

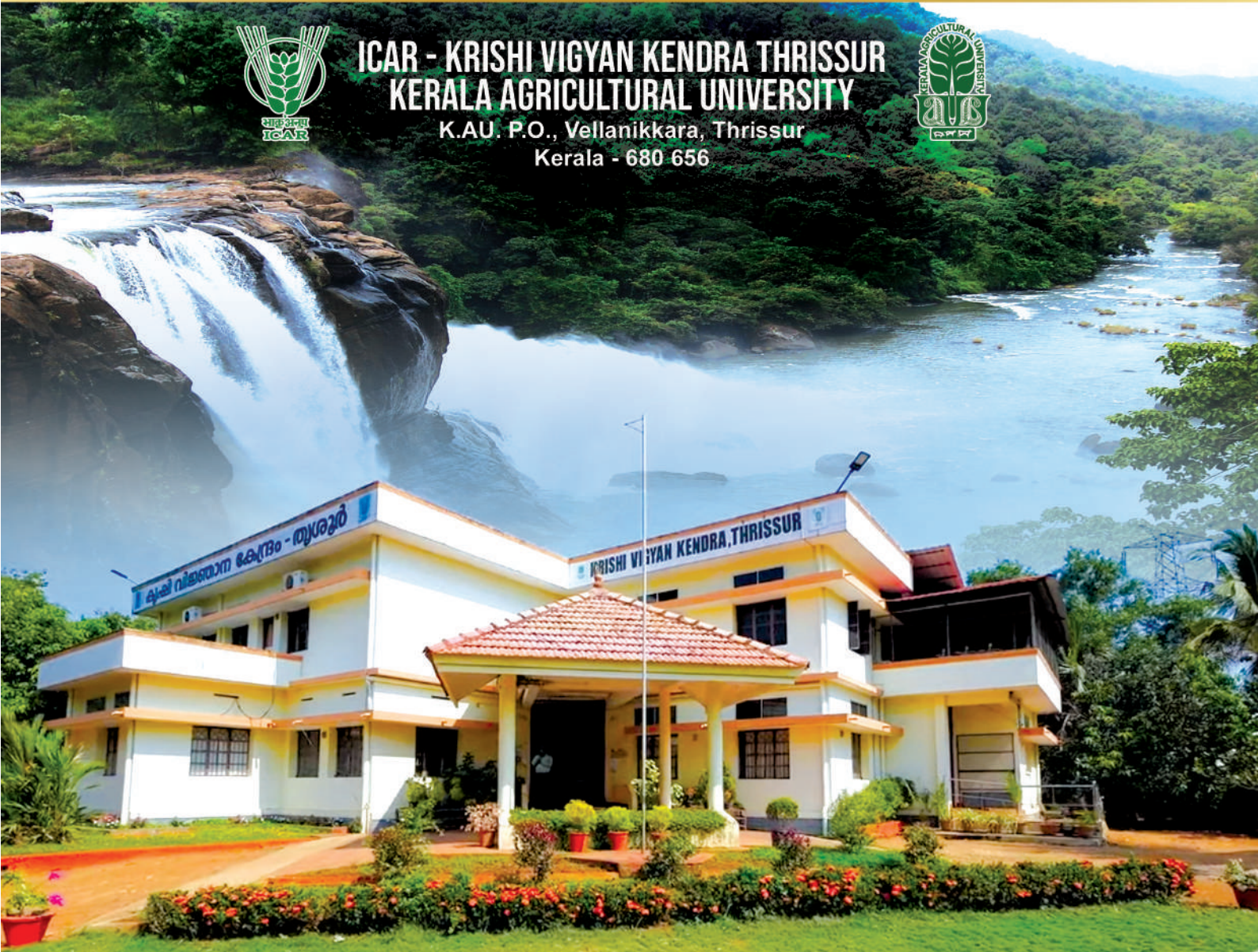
# KVK TIMES

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

Vol. 01 Issue 39 2023 February 1-15



**ICAR - KRISHI VIGYAN KENDRA THRISSUR**  
**KERALA AGRICULTURAL UNIVERSITY**  
K.A.U. P.O., Vellanikkara, Thrissur  
Kerala - 680 656



**ICAR - Agricultural Technology Application Research Institute**

Zone - XI, Bengaluru, Karnataka - 560024

Email : [atari.bengaluru@icar.gov.in](mailto:atari.bengaluru@icar.gov.in)

# KVK TIMES

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

Published by:

**Dr. V. Venkatasubramanian**

Director, ICAR- ATARI, Zone XI, Bengaluru

Technical Guidance:

**Dr. Jacob John**

Director of Extension, KAU

Special Thanks:

**Dr. M. J. Chandre Gowda**

Principal Scientist (AE) and Nodal Officer  
ICAR- ATARI, Zone XI, Bengaluru

Compilation and Editing

**Dr. Mary Regina F.**

Programme Coordinator, ICAR-KVK Thrissur

**Dr. Ani S Das**

Subject Matter Specialist (Animal Husbandry)

**Dr. Aneena E. R.**

Subject Matter Specialist (Home Science)

**Dr. Deepa James**

Subject Matter Specialist (Plant Protection)

**Dr. Aparna Radhakrishnan**

Subject Matter Specialist (Agril. Extension)

**Ms. Raji S. Prasad**

Subject Matter Specialist (Agronomy)

**Mr. Anoop Krishnan**

Subject Matter Specialist (Horticulture)

Production and Coordination:

**ICAR Krishi Vigyan Kendra Thrissur**

Design and Layout:

**Sri. M. A. Vasudevan**



## MESSAGE



India's agricultural growth depends upon its research and transfer of this knowledge and information to farmers and other stakeholders in agriculture and allied sectors. Since its inception Krishi Vigyan Kendras (KVKs) have accelerated agricultural production and improved the farming community's socio-economic conditions by acting as the information and knowledge centre of each district. The KVKs had extensively scaled up potential technologies to the farmers and other stakeholders at the district level. In Thrissur district of Kerala, KVK Thrissur is a single window agricultural knowledge, resource, and capacity development centre supporting initiatives of the public, private and voluntary organisations.

I firmly believe that documentation of good practices and works done in organisations is essential. The exemplary activities and events organized by KVKs of Kerala, Karnataka and Lakshadweep are well documented in 'KVK Times', published fortnightly under the aegis of ATARI, Zone XI, Bengaluru.

I congratulate KVKs for the multitude of success stories in agriculture and allied sectors brought to light through this publication. I appreciate the efforts of ATARI Bengaluru and Directorate of Extension, Kerala Agricultural University, in compiling the events of KVKs under Zone XI and bringing out the thirty-ninth edition of 'KVK Times' for the period 1-15 February 2023, in a commendable manner.

My best wishes to the KVK fraternity for their future endeavours.

(S/d)

**Dr. Arya K.**

Vice-Chancellor

Kerala Agricultural University

MESSAGE

## MESSAGE



India's economic security continues to be predicated upon the agriculture sector, and the situation will not change in the foreseeable future. However, the demand for agriculture and productivity is ever-increasing due to the increased population. This calls for identifying the severity of the problem confronting the agriculture sector and providing suitable technology backstopping in improving productivity and profitability in agriculture.

KVKs are vital players in enhancing productivity and profitability in agriculture by reducing the time lag between generation of technology at the research institution and its application to the location specific farmer fields. Each KVK in Zone XI is unique in its innovative approaches adopted to disseminate the technology, farming system models developed, and impact brought in their district. The successful documentation and bringing out the publication KVK TIMES for Zone XI KVKs provide unique cross learning to each KVK and to other stakeholders. The methodologies adopted by KVKs for sharing technologies are prudent and highly resounding to the end users. The trials and demonstrations carried out in the farmers' field with participation of farmer-beneficiaries, specifically at the critical stages of the crop, aids in better visibility of the result. Beyond the conventional activities, KVKs are going the extra mile in tapping the entrepreneurial potential of agriculture sector by providing 360-degree facilitation to farmer entrepreneurs through networking and linkage support with entrepreneurship promoters and agencies.

I congratulate the KVK fraternity of KVK Thrissur for the successful documentation and continued efforts in bringing out the KVK TIMES publication in time.

**Dr. V. Venkatasubramanian**

Director,  
ATARI Zone - XI

MESSAGE

## MESSAGE



Krishi Vigyan Kendras in India are putting in an incredible effort to upsurge farmers' income, attracting youth into agriculture and creating self-employment opportunities through the development of agriculture and allied enterprises. KVKs strive to empower the farming community through capacity building and awareness creation of technological solutions, improved management alternatives and entrepreneurial avenues besides hand-holding to create a lead for the farmers with their cross-sectoral counterparts. Location-specific methodologies are helping the farmers in making informed decisions in production and post-production operations, considering the comparative advantage on a case basis and farm-based planning.

The Krishi Vigyan Kendra at Vellanikkara, Thrissur, of the Kerala Agricultural University, is the linkage organization between the University and stakeholders and fulfills the objectives of transfer of technology coupled with evaluation and refinement of proven technologies to suit site-specific farming situations of Thrissur district. KVK, Thrissur, in collaboration with line departments, thrives for improving the socio economic conditions of the rural masses by creating self-employment opportunities for their livelihood security. The flagship programmes of KVK Thrissur like '*Pulchadikootam*' for school children, formation and support of FPOs, natural farming, support of individual farm based Integrated Farming System (IFS), on-the-job trainings, entrepreneurship development programmes, melas, etc. are commendable.

KVK, Thrissur team deserves appreciation for their commendable effort in compiling this edition of KVK Times.

A handwritten signature in blue ink, appearing to read 'J. K. John', written over a light blue circular background.

Director of Extension  
Kerala Agricultural University

## MESSAGE



It gives me immense pleasure in felicitating Krishi Vigyan Kendra Thrissur located at the headquarters of Kerala Agricultural University on the occasion of compiling the KVK TIMES for the period 1-15 February 2023. The KVK has well-equipped laboratories, live demonstration and production units and instructional farm to attract not only the practicing farmers, but also the future farmers like school-students. KVK Thrissur has evolved and flourished as the knowledge and resource centre in the central part of Kerala with innovative as well as time-tested approaches for reaching and serving all the stakeholders. The vegetable seed production, processing, packing and marketing activities for the homestead farming system of the state in association with the SHGs has been recognised and appreciated nation-wide. Its farmer-friendly and women-friendly approaches have been the basis for building strong relationship with farmers organizations, development departments, commodity boards, financial institutions and media. The need-based bio-agents production and supply unit managed with the technical support from the scientific organizations and programmatic support from State Planning Board has been appreciated by the policy makers and consumers. With the help of the ever-ready and outreach-minded team of KVK scientists, the neo-farmers and budding agri-entrepreneurs in high value crop production, small-livestock rearing, processing and value addition have become inspirational models for the young generation. Being strategically located, the KVK has been playing stellar role in the now-famous VAIGA programme of the State.

I take this opportunity to extend my whole-hearted appreciation and best wishes to KVK Thrissur in the days and years to come. The KVK has the potential to reach greater heights under the able leadership of Directorate of Extension of Kerala Agricultural University and the mentorship of ICAR Agricultural Technology Application Research Institute, Bengaluru.



**Dr. M. J. Chandre Gowda**

Principal Scientist (AE) & Nodal Officer  
ICAR- ATARI, Zone XI, Bengaluru

MESSAGE

# ACKNOWLEDGEMENT



Krishi Vigyan Kendra Thrissur, established in 2004, had by far adopted innovative approaches to reach the unreached, to identify constraints and opportunities, test technologies, seek responses and had helped friends in adaptation and adoption of technologies in agriculture and allied sectors. On the threshold of our '**Emerald Jubilee**' it is our pleasure to compile the activities of technology spread, women empowerment, input production, entrepreneurial development, resource conservation etc. of the Zone XI KVKs. Each edition of KVK Times is a learning experience and an inspiration for untiringly going forward.

Krishi Vigyan Kendra Thrissur gains strength for its outreach endeavors from the support extended by Prof. Dr. Arya K., Hon'ble Vice Chancellor of Kerala Agricultural University. The University had been the pillar of strength for the past twenty years and the heritage gives us a unique identity.

The Indian Council of Agricultural Research, represented by the Director and staff of Agricultural Technology Application Research Institute, Bengaluru is the light house, leading the way forward, for every KVK. Dr. V. Venkatasubramanian had been benevolent in creation of valuable resources and is the front runner in effective and efficient implementation of all mandates. Gratitude is the verbal form of thanking and this edition of KVK Times is our expression of gratitude to Dr. Venkatasubramanian for his never ending support and encouragement.

Dr. Jacob John, Director of Extension, Kerala Agricultural University is a person of ready response. All our toils, smiles and tears are closely watched over and an extended helping hand is always there to hold. I lay on record my profound gratitude for the guidance and suggestions offered in publishing this edition of KVK Times and also for the prompt directions.

Dr. M.J. Chandre Gowda, Nodal Officer is our mentor at ATARI and his meticulous guidance is always the means for improvement. Thanks to him and all members of ATARI family, for making our journey smooth.

The enthusiastic staff of the Directorate of Extension, Kerala Agricultural University is the reason of our survival, the encouragement of our farmer friends is our daily tonic and KVK Thrissur is not simply a group of Subject Matter Specialists, Programme Assistants and Supporting Staff, but a family of likeminded spirits. It is this oneness in spirit and deed that moves KVK Thrissur forward. Thanks to all.

Jai Jawan!! Jai Kisan!! Jai Hind!!

A handwritten signature in blue ink that reads "Mary Regina F." with a horizontal line underneath.

**Dr. Mary Regina F.**  
Programme Coordinator  
ICAR KVK Thrissur

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# AGRICULTURAL SCENERIO OF THRISSUR DISTRICT



*Kole lands of  
Thrissur*



**KERALA AGRICULTURAL UNIVERSITY**

## DAESI programme initiated

Third batch of the 'Diploma in Agricultural Extension Services for Input dealers' (DAESI) programme in Alappuzha district for 40 participants has been initiated in the KVK in collaboration with ATMA. The one-year diploma course designed by National Institute of Agricultural Extension Management (MANAGE) envisages to impart relevant and location-specific agricultural education to equip the input dealers with sufficient knowledge



to transform them into para-extension professionals so as to enable them to address the day-to-day problems being faced by the farmers at field level. The program is spread over a period of 48 weeks, with 40 classroom sessions and 8 Field visits to various institutions and farmers' fields during 2023-24. Registered participants for the batch were oriented on the purpose and conduct of the programme on 8<sup>th</sup> Feb, 23 by Dr. P. Muralidharan, Head, KVK and Course director; Dr. T. Sivakumar and Dr. K. Sajjanath, SMSs and course coordinators.



## Foliar nutrition in paddy using drone demonstrated

Foliar nutrition of the multi-nutrient mixture 'KAU Sampoorna' for paddy crop using drone was carried out in 10 ha area on 10.02.23 in Edathua Panchayath as part of the NICRA project. This was done as a component of the package of technologies demonstrated under 'Climate resilient practices for paddy in Kuttanad region' along with short duration paddy variety Manuratna, drum seeder for sowing,



site specific nutrient and acidity management and eco-friendly plant protection measures. The aerial spraying of the multi-nutrient mix using drone saves labour cost, time and result in better nutrient efficiency, as per previous experience. Farmers' group of Muttar



Panchayath, where it was demonstrated last year, adopted this technology at their own cost during this year which shows that the drone technology is getting popular among farmers of Kuttanad region in Alappuzh where group farming of paddy is followed. Dr. K. Sajjanath (SMS, Soil Science) and Mr. M.S. Rajeev (SMS, Agronomy) coordinated the programme.

### Rabi Field Day and Workshop on Power Efficient Pumpsets

University of Agricultural Sciences, Dharwad, Krishi Vigyan Kendra, Bagalkote and Karnataka Renewable Energy Development Ltd., Bangalore organized a Rabi Field day and Awareness programme on BEE Star Energy Efficient pumpsets and water conservation at KVK Bagalkote. Shri P. H. Pujar, Hon'ble Member, Legislative Council, Bagalkote inaugurated the program by lighting the lamps. Later addressing the farmers, he told about the benefits of science and technology to the farmers in the civilized society. He mentioned that electricity should be used sparingly. He called upon the farming community not to spoil the natural energy resources and preserve them for the next generation. The Chief guest of the program Dr. S. I. Athani, Director of Extension, University of Horticulture Sciences, Bagalkote, said that conservation of energy resources like water and soil and their management is our responsibility. Dr. Sripad Kulkarni, Nodal Officer (KVKs) UAS, Dharwad, who spoke about the importance of five elements like water, soil, fire, wind and light on agriculture. He said that natural and organic farming is essential to avoid the adverse effects on human health caused by pesticide use in crops. The folders produced by Krishi Vigyan Kendra Bagalkote were released. On this occasion Chief guest Dr. Ashok Sajjan, Associate Director of Research, RARS, Vijayapur spoke about the need for climate-based agriculture to suit the changing climate and said

that agricultural research conducted in agricultural universities will help the farmers. Dr. R. B. Belli, Associate Director of Extension, AEEC, Vijayapur, spoke and gave a message that energy resources should be used wisely and not wasted. Smt Savita Meti, Technical Officer, KREDL, Dharwad Zone, said that 70% of the money spent in the country is on fuels and to reduce this it is necessary to use natural energy resources. She gave detailed information about renewable and non-renewable fuels. Farmers were made aware that they should use 4 or 5 star rating pumpsets. while purchasing pumpsets, he urged the gathering to save the environment by using natural energy sources. Later, progressive farmer Shivappa Hadimani spoke about the importance of solar pumpsets in agriculture. Engineer Basanagowda Ronad explained about avoiding leakage of energy resources and using solar pumpsets. Dr. M. S Shirahatti, Chief Scientist, Dryland, Scheme Regional Agricultural Research Centre, Vijayapura spoke about the technologies in water conservation and mentioned the causes and consequences of swampy soil formation, who presided over the program lastly. Dr. A. S. Vastrad, Director of Extension, UAS, Dharwad who presided over the programme, spoke about adequate utilization of energy resources and their balanced use for future generations. The programme was anchored by Dr. Siddappa Angadi, Senior Technical Officer, KVK Bagalkote. A total of 200 farmers, students of Basaveshwar Engineering College and DAESI trainees, Sarvodaya NGO, MCX officials participated in the programme.



## On Campus Training Programme on Vacuum Packaging Technology under Department of Seed Science & Technology, UAS, Dharwad and Women Empowerment

Under G20, On Campus Training Programme on Vacuum Packaging Technology programme was organised by ICAR-Krishi Vigyan Kendra Bagalkote. Progressive farm women Smt. Pushpa Angadi and Smt. Noorjahan Rolli were invited to grace the occasion. The programme was inaugurated by lightening the lamps by the guests. Smt. Pushpa Angadi motivated the farm women to be determined to achieve their goal in field of agriculture and small scale industries like rava making, papad making, pickle making i.e. value added food products to market their products by their own branding.

Smt. Noorjahan Rolli inspired farm women by her practical involvement in field of agriculture. Women can involve and engage in all farm activities in the field from land preparation till harvesting. She explained the role of women in agriculture from seed storage to good agricultural practices to be followed in field.

Dr. Dinesh Kumar S P spoke about the literacy among women and encouraged women about giving importance to women education and their rights. He also explained about the schemes made available by the Government to Women.

The training programme had technical session on Vacuum Packaging and importance of millets. The technical session on Vacuum Packaging was conducted by Dr. Sudha S, Scientist (Plant Pathology) and Technical session on importance of millets and value addition was conducted by Dr. Airadevi P Angadi, Scientist (Horticulture). Mr. Basavaraj Nagleekar, SMS (Agromet) explained about the activities carried out under DAMU project. Dr. Venkanna Balaganur, Scientist (Animal Science) was present for the training programme. The programme was anchored by Dr. Siddappa C Angadi, Sr. Technical Officer (Soil Science).

In afternoon session, visit to seed unit, UHS, Bagalkote was organised. All the participants visited the seed unit, UHS, Bagalkote. Dr. Babugouda Patil explained about the importance of seed storage by vacuum packaging technology. He demonstrated onion seeds packaging by vacuum packaging machine.

A total of 32 farm women from different taluks of Bagalkote district participated in this programme.



## ICAR KVK Ballari

About 40 students of M.Sc. (Zoology) from Vijayanagara Sri Krishnadevaraya University, Ballari visited ICAR-KVK, Ballari on 10<sup>th</sup> February 2023. Since, Vermiculture and Vermicompost is one of the subject paper for the students, the visit was made for better understanding of the subject. During the visit, students were briefed about the different activities undertaken by KVK in the district. They were sensitized on the importance of vermicompost in organic farming for sustainable agriculture.

Detailed explanation on benefits of vermicompost, its nutrient profile, requirements for vermicompost production, species diversity of earthworms, methods of vermicompost production,

scientific way of filling the pits, precautions to be taken during vermicompost production, vermiculture methodology, vermiwash production technique, its importance and method of utilization was imparted to the students.

Students were also sensitized on the cost economics involved in production of vermicompost, vermiwash and vermiculture. By this, they were motivated to take up vermiculture as an occupation and become agriculture entrepreneurs. Later, students were taken to the demonstration units of vermicompost production and vermiculture to have hands on experience and practical know how of the production techniques.



KVK  
TIMES

### **Training on Natural/ Zero budget Dicoccum wheat farming technologies under late sown condition.**

ICAR BIRDS Krishi Vigyan Kendra, Tukkanatti, Belagavi-1 organized training programme on Natural/ Zero budget Dicoccum wheat farming technologies under late sown condition. Dated on 14/2/2023 at Harugeri village of Raibag taluk Belagavi District. in collaboration with Directorate of wheat Ministry of agriculture and farmers welfare, Department of Agriculture Belagavi, UAS, Dharwad and ICAR BIRDS KVK Tukkanatti, Belagavi-1.

Training programme was inaugurated by Dr. Vikrant Singh Joint Director, DWD, Gurugram, Haryana. He addressed in his speech production technologies in Kapali wheat, Good climate requirement of Kaplali wheat is there in Harugeri Village. He also told information about International Minor millets, Minor Millets Dimand is increased in India from other Countries due to Russia and Ukraine war and also Indian government made more projects on Minor millets so that farmers will take this benefit. Shri. R M Patil Chairmen of ICAR BIRDS KVK Tukkanatti, he shared his valuable suggestions. They told that Kapali wheat is very good for health and making Value addition and importance of minor millet. Chairman of this programme, Dr. L.I. Roodagi DDA KSDA Chikkodi Bekagavi, he explained about facilities of line departments and PMFB project giving about 50% subsidy.

Chief Guest Dr. Kumar D Lamani Principal Scientist and Head AICRP on Wheat and Barley, UAS, Dharwad. He gave lecturer on improved Agronomical practices in Dicoccum wheat and wheat crops. Development activities are conducting for sudden changes in climatic conditions and its causes in wheat and Kapali wheat crops during different growth stages. Kapali wheat and wheat crops required cool condition and need sow in correct time for better growth and quality of the produce. Kapali wheat and wheat crops are very



suitable for growing in North Karnataka specially in Belagavi and Bagalkot areas. Dr. Vijay G Reddy Junior breeder on wheat and Kapali wheat UAS, Dharwad he shared his experiences about wheat and Kapali wheat varieties and technologies. He told Kapali wheat is very good for preparation of different bio products and its nutritional values like, fiber, Zinc and Iron content so that it helps in digestion and also help for diabetes patients. Kapali wheat varieties DDK-1025 and DDK-1029 are medium height and good yield.

Smt. Saroja S. Patil ADA, KSDA Balagavi, she told about post harvest technologies of Kapali wheat and wheat and its good dietary nutrition and fiber then she told that from kapali wheat we can make good value addition products like Shyavagi, uppittu and Gulladaki undi and earlier poor people's eat minor millets then rich people eat biscuit and bread but now day rich peoples also eating minor millets because of good healthy and nutritious food. Dr. L.I. Roodagi DDA Chikkodi Bekagavi he explained about facilities of line departments and PMFB project giving about 50% subsidy. Mr. Vinod IFFCO Com. Ltd Belagavi he addressed about uses of Nano Urea and Sagarika

Shri. Ishwar Mole Progressive farmer, he told that earlier our areas farmers growing more Kapali wheat and it has been transported to Coimbatore, but now days Farmers are not growing kapali wheat more. He also told Kapali wheat has Good Value addition products so that help us more additional income and good health. Shrimant Sadalagi made well come speech and introductory speech by M N Malawadi Scientist Agronomy ICAR KVK Tukkanatti Belagavi-1.

## Participatory Rural Appraisal (PRA) at different villages

Participatory Rural Appraisal (PRA) was conducted at Mutnal village of Belagavi Taluk, Ganikopp village of Bailhongal Taluk, Deminakoppa Village of Khanapur Taluk and Chikopp K.S. village of Ramdurg Taluk and Shivapur of Savadatti Taluk to know the cropping systems and major problems in crops, livestock and agriculture entrepreneurs to analyse the situation and to provide recent technologies to address to the problems through



technology assessment and technology demonstration. Farmers from all the villages actively participated in PRA and shared the village information with Scientists and Action Plan was drawn from each village based on the information they shared.

## Scientific Advisory Committee Meeting

ICAR-KLE Krishi Vigyan Kendra, Mattikopp organized Eighth Scientific Advisory Committee Meeting on 14.02.2023. The meeting was begun by welcoming of the dignitaries, line department officials and farmer and farm women gathering by Senior Scientist and Head. The Scientific Advisory Committee Meeting was chaired by Shri M.S. Baligar, Life Member, KLE Society, Belagavi and briefed the activities undertaken and achievements made by the KVK during the year 2022-23.

The programme was inaugurated by Dr. S. I. Athani, Director of Extension, University of Horticultural Sciences, Bagalkot. The meeting began with opening remarks from Dr. Mallikarjun B. Hanji, Chief Technical Officer, ICAR-ATARI, Bengaluru. During his opening remarks called upon the farmers to actively participate in the meeting for working out the ground level problems to be addressed by the Scientists of the KVK. The Action Plan will be presented and there is scope for refinement of the Action Plan based on the problem faced in the district. Mrs. Sridevi B. Angadi, Senior Scientist and Head presented the Action Taken Report 2021-22, Progress Report 2022-23 and Action Plan for 2023-24. KVK Scientist had good interaction with farmers and line department officials. Best Action Plan was drawn based on their problems to be addressed for the upcoming year. Dr. S. I. Athani, Director of Extension, University of Horticultural Sciences, Bagalkot appreciated the activities taken up by the KVK for benefit of the farming community. Further, value added products exhibition was exhibited by the entrepreneurs supported by the KVK. The dignitaries inaugurate Natural Farming Awareness Campaign and also released Natural Farming Booklet, Leaflet and Poster. On the occasion drone and cage system of poultry unit was also inaugurated. Shri M. S. Baligar, Chairman of the meeting assured that all the problems will be addressed through mandated activities of the KVK for increasing the productivity. Meeting ended with vote of thanks by S. M. Warad, Scientist (Soil Science).



# Inauguration Awareness Campaign on Natural Farming

The inauguration of Awareness Programme on Natural Farming was held at ICAR-KLE Krishi Vigyan Kendra, Mattikopp. Dr. S. I. Athani, Director of Extension, University of Horticultural Sciences, Bagalkot and Dr. Mallikarjun B. Hanji, Chief Technical Officer and Nodal Officer of KVK, ICAR-ATARI, Bengaluru flagged off the two vehicles designed for Awareness Campaign on Natural Farming at KVK campus on 14.02.2023. Shri M.



S. Baligar, Life Member, KLE Society, Belagavi, Mrs. Sridevi B. Angadi, Senior Scientist and Head and Scientists of KVK and UHS, Bagalkot and officials from Department of Agriculture, Horticulture, Animal Husbandry, Forest, Sericulture, Women and Child Development, Lead Bank representative and farmers were present during the flag off event.

These two vehicles are moving in various villages of Bailhongal, Ramdurg, Savadatti, Belagavi, Khanapur, Gokak and Hukkeri taluks of Belagavi district with an audio information on Natural Farming. The poster which throws a light on Natural Farming practice are being pasted on walls at common places and pamphlets on concept, features, usefulness and cow based



inputs under natural farming are being issued to each farmer who participated in the campaign in the villages. Mrs. Sridevi B. Angadi, Senior Scientist and Head, ICAR-KLE Krishi Vigyan Kendra, Mattikopp and Shri S. M. Warad, Nodal Scientist (Natural Farming) and KVK Scientists are involved in planning and execution of the campaign in the district.

## Farm women training programme

A group of 26 farm women from Kittur taluk, Belagavi district visited KVK on 15<sup>th</sup> February 2023. Mrs. Sridevi B. Angadi, Senior Scientist and Head explained about objectives, principles and importance of nutrition garden, layout of different models of nutrition garden based on the space availability. Further, importance of consuming millets and its nutrition was briefed.



stressed upon cultivation of millets in their farm for routine household consumption and also highlighted about the high yielding varieties of millets and its agronomic practices. During the field visit he also explained about different models vermicompost units at KVK instructional farm, importance of vermicompost and its production technologies and marketing.



## Value addition in Millets

A Capacity building programme on value addition in millets was organized to Anganwadi workers on 18.01.2023 at ICAR KVK Chamarajanagara. Miss. Supriya N. S., Scientist (Agril. Extension) briefed about the programme and provided information about the facilities available in KVK. Dr. Deepa J.,

Scientist (Home Science) highlighted the significance of International Year of Millets, the importance of millets in daily diet, different processing methods to reduce the anti-nutrients present in the millets, value added products from millets and also demonstrated the Ragi laddu, ragi malt powder and Foxtail millet nippattu.



ICAR-KVK, Chikkaballapura organized Kisanmela on 07.02.2023 at Somakalahalli Village of Chintamani Taluk under NICRA project. Animal health camp was also organized. Dr. Papireddy, Senior Scientist and Head emphasized on role of integrated farming system for enhancing income of farmers. Mr. Vishwanath, Scientist (Agronomy) explained about newly released sunflower varieties KBSH-78, KBSH-85 and KBSH-44 and also about importance of natural farming in improving soil fertility. Mr. Anand, Senior Research Fellow demonstrated the procedure of preparation of Jeevamrutha and waste decomposer. Officials from Veterinary department, Chintamani taluk participated in the event and explained about management practices for lumpy disease. 102 animals were vaccinated and 53 farmers participated in the programme.



G.R, Technical Officer and Dr. Pallavi, Assistant Professor, Dept. of Sericulture provided hands on training and demonstrated cocoon cutting, dyeing and preparation of different cocoon crafts. Dr. Tanweer Ahmed, Scientist (Agril. Extension) explained about promotion and marketing of cocoon crafts.



On campus training on different methods of fertilizer application in vegetable crops was organized at KVK, Chikkaballapura on 10-11, February, 2023. Dr. Papireddy, Senior Scientist and Head explained about importance of integrated nutrient management. Dr. Sandhya, K., Scientist (soil Science) explained about existing and novel techniques of fertilizer application and nutrient management in important vegetable crops and 48 farmers participated in the programme.



Entrepreneurship development programme was organized at ICAR, KVK, Chintamani from 09-15, February, 2023. Participants were trained about making cocoon bouquets, different types of garlands. Dr. Papireddy, Senior Scientist and Head emphasized on role of cocoon craft in increasing income of farm women. Mrs. Aruna

Swachhta programme was organized by ICAR-KVK, Chikkaballapura at Kootarajanahalli village of Chintamani taluk. Dr. Papireddy, Senior Scientist and Head, KVK, Chintamani explained about Swachhta programme. Mr. Vishwanath Scientist (Agronomy) explained about natural farming, Dr. Sandhya explained about vermicom-posting and Dr. Praveenakumar, Scientist (Horticulture) explained and demonstrated preparation of waste decomposer. Vermibags were distributed to the farmers.

## Block Level Seminar on Coconut Production Technologies

ICAR-Krishi Vigyan Kendra, Chikkamagaluru in collaboration with Coconut Development Board, Bangalore has organized the Block level seminar on Coconut production technologies on 13.02.2023 at Kanabagattevillage of Ajjampur taluk.

Dr. Krishnamurthy, A.T, Senior Scientist and Head, Krishi Vigyan Kendra, Chikkamagaluru, in his introductory remarks advises the farmers to adopt advanced technologies and high yielding varieties to enhance the productivity and also briefed about the extension activities conducting by the ICAR-KVK, Chikkamagaluru for the benefit of farming community.



During technical session Dr. Girish, R., Scientist (Plant Protection), KVK, Chikkamagaluru, provided the information on incidence of major pest and diseases in coconut and their integrated management system.

Dr. Ullasa, M. Y, Scientist (Agronomy), KVK, Chikkamagaluru gave the lecture on selection of quality seed material, method of planting, newly released resistant and highly yielding varieties, water management, fertilizer application, garden maintenance, and coconut based inter cropping systems.

Dr. Suresh Kumara, D, Scientist (Horticulture), Krishi Vigyan Kendra, Chikkamagaluru, delivered the lecture on improved coconut varieties released and their characters and selection procedure for cultivation in Karnataka. Further briefed about production of quality seedlings, scientific cultivation practices in coconut, soil conservation practices and post-harvest technologies, value added products, marketing and enterprises development in coconut.

During this programme total 67 farmers participated and got benefit out of it.



## Swachatha Abhiyan programme

A programme on Swachatha Abhiyan, waste to wealth using waste in organic produce was organized by KVK, Chitradurga at KVK premises on 07-02-2023.

The participants were taken to the Vermicomposting demonstration unit of KVK and Dr. Kumara O., Sr. Scientist and Head, KVK discussed about the importance of organic farming and method of vermicomposting, layer wise arrangement of waste materials in the vermicomposting pit, maintenance of optimum moisture in the pit, different species of worms that can be utilized for vermicomposting, cost of worms as well as the Vermicompost, how waste is converted in to organic input by cleaning environment etc. were briefed to the participants.

Later the participants were taken to the Hydroponics unit at ZAHRS, Babbur farm. Dr. Kumar O., Sr. Scientist and Head, KVK briefed about the importance and method of fodder cultivation using Hydroponic technology. Nutritious value of the fodder was also discussed.

25 farm women from Nagagondanahally village of Challakere taluk have participated in the programme and Dr. Saraswathi, Dr. Preethi and Mrs. Geetha Kumari were present during the programme.



## Interstate Educational Tour

An Interstate educational tour for the FPO farmers of Kanguvalli, Hosadurga taluk, Chitradurga dist. was organized 13-02-2023 to 17-02-2023 by Krishi Vigyan Kendra, babbur farm, Hiriur.

The tour programme was co-ordinated by the Dr. Saraswathi. J. (Home Science) and Dr. Preethi (Agril. Extension) of KVK, Chitradurga.



On first day, team visited the ZARS, GKVK, Bangalore. Dr. Mallikarjuna Gowda and Dr. Munikrishna briefed about the activities of ZARS, dairy unit, biogas unit. Team also visited IIHR, Bangalore. Dr. T.M. Reddy and Dr. Balakrishna briefed about important pest and diseases of various horticulture crops and their control measures. Demonstration plots of IIHR were visited by the team.

On the second day, FPO farmers visited ZARS and KVK Mandya. Dr. Raghu and Dr. Chandrakala explained about various activities of ZARS and KVK. Information on various value added products of maize and millets was briefed. Next the team visited to the organic farming research station, Naganahally, Mysore. Mr. Rahul explained about importance of organic farming and agricultural practices to be followed in organic farming. Dr. Sumanth explained about meteorological observatory and instruments existing in the observatory.

13<sup>th</sup> Scientific Advisory Committee Meeting: 13<sup>th</sup> Scientific Advisory Committee Meeting of ICAR-KrishiVigyan Kendra, Dakshina Kannada was held on 10-02-2023 at KVK, Mangaluru Dakshina Kannada, Hon'ble Vice Chancellor Dr. K. C. Veeranna, KVAFSU, Bidar, Chaired the session, Dr. N.A. Patil, Director of Extension, KVAFSU, Bidar, Dr. D. V. Kolekar, Nodal Officer of KVK(DK), ICAR-

ATARI, Bengaluru, Dr. Shivakumar M, Dean, College of Fisheries, Mangaluru, SAC Members, KVK Scientists and the officers from the developmental departments were present.

Dr. T.J. Ramesha, Senior Scientist & Head welcomed the gathering and presented the proceedings and action taken report of 13<sup>th</sup> SAC meeting. Prof. K. C. Veeranna, VC, KVAFSU, Bidar highlighted about the farmers oriented schemes and activities. Dr. D. V. Kolekar, Nodal officer suggested to organize the programmes in convergence with the developmental departments. DE, KVAFSU, Bidar suggested to focus upon veterinary, fisheries and post-harvest technologies. On this occasion, 6 KVK newsletters and 1 book on preparation of value added products from fish was released by the dignitaries.



## Off Campus – Drone technology in Sunflower for spraying pesticides

The off campus training program was conducted at Kodihalli village by Department of Agriculture, Davanagere. Due to heavy rains in the month of August and September, maize crop has failed. The farmers had taken up alternative crops



sunflower in an area of 100 acres. Mr. Mallikarjuna B.O., SMS (Agronomy) delivered lecture on the integrated nutrient and pest management in sunflower and also conducted the method demonstration on the usage of the drone for spraying of pesticides and the dosage to be applied for spraying against the pest and diseases while using the drone. Mr. Thippeswamy, DDA and Mr. Sridharmurthy, ADA Department of Agriculture attended the training program.

## Celebration of Field day under NFSM-CFLD Bengal gram

Field Day was celebrated at Kattegehalli, Jagalur taluk under NFSM–CFLD Bengal gram. The program was inaugurated by progressive FLD farmer Mr. Sommanagowda and in his feedback he expressed that the technology provided by the



KVK Scientists had improved the yield of the crop. The installation of the pheromone traps at initial stages of the crop growth had reduced the two sprays and in turn reduction in the cost of production. Spraying of Chick pea Magic had really helped in increasing the size of the pod and weight, and finally the crop yield. Mr. Mallikarjuna B.O., SMS (Agronomy) expressed that farmers should give importance to the seed production of the variety (JAKI 9218) and in turn make higher net returns. FLD farmers participated in the program and visited the plots and interacted with farmers. Mr. Raghuraj and Dr. Avinash T.G., SMS presented in the field day.

## Off Campus training program under NMOOP-CFLD – Groundnut

Follow up field visit was conducted to the Integrated Crop Management in Groundnut (G2-52) under NMOOP- Cluster Frontline Demonstration at Siddamanahalli, Jagalur Taluk. Crop is of 60 days



old. Mr. Mallikarjuna B.O., SMS (Agronomy) suggested the farmers to irrigate crop through sprinkler and interacted with farmers on the weed management

Dr. Avinash T.G., SMS (Plant Protection) provided suggestion on the management of the leaf hopper through spraying of chloro+cypermethrin @ 2ml/l and suggested to spray the water soluble fertilisers (13:00:45) @ 5g/l of water.

## Field Day on Chickpea

Cluster Front Line Demonstration on ICM in Chickpea was implemented in Shiraguppi and Annigeri villages. During the implementation BGD-111-1 variety seeds, seed treatment materials, pulse magic, nipping technology, storage bags were introduced to the farmers. Field day was organized at Shiraguppi in the farm of Shri. Giriappa Kuri on 08.02.2023. Dr. Shripad Kulkarni, Nodal Officer (KVKs), UAS, Dharwad and Dr. S. A. Biradar, Senior Scientist and Head, KVK, Dharwad participated in the field day and briefed about the varietal characteristics, agronomic practices and disease management in chickpea. Dr. Geeta Tamgale, Scientist (Home science)



and Integrated Farming System at Hosatti village of Dharwad taluka. About 17 farm women from Jodalli village participated in the training.

## Training on Vacuum Packaging Technology

ICAR-KVK, Dharwad organized on campus training programme on “Vacuum packaging technology” on 15.02.2023. The programme was sponsored by Government of Karnataka through a project on up-scaling and demonstration of vacuum packaging technology for storage of seeds and agricultural produce. The training was organized to create awareness about importance of vacuum packaging for food grains, seeds and food products. Dr. A. S. Vastrad, Director of Extension, UAS, Dharwad and Dr. V. S. Patil, Associate Director of Extension, UAS, Dharwad graced the occasion and briefed about recent technologies introduced by UAS, Dharwad. Dr. D. S. Uppar and Dr. K. P. Gundannavar were the resource persons and explained about the importance of technology and its utility in present day agriculture. Method demonstration on vacuum packaging was conducted at Seed Unit, UAS, Dharwad and trainees practiced the method through learning by doing experience. Dr. Geeta S. Tamgale, Scientist (Home Science), KVK, Dharwad coordinated the training programme. Nearly 35 participants participated in the programme.



explained the technological interventions introduced by KVK. Dr. Jayashree Pattar, (Animal science) briefed about fodder management in summer season. Farmers visited the demonstration block and interacted with the scientists. Shri Giriappa Kuri shared his experience with fellow farmers.

## Training on Nursery management

ICAR-KVK, Dharwad organized 3 days on campus training programme on “Nursery management” under the theme Ensuring food and nutritional security (EFNS) from 2-4 February 2023. Dr. Akkamahadevi D. Agasimani, Scientist (Horticulture), ICAR-KVK, Dharwad enlightened the farm women regarding growing seedlings in nursery, use of pro-trays, propagation techniques in horticulture crops, media required for growing of plants, irrigation, application of fertilizers and plant protection. Method demonstration were conducted on germinating the valued seeds in pro-trays, grafting and planting of layered plants. A exposure visit were arranged to terrace gardening of Shri Raghavendra Konnur at Hubballi

## Ernakulam KVK's Mini rice mill commenced operation: Locally produced rice branded

The Mini rice mill installed by KVK Ernakulam at the Periyar valley Spices Farmer Producer company Ltd., Kothamangalam commenced its operation on 4<sup>th</sup> February 2023. Shri. Antony John, MLA, Kothamangalam inaugurated the mill. This mini rice mill of capacity 2 MT per day is installed with the objective of demonstrating farm level paddy processing and branded marketing of locally produced rice as a profitable rural enterprise. The mill is equipped with a parboiling unit, Greenhouse drier, rubber roll sheller, polisher and de-stoner.

A vacuum packaging machine is also available for use in situations when long term storage of rice is needed. The drudgery in paddy farming could considerably be reduced with mechanization of various farm operations, whereas the post harvest operations viz., parboiling, drying and milling still continue to be cumbersome. The mini rice mill expected to resolve this issue. The post COVID high demand of locally produced rice, coupled with quality rice production in mini rice mill is expected to enhance farmers income and assures quality produce to the consumers. The KVK is also the Producer Organization Promoting Institution (POPI) of the Periyarvalley Spices Farmer Producer company Ltd., Kothamangalam.





## Agricultural Technology Exhibition

ICAR-K.H. Patil Krishi Vigyan Kendra organised District Level Agriculture Technology Exhibition at Kailash Ashram, Hulkoti on 28-01-2023. The exhibition was inaugurated by Shri H.K.Patil, MLA, Gadag in the holy presence of Shri Jayendrapuri Maha Swamiji, Kailash Ashram, Bangalore. On this occasion, Shri D.R.Patil, Chairman, ASF, Hulkoti and Ex-MLA, President APMC Gadag, Shri Taramani L.H., JDA, Gadag., Smt.Shanta Balaganur, President, Gram Panchayat, Hulkoti and Smt. Kamalaxi Halli, Vice-President, Gram Panchayat, Hulkoti were also present. Dr. L.G. Hiregoudar, Head and Senior Scientist of Krishi Vigyan Kendra, briefed about agriculture exhibition and a visit was organised to various stalls. In the first stall, various technologies and information related to cultivation practices of agriculture & horticulture crops, soil and water conservation practices, rejuvenation of borewell and openwell, Integrated Farming System, three pot composting, micronutrients, vermicompost, earthworms were showcased. The information and inputs such as Jeevamruta, Beejamruta, Panchagavya, Neemastra, Brahmastra etc related to Natural Farming and live samples grown under natural farming system by contact farmers of KVK were exhibited in the second stall. The technologies related to Animal Husbandry like fodder crops suitable for dryland, enrichment of dry fodder, mineral lick, milking machine, hydroponics etc., were exhibited in third stall. In the fourth stall the technologies related to farm women like improved chulhas, drudgery reduction equipments, various home products prepared by women entrepreneurs, Nutri-Garden etc., were showcased.



On the eve of International Millet Year-2023, various Millets and it's nutritional composition, its importance of Millets in daily diet and the value added products of millets were exhibited on a large scale. The various millets that can be grown under drylands such as Foxtail Millet, Little Millet, Barnyard Millet, Kodo Millet, Bajra, Ragi, etc., were exhibited. The various value added products of millets suitable for daily consumption created an alarming awareness. The visitors expressed their willingness for growing and consumption of millets in their daily diet.

The various agricultural equipment like mini tractor, tractor operated straw mulcher, groundnut digger, chaff cutter, cotton mobile shredder, rotavator, tractor operated grain grader, solar nipping machine, onion detopper, spiral separator and various hand tools. The information related to Community Radio Station (*FM-89.6*) was disseminated among the visitors.

The Entrepreneurs promoted by KVK participated in exhibition and made sales of various value added products and millets. The various literatures like books, brochures, leaflets etc., related

to agriculture crops, natural farming and agro-enterprises were exhibited for distribution to farmers, farm women, rural youths and school children. On the whole, the agriculture exhibition made good impact on farming community.

## Demonstration of Drone Sprayer

Drone sprayer was demonstrated at Shingatrayerankeri village of Mundaragi Taluk on 12-01-2023 in various crops viz., Marigold, Blackgram, Gaillardia, Brinjal and Tuberose crops in association with Garuda Aerospace Pvt. Ltd. Dr. Vinayaka Niranjana, SMS (Ag. Engg.) explained about effectiveness of drone sprayer over conventional spraying equipment in spraying of chemicals and foliar application of nutrients. Mr. Venkat of Garuda Aerospace Pvt. Ltd has demonstrated the pesticide spraying operation using drone and discussed with the farmers regarding saving in labour, saving in chemical and time of operation by drone sprayer. Around 34 farmers witnessed the demonstration and expressed their positive opinions about the technology.



## Skill Training for Rural Youth

ICAR Krishi Vigyan Kendra, Kandali, Hassan organized 6 days Skill training programme on “operation and maintenance of Tractor and farm machineries” MANAGE, Hyderabad sponsored from 13-18<sup>th</sup> February 2023 at KVK Hassan and the inaugural function of this training was organized on 13<sup>th</sup> February 2023. Dr. Rajegowda, Senior Scientist and Head, KVK, Hassan has chaired and inaugurated the programme and in his inaugural address he mentioned that mechanization has a pivotal role in modern agriculture, so youths participating in the programme should learn the skills of repair and maintenance of tractor and farm machineries so that they can repair their machineries and thereby

reduce the expenses incurred on repair and also earn additional income by starting repair center in the rural area.

Dr. M. Shivashankar, Scientist (Home science) KVK, Hassan highlighted the significance of mechanization in addressing the problem of labour and timely operations in agriculture. Further, he added that farmers should use custom hiring centers for adopting mechanization in their farm so that they can minimize labour cost and can increase their income.

Dr. Srinivas Deshpande, Scientist (Agricultural Engineering), KVK, Hassan has organized the programme and during his introductory remarks he mentioned the status of farm mechanization in Karnataka and India. Further, he mentioned the problems of farmers in maintenance of farm machineries and also he said this skill training will provide solution to the above problems.

Dr. Pallavi, N., Scientist (Crop Physiology), KVK, Hassan, Dr. Sakamma, S. Farm Manager, KVK Hassan, Supriya, DAESI Facilitator, KVK, Hassan, trainees were participated in the programme and the programme was anchored by Dr. Sanketh, C. V., Scientist (Agricultural Extension), KVK, Hassan.



# ICAR KVK Haveri

Cashew is an evergreen important money spinner crop of waste land. Cashew cultivation is taken up in small and marginal holdings and as more than 70 per cent of the cashew area is under this category, cashew plays an important role in the development of small and marginal farmers. Karnataka has an area of 4.15 lakh ha of marginal land which rightly suits the cultivation of cashew that is being extensively cultivated in degraded soils. Thus, cashew is an excellent crop that may be promoted to grow profitably under waste land. Cashew needs a climate with a well-defined dry season of at least four months to produce the best yields. The general notion is that “cashew is very modest in its soil requirements and can adapt itself to varying soil conditions without impairing productivity”. While Cashew can be grown in poor soils, its performance would be much better on good soils. Government of India is bringing many schemes for the farmers to export raw materials to foreign countries. If we take care of cashew crop for three years, it will take care of us for 30 years,



just like gold is extracted from barren land. In this view ICAR – Krishi Vigyan Kendra, Haveri operating cashew project under the guidelines of Directorate of Cashewnut and Cocoa Development, Cochin, Kerala. Dr. Ashoka P., Principle Investigator (Cashew project) and other scientists of the KVK Haveri are working on this project effectively. KVK Haveri has been awarded as the best implementing agency for their sustainable efforts in cashew extension activities in the national conference on cashew 30 – 31 January, 2023 at Bhubaneswar, Odisha. Dr. Ashoka P. Senior Scientist and Head, KVK Haveri received the award on this occasion.

The programme was jointly organized by ICAR Krishi Vigyan Kendra (KVK), Idukki and ICAR-IIHR, Bengaluru for benefiting the tribal farmers of Mannakudy and Paliyakudi Hamlets in Kattappana block of Idukki district. The program was inaugurated by Smt. Shanthi Shajimon, President of Kumily Grama Panchayat. Dr. Patil Suyog Subhash Rao, IFS, Deputy Director, Periyar Tiger Reserve - East division, Thekkady presided over the session. During the program technological inputs like seeds of Tomato (A. Rakshak, A. Samarat, A. Abhed, A. Apesksha), Chilli (A. Kyati, A. Gagana, A. Haritha, A. Meghana, A. Sanvi, A. Shweta,) Brinjal (A. Anand, A. Harshita), Okra (A. Nikita, A. Anamika), Pumpkin (A. Suryamukhi), Yard long Bean (A. Mangala), Palak (A. Anupama), Veg. Amaranths (A. Arunima, A.



Dr. B. T. Rayudu, Nodal Officer, ICAR - ATARI, Bengaluru, Dr. Selvakumar G, Principal Scientist (Agricultural Microbiology), Dr. D. Kalaivanan, Senior Scientist (Soil Science) from ICAR IIHR-, Bengaluru, Shri. Suhaib P J, AFD, PTR, Thekkady, Shri Jacob Mathew, Sociologist, Periyar Tiger Conservation Foundation, Shri Gopi, Chairman Paliyakudy EDC, Shri. Shaji, Tribal Coordination Chairman, Shri Xavier T S, Range



Suguna), Dolichos (A. Jay, A. Sambram, A. Krishna, A. Visthar, A. Adarsh), French bean (A. Komal, A. Suvidha), Bottle guard (A. Bahar), Ridge guard (A. Prasan, A. Vikram), Coriander (A. Isha), Radish (A. Nishanth), Vegetable seed kit for nutrigarden, seedlings of Dragon fruit, Mango (Alphonsa, Mallika, Raspuri, Banganpalli), Annona (Arka Sahan), micronutrient mixtures like Vegetable special, Banana special, biopesticides like Neem soap, implements like Lemon harvesters, Mango harvesters and Biofertilizers were provided to 600 tribal farmers of Mannamudi and Paliyakudy Hamlets under Periyar Tiger Reserve - East division, Thekkady, Idukki district.



officer Eco-development, PTR, Thekkady, Dr. R. Marimuthu, Senior Scientist and Head, Shri. Sudhakar S, SMS (Plant Protection), Smt. Manju Jincy Varghese, SMS (Soil Science), Smt. Preethu K Paul, SMS (Agricultural Extension) from KVK, Idukki participated in the programme. Dr. R. Marimuthu, Head, ICAR – KVK, Idukki and Dr. D. Kalaivanan, Nodal Officer of Tribal Sub Plan (TSP) Scheme, ICAR-IIHR, Bengaluru coordinated the programme in collaboration with Periyar Tiger Reserve - East division, Thekkady, Kerala.

## Guest lecture on Natural Resource Management under dry land agriculture to DAESI Participants of KVK, Kalaburgi and DATC, Kotnoor, Kalaburgi on 5<sup>th</sup> February 2023

Dr. N. Manjunatha, Sr. Scientist & Head, ICAR-KVK, Kalaburgi-II (Raddewadgi) delivered guest lecture on Natural Resource Management under dry land agriculture to DAESI Participants of ICAR-KVK, Kalaburgi and DATC, Kotnoor, Kalaburgi on 5<sup>th</sup> February 2023. The lecture covered the following topics



- Importance of natural resource viz., land, Water & Sunlight in agriculture
- Management of land and water resources under rainfed condition
- Selection of crops and cropping system under dry land condition
- Soil and water conservation structures for dry land agriculture

There were 80 participants benefited from both the centers.

## Diagnostic field visit to tomato, watermelon and banana plots at Ullan-digere and Nalwar Tq. Chittapur by ICAR-KVK, Kalaburgi-II scientist on 08-02-2023



Dr. Chethan T., Scientist (Horticulture) visited problematic plots of tomato, watermelon and banana plots at Ullandigere and Nalwar Tq. Chittapur on 08-02-2023 along with Mr. Siddu Anabi, SADH, Dept. of Horticulture, Chittapur. During the visit early blight was observed in tomato, bud necrosis in watermelon and stunted growth in banana. For early blight of tomato suggested mancozeb @ 1g/lit, in watermelon, suggested thiamethoxam @ 0.5ml/lit. To enhance growth and yield in banana suggested spraying of banana special @ 5g/lit at the interval of 15 days up to three months.



As part of the project entitled, promotion of integrated farming through skill upgradation of master farmers, a workshop on the value addition possibilities of various agricultural products like fruits, vegetables, milk and fish was conducted by Smt. Elizabeth Joseph, Assistant Professor (Home Science), KVK Kannur at Padappayangad on 07/02/2023. Farm school to address the issue of yellowing in arecanut was conducted at Poomangalam on 10/02/2022 by Dr. Jayaraj P. (Programme Co-ordinator, KVK Kannur). Around 40 arecanut farmers from the Kurumathur panchayath participated in the workshop and discussed on the issues faced by arecanut farmers.



# ICAR KVK Kodagu

One-year Diploma in Agricultural Extension Services for Input Dealers (DAESI) programme was inaugurated at ICAR-KVK, Gonikoppal on 10<sup>th</sup> February, 2023 in collaboration with SAMETI, UAS Bengaluru, MANAGE, Hyderabad and Dept. of Agriculture, Kodagu District. Dr. Balachandra Biradar, Deputy Director, Dept. of Agriculture, Kodagu inaugurated the programme. Dr. B. Kalpana, State Nodal Officer, SAMETI (South), UAS, Bengaluru highlighted the overview and importance of DAESI

programme. Shri. Veerendra Kumar K. V. SMS (Plant Protection), ICAR-KVK, Gonikoppal welcomed the dignitaries and 40 participants. The entire programme was coordinated by Shri. Prabhakara, SMS (Horticulture). The programme was sponsored by Forty Agricultural Input dealers from different parts of Kodagu. The programme concluded with a vote of thanks by Akshatha.K, Facilitator (DAESI).





## Field Day on “Integrated nutrient management in mulberry for sustainable leaf and cocoon harvest”

KVK Kolar organized Field Day on “Integrated nutrient management in mulberry for sustainable leaf and cocoon harvest” at Muthanuru village, Bangarpet taluk on 1.2.2023. Sri M Kalappa, Deputy Director of Sericulture, Kolar & Sri S N Srinivas, Deputy Director, Govt Cocoon Market Kolar participated as chief guests. Sri K Thulasiram,



### Method demonstration on installation of pheromone traps, yellow and blue sticky traps

ICAR-KVK, Kolar Scientists K. Thulasiram, SS & H & Dr. Sadanand K. Mushrif, Scientist (PP) organized method demonstration on ecofriendly management of Tuta in tomato and demonstrated installation of pheromone traps, yellow and blue sticky traps and advised farmers on alternate methods of pest management at Dandiganahalli on 3.2.2023.



Senior Scientist & Head, KVK Kolar addressed the farmers on Management of major pests of mulberry. Dr. Anilkumar S Scientist (Soil Science) briefed on Soil test based nutrients management in mulberry cultivation. Dr. Shashidhar K R Scientist (Sericulture) explained management of mulberry gardens for lateage silkworm rearing. Around 60 sericulture farmers participated and benefitted from the programme.

## Method demonstration on installation of Tricho cards and pheromone traps

KVK, Kolar Scientists Dr. Sadanand K. Mushrif, Scientist (PP) and K. Thulasiram, SS&H conducted method demonstration on installation of Tricho cards and pheromone traps in sweet corn FLD farmers fields for the management of fall army worm at Thippasandra on 2.2.2023





## Awareness programme on Natural farming and Training program on Importance of Millets and organic farming

ICAR-KVK, Kolar organized an awareness programme on Natural farming and on Importance of Millets and Organic farming in collaboration with ATMA Malur at Agriculture Department Office Malur on 7.2.2022. Dr. Anil Kumar S, Scientist (SS&AC) delivered a lecture on 'Importance of Natural farming' and organic farming and Dr. Chikkanna, Scientist (Home Science) delivered a lecture on Importance of Millets on human diet and value addition in millets. Around 20 men and 80 women farmers were benefited by the programme.



## Fourth batch DAESI programme inaugurated at KVK Kolar

Fourth batch DAESI programme was inaugurated at KVK Kolar by Dr. K. Shivaramu, SAMETI (S) Head and DAESI Coordinator, UAS, Bengaluru on 8.2.2023. Dr. Kalpana, State Nodal Officer for DAESI, UASB, Dr. H.S. Shivaramu, Dean, COH, Kolar, Smt. Pankaja, DD and PD, ATMA, Kolar and Sri. M. D. Firdose participated as Chief guests. Around 34 DAESI trainees had participated in the programme.



## On campus training program on Natural farming, Organic farming and importance of Millets and its value addition

KVK Kolar Scientists organized an on campus training program on 'Natural farming, Organic farming and importance of Millets and its value addition' at KVK Kolar in collaboration with ATMA Kolar on 9.2.2023. K Tulsiram, Senior Scientist and Head inaugurated the program. Dr. Anil Kumar S, Scientist (SS&AC) delivered lecture on 'Natural



farming and organic farming concepts' and its importance. Dr. Chikkanna, Scientist (Home Science) delivered a lecture on the Importance of Millets in human health and also demonstrated the preparation of different millet recipes. 80 farm women were benefited by the programme.

## Eighteenth SAC meeting of KVK Kollam-logo released for “Net Zero Carbon”

KVK Kollam launched a logo for “Net Zero Carbon” - A new initiative for Hand holding the global efforts to mitigate climate change during the 18 thSACmeeting of KVK Kollam by Director of Extension Dr. Jacob john in the presence of ICAR-ATARI-Bengaluru Nodal officer Dr. D.V.S. Reddy on 25/01/2023. *Eighteenth Scientific Advisory Committee (SAC) meeting of KrishiVigyan Kendra Kollam* was organised on 25<sup>th</sup> January 2023. Dr. Bini Sam, Professor and Head, KVK Kollam welcomed the delegates. Opening remarks was delivered by Dr. Jacob John, Director of Extension, KAU and Special address by Dr. D.V.S.Reddy, Principal Scientists and Nodal Officer, ATARI Bengaluru. Action taken report on previous SAC, overall progress report and action plan for forthcoming season and salient technical achievements was presented by Dr.Bini Sam. This was followed by a lively discussion by the SAC members; the memberscongratulated KVK for its activities and also guided KVK by giving



constructive suggestions in their activities for the forthcoming season. The key for newly constructed staff quarters was handed over by Dr. Reddy, Nodal Officer, ATARI Bengaluru to Dr.Bini Sam. This was followed by leaflet release (12 nos) and booklet (1 no) and CD (1 no) and ready to fruit mushroom beds were also unveiled. In addition an exhibition by KVK entrepreneurs was also organised (Millets, Honey and Mushroom based) .The august gathering included PAO, Kollam, Head Regional Station CPCRI, Kayamkulam, Principal Scientists from CTCRI, Thiruvanthapuram; Professor and Head, FSRS; and Principal Scientists from CTCRI, Thiruvanthapuram; representatives from neighbouring KVKs of Kottayam, Allepy and Thiruvanthapuram; ATMA Kollam, DPD; and representatives from other allied departments of Animal Husbandry, Dairy and Fisheries and district Industries Department and progressive farmers (5 nos) and agrientrepreneurs (2 nos) . The banking sector was represented by NABARD and LEAD Bank manager. Thirty members attended the meeting. The vote of thanks was proposed by Dr. Bindu Podikunju. The meeting came to an end at 2 pm.



## Taluk level mahila kisan ghosti

Rural women form the most productive work force in the economy of majority of the developing nations including India. More than 80% of rural women are engaged in agriculture activities for their livelihoods. About 20 per cent of farm livelihoods are female headed due to widowhood, desertion, or male emigration. Agriculture support system in India strengthens the exclusion of women from their entitlements as agriculture workers and cultivators. Most of the women-headed households are not able to access extension services, farmers support institutions and

production assets like seed, water, credit, subsidy etc. As agricultural workers, women are paid lower wage than men. ICAR KVK Koppal home scientist Dr. Kavitha Y Ullikashi participated in taluk level kisan ghosti organised by SKDRSP in bapireddy camp. Paddy is the main crop in and around Gangavathi taluk. Women generally work as labourer in paddy field. During taluk level mahila kisan divas, home scientist explained in detail of traditional paddy varieties and their processing and value addition. In addition, she also explained the uses of different drudgery reducing equipment used in paddy cultivation.



A hand-held equipment named EZY Collect to remove noxious weeds was launched by honorable District Collector P. K. Jayasree at KVK Kottayam on 8<sup>th</sup> February 2023. The launch was attended by the important dignitaries and line departments of the district. This equipment was developed by the Professional Leadership Centre under the Government Engineering College, Barton Hill, Thiruvananthapuram, in association with the Krishi Vigyan Kendra (KVK), Kumarakom

as a lasting solution to the water hyacinth menace. The device is designed using the telescopic technology in such a way to easily collect weeds and different types of materials that obstruct the flow of water from water bodies up to 6m wide. It can be extended and shortened depending on requirement. A trial run of EZY collect was carried out earlier in the canals of Kumarakom, after conducting a research for almost one year.



## Sowing of green gram seeds inaugurated on World Pulses day

It is a fact that the area under grain pulses in Kozhikode district is very meagre (only 3 ha) and efforts are being taken by KVK and Agriculture department to introduce suitable pulses crops. In this connection, Krishi Vigyan Kendra, Kozhikode is implementing Cluster FLD – Pulses programme since 2021 covering more than 10 ha area in rice fallows during summer. As initiative of this year programme, 10 ha paddy fallows are identified in Koothali, Naduvannur, Kottur and Maruthonkara Panchayats. On world pulses day

(10 Feb, 2023) seed sowing of CO- 8 Green gram was arranged by KVK and the programme was inaugurated by Shri N.P. Babu, Block Panchayat President, Perambra presided by Smt. K.K. Bindu, President, Kootali Grama Panchayat. The details of pulses sowing and its importance in Kozhikode district were explained by Dr P. Ratha Krishnan, Programme coordinator, KVK. Mr V. Gobi Poolakandi Kunhamadu, Chairman, Panchayat Standing Committee felicitated the programme. Dr K.M. Prakash welcomed the participants and Mr. K.K. Ibrahim president, Koothali Vilattukandi mukku Padasekaram delivered vote of thanks. The programme was attended by Koothali Vilattukandi mukku Padasekaram members, public and students.



## Technology week “Nirapoli”

Technology week of the KVK was celebrated from 8<sup>th</sup> to 15<sup>th</sup> February 2023 with various programmes such as 4 days long exhibition, two research extension interphases and scientific seminars. The exhibition stalls were opened by Honorable Vice Chancellor of KAU Dr. Arya K. in the presence of Hon Agricultural minister of the state Sri. P Prasad, Local constituency MLA Dr. K. T. Jaleel and Director of Extension KAU, Dr Jacob John. In addition to the stalls of KVK, various farmer entrepreneurs promoted by KVK participated in the exhibition. Since the exhibition was organized coinciding the “Farm Mech” exhibition of the farm machinery project and attracted huge crowd on all the days from 12<sup>th</sup>



15<sup>th</sup> Feb 2023.

## Research extension interphase with Animal Husbandry officers

As a part of the technology week 2023, Research extension interphase involving Animal Husbandry officers were conducted on 8<sup>th</sup> February



2023 at the KVK, in which more than 100 veterinary officers of the district participated. The scientific interaction on the topic “Current scenario and future challenges of animal breeding technologies – A Kerala perspective” was initiated by a talk by Dr. Ibraheem Kutty (Animal Reproduction specialist), Programme coordinator, KVK and District Animal Husbandry officer, Dr. P. U. Abdul Azeez, Deputy Director Dr. Joy George (Veterinary gynaecologist), Dr. Haroon Abdul Rasheed and Dr. Madhu C, Assistant Project officers, and Veterinary officers took part in the discussions.

## Appraisal of Field problems in Agriculture

On the second day of Technology week “Nirapoli 2023” Research extension interphase was conducted for assessing the field issues experienced in seven southern blocks of the district. A total of 80 participants including Agriculture officers and farmer nominees participated and presented the major issues being



experienced in the field seeking corrective measures / attention for problembased research initiatives by the University. The session was moderated Er. Priya G. Nair, SMS Agri Engineering, and other SMS of KVK participated in the discussions and suggested available remedies and noted the newer issues for transferring to research level. Deputy Director (E & T) of Agriculture department, Smt. Shirly Zacharia and Smt Mini ADA Ponnani block coordinated the interactions.

## Diagnostic field visit to young coconut orchard

ICAR, JSS, KVK Scientists, Plant Protection and Agronomy have visited young coconut orchards in Hulyalu village of Hunasur district. Where weed menace in coconut orchard is more, KVK scientist (Agronomy) suggested to adapt mixed cropping with cowpea and millets like brown top millet in coconut orchard.

Scientist Plant Protection diagnosed the rugose white fly infestation in coconut orchard and the same

is spreading to butter fruit grown as intercrop in orchard and suggested integrated management of Rugose whitefly. Spraying starch solution (1%) to dislodge the heavy sooty mould deposition on the leaves of infested plants.

- Use of yellow sticky traps to trap the adult white flies.
- Encourage build-up of parasitoids (*Encarsia* sp.) and reintroduce parasitized pupae to emerging zones of whitefly outbreak.
- Spray neem oil 0.5%.





## Radio KISAN Diwas and Millet seminar

KVK Palakkad and Tribal Extension Centre Attapady collaborated with All India Radio, Ernakulam for 'RadioKISAN Diwas' on 15.02.2023. The programme was conducted at Chembu Panchayat, Vaikom giving awareness on different aspects of agriculture giving special emphasis on Millets. A group of 16 farmers from Attapady participated



in the programme. Sri Rangaswamy, President of ATFAM ( FPO, Attapady) explained on the traditional cultivation practices of millets and the working of their FPO. Dr. Sumiya K.V gave awareness on millets and need for including it in our diet. Dr. Sreelakshmi K, Assistant Professor, KVK Palakkad, explained on the possibilities of millet cultivation in the plains. Smt. Mini, an entrepreneur talked about the possibilities of millet value addition. Later farmers of Attapady, performed the very exciting 'Kambalam', their traditional dance form of tribals of Attapady.

## World Pulse day “Pulses for sustainable future”

Krishi Vigyan Kendra celebrated World pulses day on 10.02.2023 conveying the message “Pulses for sustainable future” at two locations of Palakkad district. The programme was conducted in collaboration with Kisan Service Society, Muthuthala in an area of 40 acres. Green gram and black gram seeds were distributed along with bioinput rhizobium. The programme was presided by Sri. Gopalakrishnan (Kodumunda Padasekhara Secretary), Kisan Service Society, Muthuthala and inaugurated by Smt. Anandavally (President, Muthuthala Grama Panchayath). Dr. Sumiya K V, Programme Co-ordinator, KVK Palakkad explained about the programme and importance of cultivating pulses and Dr. Sreelakshmi K, demonstrated the use of biofertilizer rhizobium. 17 farmers participated in the programme.

Another programme was conducted by KVK Palakkad at Extension Centre, Attapady. Seeds of green gram and black gram were distributed to tribal farmers of Moolakombuooru. Mr. Jishnu (Research Assistant) took an awareness class on the importance of pulse cultivation and the need for inclusion of pulses in our diet.



## Model Natural Farming Farming Block at KVK Farm

ICAR-Krishi Vigyan Kendra, Pathanamthitta initiated development of a model Natural farming block at KVK farm with an objective to create awareness on natural farming and educate farmers on the importance of natural farming to preserve ecology and eco-friendly agriculture as part of Natural farming project of ICAR, Govt. of India. The usage of natural farming inputs such as Jeevamrith, Ghanjeevamrith, Beejamrith, Panchgavya and Neemastra is also been demonstrated. The block was inaugurated by His grace Rt. Rev. Thomas Mar Timotheos Episcopa, Chairman, KVK. In his inaugural address Thirume-

nistated that natural farming is the need of the present era as it is beneficial for the maintenance of soil health, human health and environment. On the occasion critical inputs were distributed to farmers for setting up of natural farming plots at selected farms in the district. Rev. Moncy Varghese, Director, CARD presided over the function. Dr. C.P Robert, Senior Scientist and Head, KVK, Pathanamthitta delivered the Keynote address. He expressed that natural farming is agro ecology based farming which integrates crops, trees, livestock and biodiversity. He deliberated upon the components of natural farming, importance of pests and disease management of various crops through natural means and the scope of natural products in present day agriculture.



## 11<sup>th</sup> Scientific Advisory Committee Meeting at ICAR-KVK Ramanagara

The 11<sup>th</sup> Scientific Advisory Committee meeting was held at Krishi Vigyan Kendra, Chandurayanahalli, Magadi, Ramanagara District on 09.02.2023. Dr. K. Narayana Gowda, the Director of Extension, UAS, Bangalore chaired the meeting and expressed that the Ramanagara is very close to Bangalore and farmers have to attract the consumers with direct marketing and value addition. Agritourism also has the potential



advisory committee meeting and informed that the front line demonstrations of KVK should be up-scaled by line departments and other stake holders. The action taken report on recommendations of last SAC, overall progress report and action plan for next year was presented by Dr. Lata R. Kulkarni, Senior Scientist & Head, KVK Ramanagara. This was followed by an active and fruitful discussion from the officials of developmental departments and farmers. The dignitaries performed 'Rashi Puja' of the grains grown at KVK Ramanagara, released KVK Times Vol. I issue 37 and folders during the programme. Dr. Uma, M. S., Associate Director of Research, Dr. O. R. Nataraju, Professor & Head, Department of Animal Science, and Dr. Savita, S. M., Head, Bakery Training Unit, UAS (B), Scientists from KVK Ramanagara, NBAIR, IIHR, UHS Bagalkot, KVAFSU, Bidar and Deputy Directors of Agriculture, Horticulture, Sericulture, Fisheries and Animal Husbandry of Ramanagara District and progressive farmers & entrepreneur were present in the meeting. On this occasion exhibition was also arranged.



to help revitalize rural economy to educate the public about agriculture and to preserve agricultural heritage. Dr. Mallikarjuna Hanji, Chief Technical Officer, ATARI Zone XI, Bangalore highlighted that the Krishi Vigyan Kendra should provide appropriate solutions to the farmers' problems and lead to the all-round development of the farmers. Dr. Madhuprasad, Associate Director of Extension, UAS (B) explained the purpose of the scientific



## Capacity development programme on “Food and nutritional security through millets”

ICAR - Krishi Vigyan Kendra, Shivamogga organized Capacity development programme on “Food and nutritional security through millets.” Dr. Jyoti M. Rathod, Scientist (Home Science), Krishi Vigyan Kendra, Shivamogga, explained about the importance, significance and need of celebration of International year of millets programme, role of millets in human diet, benefits and nutritional importance of millets. She also suggested the participants to include the nutritious food such as millets in their daily food diet to combat the malnutrition. She also explained in detail about the need of value addition in ragi, bajra, foxtail millet, kodo millet, little millet and proso millet etc. Later she briefed

about the nutrient content of ragi, bajra, foxtail millet, kodo millet, little millet and proso millet. The participants also interacted with the scientist related to the International year of millets concept. During the programme Dr. Pooja, G. K., SRF (ARYA), Krishi Vigyan Kendra, Shivamogga and staff of Raitha Samparka Kendra, Shiralkoppa were also present. Totally 49 participants were benefitted from this programme.



## “Millets are no more orphan crops.”

Millets, ‘the poor man’s food’, are still waiting to enter the diet pattern of Keralites. Millet cultivation adaptable to Kerala’s climatic conditions are being included in the crop plans of Kerala by both state and central government. There is an attempt to diversify the rice based cropping pattern by including cultivation of pulses, oilseeds, and millets.



To upscale the plan, KVK Thrissur has started taking forward millet cultivation in Thrissur district by formulating specific action plans, in the International Year of Millets 2023. Preliminary steps taken by KVK Thrissur are the distribution of seeds to 8 acres of land at Mecheri, Kolazhi Panchayath, Thrissur. The major millet seeds distributed were Kutki or Same (little millet), Kodo millet, Kangni or Kakun (foxtail millet), and Ragi or Mandua (finger millet). Processing and value-addition activities are also going on. KVK Thrissur is giving publicity among farmers and other stakeholders, about millets and its advantages, through social media, AIR and media tagging. KVK Thrissur also aims to study and help farmers overcome the constraints like low productivity, lack of good quality seeds, lesser shelf-life, lack of machinery for processing, absence of market linkages, lack of uniformity standard and grades.

## Support to livelihood and well-being of Scheduled Caste community

KVK Thrissur adopts a multi-pronged approach for the socio-economic development of the Scheduled Castes. One among the activities is the support rendered through Scheduled Caste Subplan (SCSP) implemented by All India Coordi-



nated Research Project on Agrometeorology and AICRPAM- National Innovations in Climate Resilient Agriculture. Poultry cages, birds and feed were distributed to selected SC farmers to enhance their livelihood assets. The project aims to alleviate poverty, eradicate malnutrition, and provide subsidiary income. Scientists of KVK Thrissur and Department of Agro meteorology, CoA Vellanikkara jointly facilitates this programme.

## Kerala Agro Food Pro -2023 Exhibition

KVK Thrissur participated in the Kerala Agro Food Pro-2023, the state level marketing fair organized by Department of Industry and Commerce to promote marketing of agro based value added products. KVK Thrissur displayed and



provided its value added products like dried mango, mango RTS, mango crush, amaranth RTS, lemon ginger RTS, tender coconut products, flavored rice flakes along with seeds, bio-pesticides, micro nutrient mixtures etc. for sale.

## NANO UREA IN PADDY CROP - FIELD DAY

ICAR Krishi Vigyan Kendra, Mitraniketan-Thiruvananthapuram organized a field day in association with Vamanapuram Padashekharam as part of front line demonstration of Nano Urea in paddy in Thiruvananthapuram district. Twenty six participants attended the field day celebration. The new technology of Nano Urea has proved to be very successful in paddy cultivation. Indian Farmers Fertilizer Cooperative Ltd (IFFCO) has introduced the technology of Nano Urea (liquid) for the benefit of farmers. ICAR KVK Thiruvananthapuram conducted seminars, trainings, lectures, exhibitions and demonstrations to familiarize recent technologies on liquid fertilizers in the district among farmers. Nutrient use efficiency was found to be more after application of nano urea during evening hours. Demonstration was carried out in Jyothi variety of Paddy. New trend in crop production using Nano Urea foliar spray @ 2-4 ml per litre of water at 30 & 45 days after transplanting showed promising results compared



to paddy crop with soil application of conventional urea as basal and topdressing. One bag of urea is equivalent to 500 ml Nano urea in bottle and could be used for spraying in one hectare area. Smt. Binitha S, Ward member inaugurated the field day celebration by harvesting the crop. She encouraged farmers to take up new initiatives like this in the future for increasing the production and productivity of cereal crops. Smt. Jyothi Rachel Varghese (SMS Agronomy) explained the purpose and effectiveness of Nano Urea as demonstration in maintaining plant nutrition. Five farmers were beneficiaries of the programme for an area of 1 hectare. All the farmers reported that it enhanced the income with an evident increase in yield. New technology helped farmers to reduce in transportation and input cost for the intervention to an extent. The field day was conducted in the plot of Shri. Kuttara Anil Kumar (Padashekhara Samithi secretary). He commended that they are convinced about the benefit of nano urea. An yield increase of 15% was observed in the plot.



## Sponsored Off-Campus Training on Oyster Mushroom Cultivation

Sponsored Off-Campus Training on "Oyster Mushroom Cultivation" was organized at Neerakal village, Madugiri talukon 13<sup>th</sup> February 2023 in collaboration with District Agriculture Training

Centre, Chikkanahalli, Tumakuru. Mrs.Radha R. Banakar SMS- Home Science, ICAR-KVK, Hirehalli delivered lecture on spawn production techniques and nutritional importance of different kinds of mushrooms along with oyster mushroom cultivation technique. Later Trainees were demonstrated mushroom bag filling and bag incubation methods. This training programme was attended by 55 farmers.



## 16<sup>th</sup> Scientific Advisory Committee meeting

Keladi Shivappa Nayaka University of Agricultural and Horticultural Sciences, Iruvakkki, Shivamogga, ICAR-New Delhi, ICAR-Krishi Vigyan Kendra, Brahmavar, Udupi Dist conducted 16<sup>th</sup> Scientific Advisory Committee meeting on 01.02.2023 at Krishi Vigyan Kendra, Brahmavar.

Dr. R C Jagadeesh, Vice-Chancellor, Keladi Shivappa Nayaka University of Agricultural and Horticultural Sciences, Iruvakkki, Shivamogga, presided over the function. Dr. Hemla Naik, Director of Extension, Keladi Shivappa Nayaka University of Agricultural and Horticultural Sciences, Iruvakkki, Shivamogga, gave introductory mark about the programme and Dr. D.V. Srinivasa Reddy, Nodal Officer, ATARI, Bengaluru, inaugurated the programme.



During the programme, new website of Krishi Vigyan Kendra, Brahmavar was launched by Hon'ble Vice-Chancellor and congratulated the KVK team.

Work done reports, Action plan reports of 2022-23 was presented by Dr. Dhananjaya B, Senior Scientist & Head, KVK Brahmavar. After the presentation, all the line departments of Agriculture and farmers of Udupi district discussed about the present problems in the field and also about the work to be done to over come the problems.

Dr. Chaitanya H.S, Scientist (Horticulture), KVK Brahmavar gave vote of thanks and Dr. Sachin U S Scientist (Plant protection) co-ordinated the programme.

## Scientific mushroom cultivation training

Keladi Shivappa Nayaka University of Agricultural and Horticultural Sciences, Iruvakkki, Shivamogga, ICAR-New Delhi, ICAR-Krishi Vigyan Kendra, Brahmavar, Udupi Dist, ZAHRS, Brahmavar, Natural farming, ZAHRS Brahmavar organized one day paid capacity building programme on 'Scientific mushroom cultivation' at Krishi Vigyan Kendra, Brahmavar on 03.02.2023.

Smt Bhuvaneshwari, Deputy director of Horticulture, Udupi District, inaugurated the programme. In her inaugural speech, she highlighted the important schemes and facilities available in the department for mushroom cultivation.



Dr. Lakshmana, Associate Director of Research, ZAHRS Brahmavar, presided over the function. In his presidential speech, he explained about the nutritional benefits of the mushroom. Dr. Sudheer Kamath K. V, Principal, Agriculture Diploma College, Brahmavar, was the chief guest of the programme.

Dr. Santhosh Gowda G B, Research Associate (Microbiology), natural farming, ZAHRS, Brahmavar was the resource person for the training programme. Dr. Dhananjaya B, Senior Scientist & Head, KVK Brahmavar welcomed the gathering and Dr Sachin U S, Scientist (Plant protection), KVK Brahmavar co-ordinated the programme.



## Training Programme on Beekeeping-A subsidiary enterprise for income generation training programme

ICAR- Krishi Vigyan Kendra, Uttara Kannada Sirsi, Karnataka organised beekeeping - A subsidiary enterprise for income generation training programme on 13.2.2023 at Deria village, Joida Tq in association with Kali Farmers Producers Company, Kumbarwada. Dr. A. S. Vastrad, Director of Extension, UAS Dharwad inaugurated the programme and highlighted about the quality honey obtained from Joida area due to vast medicinal flora. He also stressed about research studies on pollen analysis content in honey samples from Joida tq. Dr. Roopa S. Patil, Scientist (Plant Protection) gave preamble note and funding opportunities available under RKVY-RAFTAR projects of UAS Dharwad for innovative ideas. Shri Sathyanarayan Bhat Mankalale, Beekeeping Organiser (Rtd) explained the pivotal role of bees to mankind and also made mention about byproducts viz., pollen, wax, bee venom apart from collection of honey. Farmers were exposed



to different colony dividing techniques, colony management and other important aspects of beekeeping. Dr. Shivashenkaramurthy M. Scientist (Agronomy) gave hints on growth of FPC through marketing of location specific products and role of members in upliftment of FPC. Shri Shantaram Kamat President, Kali Farmers Producer Company assured to upscale the activity on honey collection and marketing under the brand name “Kali honey”. More than 38 farmers especially from Kunabi tribe participated in the programme and apiculture book “Jenu prapancha” was distributed. The programme was organized by Dr. Roopa S. Patil and Dr. Shivashenkaramurthy, M.



## Importance and Scope of Natural Farming :

ICAR-Krishi Vigyan Kendra, Vijayapura has conducted one day training programme on 'Importance of natural farming' for the final year agriculture students as a practical exposure to the experiential learning programme under natural resource management (NRM). During the training they were made aware about the natural farming also called as dung or urine based farming system that does not involve any external chemical or organic fertilizers. It is known by various names like; Zero Budget Natural Farming, Prakrithik Krishi, Cow Based Natural Farming, Shashwat Kheti, Chemical free agriculture, etc. Natural Farming

offers a solution to various problems, such as food insecurity, farmer's distress and health problems arising due to pesticide and fertilizer residue in food and water, global warming, climate change and natural calamities. It also has the potential to generate employment, thereby stemming the migration of rural youths. Natural Farming, as the name suggests, is the art, practice and increasingly, the science of working with nature to achieve much more with less by reducing cost of cultivation and water requirement which provides safe and healthy food for citizens by utilizing the available cattle (Desi Cow) as valuable resource and helps in arresting growing needs for fertilizer and reduce subsidy burden to the country.



## On-campus training programme-Millets for nutritional security

ICAR-Krishi Vigyan Kendra, Vijayapura-II (Indi) organised on campus training programme on Millets for nutritional security on 01.02.2023 at KVK under G-20 Conclave side event. Dr.Heena M. S., Scientist (Horticulture) had explained in detail about nutritional importance of millets, which are nutritionally superior as their grains contain high amount of proteins, essential amino acids, minerals and vitamins, also rich in fibre, a treasure health promotive photochemical, like polyphenols, lignans, phytosterols, phytoestrogens, phytocyanins. These function as antioxidants, immune modulators, detoxifying



agents etc. have received attention for their potential role as functional foods. Millet cultivation is the mainstay of rain-fed farming on which 60% of Indian farmers depend. They provide food as well as fodder and can be mixed-cultivated (polyculture) with pulses and vegetables. The advantages of cultivation of these crops include drought tolerance, crop sturdiness, short to medium duration, low labour requirement, minimal purchased inputs, resistance to pests and diseases. Millets are C4 crops and hence are climate change compliant. To promote cultivation and consumption of millets and millets-based products, the year 2023 has

been declared by the United Nations as the “International Year of the Millet”, this will be an opportunity to raise awareness of, and direct policy attention to the nutritional and health benefits of millets and their suitability for cultivation under adverse and changing climatic conditions. The Year will also promote the sustainable production of millets, while highlighting their potential to provide new sustainable market opportunities for producers and consumers. Dr.Prema B Patil, Senior Scientist and Head, KVK Vijayapura-II (Indi) gave information on value addition of millets and Smt. Bharati Mededar progressive farm women practically demonstrated value added products of millets. Around 40 farm women’s were participated in the training programme.

## Training programme- organic farming

ICAR-Krishi Vigyan Kendra, Vijayapura-II (Indi) organised on campus training programme on Organic Farming on 02.2.2023 at KVK under G-20 Conclave side event. Dr.Savita B., Scientist (Soil Science) gave lecture on Importance organic farming, vermicompost production, vermiwash production and nutrient management in organic farming a total of 35 farmers participated and got benefited out of this programme.



## Celebration of International Millet Year

ICAR- KVK Wayanad in collaboration with Rag Rang Arts and Sports Club Cherukazhambu, Nenmeni and Kalpetta Kisan Service Society celebrated International Millet Year. Sowing of millets in Frontline demonstration plot was inaugurated by Sri. P K Sathar, Block Panchayat member, Sulthan Bathery. ATMA Project Director Sri. K Mammooty inaugurated sowing of little millet and Sri. Rajesh Assistant Engineer, Agriculture Department spoke in detail about the scope of SMAM scheme and the importance of water conservation. Sowing of 8 millets such as ragi, little millet, pearl millet, kodo millet, proso

millet, barnyard millet, sorghum and foxtail millet were completed in the FLD plot in Cherumad padasekharam.

## Cluster Frontline demonstration and training on Black gram cultivation

KVK Wayanad conducted frontline demonstration and training programme on cultivation of black gram. The programme aims on increasing the productivity of pulses nationally. Sowing of pulse seeds was done on 50 acres of land on Cheeral village in Nenmeni panchayath. Various inputs like seeds, dolomite, biocontrol agent like *Pseudomonas*, biofertilizer like *Rhizobium* were distributed to the farmers. Training on crop production of pulses were handled by Dr. Indulekha V.P, Assistant Professor, KVK Wayanad. KVK Programme coordinator, Dr. Safia N.E, welcomed the gathering. The programme was inaugurated by Sri. Ravunni K.K, Sulthan Bathery Assistant Director of Agriculture. Presidential address was given by Cheeral cluster member Sri. Gangadharan. Vote of thanks was delivered by Sri. Sunil Mathoorkulangara.



# KVK Thrissur at a glance





ICAR - Agricultural Technology Application Research Institute  
Zone - XI, Bengaluru, Karnataka - 560024  
Email : atari.bengaluru@icar.gov.in