. Use of Trichogramma egg parasitoid and Pheromone traps will keep the pest population below Economic Injury Level (EIL), Spraying of Neem Oil 3000 ppm @ 3 ml /l will helps in managing the Brown Plant Hopper and Ear Head Bug incidence. Mr. Arun Kumar ADA, Channagiri, BOD's of Hirekogaluru TAFPO and 30 farmers were present during the program.

## ICAR-KVK DHARWAD

### World Soil Day 2022



World Soil Day is celebrated every year on December 5<sup>th</sup> to create awareness about the importance of maintaining healthy ecosystems and human well-being by addressing the growing challenges in soil management, increasing soil awareness and encouraging societies to improve soil health. Directorate of Extension, University Agricultural Sciences, Dharwad and ICAR-Krishi Vigyan Kendra, Dharwad jointly organized World Soil Day on 05.12.2022 at Auditorium, College of Community Science, UAS, Dharwad. Dr. P. L. Patil, Vice Chancellor UAS, Dharwad in his presidential remarks expressed that UAS, Dharwad has released many technologies in the field of soil conservation and recommending chemicals to farmers which are more effective with less pesticide residue content. In continuation he mentioned about millet varieties released, improved agronomic practices, value addition and commercialization of technologies by the University. The chief guest Dr. C. V. Patil, Retd. Dean (Agri.), UAS, Raichur expressed that world soil day is celebrated to create awareness about importance of fertile soil and sustainable management of soil fertility. To get higher food production in one hectare of land farmer should adopt genetically bio-fortified crops, agronomical practices, physiological approaches and value addition techniques. Another guest Dr. Khadar Vali renowned nutritionist, Mysore, during his speech expressed that people should not go to hospital for achieving good health rather find good health in their own kitchen. He requested the audience to use millets as they have better therapeutic values for treatment of diseases. Shri. Y.N. Patil and Shri. Shrinivas Kotyan, Members, Board of Management, UAS, Dharwad, Directorate of Extension Dr. A. S. Vastrad, University Staff, Students and farmers participated in the programme. Dr. P. S. Hugar, Associate Director of Extension, welcomed the guests and Dr. K.K. Math, professor Department of Soil Science, presented vote of thanks. Soil Health Cards were distributed

to the farmers and extension folder on Soil testing and analysis of irrigation water was released on the occasion.

### Demonstration of Solar Operated Nipping Machine in Chickpea

Nipping technology is followed to increase no. of branches per plant and increase in yield. Traditionally nipping is done manually by farm labours. As farm mechanization has increased, nipping machine has been introduced to reduce cost on labour, ease of operation and saving time. Nipping is demonstrated at 45-50 days after sowing, before flowering and the tender leaves can be used as vegetable in their daily diet. Dr. Geeta S. Tamgale, Scientist (Home Science) along with Smt. Kalavathi K. Kambali, Scientist (Plant Protection), ICAR-KVK, Dharwad demonstrated solar operated nipping machine for chickpea in Ingalahalli village of Hubballi taluka on 07.12.2022. This solar operated nipping machine has been fabricated by UAS, Raichur which uses solar energy for nipping operation. The machine has been modified by Krishi Taranga innovative farmer based organization at Vijayapur. The machine has an advantage of collecting nipped tender shoots and they can be used as food in their daily diet or sell in the local market. Nearly 18 farmers and farm women attended the demonstration. Guest lecture on IG activities for SHG members



A training programme on IG activities for SHG women was organized by Shri Kshetra Dharmasthala Rural Development Project, Dharwad at Madihal, Dharwad on 10.12.2022 and nearly 72 women members attended the programme. Dr. Geeta S. Tamgale, Scientist (Home Science), ICAR-KVK, Dharwad participated in the programme and created awareness. The members were landless and housewives, financially dependent on their husbands for their expenditures. Hence, members were exposed to ideas on IG activities which can be taken up in their house without spending much time. Information about vermicompost preparation, sheep and goat rearing, low cost hatching unit, backyard poultry, nutri garden were discussed.

## ICAR-KVK ERNAKULAM

### Jal Shakthi Abhiyan Mela Conducted

The KVK-Ernakulam organized Jal Shakthi Abhiyan mela at Mangalathunada, Mazhvannur on 30<sup>th</sup> November, 2022. Smt. Bincy Baiju, President, Mazhuvannur Grama Panchayath inaugurated the programme while Smt. Nitha Anila, Ward member presided over. There was a lecture on *Organic vegetable farming* by KVK expert Shri Shoji Joy Edison followed by farmer-scientist interface. Dr. P A Vikas, Subject Matter Specialist (Fisheries) and Shri. F. Pushparaj Anjelo, Subject Matter Specialist (Agri Extension) interacted with farmers. Quality planting materials of CTCRI tuber crop varieties were supplied to farmers. There was a fish seed sales mela where the seeds of Pearlsport fish produced at KVK's Satellite production centres were supplied. The KVK-trained organic manure entrepreneurs Jeeva Kudumbashree micro enterprises hosted the programme.

### World Soil Day Seminar Conducted

The KVK-Ernakulam celebrated world soil day on 5<sup>th</sup> December, 2022 by conducting a seminar

on *Integrated soil management for ensuring food security* jointly with Narakkal Krishi Bhavan.



The theme for world soil day this year is "Soils, where food begins". Hands-on training on "How to collect soil samples" was also conducted for farmers. Shri. Shoji Joy Edison and Shri.F.Pushparaj Anjelo, Subject Matter Specialists conducted the programme. Smt. Angela Cyriac, Agriculture officer, Narakkal, Mr. Antony Sijo, Block Technology Manager (ATMA) and progressive farmers participated.

## ICAR-KVK GADAG

### One Day Training And Awareness Programme On Bee Star Labelled Energy Efficient Pump Sets And Water Conservation



One day Training cum Awareness Programme on "**BEE Star Labelled Energy Efficient Pump Sets and Water Conservation**" was organized at ICAR-K.H.Patil Krishi Vigyan Kendra, Hulkoti, Gadag district in association with Bureau of Energy Efficiency and Karnataka Renewable Energy Development Limited. Smt. Savita S Meti, Assistant Technical Officer, KREDL



Regional Office, Hubballi/Dharwad inaugurated the programme and enlightened the participants about the importance of energy and ways and means of saving energy in agriculture as well as in day-to-day life. Chief Guest of the function, Dr.Ullas Shetty, Associate Professor, Shri K.H.Patil First Grade College, Hulkoti spoke about importance of soil and water conservation in agriculture. Another guest, Mr.Girishkumar.C.B, Chief Manager, Selco Solar Light Pvt. Ltd., Dharwad addressed the gathering

and sensitised about the potential of using solar energy to save conventional sources of energy. Dr.L.G.Hiregoudar, Senior Scientist & Head, ICAR-KHPKVK, Hulkoti presided over the function and thrown light on current scenario of pumps being used for irrigation in the District and advised farmers to use energy efficient pumps. Mr.Hussainsab Jalihal from Deshpande Foundation, Hubballi and Mr.Vidyasagar from Coromandel Int. Ltd. graced the occasion with their presence. Dr.Vinayaka Niranjan, Subject Matter Specialist (Ag. Engineering) welcomed the gathering and Dr.Gururaj Kombali, Subject Matter Specialist (Agronomy) extended the vote of thanks. Smt. Lalita S Asuti, Computer Programmer anchored the programme. Totally 334 participants attended the programme including 122 farmers, 204 students and 8 scientists from various organizations.

### Training Programme of Krishi Sakhis.



A 6-day training programme to Krishi Sakhis – Module-1 on “**Agro Ecological Practices**” was conducted at ICAR-K.H.Patil Krishi Vigyan Kendra, Hulkoti, in collaboration with Sanjeevini-KSRLPS, Zilla Panchayat, Gadag and Department of Skill Development, Entrepreneurship & Livelihood, Government of Karnataka from 06-12-2022 to 11-12-2022. Mr. M.V. Chalageri, Project Director, Zilla Panchayat, Gadag inaugurated the programme and spoke on transfer of information about ecological farming practices and agricultural livelihood. Chief Guest of the function, Mr. Chandrasekhara M. Yaligar, District Program Manager, NRLM Sanjeevini Yojana oriented on various facilities available under Sanjeevini Yojana. Further he said that, the Krishi Sakhi trainings will be conducted in 9 Modules. Dr.L.G.Hiregoudar, Senior Scientist and Head, ICAR-KVK, Hulkoti said that all the Sakhis have to transfer the information and the technologies to the women

in the village. Besides this, they should strive hard to transfer the recent researches and issues viz., natural farming, nutrition garden and etc., Mr. S.H.Adapur, Retired SMS (Ag. Extn.), ICAR-KVK, Hulkoti and other resource persons were present in the programme. The programme was welcomed by Dr Gururaj Kombali, SMS (Agronomy). Dr.Sudha Mankani, SMS (Home Science) and Dr.Vinayaka Niranjan, SMS (Ag. Engg.) were present in the programme. A total of 30 Krishi Sakhis one from each village panchayat from Gadag taluk participated in the programme.

### Kissan Mela At Nicra Village

Under National Initiative for Climate Resilient Agriculture, Kissan Mela was organised at Singatarayanakeri village of Mundaragi taluk on 26-11-2022. On this occasion, farmers were sensitized about dryland horticulture, crop conditions, pest and disease management in rabi crop conditions in the present situation etc., Shri Narayan Bhandi, SMS (Soil Science) discussed about Natural Farming, Soil Health, Soil Nutrients etc., Dr. Gururaj Kombali, SMS (Agronomy) briefed about importance of Chickpea Magic in Bengalgram for higher productivity. Progressive farmers namely Shri Shankaragouda Patil, Shri Hanumantappa Roddanavar, Shri Bheemappa Roddanavar and many other farmers participated in the programme.



# ICAR-KVK HASSAN

## World Soil Day



ICAR-KVK, Hassan in collaboration with ATMA, Department of Agriculture, Hassan Zuari Farm hub Ltd., Hassan and MCF, Hassan organized the world soil day on 05/12/2022 at KVK, Kandali, Hassan. Programme was inaugurated by Ms. Manjula, Deputy project director, ATMA, Hassan and during her inaugural address she mentioned the importance of integrated farming system in maintaining soil health. Dr. Shivashankar, M., Scientist, KVK, Hassan chaired the programme and during his presidential remarks he said that maintaining soil health will maintain farm health and in turn helps to earn more income for the farmers. Mr. Onkarmurthy, MDO, Zuari Farm hub Ltd., Hassan during his introductory remarks mentioned that Indian soils are having very less soil organic carbon compare to other developed country and he also mentioned what is the role of farmers in maintaining soil health. Dr. Manojkumar, K. N., Assistant Manager, Zuari Farm hub Ltd., Hassan said that how soil test will help the farmers to maintain soil health and he also practically explained the soil sampling through method demonstration.

Dr. Nagagraja, T. Scientist (Plant Protection), KVK, Hassan mentioned that life and soil are interdependent, so without soil life on earth cannot possible hence as a knowledge human being one should protect soil. Dr. Srinivas deshpande, Scientist (Agril. Engineering), Dr. Sanketh, C. V., Scientist (Agril. Extension), Dr. Pallavi, N., Scientist (Crop physiology), KVK, Hassan, Mr. Vikas, Deputy Manager, Zuari Farm hub Ltd., Hassan, Dr. Rajshekar, Agronomist, Coramondal international Ltd., Hassan and farmers of Hassan district participated in the programme.

## Field Day

ICAR-KVK, Hassan conducted Field day on improved varieties in Ragi, Redgram, Field bean, and Horse gram and human health camp at K. Hosahalli, Hassan taluk under the adopted village programme on 13/12/2022. Mr. Umesh, Somanahalli Panchayath Member, Hassan taluk inaugurated the programme and in his inaugural address he said that farmers should adopt both improved varieties and organic farming practices in their farm to improve yield. Dr. Rajegowda, Senior Scientist and Head, KVK, Hassan chaired the programme and during his presidential remarks he said that to get higher income farmers should practice scientific farming by taking advice from the scientists. Further, he stressed on importance of adopting organic farming to improve soil health for giving good soil to the future generation.

Dr. M. Shivashankar, scientist (Home Science) KVK, Hassan organized the programme and during his introductory remarks he briefed the objectives, motto and importance of adopted village programme. He also explained the results of improved varieties in Ragi(KMR-301), Redgram(BRG-4), Field bean(HA-4) and Horse gram(PHG-9) by comparing their yield and quality with the existing cultivated varieties.



Dr. Meghana, Health officer, Hassan explained the importance of health campaign and advised the farmers to use this free health campaign facility fully. Further she acknowledged the efforts of KVK Hassan in organizing both field day and health camp. Dr. Mahesh, Head, HREC, Somanahalli Kaval briefed on how pest and disease management. Mr. Prasad, Agriculture officer, Dudda RSK, Dr. Ashok, Dudda Veterinary officer, K. Hosahalli School Head Master, Dr. Srinivas Deshpande Scientist (Agril. Engineering), Ms. Supritha, DASEI Facilitator, KVK, Hassan, Final Year B.Sc. (Agri) students, College of Agriculture, GKVK Bengaluru and Farmers of K. Hosahalli and surrounding villages participated in the programme.

## ICAR-KVK HAVERI

### Awareness on “Climate Change and Weather Forecasting in Agriculture”

DAMU KVK, Haveri organized farmers awareness program (FAP) on Climate change and weather forecasting in agriculture to Kundagol farmers at KVK Haveri. Dr. Shantveerayya SMS (Ag Met) delivered note on climate change, causes for climate change and how it affect the crop production. Farmers in recent times, due to extreme weather conditions, they are suffering a lot due to heavy rains. Since all agricultural activities of the farmers are based on the weather, they should know the local weather forecast and suggested the farmers to practice farming by looking to the local weather forecasting. Weather based advisories will help to undertake contingent crop plans for the districts to minimise crop loss from extreme weather conditions and sustainability in farmer’s income. In view of this he pointed the importance of District Agro Meteorological Unit (DAMU) and commented



the essentiality for farming community to get real time information on weather and Agromet advisories at block level in local language. They also highlighted the mode of dissemination of Agro Advisory bulletins to the farmers and whats app groups created by KVK Haveri. They also stressed on weather forecasting services in agriculture viz., MEGHDOOT and DAMINI App in farming activities. A demonstration was carried out among the farmers how to download and use these apps in daily farming activities. During this occasion more than 40 farmers were participated. Farmers were visited to Automatic Weather Station (AWS) of DAMU unit and conveyed the information on operational techniques of weather instruments (sensors) and its utility at every 15 minutes.

## ICAR-KVK IDUKKI

### Natural Farming Awareness Programme

ICAR-Krishi Vigyan Kendra(BSS), Idukki conducted an awareness and Demonstration on Natural Farming. ICAR- KVK team organized awareness and a field visit to Natural Farming Demonstration plot on 13<sup>th</sup> December 2022 at Vattavada village. The Farmers were made aware on Natural farming and its importance. Natural Farming involves chemical-free farming and



livestock-based farming methods. It is a diversified farming system that integrates crops, trees and livestock, allowing the optimum use of functional biodiversity. The farmers were made aware on the importance of natural farming for improving the soil health. Vegetable cultivation in vattavada is flooded by heavy usage of chemical fertilizers and insecticides which in turn damage the soil health. The Natural farming concept was made aware to the farmers by demonstration at vattavada village. The

farmers were made aware on concepts of natural farming by delivering lectures on different aspects of natural farming and its importance. The lecture was delivered by Ms. Manju Jincy Varghese, SMS (Soil Science). She explained to the farmers the role of Krishi Vigyan Kendra in promoting Natural farming in Idukki District. She also stressed on importance of Natural farming for sustaining the soil Health in Idukki District.

### SBA- Dr. Chandish R. Ballal Team Award

ICAR- KVK Idukki team headed by Mr. Sudhakar Soundarajan, SMS Plant Protection has been honoured with “SBA- Dr. Chandish R. Ballal Team award for outstanding extension work in Biological control” award during 7th National Conference on Biological Control held at Ramada by Wyndham, Yelahanka, Bengaluru from 15 to 17 December 2022. Team Members of the award were, Mr. Sudhakar Soundarajan, SMS Plant Protection, Dr.R.Marimuthu, Senior Scientist and Head, Ms. Manju Jincy Varghese, SMS Soil Science, Ms. Preethu K. Paul, SMS Agricultural Extension and Ms Ashiba A, SMS Agronomy. The honouring was awarded from Society for Biocontrol Advancement (SBA), ICAR-National Bureau of Agricultural Insect Resources (NBAIR), Bengaluru for the outstanding contributions made by KVK Idukki in ensuring biological control in Idukki specific crops .



## ICAR-KVK KALABURAGI-I

### Celebration of World Soil Day-2022



ICAR - Krishi Vigyan Kendra, Kalaburagi-I celebrated 'World soil day-2022' with the slogan 'Soils: Where Food begins' at KVK premises on 05.12.2022. The programme was inaugurated by Dr. S. K. Jayalakshmi, Dean (Agri.), College of Agriculture, Kalaburagi. During technical session, Dr. Shreenivas B V, Soil Scientist, KVK, Kalaburagi, briefed about importance of soil testing in agriculture and soil health management, integrated nutrient management, techniques of soil sample analysis and highlighted on increasing soil fertility through addition of sufficient organic matter to the soil.

Dr. Anand Naik, Assistant Professor, College of Agriculture, Kalaburagi delivered lecture on the importance of world soil day as soil is critical component of natural system. Special guest lecture was given by Mr. Mallinath Hemadi, Assistant Professor, Dairy Science College, Mahagaon. The programme was associated

with Dr. Vasudev Naik, Scientist (Horticulture) and staff of KVK and AC, Kalaburagi. Dr. Zaheer Ahmed, Scientist (Pathology) anchored, Dr. Yusufali Nimbargi, Scientist (Agronomy) welcomed and Dr. Manjunath Patil, (Animal Science) thanked the guests. On the occasion released leaflet regarding soil health and soil health cards.

### Workshop on Millets

One day workshop on millets under agriculture based programme was organized by Sri Shivalingeswara Virakta Math, Madan Hipparaga Aland taluka on 10.12.2022. KVK promoted young farmer Sri. Veeresh Kashinath Pareni, producer of Siri millet product. His Nutri rich powder products from millets were released by Honorable Central Minister of Chemical, Fertilizer and Renewable energy. Sri. Bhagwanth Khuba and Honorable Member of Parliament of Solapur, Maharashtra state and Sri Dr Jai Siddeshwar Shivacharya also appreciated. In the programme, Dr. Raju G. Teggelli, Senior Scientist and Head, ICAR-Krishi Vigyan Kendra, Kalaburagi highlighted the importance of millets and its nutritive values. Nutritive rich food need of hour, chemical free cultivation of crops and integrated disease management in pulses was explained by Plant Pathologist Dr. Zaheer Ahamed.

## ICAR-KVK KALABURAGI-II

### Field Day and Training Program of ICM in Pigeonpea Variety (GRG-152)



Field day and training program of ICM in Pigeonpea variety (GRG-152) was organized at village Saidapur on 07.12.2022 under CLFD on pulses. Demonstration of plots of Pigeonpea variety (GRG-152) in comparison with local variety.

Dr. Basawaraj Kadanavar, Scientist (Agri. Entomology) explained about importance of different characteristics of Pigeonpea varieties TS 3R, GRG-811, GRG-152 and BSMR-736 in the demonstration plots. Dr. Chethan T, Scientist (Horticulture) explained about importance of selection of seeds, seed treatment, irrigation, nipping and variety based soil and rainfall pattern of Zone-II of Kalyan Karnataka Region.

### Field Day and Training Program of ICM in Chickpea Variety (BGD-111-1)

Field day and training program of ICM in chickpea variety (BGD-111-1) was organized at village Yadga on 09.03.2022 under CFLD on pulses. Demonstration of plots of Chickpea variety (UAS-304) in comparison with local variety.

Dr. Manjunath N, Sr. Scientist & Head explained about importance of selection of seeds, seed treatment, spacing and variety and also explained different characteristics of Chickpea (BGD-111-1) and improved and important agronomic practices like nipping and utilization of chickpea magic at right stage in the demonstration plots. Dr. Chethan T, Scientist (Horticulture) briefed about utilization of bio inoculants and its importance in agriculture and horticulture.



## ICAR-KVK KANNUR

### Scientific Advisory Committee (SAC) Meeting

Fifteenth scientific Advisory Committee meeting was conducted on 14<sup>th</sup> December 2022 at KVK Kannur. Meeting was chaired by Dr. Jacob John, Director of Extension Kerala Agricultural University. In opening remarks he elaborated the objectives of SAC meeting and highlighted the need for convergence of various departments to make interventions in agriculture for providing sustainable livelihood for farming community. Dr. M. J. Chandre Gowda, Principal Scientist, ATARI and Nodal Officer of KVK Kannur have attended the meeting and stressed the importance of scientific approaches to provide income security to farmers in his key note address. Album on achievements of ARYA programme, leaflets on different crops and value added products of enterprise “Aduppu Pickles” run by Sri. Rinda and Sri. Rahil, trainees of KVK was released in the function.



Dr. Jayaraj P., Programme Coordinator, KVK presented action taken report of previous SAC meeting and thrust areas to focus in next year action plan. Discussion was conducted on field level problems need to be addressed and activities to be included in the Action Plan for next year. Dr. Yamini Verma, Professor and Head, PRS Panniyur, Sri. Jishimon, DDM, NABARD, officials from agriculture and allied departments, lead bank manager, representatives of FPOs, and farmer representatives attended the meeting and expressed their views and suggestions for action plan.

## ICAR-KVK KASARAGOD

### World Soil Day 2022

ICAR-KVK, Kasaragod observed World Soil Day on December 5, 2022, under the theme “Soil: Where Food Begins” at Mundiathaduka village of Badiadka Grama Panchayat, Kasaragod. Dr. Manojkumar T. S., Head of the ICAR-KVK, inaugurated the programme and highlighted the growing issues in soil management and urged participants to manage their soil health sustainably during his opening remarks. Dr. Benjamin Mathew, SMS-Horticulture, ICAR-KVK, Kasaragod, held a technical session on the “Importance of soil test-based soil and crop management”. The participating farmers raised their field level problems during the interactive session, for which suitable management practices were suggested by the



technical experts. A method demonstration on soil sample collection was carried out during the event. The experts provided advisories based on the soil health cards of the farmers. Mr. Manikandan K, STO, ICAR-KVK, Kasaragod, delivered the vote of thanks. A total of 32 farmers from Badiadka Grama Panchayat participated in the programme.

### Technology Transfer on Aerated Tender Coconut Water



The ICAR- Krishi Vigyan Kendra, Kasaragod transferred the aerated tender coconut water production technology to Shri Ajas P and Jisar K.T from Tirur, Malappuram district on 7 December 2022. The institute received an amount of Rs.25,000/- as the technology transfer fee. The training on the preservation technology was provided by Dr. Neelofar Illias Kutty, Chief Technical Officer, KVK.

## ICAR-KVK KODAGU

### Field Day on Paddy var. Kempu Mukthi for Flooded Area of Kodagu District

ICAR-KVK Kodagu conducted a Field Day on Paddy var. Kempu Mukthi for flooded area of Kodagu District under Frontline Demonstration at Huluse village on 14<sup>th</sup> December 2022. The Paddy crop was grown in a one-acre area with all the technologies like Seed treatment with Tricyclazole, Soil test-based fertilizer application was demonstrated. A total of 70 farmers, officials from department of Agriculture participated in the programme. During the field day, shri. Veerendra Kumar K. V, SMS (Plant Protection) explained to the farmers about the Integrated Crop Management technologies like Paddy var. Kempu Mukthi for flooded area of Kodagu District and recorded the yield parameter of the plot.



### Training Programme on Scientific Piggery Farming at Monnangeri Village

ICAR-KVK Kodagu conducted a one day off-campus training programme on scientific piggery farming in a flood affected village of Monnangeri of Madikeri taluk on 14<sup>th</sup> December 2022 for the benefit of 51 farmers. During the training programme, Dr. Suresh S.C, SMS(Livestock) gave information on selection of piglets breeding, feeding, construction of shed and health management in pig farming. In the training programme, he taught about balanced feed making using locally available raw materials to feed the pigs and making pig farming cost effective and profitable.

## ICAR-KVK KOLAR

### Training Programme on Swachhata Pakhwada



ICAR- KVK, Kolar conducted off campus Training programme on Swachhata Pakhwada at Bevahalli, Mulabagal taluk on 02.12.2022. Dr. Chikkanna G.S, Scientist (Home Science) delivered

lecture on Method of preparation of vermicompost and uses and distributed 5 vermicompost bags to the beneficiaries. Around 20 farmers participated and benefited from the programme

### Training on "Quality Cocoon Production through Adoption of Recent Technologies in Bivoltine Sericulture"

KVK Kolar organized an campus capacity development programme on "Quality cocoon production through adoption of recent technologies in bivoltine sericulture" in collaboration with Department of Sericulture, Mulbagal on 9.12.2022. Shri T M Kalappa, Deputy Director of Sericulture, Kolar district inaugurated the programme and advised the farmers to adopt new technologies in bivoltine sericulture. K. Thulasiram, Senior Scientist & Head, KVK Kolar gave the introductory remarks on the importance of bivoltine cocoon production. Shri S N Srinivas, Deputy Director, Govt. Cocoon Market, Kolar briefed on Recent technologies in bivoltine silkworm rearing and Dr. Shashidhar K R., Scientist (Sericulture), KVK Kolar explained about Management practices in Mulberry for quality crop harvest. Around 60 sericulture farmers participated and benefited from the programme.



## ICAR-KVK KOLLAM

### Nurturing Growing Buds- On Job Programme for the Vocational Higher Secondary School Students

KVK Kollam organized 12 OJT programmes on 4 different job roles of 6 days each. The job roles were Organic grower (6 nos). Floriculturist- open cultivation (5 nos) and Interior Landscaper (1 no). A total of 363 students were trained in these programme. Under Floriculturist- open cultivation the students were given theory and hands on training on budding and grafting, potting mixtures, potting and repotting, floral arrangements and special horticultural practices for floriculture crops. Under Organic grower the students were trained in composting techniques, organic cultural practices, organic certification- procedure and methods and post harvest measures. The students of Interior Landscaper were trained in the aspects of different types of containers, media preparation, floral arrangements and indoor plants. The programme helped the students to consolidate their learning.



## ICAR-KVK KOPPAL

### Celebration of Krishi Niratha Mahila Dinacharane



Women are the back bone of agricultural work force. It was observed that women play a significant and crucial role in agricultural development and allied fields including, main crop production, livestock production, horticulture, post harvesting operation, agro/social, forestry, fishing and many more. ICAR Krishi vigyan kendra, Gangavathi along with SKDRDP organised "*Krishi niratha mahila dinacharne*" in anegundi on 4-12-2021. Smt. Sharada resource person SKDRDP gangavathi, inaugurated the programme and delivered speech on role of women in agriculture and benefit of organic farmers. Dr.Jyothi.R Scientist (Horticulture) explained about malnutrition among women in Kalyan Karnataka and it's management. She also explained the importance of nutrition and terrace garden. Smt. Sunitha. Resource person SKDRDP gangavathi explained about different government programmes for women. About 45 women were attended the programme.

### Field Day on Organic Paddy Farming

Gangavathi was regarded as rice bowl of Karnataka, but use of fertilizer was high in this area. So, to realise the concept of organic farming in paddy in farmers ICAR KVK Gangavathi conducted Filed Day in Bandi harlapura village on 7.12.2022 . The programme was inaugurated by the progressive

farmer Suresh Angandi and addressed the farmers regarding use of the organic farming. Dr. Radha.J Scientist (Seed science and Technology) described the suitable paddy varieties for salt affected areas. She also explained importance of green manuring. Dr. Kavitha.Y .Ullikashi Scientist (Home Science) explained the harmful affect of Chemicals and fertilizer use for long use in fields in human health. Smt Farzana Korubu Senior technical assistant (Soil Science) narrated about importance of soil sampling and soil health card. Sri Narappa, Senior technical assistant and farm manager explained in detail about the importance of organic farming. Sri Ramesh progressive farmer shared his experience of organic farming in paddy with farmers. About 60 farmers benefited from the function.

### Celebrated World Soil Day

ICAR Krishi Vigyan Kendra Gangavathi celebrated world soil day on 5/12/2021 in collaboration with Agricultural research station, State Agricultural department and Cormondal company. The programme was inaugurated by Dr.Vishwanath.J, Special officer, campus head, Agricultural research station ganagathi narrated about the importance of organic farming and natural farming in his inaugural speech



# ICAR-KVK KOTTAYAM

## World Soil Day 2022 Celebrated

World Soil Day 2022 was celebrated in a splendid way at KVK Kottayam on 5<sup>th</sup> and 6<sup>th</sup> December, with the theme “Soil-where food begins”. The two daylong celebration programme comprised of competitions on essay writing, poster making and quiz for school and college students and seminars for farmers and school students. Dignitaries included



Mrs. Bindhu K. V., District Panchayth member and Mrs. Dhanya Sabu, Kumarakom Grama Panchayath President. The necessity of judicious soil health management was discussed during the talk on “The role of soil in food security” by Dr.Sam Kurumthottikal. Dr. N. K. Sashidharan during his talk on “Scientific methods for Soil Conservation” stressed the need for soil conservation and improved methods to achieve it. Nine teams from Government College, Nattakom, SN College, Kumarakom and VHSE Kumarakom participated in the quiz competition. Essay writing and poster making competition were held on the theme “Soil-where food begins” and were thought provoking. The winners were rewarded with mementos and certificates. Certificates were also distributed to all participants. Planting materials and

bio-inputs were provided to farmers to commemorate the world soil day celebrations.

## Training on Natural Farming

Two days training programme on the topic “Importance of Natural farming” was conducted at KVK Kottayam as part of the project “Scaling up Natural farming through KVKs 2022-2023” on December 6 and 7. Fifty farmers participated in the training. Preparation of inputs required for natural farming like fish amino acid, egg amino acid, panchagavya etc were demonstrated to the farmers.

## On Job Training



On Job Training for Organic Growers, and Floriculture-Open Cultivation batches of Vocational Higher Secondary School students from GVHSS, Kanakkary, VMBSGVHSS, Thalayolaparambu and St. George VHSS, Kaipuzha was conducted at KVK Kottayam during the first two weeks of December. The students were taught about organic farming, nursery management, plant protection and other aspects of agriculture. They were given field level training on plant propagation methods like grafting, budding and preparation of organic manures and bio-inputs.



## ICAR-KVK KOZHIKODE

### Soil Health and Natural Farming Awareness Programmes

Krishi Vigyan Kendra, IISR, Kozhikode organised soil health awareness programme on 5<sup>th</sup> December, 2022 at Naduvannur Hre Sec School for NSS unit students and Naduvannur town resident association. The programme was inaugurated by Smt V.K. Anitha, President, Baluserry Block Panchayat. Expert classes on natural farming, soil health management and organic pest and disease management were conducted by Dr P. Ratha Krishnan, KVK; Dr V. Srinivasan, IISR and Dr K.K. Aiswarya, KVK respectively. The participant farmers were issued with soil health cards and planting materials. A potted bush pepper was provided to the School for demonization purpose.



In another programme conducted at Kothodu, our NICRA village a demo of “Jeevamirtham” making was conducted and Cashew grafts were planted at farmer fields. The farmers were also made aware about coconut health management and application of soil and water conservation measures to sustain the yield.

### Kerala and Karnataka Farmer Entrepreneurs Trained at KVK on Spice Mix Mushroom Soup Powder Making



As part of ATARI, Bengaluru sponsored three days training, farmers cum entrepreneur from four district each Kerala (Kozhikode, Mallapuram, Idukki and Wayanad) and Karnataka (Chikkamagaluru, Kodagu, Uttara Kannada and Bangalore) were trained on Spice mix mushroom soup powder making under value addition of spices. Demonstration was carried by Ms A. Deepthi, SMS (Home Science) and visit to KVK facilities and demo units were carried by Dr P. Ratha Krishnan, Programme Coordinator. The trainees and Nodal officer from ATARI Dr K. Thimmappa visited the world's largest bush pepper nursery (Randuplakal Nursery owned by Mr & Mrs Jojo Jacob, Kozhikode -National and state level award winner)

## ICAR-KVK LAKSHADWEEP

### Hon'ble Minister of State for Agriculture Visits KVK-Lakshadweep



Sushri. Shobha Karandlaje, Hon'ble Minister of State for Agriculture and Farmers Welfare, Government of India visited KVK-Lakshadweep, ICAR-CMFRI on 2<sup>nd</sup>December 2022. The Hon'ble Minister visited the KVK premises and glanced the technological innovations exhibition. She interacted with the farmer / entrepreneur beneficiaries of the KVK. The exhibits comprised of the innovations/ technologies of ICAR institutions/Universities that are suitable for the special agro-ecology of the

islands, and which are being tested/demonstrated by the KVK. Initiatives of ICAR-CMFRI in Lakshadweep islands especially on the seaweed farming front was also highlighted. The Hon'ble Minister appreciated the efforts of the KVK and the ICAR-CMFRI and stressed to identify more such technologies that would benefit coconut farmers, poultry growers and fishermen of Lakshadweep and help them overcome the farming, secondary production, and marketing constraints unique to Lakshadweep. A farmer's interaction meet with the farmers and beneficiaries of the KVK was held at Muttiar Beach, Kavaratti organized jointly by the KVK-Lakshadweep and the Lakshadweep Administration, Department of Agriculture. Dr. V. Venkatasubramanian, Director, ICAR-ATARI, Bengaluru addressed the gathering. Appreciating the efforts of the KVK and the Lakshadweep Administration, the Hon'ble Minister stressed on the importance of forming more Farmer Producers Organization (FPO) in all islands of Lakshadweep.

## ICAR-KVK MALAPPURAM

### Session on Modernization of Animal Husbandry

As a part of pre Krishi Darshan programme organized by Kuttippuram and Ponnani blocks with the support of SAMETI, training sessions on modernization of animal husbandry was handled by Dr. C. Ibraheem Kutty, Programme coordinator of the KVK. Around 40 extension functionaries of the Agriculture department including Agriculture officers and Assistant Agriculture officers of various Krishi Bhavans within these blocks participated in the programme. Major focus of the training sessions were on practical aspects of modernization in AH sector with due concern for economic aspects and sustainability of the benefits expected out of modernization under the prevailing resource availability scenario of the state.

### Capacity Building Programme on Bee Keeping to Raise Additional Income



KVK Malappuram in collaboration with HortiCorp Kerala, organised three days capacity building programme on bee keeping from 1<sup>st</sup> December 2022. More than 70 participants attended the programme. Deputy Director of Agriculture inaugurated the event. The participants were familiarised with different

species of bees, domesticated bees, colony division, colony maintenance, Honey collection, processing and its value addition. The bee hives with colonies and other accessory equipments will be distributed to the participants in subsidised rate for taking up the enterprise.

### World Soil Day Celebrated

ICAR-KVK Malappuram celebrated world soil day on 5<sup>th</sup> December, 2022. The stakeholders of KVK from different blocks of Malappuram were participated. Dr. C, Ibraheemkutty, Programme coordinator, inaugurated the event. Dr Prasanth, K, Assistant professor, briefed the importance of the day to be celebrated as soil day and the message of the year put forth by FAO. An orientation programme was also organised as part of the event. Mr. Abbul Jabbar, P.K., Head, IF Tavanur has handled session on the 'importance of soil health management in homestead agriculture systems of the district'.

### Mushroom Cultivation for Enhancing Farm Income

Capacity building programme on mushroom cultivation was organised by the KVK in collaboration with ATMA Malappuram and Krishibhaan, Edayur. Around 30 farmers were trained for oyster mushroom and milky mushroom cultivation. Hands on sessions were also carried out to build confidence among the participants.



## ICAR-KVK MANDYA

### Organized Skill Training Programme

KVK, Mandya organized skill training programme from 05.12.2022 to 10.12.2022 on "Bee keeping techniques" to 15 selected youth farmers. The training was inaugurated by Dr. Naresh, N.T, Sr.Scientist and Head. The scientific bee rearing techniques were taught to the trainees on and off campus training programmes by resources personnel from various institutes. The trainees were taken to exposures visits for practical experience of different kinds of bee keeping.



## ICAR – KYK MYSURU

### Animal Vaccination Campaign

ICAR JSS Krishi Vigyan Kendra, Suttur in collaboration with Department of AHVS, Mysuru conducted vaccination campaign for Lumpy Skin Disease (LSD) and Foot and Mouth Disease (FMD). For about 1568 cattle which falls under Veterinary Hospitals, Suttur



and Nagrale, Nanjangud Taluk vaccination against LSD was carried out using Goat Pox Vaccine in a span of 10 days. Door to door FMD vaccination and ear tagging was done for about 400 cattle. During the vaccination program awareness on LSD disease was also created among the farmers. Further, the information on tick management, deworming medicines and nutrition management of cow was disseminated.

### Participation in Women Pakhwada

Prevention of Violence against women-Pakhwada organized by JSS Academy of Higher Education and Research at Mysuru. In this event Smt. H.V. Divya, Senior Scientist and Head (I/c) and Dr. G.M. Vinay, Scientist (Horticulture) delivered a lecture on Waste management, Pest and disease management in Kitchen garden and Terrace garden.

### Field – Paddy Var KMP 220



The field day of *KMP 220* was held on 15.12.2022 at Dananayakanapura, T. Narasipura Taluk, Mysuru district in collaboration with Dept. of Agriculture



and ATMA, Mysuru. The farmers of this region are mostly growing paddy variety *Jyothi*. This variety is prone to disease and gives low yield. The University of Agricultural Sciences (UAS), Bengaluru released a new variety *KMP 220*. Farmers opined that this variety will give more grass and yield than the variety *Jyoti* with less disease, which will reduce the cost to the farmers and get a better profit. Smt. H.V. Divya advised to farmers to select seedlings from good plants and use the seed for the next season.

### World Soil Day 2022

World Soil Day and Women in Agriculture event has been celebrated in collaboration with IAT, Mysuru chapter at ICAR JSS Krishi Vigyan Kendra, Suttur. The retired Joint Director of Agriculture and Vice President, IAT Dr. M. Mahantheshappa opined that, the soil is the source of food and must be preserved for future generation. Women farmers have been called upon to setup Farmer Producer Organizations (FPO) for creation of better markets for their produce and avail government subsidies.

Mrs. Managala Somashekar, a former Zilla Panchayath member who participated as the chief guest of the program. Women should be more organized and participate in the secondary agricultural activities to become economically strong. Mr. A.S. Guruswamy, former Zilla Panchayat member said that recent time's literate women are also interested in agriculture. Dr. B.S. Deepak, Assistant Director of Agriculture, Nanjangud gave information about various subsidies and agriculture awards given to farmers by the Dept. of Agriculture.

Smt. H.V. Divya, Senior Scientist and Head (I/c) also spoke on the occasion. Sri. J.G. Rajanna delivered lecture on management of soil nutrients. Mr. Venkatesh SBI, Mysuru gave information about the credit facilities available to farmers.



## ICAR-KVK PALAKKAD

### Demonstration on Integrated Pest Management in Coconut

Coconut is one of the major crops in Kozhinjampara panchayath of Palakkad district. The coconut farmers of the area are facing a severe problem of pest and disease incidence in the plant. Root wilt, rhinoceros beetle and red palm weevil are major problems in the area. Coconut palms in Moolakkada, an area in Kozhinjampara panchayath is severely affected by Rhinoceros beetle attack. The Kunnamkattupathy milk producers' co-operative society in the area has 250 registered farmers and records the highest milk production in the area. The dung pits in the area are the major breeding sites for Rhinoceros beetle and hence a frontline demonstration on IPM for Rhinoceros beetle was conducted for the farmers of the society. An awareness programme was conducted for the farmers and demonstration on application of *Metarrhizium anisopliae* in dung pits for the management of grubs of Rhinoceros beetle was carried out in the area.



Coconut palms in Muttimampallam, another area in the same panchayath were severely affected by red palm weevil. Some of the farmers in the area had lost more than five palms due to red palm weevil infestation. A frontline demonstration on IPM for red palm weevil was conducted in the area, where pheromone traps were installed and chemical

management was adopted in affected palms. An awareness programme was conducted in the area and Smt. Prajisha, panchayath member inaugurated the programme.

### World Soil Day 2022- Soils: 'Where Food Begins'



KVK Palakkad celebrated World soil day on 5-12-2022 at NICRA village Pattithara of Palakkad district. Panchayth president Sri. P Balan inaugurated the programme which was presided by Smt Sebu Sadakathulla, Vice President of Pattithara Panchayat. Dr. Sumiya K V, Programme Coordinator, KVK Palakkad and Dr. Smitha Baby, Assistant Professor of College of Agriculture Vellanikkara addressed the programme. There was a collective participation of 49 RAWE students of College of Agriculture, Vellanikkara, 26 students of GVHSST, Chittoor and 49 farmers of Pattithara panchayath. Posters of soil health management, still models of soil conservation and watershed etc. were exhibited during the programme, which were useful for farmers. Sri. Arun Kumar K.V (Assistant Professor, KVK Palakkad) took an awareness class to farmers on the topic 'Soil health management'. Apart from this, soil sampling was demonstrated and soils from 50 farmers field were collected for analysis.

Another programme on soil day was conducted at Attapady under the Tribal Extension Centre of KVK Palakkad. Awareness class and quiz competition was conducted at two Vocational higher secondary schools of Agali and Sholayur panchayat. Students actively participated in the programme and the prize was distributed to the winners.

## ICAR – KVK PATHANAMTHITTA

### India Post Releases Special Postal Cover on the ODOF Crop of the District - Jackfruit



India Post, Department of Posts, Ministry of communications, Govt. of India released special cover on Jackfruit products in an august function organized in the Head Post office, Pathanamthitta District, Kerala. Jackfruit is the ODOF crop of Pathanamthitta and the release was in recognition of the pioneering efforts made by ICAR- Krishi Vigyan Kendra, CARD, Pathanamthitta for the transformation of Jackfruit from the most “wasted fruit” to the ‘State fruit’ of Kerala. The ODOF scheme is being implemented across the country as part of the PM Formalization of Micro Food Processing Enterprises (PM FME) scheme launched by Ministry of Food Processing Industries under the banner of ‘Atmanirbhar Bharat Abhiyan’.

The KVK has developed more than 25 commercial Jackfruit processing technologies and supported establishment of 17 Jackfruit processing entrepreneurs. These entrepreneurs have created significant volumes of business in Jackfruit processed products. Rt. Rev Thomas Mar Timotheos Episcopa, Chairman, Krishi Vigyan Kendra, Pathanamthitta, in his inaugural address, accentuated the efforts being made by the KVK for redefining Jack fruit. He also said that the Processing technologies developed by Krishi Vigyan Kendra, Pathanamthitta are providing livelihood options for lots of people and entrepreneurs. Dr. C.P Robert, Senior Scientist and Head, KVK, Pathanamthitta in his address emphasized that the release of special cover on Jackfruit products by India Posts will greatly help in spread of the technologies among the rural population. The special



cover was released by Shri. K. K. Devis, Director of Postal Services, who in his address noted that, Value addition of jackfruit has greatly enhanced the demand for Jackfruit and the income realized by growers. Dr. Jacob John, Director of Extension, Kerala Agricultural university observed that the ODOF scheme is facilitating farmers to realize better profits through processing and value addition of their agricultural produce.

### World Soil Day 2022 “Soils: Where Food Begins”

ICAR-Krishi Vigyan Kendra, Pathanamthitta celebrated world soil day programme for the year 2022 on Dec. 5th in collaboration with Kalluoppara Grama panchaya in Mallappally Block of Pathanamthitta district. The programme was inaugurated by Sri. M J Cheriyan, Vice President Grama Panchayat, Kalluoppara. In his inaugural address he emphasized on the importance of maintaining healthy ecosystems and human well-being by addressing the growing challenges in soil management, soil salinization and importance of soil analysis. On the occasion, soil health cards were distributed to the farmers. The soil health cards are prepared based on the analysis of soil samples collected from different clusters of selected panchayats with the concept of grid method of soil sampling. Keynote address was delivered by Dr. C P Robert, Senior Scientist and Head, KVK, Pathanamthitta. In his theme based address, he highlighted that soil nutrient loss is a major soil degradation process threatening nutrition. He also mentioned that soils need a balanced and varied supply of nutrients in appropriate amounts to be healthy. Hence soil test based crop specific fertilizer application is the need of the hour. A seminar on the topic ‘Importance of soil health management in homestead vegetable cultivation’ was organized for the benefit of farmers and the session was led by Smt. Ambily Varughese, Farm Manager. As part of the programme an exhibition of soil enriching technological products of KVK was also arranged for creating awareness among the farming community.



## ICAR – KVK RAICHUR

### Sunflower Field Day



A field day on Integrated Crop Management under NMOOP in sunflower was organised under NMOOP at Rukkappa's field of Sasvigeravillage, Devadurga taluk, Raichur District in collaboration with AICRP on sunflower, Main Agriculture Research Station, Raichur. Dr. Bhat made an introductory speech informing present oil seed crop scenario in Karnataka and purpose of conducting cluster frontline demonstration (50 Nos.) at sasvigeravillage and also highlighted role of soil health in augmenting sunflower productivity. Then, Dr Umesh M.R., Scientist (Agronomy), AICRP-Sunflower, Main

Agriculture Research Station, Raichur, informed about best four agronomic percentage that every farmers to adopt for enhancing the sunflower seed yield.

Dr. Poornima, Scientist (Plant Pathology), AICRP-Sunflower, Main Agriculture Research Station, Raichur, delivered a talk on Integrated Pest and Disease Management approaches to reduce insects and disease menace in sunflower crop. The presidential remark was done by Dr. Vikas kulkarni, Head, AICRP-Sunflower, Main Agriculture Research Station, Raichur. He gave the reasons for low yield of sunflower, which is attributed to washing out of pollens during unseasonal rains and also to poor soil fertility.



## ICAR – KVK RAMANAGARA

### Field day on" Management of Nut Splitting and Button Shedding in Arecanut"



Arecanut is a one of the commercial crop of Ramanagara district. ICAR-KVK Ramanagara planned Front Line Demonstration in 5 farmers field on Integrated Nutrient Management in Arecanut at Pemmanahalli village of Magaditaluk of Ramanagara district. In this activity, awareness was created about

significance of macro and micro nutrient (Borax & ZnSO<sub>4</sub>), importance of cover crops (Mucuna), Microbial consortia, biofertilizer, enrichment of FYM and good management practices of Arecanut garden. Each palm was supplied with 20kg of FYM fortified with microbial consortium, 2 kg of neem cake, 10 gm Borax, 20 gm of Zinc sulphate RDF (100:40:140 g NPK/palm)and Mucuna green manuring in between the rows of Arecanut. The field day was organized in farmers field to spread the knowledge on effect of integrated nutrient management on yield of Arecanut and to manage nut splitting and button shedding . During the programme Preethu D. C., Soil scientist in her address explained that, the farmers are growing Hirehalli tall variety of Arecanut. Lata R. Kulkarni, Senior Scientist and Head, KVK, Ramanagara briefed about the objectives of KVK and activities taken by the scientist in Pemmanahalli village Agriculture officer and Assistant Horticulture officer of Solur Hobli informed about the different scheme of the department for the farmers. Mr.Shivkumar who adopted this technology shared his experience.

## ICAR – KVK SHIVAMOGGA

### Field Day on Indigenous Paddy Varieties



ICAR - Krishi Vigyan Kendra, Shivamogga organized the Field Day on Indigenous Paddy Varieties on 08-12-2022 at Dhombekoppa, Hosanagara Taluk. During the programme, Dr. B. C. Hanumanthaswamy, Senior Scientist and Head, KVK, Shivamogga gave introductory speech and welcomed everyone. The programme was inaugurated by Hon'ble Vice Chancellor Dr. R. C. Jagadeesh and in his inaugural speech he suggested the farmers to select the varieties based on site specific location, climatic and soil condition which will indirectly help to get higher yield. He also informed that, in India there are more than 66,000 paddy varieties which are maintained and conserved in gene bank. Also in world 1.60 lakh paddy varieties have been conserved at -18° C in International gene bank of Manila of Philippine country, which can be stored upto one century. Dr. B. Hemla Naik, Director of Extension, KSNUAHS, Shivamogga, in his presidential address, briefed about the importance of indigenous paddy varieties. Later he explained the characteristics and features of different indigenous paddy varieties and their benefits for the farming community for getting higher yield. He also suggested the farmers to take up the value addition in rice. Dr. M. C. Wali, Director of Research, KSNUAHS, Shivamogga, Dr. Dushyanth Kumar, Dean (Agri), College of Agriculture, Shivamogga, Dr. S. U. Patil, Associate Director of Extension, KSNUAHS, Shivamogga, Dr. D. M. Basavaraj, Deputy Director of Agriculture, Shivamogga, Dr. B. C. Hanumanthaswamy, Senior Scientist and Head, KVK, Shivamogga, Dr. M. Basavaraj, Scientist (Agronomy), KVK, Shivamogga, Dr. Jyoti M Rathod, Scientist (Home Science), KVK,

Shivamogga, Dr. Niranjan, K. S., Farm Manager, KVK, Shivamogga and Dr. Arun Kumar, P., Scientist (Agri. Extension), KVK, Shivamogga were also present.

### Celebration of Women in Agriculture Day

ICAR - Krishi Vigyan Kendra, Shivamogga celebrated the special programme "Women in Agriculture Day" on 04/12/2022 at Harnahalli village of Shivamogga District. The programme was inaugurated by Smt. Sumithra, Gram panchayat vice president. During the programme Dr. Jyoti M. Rathod, Scientist (Home Science) explained the importance, objectives and significance of celebration of women in agriculture day. In detail she briefed about the objectives of women in agriculture day such as creating sustainable agricultural livelihood opportunities for women in agriculture, to increase women's participation in agriculture in a productive manner, to enhance management capacities of women in agriculture for better management of biodiversity, to improve women's skills and abilities in agriculture to support agricultural and non agricultural activities and enabling the women to have a better access to agricultural inputs and services from government and other agencies. She also gave information of different capacity development programmes that are conducted in Krishi Vigyan Kendra, Shivamogga and advised them to gain knowledge from the training programmes and increase their participation role in agriculture. Later she briefed about the role of nutrition and nutrients especially for women in maintaining their good health. During the programme G.P.L.F. President Srilatha, Secretary Roopadevi, Members Manjula, Radha, Lakshmi, G.P.L.F. staff Sunitha, Hema, Preethi, Bhagyashree, Lakshmi, Asha worker Girijamma and Dr. Pooja, G. K., SRF (ARYA), KVK, Shivamogga were also present. Totally 93 participants were benefitted from this programme.



## ICAR – KVK THRISSUR

### Interventions to Promote Location-Specific Integrated Farming System Models for Thrissur District

KVK Thrissur is implementing NABARD-funded Rural Innovation Project which aims to promote Integrated Farming Systems (IFS) through the skill upgradation of master trainees. The project was initiated by identifying ten IFS farmers each from the proposed intervention area, Kodakara and Chalakudy blocks of Thrissur district. The identification has been done by district-wide scouting applying participatory rural appraisal (PRA) techniques like transect walks, focus group discussions, key informant interviews, etc. IFS farms of Thrissur district consist of components of crop production, livestock, fishery, poultry, beekeeping, etc., with an objective of higher profitability without altering ecological and socio-economic balance to meet the national goals. Once the farms were identified, the twenty farmers in charge of the IFS farms were chosen as master trainers for the rural innovation project. Another set of ten farmers was selected and named the 'Agri task force' for the rural innovation project. The beneficiaries identified will be molded to secure sustainable production of high-quality food and other products through ecologically preferred technologies, sustainable farm income, reduced sources of present environment pollution generated by agriculture, sustaining the multiple functions of agriculture. Farmer Field School (FFS) approach through people-centered learning and learning by doing will be adopted to create a conducive environment for farmers' learning. The project aims to improve soil health, weed and pest control, increase water use efficiency and maintain water quality. The project envisages improving the economic condition of small and marginal farmers, which enhances education, health, and overall livelihood security.



## ICAR – KVK THIRUVANANTHAPURAM

### Hydroponics Nutrient Film Technique for Higher Productivity



Hydroponics is the system of growing plants in a nutrient solution without soil. Through this technique, plant roots absorb the nutrients present in the water. Plants will maintain optimum nutrient and moisture levels in hydroponics systems. The major advantage of this system is healthier plants and faster growing plants since the required amount of water, nutrient and oxygen are fed to the roots. Urban farmers can use this method to grow vegetables where traditional

soil system cultivation is not feasible or cost-effective. Plants in the hydroponic system can achieve 20–25% higher yields than a soil-based system.

KVK demonstrated Hydroponics NFT method at KVK campus to transfer this new technique to farmers. The system consists of 24 numbers of plants in a minimum area. Vegetables can be cultivated by this method. Fully automatic solution circulation avoids soil borne diseases to the plants and ensures nutrient rich solution and good aeration which are necessary for crop growth. As a part of this, KVK conducted an online training to interested farmers on hydroponics system on 27/11/2022.

Shri. Arun Kumar V from Vellanad has been carrying out hydroponics system based cultivation as a start up venture and under the guidance of KVK has been implementing the system in Thiruvananthapuram district on a large scale. According to farmers' feedback, the labour involvement is minimal, less pest and disease incidence and increased productivity are the advantages of this system.

# ICAR – KVK TUMKUR-1

## Celebration of World Soil Day

ICAR Krishi Vigyan Kendra, Tiptur celebrated World soil day 2022 with the theme 'Soils: where food begins' on 5<sup>th</sup> December 2022 at KVK, Tiptur. The programme was inaugurated by Dr. V. Govinda Gowda, Senior Scientist & Head, KVK, Tiptur and addressed the audience regarding importance of soil and explained about the importance of maintaining healthy eco systems by tackling challenges posed by soil management. Smt. Rekha, Director, Tiptur farmer company limited, Tiptur explained how soil health and human health were interrelated and stressed the importance of balanced nutrition in soil for food production. On this occasion soil health card were also distributed to 20 farmers and more than 70 participants, Scientists from KVK participated in this programme



## Organized Block Level Coconut Seminar on Scientific Coconut Cultivation

ICAR Krishi Vigyan Kendra, Tiptur has organized one day block level seminar on scientific coconut cultivation on 7<sup>th</sup> December 2022 at KVK, Tiptur. Sri. E. Arvazi, Director, Coconut Development Board, Bengaluru inaugurated this programme and addressed the audience regarding schemes available under CDB, Bangalore. Sri Chandrashekar, SADH, Tiptur explained about the on going schemes under Department of Horticulture, Tiptur. Mr. Jayanath, Asst. Director, CDB, Lokshara Farm, Mandya explained the important practices to be followed in coconut marketing. Dr. Kiran Kumar, Scientist, HRES, Arsikere



delivered the lecture on Integrated Pest and Disease Management in Coconut and Dr. Nithyashree, Scientist, KVK, Tiptur delivered the lecture on value addition in Coconut. More than 75 participants attended the programme

## Final year B.Sc (Hons.) Agriculture Student Placement in KVK under Student READY Programme

Under student READY programme the final year B.Sc (Hons.) Agriculture students from college of Agriculture, GKVK was placed in ICAR- KVK Tumkur-1 for the duration of 06 days. Totally, 30 students were placed in KVK from 5<sup>th</sup> – 10<sup>th</sup> December 2022. Intensive practical exposure was provided to the students. Dr. Govinda Gowda V., Senior Scientist & Head of KVK oriented the students on KVK genesis, mandates and objectives. The Scientists of KVK trained the students on diagnosing the pest & diseases of nutrition garden establishment, soil sampling and its analysis of different farm lands, campaign on Swachata Abhiyana and also participated in the training programme organized by KVK



## ICAR – KVK TUMKUR-2

### Celebration of World Soil Day



ICAR-KVK, Hirehalli, Tumakuru-II organized “World Soil Day” at Jaggenahalli, Madhugiri, Tumakuru on 5<sup>th</sup> December 2022 in collaboration with AVISHAKR, NGO, Tumakuru. Dr. Loganandhan, Principal Scientist & Head KVK, Hirehalli explained about the theme of this year Soil Day “Soils Where Food Begins”. He also explained about the various support that KVK provides with reference to Soil & Water Conservation. Mr. Anand, Head, AVISHAKR NGO, Tumakuru explained about importance of Soil fertility with use of organic manure, especially AMC from ICAR- IIHR, Bengaluru. In this programme Soil Health Cards were also distributed to the farmers and farm women. About 50 farmers participated in the programme.



### Sponsored Training on Recent Technologies in Agricultural and Horticultural Crops

A Sponsored Training Programme on “Recent Technologies in Agricultural and Horticultural Crops” was organized in association with Command Area Development Authority (CADA), Govt. of Karnataka, Tumakuru on 13<sup>th</sup> December 2022 at ICAR-KVK, Hirehalli, which was funded by CADA, Mysuru. Sri Maruthi, ADA of CADA welcomed the Guest and Farmers. The Chief guest Dr. Loganandhan, Principal Scientist & Head, KVK, Hirehalli, inaugurated



the training programme and emphasized on the KVK activities carried out in the district and the production of the agri products at KVK premises. During technical session Sri P.R. Ramesh, SMS-Soil Science delivered a lecture on “Role of Soil and Soil Health Management in Food Production Technologies”. Dr. Somasekhar, SMS-Plant Breeding delivered a lecture on “Cereals and Pulses Production Technology” and Sri J. M. Prashanth, SMS-Horticulture delivered a lecture on “Areca nut and Coconut Scientific Cultivation Practices”. The Veterinary Officer, Department of Animal Husbandry, Tumakuru interacted with the participants regarding the diseases management in the milching animals. This training programme was attended by more than 60 farmers from the Tumakuru District. Dr. N Loganandhan, Principal Scientist & Head, KVK, Hirehalli coordinated the Training Programme.

## ICAR – KVK UDUPI

### World Soil Day and Scientific Cultivation of Arecanut



Keladi Shivappa Nayaka University of Agricultural and Horticultural Sciences, Iruvacki, Shivamogga, ICAR-Krishi Vigyan Kendra, Brahmavar, Udupi Dist, Zonal Agricultural and Horticultural Research Station, Brahmavara, Department of Horticulture, Udupi Dist and Kokkarne Farmer producer company limited celebrated World Soil day and conducted training programme on Scientific cultivation of Arecanut at Kalthuru, Santhekatte on 05.12.2022. Dr Lakshmana, Associate Director of Research, ZAHRS, Brahmavara inaugurated the programme. In his inaugural speech, he highlighted the importance of the soil and different ways to retain health of the soil i.e. texture and structure of the soil.

Shri Vishwanath Adiga, President, Kokkarne Farmers producer company limited Presided over the function. Dr. Dhananjaya. B, Senior Scientist and Head, KVK, Brahmavara, Shri Hemanth Kumar. L, Senior Assistant Director of Horticulture, Udupi, Dr Jayaprakash. S. M, Associate Professor, ZAHRS, Brahmavara and Dr.Sachin. U.S, Scientist (Plant Protection), KVK Brahmavar were Chief guests of the programme.

### Farmers Field Day on Scientific Cultivation Technologies in Coconut

Keladi Shivappa Nayaka University of Agricultural and Horticultural Sciences, Iruvacki, Shivamogga, Indian Council of Agricultural Research, New Delhi, ICAR-Krishi Vigyan Kendra, Brahmavar, Udupi in association with Coconut Development Board, Bengaluru conducted Farmers Field Day on Scientific production Technology in Coconut at Shirlalu village, Karkala Tq on 13.12.2022.

Shri Gunapal Kadamaba, Progressive Farmer and Retd. Principal, Shirlalu village inaugurated the programme. He highlighted the difficulties in coconut cultivation and also the farmer to go for intercultivation in coconut plantation to get more income.

Shri Shinivasa. B. V. Senior Assistant Director of Horticulture, Karkala Tq. Explained about the different schemes available in the horticulture dept. for coconut cultivation.

Dr.B Dhananjaya, Senior Scientist & Head, KVK, Brahmavar, president of the function.



Dr. Chaitanya. H.S. Scientist (Horticulture), KVK Brahmavara as a resource person, explained about Scientific cultivation practices in coconut and Dr. Sachin. U.S, Scientist (Plant Protection) trained farmers regarding management of pest and diseases in coconut through Integrated approaches. The programme was sponsored by coconut Development Board, Bengaluru.





## ICAR – KVK UTTARA KANNADA

### Paddy Field Day Variety MGD -03/PSB -68



The University of Agricultural Sciences, Dharwad, ICAR- Krishi Vigyan Kendra Uttara Kannada, Sirsi in association with ICAR- National Research Center for Integrated Pest Management, New Delhi, Raitha Kalyana Farmers Producers Company, Pala and KSDA, Mundagod organized Paddy (MGD -03/PSB -68) field day at Pala, Mundagod Tq on 1.12.2022. Under the adhoc project entitled “Validation and promotion of Integrated Pest Management in Rice and Horticultural Crops in TSP region of India” Paddy Front Line Demonstration was conducted in 30 acres at Pala, Mundagod. New variety MGD 03, use of bio-inoculants viz., Azospirillum, PSB and *Pseudomonas florescens*, installation of pheromone traps against YSB and spray with Malathion against ear head bug was demonstrated.

The field day was inaugurated by Dr. Mukesh Sehgal, Principal Scientist, ICAR- NCIPM, New Delhi

by pouring rice grains into bamboo basket and in his address highlighted on importance of integrated pest management in paddy ecosystem and multi storied farming. Also made special mention about the role of KVK in implementation of Tribal Sub Plan project which is operating in different states across the country. Dr. A. S. Vastrad, Director of Extension, UAS Dharwad gave presidential remarks. He gave brief note about blast disease resistant and high yielding MGD 03 paddy variety and suggested gathered farmers for varietal spread in large area. He explained about the opportunities under RKVY-RAFTAAR projects for innovative ideas. Dr. B. S. Yenagi, Agronomist, UAS Dharwad briefed on agronomic practices in increasing yield of Paddy. Another Entomologist from NCIPM New Delhi, Dr. Raghavendra K. V. narrated on IPM pathway, role of natural enemies in pest management and activities of ICAR-NCIPM centre. Shri Ramesh S. Jigaler, Director Raitha Kalyan FPC explained on facilities available for members of FPC. Shri. M. S. Kulkarni, ADA Mundagod also addressed on subsidy schemes available in agriculture department. FLD farmers also shared their views about variety and two progressive paddy growers were felicitated during the occasion. Two extension folders on WBPH management and MGD-03- a high yielding paddy variety were released for the benefit of farming community. At the outset, Dr. M. J. Manju, Sr. Scientist and Head, KVK Uttara Kannada, Sirsi welcomed the delegates and farmers. Dr. Roopa S. Patil, Scientist (Plant Protection) and Programme Organiser gave introductory speech and vote of thanks.

## ICAR-KVK VIJAYAPURA-I

### FLD on Battery Operated Onion Detopper

ICAR-Krishi Vigyan Kendra, Vijayapur Scientist Dr.Vivek.S.Devaranavadagi conducted a frontline demonstration in the farmer’s field on battery operated onion detopper at Kalgurki village, Basavan Bagewadi taluk, Vijayapur on 02.12.2022. The Onion detopper works on 12 volts battery and it consists of hacksaw blades which help for the separation of onion leaves and bulbs at the time of crop harvest. The onion detopper separates 10-12



Qtl bulbs in a day. It saves time and labour significantly. The farmer’s feedback is found to be positive. Similar demonstrations were also conducted in Mukarthihal and Bijjaragi villages of Vijayapur district.

## ICAR-KVK VIJAYAPURA-II

### World Soil Day



ICAR -KrishiVigyan Kendra, Vijayapura-II (Indi) organized **World Soil Day with theme soils: where food begins**. Sri. Abdul Razak, Marketing officer, Coramandal Vijayapura, Sri. Dixit Patil, Israel Company Limited. Sri. MuddugoudaPatil, Organic farmer of Bhataganaki village of Indi taluka where chief guest. Dr.Savita B Scientist (Soil Science), ICAR KVK Vijayapura-II (Indi) coordinator for this programme welcomed all the dignitaries for programme. The programme begin with watering and vermicompost application to sapling. Dr.Prema B. Patil, Senior Scientist and Head, presided the function in her presidential remarks requested farmers to reduce

the application of chemicals and herbicide to the soil and save the soil health. Sri. Abdul Razak, Marketing officer, Coromandal Vijayapura in his address explained about importance of fertilizer for maintenance of soil health. Sri. Dixit Patil, Israel Company Limited, Bangalore explained about the management of saline soil and saline water to farmers. Sri. MuddugoudaPatil, Organic farmer urged the farming community to go for organic farming and improve the soil productivity. Dr.Savita B. Scientist (Soil Science) explained that 95% of the food production comes from soil and requested the farmers to maintain soil quality and soil health and gave tips to farmers for maintenance of soil health.

- Maintenance of soil organic carbon in soil
- Based on soil testing report apply the fertilizer to the crops.
- Use of green leaf manure and bio fertilizer to soil
- Optimum use of water to irrigate the crops
- For production of nutritious and healthy food healthy soil is essential
- Conservation of soil health is must for betterment of farmers wealth and nations growth.

In this programme 25 soil health cards were distributed to farmers by dignitaries. Around 75 farmer and farm women participated. The programme ended with vote of thanks by Smt. Heena M.S. Scientist (Horticulture)

## ICAR-KVK WAYANAD

### Farmer Scientist Interaction in Convergence with Agriculture Department



ICAR- KVK Wayanad in convergence with Agriculture Department conducted one day farmer scientist interaction at KVK Ambalavayal. Officials of Agriculture Department, farmers and scientists

interacted with their doubts in crop management and protection. Smt. Emy Paul, Deputy Director (E & T) welcomed the programme. The description of the programme was dealt by Deputy Director (Agriculture), Sri. Mammootti K. The presidential address was given by Smt. Safeena K S, Principal Agriculture Officer. The programme was inaugurated by standing committee chairman Smt. Usha Thampi. Various classes on Crop management of Coconut and arecanut by Dr. Susha S Thara and New generation pesticides by Dr. Berin Pathrose were included on the day for the farmers. Dr. Jayaraj P, attended the programme online and cleared the doubts of the official of the farmers. 26 farmers actively participated in the programme. Dr. Safia N.E, Programme Coordinator delivered vote of thanks to the programme.

## ICAR-KVK YADGIR

### World Soil Day

ICAR-KVK, Yadgir in collaboration with Coromondal Fertilizer, Shorapur Organized World Soil Day Programme on creating awareness about the importance of soil in sustainable food production at Shellagi village of Shorapur Taluk on 5th December, 2022. Senior Scientist and Head Dr. Jaiprakash Narayan R.P. Inaugurated the programme. Shri. Amaresh Patil-ZP, member



explained the various schemes of Agriculture department in Soil fertility and productivity at the individual farm level. Dr. Umesh Barikar (Soil & Water Engineering) KVK, Yadgir briefed on soil sampling method, reclamation saline and Alkaline soils and water conservation technique. Dr. Kotresh Prasad explained about the importance of organic farming compost making and Integrated farming system and Mr. Guruprasad explained the use and benefits of organic manure in soil and biofertilizer. During this occasion 153 farmers, 5 scientists and staffs & 48 RAWE students participated in the programme.



## PATHANAMTHITTA DISTRICT HIGHLIGHTS



Maramon Convention



Sabarimala Temple



Aranmula Boat Race



Aranmula Kannadi (Metal Mirror)



Perumthenaruvi Waterfalls



Gavi Tourist Spot



Konni Eco Tourism (Elephant Park)



Padayani