KVK TIMES

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

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KVKs 1974-2024

कृषि विज्ञान केन्द्र
Krishi Vigyan Kendra
Serving Farmers

ICAR - AGRICULTURAL TECHNOLOGY APPLICATION RESEARCH INSTITUTE, ZONE-XI
BENGALURU

KERALA AGRICULTURAL UNIVERSITY
THRISSUR

ICAR - KRISHI VIGYAN KENDRA
KANNUR

kisan samriddhi

KVK TIMES

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

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Message

Krishi Vigyan Kendras play a vital role in the transfer of technologies from the research system to the doorsteps of farming communities. KVKs support different stakeholders in Agricultural Knowledge and Innovation System to improve the socioeconomic status of rural people. The initiatives taken by KVKs in mobilizing farmers, strengthening Farmer Producer Organizations (FPOs), creating agri-business opportunities, and developing the capacity of farmers, farm women, extension functionaries, and rural youth etc., are remarkable. Such efforts must be documented to serve as a ready reckoner of innovative ideas and achievements in the frontline extension system.

ICAR - ATARI Bengaluru, Zone XI, has come up with the idea of publication of a fortnightly e-newsletter named 'KVK Times' to showcase the programmes and activities of KVKs. I hope KVK Times would provide a platform for all KVKs in the zone to share valuable information for showcasing their commendable approaches and accomplishments. The collective effort of ATARI, the Directorates of Extension, and Krishi Vigyan Kendras is highly appreciable, and I congratulate the KVK Kannur team for compiling the extension activities organized by the 48 KVKs of Kerala and Karnataka during the second fortnight of May 2024.

Thrissur
12. 06. 2024

(Dr. B. Ashok)



DR. V. VENKATA SUBRAMANIAN
Director
ATARI Bengaluru

Message

Krishi Vigyan Kendras are playing pivotal role in handholding of farmers through technological backstopping for enhancing the productivity of crops and enterprise keeping in mind profitability and sustainability. *'Believing through seeing'* and *'Learning by doing'* is most appropriate to the KVKs, as the Scientists and farmers are jointly involved in implementing KVK mandated activities to reach the mission of enhancing the farmers income. KVKs are expanding the horizon from elite extension to innovation, market linkage, FPOs, processing and value addition.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.

A first of its kind virtual platform, KVK TIMES which documents fortnightly activities of each of the 48 KVKs of Zone-XI is gaining a real momentum. The news items covered in issues made an impact that is long lasting. Most of the news items published in the TIMES has got the potential of cross learning among KVKs and worth reading. This should boost the morale of all of us and many such noteworthy efforts of our fraternity in the zone.

I am happy that KVK Kannur is bringing up the 22ndissue of second volume of KVK TIMES covering the second fortnight of May. I congratulate the KVK fraternity of Zone XI specially Dr. Jayaraj P., Senior Scientist and Head and his team of KVK,Kannur for bringing out this unique edition of KVK Times.

Bengaluru
31. 05. 2024

(V Venkatasubramanian)



Dr. JACOB JOHN
Director of Extension
Kerala Agricultural University

Message

Krishi Vigyan Kendras represent frontline extension systems that are toiling incessantly for the betterment of farmers and rural folk. They are the down to earth institutions, intensively working for technology assessment, refinement and transfer of latest technologies to the farming community. The interventions of KVKs primarily include farm trials, front line demonstrations and capacity building programmes. KVKs are painstakingly working towards empowering agripreneurs and also provide livelihood support for farmers through various income generation activities. Thus, KVKs become a beacon of light for the overall rural development in the district.

The novel idea of showcasing activities of KVKs though a fortnightly newsletter, KVK Times by ATARI Zone XI is really appreciable as it exemplifies how KVKs can help farming community to help themselves.

I appreciate and congratulate the Head and entire team of KVK Kannur for the splendid compilation of activities of Kerala and Karnataka KVKs for the 22nd issue of KVK Times Volume 2.

Thrissur
31. 05. 2024

Dr.JACOB JOHN



Dr. JAYARAJ P.
Senior Scientist & Head
KVK Kannur

Message

ACKNOWLEDGMENTS

I take this opportunity to express heartfelt gratitude to Honourable Vice Chancellor of Kerala Agricultural University, Dr. B. Ashok for hiscontinuous support for KVK to work for enhancing the income of farming community by disseminating appropriate technologies in agriculture and allied sectors. I would like to extend my sincere gratitude to Dr. Jacob John, Director of Extension, KAU for his guidance and inspiration to carry out the assigned work with perfection.

I wholeheartedly thankful to Dr. Venkatasubramanian, Director of ATARI, Bengaluru, for his immense support and motivation in all efforts of KVK. I extend my sincere gratitude to Dr. D. V. S. Reddy, Principal Scientist and Nodal Officer of KVK Kannur for his timely guidance and constant support for KVK.

It is my immense pleasure to express my honest gratitude to all KVKs in Zone XI for the quick response and sharing of their activities for KVK Times in stipulated time.

Last but not the least, I express my sincere thanks to entire team of KVK Kannur for their efforts in compiling and editing of KVK Times. I would like to express my profound gratitude to ATARI, Bengaluru for giving an opportunity to compile the 22nd issue of second volume of KVK times for the period of 16th -31st May, 2024.

Kannur
31. 05. 2024

Dr. Jayaraj P.



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ICAR - Krishi Vigyan Kendra Alappuzha

Arka Nikhita giving rich dividends to vegetable farmers on precision farming

In order to recommend an ideal hybrid variety of Bhindi under open precision farming conditions to commercial vegetable farmers of Karappuram region of Alappuzha district, an assessment was conducted by introducing two new hybrids *viz*., Arka Nikhita from ICAR-IIHR, Bengaluru and COBH 4 from TNAU, Coimbatore for comparison with Samrat, the one practiced by farmers. Adhoc recommendations of KAU for open precision farming were followed for all the three varieties. The partner famers from Muhamma, Thanneermukkom and Kanjikuzhy panchayaths were very happy and convinced by the performance of Arka Nikhita with a higher yield of 18.8 t/ha, and good appearance and cooking qualities. Open precision farming in general leads to higher yield, and lesser infestation of pests, diseases and weeds but Arka Nikhita outperformed the other varieties (at least by 5 t/ha) with advantages in marketing also. Convinced by the added performance, farmers have initiated the next crop by procuring seeds directly from IIHR. Thus the variety has become popular among the commercial vegetable farmers very soon through the intervention of the KVK.



Revival of Bitter gourd cultivation through IPM interventions in Alappuzha district

Bitter gourd was a popular, remunerative, and commercial vegetable crop for the farmers in Alappuzha district, but tired with plethora of pests attacking the crop and the helplessness of non-effective management of the same, most of them started abandoning the cultivation for the last 5-6 years. Realizing this critical problem, KVK initiated demonstrations on IPM packages in bitter gourd initially in Mavelikkara and Bharanikkavu blocks during 2019-20. Since the conventional package was not found to be very effective, a modified package was formulated by the KVK by organizing a brain storming workshop of the scientists, extension workers, and progressive farmers involved.



The package included use of *Pseudomonas* @20g/l drenching in soil, *Beauveria bassiana* spray @20g/l against sucking pests, use of Nanma @ 6ml/l against sucking and chewing pests in the initial stage. Cue lure traps and covering of fruits were in use to protect the fruits from fruit fly attack. Use of chemicals was restricted to need based, only when the pest population exceeded the threshold limit. Yellow sticky trap was installed to catch and monitor the pests in the field, and avoiding the presence of alternate hosts, mainly weeds, were ensured. Farmers were thrilled to observe the insect pests on traps and the success of interventions. The demonstration plots recorded a BCR of 2.21 in place of 1.59 in control plots. Infestation of major pests *viz*., fruit fly, whitefly, Epilachna beetle, Pumpkin beetle and aphids were very low in the





demonstration plots compared to non-IPM plots. Based on the success of these demonstrations, it was extended to Muhamma Panchayath in Karappuram region during 2023-24, where also the cultivation is taken up on commercial scale. Thus through these continuous interventions, the past glory of bitter gourd cultivation in the district could be brought back by winning the confidence of farmers in scientific IPM practices.

ICAR - Krishi Vigyan Kendra, BELAGAVI - I

PIT FILLING DEMONSTRATION FOR PLANATION PROGRAMME

With a view of scientific pit filling for fruit crop plantation programme in Adalhatti village, KVK Tukkanatti Belagavi-1 Scientists arranged a method demonstration programme for the farmers. On the lead farmers field a demonstration have been carried out.

In Adalhatti village Ta. Athani Dist. Belagavi; a group of 138 farmers become ready for plantation programme for this year. In this regard fruit species like mango, sapota, acid lime, coconut, Water apple and apple ber will be provided by the ICAR-BIRDS,KVK Tukkanatti, Belagavi-1 to the desired one and pit hole opened farmers only..

On dated 16th of May 2024 in the farm of Basawraj Chikatti, KVK scientists named Dr. D. A Mhetre (SS&H), D. C Chougala (Sci. Plant Protection), M. N Malawadi (Sci. Agronomy), P. M Patil (Sci. Horticulture) were engaged in showing the correct scientific demonstration for pit filling .

In this programme,near the opened pit by farmer field, top soil, well decomposed compost manure along organic insecticide like neem powder has been utilized for the filling of pit. Also, by keeping view of suppression of soil we suggested to make heap over the pit.So, in future when the pit soil will depressso it become levelized to ground and no disturbance for the planted tree.

For this programme nearby lead farmers were present and assured to follow the same practice on all farmers field. In upcoming season, the fruit planting programme will take place. Where this type of demonstration will be helpful for the farmers.

Compiled By: Dr. D.A. Mhetre, SS&H, Bealavi-1





ICAR - Krishi Vigyan Kendra, Mattikopp, Belagavi - II

INFORMATION FOR KVK TIMES FOR THE SECOND FORTNIGHT OF MAY (15-31 MAY, 2024)



1. Pre - Kharif Campaign

A pre-*kharif* campaign was organized by KVK at Ganachari Kalyanmantapa, Bailhongal on 05.05.2024 in association with ADM Agro Pvt Ltd., Dharwad. The programme was inaugurated by Dr. V.I. Benagi, Former Vice-Chancellor, UAS, Dharwad. Addressing the gather said that, the soil is a precious natural resource and everyone has to work devotionally for its conservation. He emphasized that, if we want keep alive ourselves we have to necessarily take steps to make it lively on sustainable way so as to produce the food for all. In light of this, he suggested farmer to reduce dumping of chemical fertilizer which can be replaced by organic manures to maintain healthy soil. Speaking on the occasion, Shivanagouda Patil, Joint Director of Agriculture, Dept. of Agriculture, Belagavi felt that, farmer who till the land is a living and visible god on earth as he is involved noble profession of producing food for every human being. He suggested farmers to adopt to recent technologies of KVK to boost the soybean yield and enhance oil production in the region. During her presidential address Mrs. Sridevi Angadi, Senior Scientist & Head, KVK, Mattikopp opined that, there is an urgent need to adopt high yielding varieties of soybean suitable in the region to enhance its productivity in this direction KVK is



introducing high yielding varieties of soybean Dsb-34 and suggested farmers to enhance the area under this variety. S.M. Warad, scientist (Soil Science) delivered lecture on integrated nutrient management practices in soybean and other oil seed crops. G.B. Vishwanath, scientist (Agronomy) explained salient features of different varieties of soybean and their suitable conditions of cultivation and answered the farmers queries. Officials of ADM Agro Pvt Ltd., Shri Bhimanagouda Patil, Deputy Manager and Mrs. Rakshita K.R., Assistant Manager spoke on the occasion. Shri Dalawayi, Assistant Director of Agriculture, Bailhongal present during the programme. Around 1200 farmers participated during the campaign and gained knowledge on recent varieties and cultivation practices of soybean and pulse crop.



2. Pre - Kharif Campaign

As part of Pre-*Kharif* campaign, Krishi Vigyan Kendra in association with ADM Agro Pvt Ltd., Dharwad organized a training programme on Recent technologies of soybean and pulses at KLE technology University campus, Hubballi 21.05.2024. The programme was inaugurated by Dr.Dr. S A



Gaddanakeri, Associate Director of Extension, UAS, Dharwad. Addressing the gather said that, ICAR-KLE KVK is doing excellent work in production and supply of quality seeds of high yielding varieties of different crops. The centre is issuing the recently released new variety of Soybean DSb -34 which is high yielding and disease resistant. He stressed the farmers to adopt this variety on large by disseminating the message to fellow farmers. He appreciated the efforts of KVK and ADM Agro Industries Pvt Ltd for jointly formulating and implementing the project for the farmer's benefit under CSR activities. Presiding over the function, Shri ShankarannaMunavalli, Hon'ble Director, Board of Management, KLE Society, Belagavi expressed that, KLE Society under the able leadership of Dr. Prabhakar Kore has reached its new height by running 310 institutes. The KVK established by the KLE Society at Mattikopp, Bailhongal taluk is working very hard for upliftment of the farmers economic through educating the farmers on new varieties and other recently released production technologies of different crops, soil health management, introduction of high value crops in horticulture sector and centre has made its presence felt among the farming community in the region. During her presidential address Mrs. Sridevi Angadi, Senior Scientist & Head, KVK, Mattikopp highlighted, the different activities of KVK *viz.,* technology assessment, technology demonstration, production and supply of seeds and planting materials, capacity building programme for farmers/ farmwomen, rural youths and extension personnels in the region. S.M. Warad, Scientist (Soil Science) delivered lecture on integrated nutrient management practices in soybean and other oil seed crops. G.B. Vishwanath, Scientist (Agronomy) explained salient features of different varieties of soybean and their suitable conditions of cultivation and answered the farmers queries. Dr. R.R. Patil, Consultant, Solidaridad Pvt Ltd and officials of ADM Agro Pvt Ltd., Shri Nagaraj Kamat, Deputy Manager and Mrs. Rakshita K.R., Assistant Manager spoke on the occasion. Around 300 farmers participated during the campaign and gained knowledge on recent varieties and cultivation practices of soybean and pulse crop.



3. Soybean seed distribution programme

On the eve of completion of 40 years of Dr. Prabhakar Kore as Chairman of the KLE Society, Belagavi, Krishi Vigyan Kendra, Mattikopp organized free soybean seed distribution programme at KVK campus on 18.05.2024. Shri B.R. Patil, Chairman, KVK, Mattikopp inaugurated the programme and expressed that, the KVK was established with keen interest of Dr. Prabhakar Kore to serve the farming community of the region during 2011. The centre is doing a pioneer work in production of quality seeds and supplied to the farmers to enhance the productivity and enhance the farmers income. KVK is also providing services such as soil testing, production and supply of bio products and planting materials along with sale of critical inputs in Kisan Bazar. In light of this he advised farmers to visit the centre frequently and ger acquainted with production technologies from the Scientist. Mrs. Sridevi Angadi, Senior Scientist and Head, KVK, Mattikopphighlighted that, the present variety JS-335 of soybean is old and low yielding susceptible to pest and diseases. In this connection, KVK with a goal to replace this variety, producing the high yielding new variety Dsb-34 in large scale and supplied to the farmer to enhance the production. Shri Anil Teradal, Manager, ADM Agro Pvt Ltd., said that, ADM company has identified KLE KVK under CSR project based on its technical expertness to serve the farming community. G.B. Vishwanath, Scientist (Agronomy) highlighted the

salient features of Dsb-34 soybean variety and agronomic practices to increase the yield. S.M. Warad, Scientist (Soil Science) delivered lecture on integrated nutrient management practices in soybean and other oil seed crops. Mrs. Rakshita K.R., Assistant Manager welcomed the august gathering. During the event, soybean seeds were provided on free of cost to 100 farmers under CSR project.



4. On campus training programme in collaboration with Solidaridad Pvt Ltd.

A on-campus training on Integrated Crop Management Practices in Soybean was organized in association with Solidaridad Pvt Ltd. on 31.05.2024 at KVK campus. Mrs. Sridevi Angadi, Senior Scientist and Head, KVK, Mattikoppinaugurated and highlighted the KVK activities being undertaken to serve the farmers she suggested the farmers to adopt Dsb-34 variety on large scale to get higher yield at reduced cost of cultivation by following eco-friendly practices. Dr.R.R. Patil, Consultant, Solidaridad Pvt Ltd. interacted with farmers on management of pest and diseases using bio-agents. G.B. Vishwanath, Scientist (Agronomy) highlighted seed treatment with bio-fertilizers, water management, weed management practices in soybean eco-system. S.M. Warad, Scientist (Soil Science) explained the principles, advantages and wheels of natural farming practices, preparation method of beejamruta, ghanajeevamruta,liquid jeevamruta and their application methodology for cultivation of soybean under natural farming practices. Mrs. Soumya Kulakarni, Assistant Manager, ADM Project provided opening remarks. Thirty five farmers practicing organic farming from Mekalamaradi, Bailhongal taluk participated and gained knowledge.

5.Training cum Seed distribution programme under CFLD-NFSM Pulse programme

A training cum seed distribution programme was organised at Salahalli village of Ramdurg on 28.05.2024 under National Food



Security Mission to create awareness on improved technologies of pigeon pea cultivation. During the programme,Mrs. Sridevi Angadi, Senior Scientist and Head appraised the farmers about the role of high yielding variety in enhancing the yield levels in redgram crop. Pigeon pea is an ideal crop to cultivate with low investment and getting higher returns. Further, she advised the farmers to implement the cluster demonstration with a competitive spirit for getting higher yields and to popularise the technologies demonstrated.

G. B. Vishwanath, Scientist(Agronomy) briefed about the sowing time, weed management, importance of nipping practice, integrated nutrientmanagement, use of Pulse magic and harvest of the crop. He also mentioned salient features of Pigeon pea variety *i.e.,* GRG-152 which is resistant to sterility mosaic virus disease.

Dr. S.S. Hiremath, Scientist(Plant Protection) explained about the integrated pest and disease management in redgram and also briefed on importance of seed treatment to overcome wilt complex diseases caused by *Rhizonctonia*, *Fusarium*, *Sclerotium* etc., Method demonstration on seed treatment was also organised and farmers learnt about seed treatment methodologies and benefits of seed treatment and convinced use *of Trichoderma* bioagent which prevent seed and soil borne diseases.S.A. Belavatagi, Assistant Director of Agriculture, Ramdurg taluk also briefed the various schemes available to the farming community. At the end of the programme Pigeon pea seeds (GRG-152) were issued to the famers for conducting the demonstrations.

6. Off campus Training Programme

Off campus training programme was organised on production technologies of sunflower at Mullur and Gonnagar village of Ramdurg taluk





on 29.05.2024 under National Mission on oil seed programme. During the programme,Mrs. Sridevi Angadi,Senior Scientist and Head highlighted the importance of oil seeds and also pointed out that sunflower area is reducing drastically and hence a mission mode approach is required to increase the area and productivity of sunflower in the district.Hence, Krishi Vigyan Kendra selected three Gram Panchayath villages namely Mullur, Gonnagar and Kittur and seeds will be provided for 100 ha area in these villages.

G.B.Vishwanath, Scientist (Agronomy) highlighted the salient features of the hybrid *i.e.,* RSFH-700 which was released by UAS, Raichur and briefed improved production technologies like weed, water,nutrient management and importance of hand pollination, micronutrient spray during head formation stage and harvesting techniques in sunflower.

DrS.S. Hiremath,Scientist(Plant Protection)explained the importance of integrated pest and disease management practices to be followed insunflower eco-system and also briefed the conservation of predators,parasites and pollinators by minimising the spray of harmfulpesticides and rearing of honey bees in and around sunflower fields which will help for pollination and enhance the yield up to 12-15 per cent and recommended the farmers to use only green labelled moleculesinmanagement of various pest and diseases.

S.A. Belavatagi,Assistant Director of Agriculture also witnessed the programme and explained the importance of cluster approach demonstrations.

7. On campus training

On campus training was conducted on soybean to farmers under CFLD-NMOOP on Oil Seeds on 30.5. 2024.G.B. Vishwanath, Scientist (Agronomy) explained the varietal character of Dsb-34 which is being introduced under cluster demonstrations. He also emphasized on production technologies of soybean which include soil type, climate requirement, pre and post emergent herbicides in soybean, irrigation management,and use of macro and micro nutrients. Dr S.S. Hiremath, Scientist (Plant protection) explained the seed treatment of soybean with fungicide and insecticides for protection of seedlings in early crop growth stages. Further, seeds were provided to the farmers for conducting demonstrations. Around 70 farmers from different villages participated in the training programme.

8. Natural Farming Workshop

S.M. Warad, Scientist (Soil Science) participated in the Regional Consultation on Science of Natural Farming held on 06.05.2024 at Yashwantrao Chavan Academy of Development Administration, Pune, Maharashtra organized by Dept. of Agriculture & Farmers Welfare, Government of India and Co-organized by Dept. of Agriculture, Government of Maharashtra. This regional consultation was attended by officials of Ministry of Agriculture & Farmers Welfare, New Delhi,Officials of Government of Maharashtra, University Vice-Chancellors, ATARI officials, Nodal Officers of KVK under Natural Farming (108 KVKs) and Natural Farming practicing farmers of different states.

During the panel discussion with practicing



Natural Farming farmers (3 farmers) and KVKs (3 one each from Karnataka, Gujarat and Madhya Pradesh), S.M. Warad presented KVK initiatives under Natural Farming *viz.,* demonstrations, trainings, campaigns, method demonstration and other extension activities, their results/ impacts and lessons learnt during implementation of upscaling of Natural Farming project during 2022-23 and 2023-24.

ICAR - Krishi Vigyan Kendra, Bengaluru Rural District



1. Diagnostic Field visit to Capsicum

Dr. Hanumantharaya, B.G., Senior Scientist & Head along with Dr. VenkateGowda, J, Scientist (Agronomy) and Dr. Ramegowda, H.V., Scientist (Crop Physiology) and Mrs. Meghana, S.V., Scientist visited the high-tech Capsicum plot grown under green house, on 18.05.2024 at Vanigarahalli, Doddaballapura taluk. The pruning is done after 30 days of transplanting at an interval of 8 to 10 days, resulting in bigger fruits with better quality and high productivity. The capsicum plants can also be pruned to two stems and same level of yield can be maintained. The main stem of plant is tied with four plastic twine to train along and tied to GI wire grid provided on the top of the plants. This is practiced after four weeks of transplanting. The new branches and plants are trained along the plastic twines. During the visit capsicum crop seems affected by wilt disease and scientists suggested controlling measures, nutrient management and fertigation through drip irrigation and trained the new branches by tying the plant with four plastic twine and also explained the other cultivation practices of capsicum crop under protective cultivation.



ICAR - KLE Krishi Vigyan Kendra, Bidar

Field Visit by KVK Bidar Scientists: Advancing Agricultural Practices

KVK Bidar scientists conducted a field visit on 28-05-2024 to operational villages for selecting demonstration fields for Frontline Demonstrations (FLDs) and On-Farm Trials (OFTs). During their visit, they engaged in group discussions with villagers, focusing on crop requirements and the adoption of improved production technologies. The scientists emphasized the importance of land preparation before the commencement of the monsoon to ensure optimal soil conditions for sowing. They also demonstrated methods for testing seed health, such as the water float test and germination tests, to ensure only viable seeds are sown. This proactive approach aims to enhance crop productivity and sustainability by leveraging scientific knowledge and community collaboration. The discussions and hands-on demonstrations aimed to empower farmers with practical knowledge, fostering better crop management practices and improving overall agricultural outcomes in the region.





Capacity Building Programme on "Pre-Kharif Preparation and Ginger Crop Cultivation"

A one-day training event was held on 27-05-2024 at the ICAR-KVK Bidar near Janwada, focusing on preparing farmers for the upcoming monsoon season and enhancing their knowledge of ginger crop cultivation. The program was inaugurated by Dr. Sunilkumar N.M, Senior Scientist and Head, who emphasized that adopting appropriate technologies in seed selection and crop production can significantly increase yields and reduce cultivation costs.

Dr. Basavaraja from ARS Bidar provided detailed insights into monsoon rain patterns and weather conditions, which are crucial for effective crop planning. This information is vital for farmers to time their planting and other agricultural activities accurately.

Mr. Dhanraja V.S., Technical Officer from the Soil Science Lab at KVK Bidar, explained the importance of soil testing and how to apply nutrients based on the test results. His session aimed at helping farmers understand the precise nutrient requirements of their crops, ensuring optimal growth and productivity.

Dr. Gnanadeva Bulla shared his expertise on the selection of crop varieties, seed treatment, and farming methods. He also provided extensive information on seed production for soybeans and other pulses, highlighting techniques that can boost both yield and quality.

Focusing on ginger cultivation, Dr.

Ningadalli Mallikarjun, Scientist (Horticulture), discussed land preparation, seed nodule treatment, and the symptoms and management of micronutrient deficiencies in ginger. His guidance is expected to help farmers improve their ginger crop outcomes significantly.

Dr. Sunilkumar also spoke about Integrated Plant Protection Management in major crops during the late monsoon, offering strategies to protect crops from pests and diseases effectively.

Finally, Mr. Nilanjana, ADH from the Horticulture Department, informed the farmers about the benefits of using biofungicides like Trichoderma and Pseudomonas in horticulture and commercial crops. Farmers participating in the training expressed their enthusiasm by purchasing these biofungicides, reflecting their commitment to adopting sustainable agricultural practices.

Overall, the training provided comprehensive knowledge and practical solutions, equipping farmers with the tools needed to enhance their productivity and sustainability in the face of the upcoming monsoon season.

ICAR KVK, Chamarajanagara

Training cum awareness programme on Importance of Fruits and Vegetables in daily diet

One day training cum awareness programme on "Importance of Fruits and Vegetables in daily diet" was organized at ICAR-KVK Chamarajanagara on 28.05.2024. Dr. Deepa. J, Scientist (Home Science) provided information on the importance of fruits and vegetables, balanced diet and Recommended Dietary Allowance (RDA) with a focus on nutrition education and establishment of nutrition garden for meeting nutritional needs of farm families. Brief information on raising the vegetables and fruit crops in rural home backyards was provided with a view to curtail expenditure towards purchasing the family need vegetables from external source and improving nutritional security of the family, especially women and children. Dr. Mohan Kumar,A.B, Scientist (Horticulture) detailed the practices to be followed while establishing nutrition garden and to obtain quality produce. He also provided information pertaining to cost of establishment and income particulars stressing utilization of local resources for the establishment and management, thereby reducing dependence on outside sources and also effective turnout of farm waste as a nutrient source for meeting kitchen garden needs. A total number of 30 farm women participated in the programme.



ICAR - KVK, Chikkaballapura





ICAR-KrishiVigyan Kendra, Chikkaballapura organized a training and awareness programme on Energy Efficient pumps and Water conservation on 28.05.2024. Dr. Papireddy, Senior Scientist and Head explained about importance of BEE star irrigation pumpsets, Dr. Tanweer Ahmed, Scientist (Agricultural Extension) highlighted about PM-KUSUM programme and energy saving tips, Dr. Sandhya, Scientist (Soil Science) delivered a lecture on water conservation techniques and Dr. Praveenakumar emphasized on sensor based irrigation in horticulture crops. 50 farmers participated in the programme.

ICAR - Krishi Vigyan Kendra, Chikkamagaluru

Celebration of World Bee Day 2024

World Bee Day, was celebrated on 20-05-2024 at KVK, Chikkamagaluru under the theme of "Bee engaged with youth" underscores the need to involve young people in bee keepingand conservation efforts to ensure the future of these vital pollinator to make people aware of the role of bees and other pollinators in maintaining the health of our planet and ensuring food security. It also aims to promote biodiversity and sustainable agriculture.

Dr. SuchithraKumari M.H., Scientist (Plant Protection) spoken about the various pollinating agents, honey bees play a very important role in pollinating oilseed crops. The honey bee pollination not only results in higher yields, it also gives a better quality of produce, and the efficient pollination of flowers also serve to protect the crops against pests.

Dr. Shiva Prasad M., Associate Director of Extension, ZAHRS, Mudigere explained about the Bee keeping helps in cross pollination of flowers of crop plants, since pollens are transferred from one flower to another by bees while they are collecting the nectar.

Mr. Poornesh H.K., President, Farmers Producer Organization, Mudigere briefed about





the honey has some help benefits such as weight Management,Strengthens Immune system, Nourishes skin and face, Boosts memory, Home Remedy for Cough, Natural home remedy for Dandruff, Used for Healing Wounds and Acts as a Natural Sleeping Aid.

Dr. SuchithraKumari M.H., Scientist (Plant Protection)welcomed the guests and participants and vote of thanks by Dr.Prashantha G.M., Scientist (Soil Science).

During this occasion capacity building programme on scientific bee keeping was organized toRuralunemployed youths of Chikkamaglauru district inorder to take up bee keeping as an enterprise, to generate the employment for their livelihood security. A total 35 rural youths participated and got benefited the training programme.

ICAR - Krishi Vigyan Kendra, Chitradurga

World Honey Bee Day Celebration

World Honey Bee day programme was organized at ICAR Krishi Vigyan Kendra, Babbur farm, Hiriyur on 20-05-2024.

Dr. Kumara O., Senior Scientist and Head inaugurated the programme and during his inaugural speech he discussed about the importance of World Honey Bee day and the main activity of bees is pollination, which is an fundamental process of survival of the ecosystem. Most of the flowering plants depend on honey bee for pollination, so bees are considered as a key factor in conservation of bio diversity. To raise the awareness on importance of pollinators Honey bee day has been celebrated on 20th May every year.

Dr. Hanumantharaya, Professor (Agril. Entomology), ZAHRS, Babbur farm participated as chief guest during the programme and he discussed about the health benefits of consuming



Honey regularly. He also discussed about the various bi products Apiculture such as Propolis, Bee Wax, Rooyal jelly etc., and their benefits.

Dr. S. Onkarappa, Scientist (Plant Protection), KVK, Babbur Farm was present during the programme and during his speech he briefed about taking up Apiculture as a subsidiary occupation for income generation. Suggested the participants to take up the activity by quoting the example of Mr. Byreshappa, Vaderahalli, Holalkeretaluk who is successfully running the apiculture unit and making good income out of it.

Mr. HanumanthNaik, Field Assistant, ZAHRS hosted the programme and aroung 30 farm women were present during the programme.

Krishi Sakhi Module II training programmes 3rd and 4th Batch

A six days training programme of Module II for community resource persons (Krishi Sakhi's) of NRLM project on environment friendly agricultural practices was organized at KVK, Chitradurga from 20-05-2024 to 25-05-2024 and 27-05-2024 to 01-06-2024 in collaboration with K.S.L.P.S.- Sanjeevini, ZillaPanchayath, Chitradurga.

The programme was inaugurated by Dr.O.Kumara, Sr. Scientist and Head, KVK during his inaugural speech discussed in detail about Module II training topics and their importance. He also briefed about the importance of acquiring various skills such preparation of Jeevamrutha, Beejamrutha etc, seed treatment methodology, vermicomposting, identification of various insects and pests indifferent crops, their damage symptoms as practical sessions. He also One day exposure visit will be arranged to **Jeeni**company near Sirataluk a Production unit of Millet based value added products of millets. He also suggested the participants to do well in the Exam which will be conducted during the last day of the training programme.

Dr. S. Onkarappa, Scientist (Plant Protection) welcomed all to the inauguration programme and also briefed the introductory speech about the



Module II training programme. Dr. Saraswathi J.M., Scientist (Home Science) extended tha vote of Thanks. Mrs. GeethaKumari B N., Sr. Technical Officer hosted the programe. Dr. Ravi Kumar, Scientist (Soil Science) and Dr. Mahantesh, Scientist (Horticulture) and 30 Krishi Sakhi'sfor 3rd batch (20-05-2024 to 25-05-2024) and 21 Krishi Sakhis during 4th batch (27-05-2024 to 01-06-2024) were present during the programme.



ICAR - Krishi Vigyan Kendra, Dakshina Kannada

Dakshina Kannada Farmer Conferred with Padma Shri Award

ICAR- Krishi Vigyan Kendra, Dakshina Kannada nominated contact farmer Shri Satyanarayana Beleri hailing from Nettanige a small, quaint hamlet located in the district of Kasargod, the Northern most part of Kerala bordering Karnataka, who transformed in topaddy conservatorhad participated in '**Padma Shri**' award investiture ceremony held at **Darbar Hall, Rashtrapati Bhawan**, New Delhi on 09th May 2024 along with our KVK staff Dr. Mallikarjuna L. Scientist (Soil Science).Sathyanarayana with single-minded devotion is thus, trying to preserve this seed heritage, that too without any monetary returns or rewards. Now with this background at this most opportune juncture, ICAR-Krishi Vigyan Kendra, Dakshina Kannada is proud to present Shri. Sathyanarayana Beleri for prestigious civilian award '**Padma shri**'.President of India has conferred the '**Padma Shri**' awardon Sathyanarayana Beleri in recognition of his **exceptional and distinguished service** in the field of **Agriculture.**Shri Satyanarayana's invaluable collections include some of the oldest varieties of Kerala grown during pre-independent era such as Aryan, Chitteni, Kayama, Parambuvattan, Thekkencheera; important varieties with medicinal properties such as Navara, Rakthasali, Karigajavali, Chakayoporiyatt and so on.

Besides this, he is also conserving important traditional varieties of areca nut, nutmeg, black pepper and jack. Further, he is an apiarist and has the skill in grafting/budding of plants. He had a chance encounter, more than a decade ago, with the Gandhian and pioneering organic farmer Cherkady Ramachandra Rao in Udupi district, Karnataka made him turn to conservation to start with traditional Rajakayama paddy seeds, a variety requiring less water. Later, with increased interest and commitment he travelled across Karnataka, Kerala, and Tamil Nadu to collect seeds of traditional rice varieties. Thus, what started as a hobby became a passion for Sathyanarayana and at present preserving more than 650 traditional paddy cultivars of Karnataka and Kerala States.



ICAR- Taralabalu Krishi Vigyana Kendra, Davangere



Demonstration of Onion Variety AFDR

ICAR-TaralabaluKrishiVigyan Kendra conducted off campus training programme for the beneficiaries of Tribal Sub plan under the collaboration with National Bureau of Agricultural Insect Resources, Bengaluru on **"Integrated Crop Management in Onion".** Mr. Basavanagowda M.G., Horticultural Scientist, gave details on **production technology of Agri Found Dark Red Onion** Seeds, methods of seed treatment and seed sowing. 2 kg seeds of AFDR was provided to 15 farmers for the demonstration. Technologies like use of Arka vegetable special, use of yellow and blue sticky traps, use of vegetable trap crops was explained to the demonstration partners.

Mr. Basavanagowda M. G.
SMS (Horticulture)

Training on Storage Pest Management and Nutrigarden

ICAR-TaralabaluKrishiVigyan Kendra in collaboration with ICAR-National Bureau of Agricultural Insect Resource, Bengaluru conducted training programme on insect storage pest management nutrigarden for the beneficiaries of TSP project at Basappanahatti village of Jagalurtq. Mr. Basavanagowda M.G., Horticulture Scientist, gave details on organic management practices to be followed in Nutrigarden and steps to follow ecofriendly management practices under kichen garden. Dr. Devaraja T.N., Senior Scientist Cum Head gave details about the activities followed under the TSP project in collaboration with ICAR Institute. Dr. Avinash T.G., delivered lecture on use of storage insect trap under domestic use.Nutrigarden kit along with insect storage probe trap was provided to forty beneficiaries

Mr. Basavanagowda M.G.

Horticulture Scientist



Method Demonstration on Use of Trichocards in Cotton and Maize Ecosystem

ICAR-TaralabaluKrishiVigyan Kendra in collaboration with ICAR-National Bureau of Agricultural Insect Resources Bengaluru conducted special training to TSP beneficiary farmers on use of Egg parasitoid *Trichogrammaspp* in Cotton and Maize ecosystem at Basappanahatti



village of Jagalurutaluk. Dr.Avinash T. G. SMS (Plant Protection) demonstrated Trichocards usage by cutting a trichocards into 12 to 16 bitsand

stapling to lower side of leaf of plant. Further, he said that we need to carry out field release during morning or evening hours to avoid direct exposure to sun light and to get effective emergence of adults. Demonstration was conducted in Cotton to manage boll worm complex and in Maize against fall armyworm. Mr.Basavanagowda M. G. SMS (Horticulture) said that bio agents are eco-friendly ways of managing pests farmers should practise these methods before using chemical method.

Dr. Avinash T.G.

SMS (Plant Protection)

ICAR-Krishi Vigyana Kendra, Dharwad

Participation in NICRA Workshop by ICAR-KVK, Dharwad Scientist

Dr. U. K. Shanwad, Scientist (Agronomy), ICAR-KVK, Dharwad participated in the NICRA Review 2023-24 cum Action Plan Workshop 2024-25 held at ICAR-KVK, Wayanad organized by ICAR-ATARI, Bengaluru from 23-24 May 2024. The Scientist (Agronomy) presented the Action Plan 2024-25 including Demonstrations on Climate Resilient Technologies from ICAR-KVK, Dharwad.







Orientation programme on HDPS System in Cotton

Orientation programme on HDPS system in cotton cultivation under Special Project on Cotton was organized at Shanwad village in Navalagund taluk on 31.05.2024 by Dr. U. K. Shanwad, Scientist (Agronomy), ICAR-KVK, Dharwad. Scientist (Agronomy) briefed about advantages of high density planting system by increasing the number of plants per unit area by the selected genotype (Rasi Seeds Pvt. Ltd.), HDPS not only increases yield levels of cotton, it also makes synchronization in boll opening so that within two pickings cotton harvesting will be done. This saves the labour cost and time also. Under the project, we are taking care of seeds, IPM inputs and Mepiquat Chloride a growth retardant which promotes branching and there by more number of bolls. For this project manual operated seed drill is procured from private firm from Bengaluru. A farmer can sow cotton seeds of about 4-5 acres a day. About 15 farmers participated in the orientation programme.

ICAR-Krishi Vigyana Kendra, Ernakulam

KVK Ernakulam conducts awareness class on technologies popularized by Kerala KVKs

On May 24, 2024, Shri Shoji Joy Edison, Subject Matter Specialist of Ernakulam KVK, conducted an awareness program on "Technologies Popularized by Kerala KVKs" on the occasion of the Monthly Technology Advisory meeting of Agricultural Technology Management Agency (ATMA). The event took place at the Ernakulam Collectorate and saw the participation of Assistant Directors of Agriculture, Agriculture Officers, Block Technology Managers, Assistant Technology Managers, and Crop Health Management officials from the Ernakulam district.



ICAR- Krishi Vigyana Kendra, Gadag

Scientists and Mango Growers Interaction Meet

ICAR-K. H. Patil Krishi Vigyan Kendra, Gadag organised Scientists and Mango growers interaction meet on 13-05-2024 to address problems like high incidence of pests and diseases along with abiotic stresses leading to lower productivity from last 3-4 years in Gadag district. Eight Scientists from University of Horticultural Sciences, Bagalkot, Indian Institute of Horticultural Research, Bengaluru and University of Agricultural Sciences (GKVK), Bengaluru, discussed with mango growers of Gadag district. SMS, Horticulture from KVK, Gadag and officials



from Karnataka State Department of Horticulture, Gadag District explained the problems associated with low productivity of mango crop in Gadag district.

The meeting focused on improvingmango yields,which have declined in recent years. Scientists emphasized the importance of scientific orchard management practices such as soil and water conservation techniques, planting of

different mango varieties for better pollination, canopy management, nutrient and irrigation management, intercrops and cover crops in mango orchard,use of PGRs in mango crop, timely pest and disease management aspects, post harvest handling and management. Further, the recent technologies released by ICAR-IIHR, Bengaluru and UHS, Bagalkot were also discussed in the meeting with respect to Mango cultivation.

Thediagnostic visit of scientistswere made to orchards of mango growersand scientists explained the scientific orchard management practices to the farmers. President of Gadag District Mango Growers Association and 56 mango growers were participated in the interaction meet and got useful information.



ICAR - Krishi Vigyana Kendra, Hassan

Krishi Sakhi Training Programme

ICAR-KVK, Hassan organized the six days training programme on "Agro Ecological Practices" for Community Resource Persons (Krishi Sakhi) of Farm Livelihood Training programme in collaboration with SANJEEVINI- Karnataka State Rural Livelihood Promotion Society and Department of Skill Development, Entrepreneurship and Livelihood, Government of Karnataka at KVK Hassan from 20-05-2024 to 25-05-2024. The inaugural function of this training programme has happened on 25-05-2024.

Mr. Kishore Kumar, District Manager, NRLM, Hassan has inaugurated the programme and in his inaugural speech he said that participants of this programme should transfer the technology in effective manner, kirshi sakhi's should encourage integrated farming systems in the farmers field and help them to achieve sustainability in their income. He also mentioned the objectives, motto, roles and aim's of **SANJEEVINI and Kirishi sakhi's.**

Dr. Rajegowda, senior scientist and head, KVK, Hassan has chaired the programme and during his presidential remarks he said that trainees should understand the importance of climate change before transfer the technology to the end users and also encourage group marketing rather than individual marketing of products because it will fetch more profit to the farmers.

Dr. Sanketh, C. V. Scientist (Agril. Extension), KVK, Hassan has made introductory remarks. Dr. M. Shivashankar, Dr. Nagaraja, T., Dr. Srinivas Deshpande, Dr. Arunkumar, Dr. Pallavi,



N., Scientists, KVK, Hassan and 30 participants were present in the programme. The programme was anchored by Dr. Sakamma, S., Farm manger, KVK, Hassan.

Contributor:

Dr. Sanketh, C. V. Scientist (Agril. Extension)

Dr. Rajegowda, Senior Scientist and Head



ICAR- Krishi Vigyan Kendra, Idukki

Capacity Building Programme on Integrated Nutrient Management in Turmeric and awareness campaign on Environmental day protection measures and under taken pledge related to Meri Life at Periyar Tiger Reserve, Thekkady

Capacity Building Programme on Integrated Nutrient Management in Turmeric and Environmental Day Protection Day Pledge was organized on 18.05.2024 Bamboo groove Hall, at Periyar Tiger Reserve, Thekkady. Tribal farmers from Eco Development Committee like Mannamkudy and Vanchivayal were selected farmer beneficiaries for the programme. These farmers for the past years are cultivation old varieties of Turmeric in their farm land. In association with Forest department, KVK Idukki provided technical guidance in introducing new high yielding varieties of Turmeric and its fertility management practices. Ms. Ashiba A, SMS Agronomy conducted the capacity development programme

Ms. Preethu K Paul, SMS Agricultural Extension, ICAR - KrishiVigyan Kendra, Idukki organized awareness campaign on



Environmental day protection measures and undertaken pledge related to MeriLiFE.MeriLiFE empowers individuals to lead a sustainable lifestyle by making pro-planet choices in their daily lives. The app is inspired by the concept of LiFE, introduced by the Honourable Prime Minister at COP 26, which emphasizes mindful and deliberate utilization instead of mindless and wasteful consumption. The Meri LiFE mobile application aims to enable a greater community of young people to emerge as Pro-Planet-Persons, changemakers and solution providers towards some of the greatest environmental problems we are confronted with today, through physical mediums. Meri LiFE is a marketplace where young people can explore their interests, find Climate Change and Environmental Sustainability focused opportunities that match their interests, and sign up to act on issues that matter the most to them. In this way, through Meri LiFE, YuWaah will thus activate young people as change makers in their

communities, to lend their creativity, grit, and power to have social and environmental impact. The matters were shared during the awareness campaign at Thekkady.



ICAR-Krishi Vigyan Kendra, Kalaburgi - II

Kharif Seed Day And Capacity Development Programme

Seed Day and Training Program were organized on 27-05-2024 at ICAR- Farm Science Centre, KVK-Kalaburagi-II (Raddewadgi). In this training program Dr. P. Vasudeva Naik, Senior Scientist and Head, in his introductory speech informed about the objective of the program and the facilities available at the center and said that every year good quality seeds are available in this center, farmers should take advantage of it. He expressed his heartfelt desire that the farmers should get good crop and good profit in this year because of good monsoon forecasting and discussed with the farmers and answered their various questions in a reasonable manner. Also, he said that our ICAR-Farm Center is always ready to help the farmers at any extent.

Dr. Chetan T, Scientist (Horticulture) said that as the monsoon is coming earlier this year than the previous years, there is a possibility of heavy rainfall and precautionary measures should be followed. And he explained in detail about seed



treatment importance and method demonstration were conducted with witnessing of 150 farmers were benefited from Jewargi, Sindhagi, Lingasugur, Vijayapur and Mudebihal.

Chief guestof this programmeDr. Umesh Barikar, Extension Leader,Nalawar, hestressed conservation of soil and water and sowing across the slope, making arrangements to drainage so that water does not stagnate in the event of heavy rains. He suggested that Samapatala embankment should not be destroyed but should be utilized.

Mrs. Farzana MK Senior Technical Officer (Soil Science) said that soil and water testing is very necessary in today's situation. Every farmer should get the soil test in every thrice year she added.

Mr. SanjeevakumarPatila, Technical Officer (Computer) expressed all the farmer to register their name, mobile and village in the **kisan sarathi** portal. So that the farmers get day to day activities of farming situation.

Som of the farmers also expressed the happiness about KVK activities and supplying of good quality seeds every year.

The programme anchored by Mr. M. C. Patil, Technical Officer (Farm Manager) and lastly program ended with vote of thanks by Mr. Sanjivakumar Patil, Technical Officer (Computer).



ICAR- Krishi Vigyan Kendra, Kannur

Training on Scientific Cultivation of Ginger and Turmeric

KVK Kannur conducted a training on scientific cultivation of ginger and turmeric for farmers under Scheduled Caste Sub Plan (SCSP programme) on 17th May 2024.



Dr. Jayaraj P., Senior Scientist and Head, KVK inaugurated the training programme. In inaugural speech Dr. Jayaraj briefly explained about the successful implementation of SCSP programme in the previous year and discussed about the production plan for ginger and turmeric under SCSP programme Dr. Manju K. P., Assistant Professor (Entomology) briefly explained about the interventions planned under SCSP programme.



Smt. Renisha J. M., Assistant Professor (Horticulture) handled an interactive session on scientific cultivation of ginger and turmeric. Dr. Manju K. P. delivered a session on major pest and diseases of spice crops. Farmers shared their experiences in farming and feedback about the programme. Seeds of turmeric and ginger were distributed to the farmers. Forty four farmers attended the training programme.

ICAR- Krishi Vigyan Kendra, Kasaragod

"Bee engaged with SC Youths and Farmers" - Celebration of "World Bee Day ".

Apiary was recognized as an ideal enterprise for landless labours /farmers with small holdings and was taken up under SCSP activity aiming at socio economic upliftment among SC



communities. Under the auspices of ICAR-KVK, Kasaragod, beekeeping as a small enterprise for agricultural labours/youths and small farmers was initiated during January 2024. Around 11 Scheduled Caste beneficiaries where trained on Apiculture with provision of inputs such as beeboxes with colonies and tool kits. With the successful interventions of KVK all trained personnel have initiated apiary and have been able to reap their first harvest of honey.

Commemorating the occasion of "World Bee Day" the potential beekeepers were encouraged to sell the first lot of Honey produced @Rs 400/Kg at the venue of KVK, CPCRI, Kasaragod. Shri Vishwanatha of Karadka village of Kasaragod could harvest around 11 Kgs of Honey from 2 boxes after the intervention. He has also been a role model now for his fellow members in the colony. As per his observations as vegetable cultivator there is marked difference in quality of



vegetables produced. Further marking the day an Awareness programme was organized at Badiaduka on May 22nd,2024 involving all the trained SC beneficiaries highlighting the theme for the World Bee Day , 2024 "Bee engaged with Youth" . The SC beneficiaries have also been encouraged to take up or boost the vegetable cultivation through provision of vegetables kits and



seedlings of papaya and drumstick through KVK with the aim to foster diverse agricultural systems with reliance to organic farming practices to facilitate increased pollination. Significance of bees for improving food quality and quantity benefiting both human population and the ecosystem and the increasing threat to bee population due to human activities and the need to protect the same for future was the focus of World Bee Day.

(Authors: Dr. Manojkumar. T.S, Dr. Saritha Hegde, Dr. Benjamin Mathew, Dr. Neelofar Illiaskutty, Shri. K. Manikandan, ICAR-Krishi Vigyan Kendra, ICAR-CPCRI, Kasaragod.)

ICAR Krishi Vigyan Kendra - Kodagu

Anti rabies vaccination campaign at KVK Kodagu

ICAR-Krishi Vigyan Kendra, Karuna animal welfare trust, Bengaluru, dept. of AH&VS, Ponnampet and Veterinary Hospital, Gonikoppal jointly organized one day anti rabies vaccination campaign at KVK Gonikoppal on the eve of Basava Jayanti on 20th May 2024. The camp was inaugurated by Dr. A S Shantesh (retired), CVO Ponnampet and Dr. Chandrashekar (retired) AD, Gonikoppal. In the camp, the pets from Gonikoppal and neighboring villages were brought for Anti Rabies vaccination. Around 107 pets got vaccinated along with deworming. Dr. Suresh S C SMS, KVK Gonikoppal and Dr. Bhavishya Kumar, CVO Gonikoppal coordinated the programme.



Five-day training programme on Natural Farming for Krishi Sakhis at ICAR-KVK, Kodagu

ICAR- Krishi Vigyan Kendra, Kodaguorganised a five-day training programme on Natural Farmingfor Krishi Sakhis at ICAR-KVK, Kodagu from 27-31st May 2024. The programme was inaugurated by Shri. Maheshkumar Holla,EO, Ponnampet taluk. In his



inaugural address he mentioned the prospects and responsibilities at empowering farmers income. Shri. Sathish, C.P. Natural farming practitioner, Stowmarket shared his experience of farming with the trainees. The programme presided over and coordinated by Mr. Prabhakar, B. Head, KVK. The officials are from NRLM District Authority and KVK Scientists were in the programme. A total of Forty-five krishisakhisfrom Somwarpet and Madikeri taluk attended the training programme. A series of theory and practical sessions were held with suitable resource persons on natural farming. Dr. Rajendiran, Senior Scientist and Head, ICAR-CHES, Chettalli participated as a Chief guest and distributed the certificate to all the participants who successfully completed the training programme.



ICAR - Krishi Vigyan Kendra, Kolar

1. Six-day residential training program for "Pashu Sakhis" Module 2 & Module 3

ICAR-KVK Kolar in collaboration with Department of Animal Husbandry and Veterinary Sciences organized a six-day residential training program for "Pashu Sakhis" Module 2 & Module 3 from May 20 to 25, 2024 & May 27 to June 1, 2024 respectively. Dr. Ganga Tulasiramaiah, Deputy Director, AHVS Kolar inaugurated the function. Dr. Shivanand V. Hongal, Senior Scientist & Head, KVK Kolar presided over the function. Dr. Vijay Kumar Patil, and, Dr. Veena, Senior veterinary officers, Dr. Trimuthy Naik, Assistant Director KGF, Dr. Anuradha, Assistant Director Mulbagilu, Dr. Sudarshan, Assistant Director Karnataka Sheep and Wool Development Corporation LTD Kolar, Dr. Vishwanath, Veterinary Officer and KVK Scientists Dr. Manjunath Reddy T.B., Scientist (Plant Protection), Dr. Shashidhar K.R, Scientist(Sericulture) and Dr Asha K.M., Scientist (Horticulture), KVK staff, participated alongside 65 farm women trainees from Srinivaspur, Malur, Mulbagilu & KGF taluk have actively participated in the event. Dr. Anil Kumar S, Soil Scientist, coordinated the program.



1. Input distributors and Farmers Producers Organization(FPO) meet

ICAR-KVK Kolar in association with Sehgal foundation organized Input distributors and FPO's meet on 28.05.2024. Around 40 distributors from Seeds, Fertilizers and PP chemicals companies across the state and 300 farmers from 22 FPO's of Kolar district were participated. Smt. Suchi Singh from Sehgal foundation, Sri. Kumarswamy, DD (Horticulture), and Dr. Shivanand Hongal, SS&H were presided the meet.



1. Diagnostic visit to tomato fields

ICAR-KVK, Kolar Scientists, Dr. Anil Kumar S, Soil Science, Dr. Manjunath Reddy T.B., Plant Protection, and Dr. Asha K.M., Horticulture along with SADH Gudibande Krishan Murthy, visited tomato farmers' fields in Gundalahalli village of Gudibande Taluk, Chikkaballapura District, also a nursery who supplied seedlings to the farmer and seed dealers shop in Bagepalli Taluk on 28.05.2024. The crop was diagnosed with 80-90% of the very small sized fruits and abnormal in size.



1. Diagnostic visit to tomato fields



ICAR- KVK, Kolar Scientists, Dr. Shivanand V. Hongal, Senior Scientist and Head, Dr. Anil Kumar S., Soil Science, and Dr. Manjunath Reddy T.B., Plant Protection, along with SADH Kolar Ravi Kumar, visited tomato farmers' fields in Thirumala Koppa, Village of Vokkalleri Hobli, and Hodalavadi, Kasaba Hobli in Kolar taluk on 31.05.2024. Diagnosed that 25-30% of the fruits were small and abnormal in size and showed symptoms of Catface, a physiological disorder that results in the malformation and scarring of fruits. Suggested GMP practices to avoid this syndrome

ICAR-Krishi Vigyan Kendra, Kollam

Kollam district grappled with severe drought to save crops



Prolonged and extreme dry spell during the summer extended from first half of February to May 2024 has devastated the agrarian scenario of the district with acute shortage of water and severe hot sun which reached to a maximum temperature of 40^{0}C. February March is the critical crop growth stage for almost all the field and horticultural crops, where the water requirement is critical. Farmers are staring at a bleak future as the crops started wilting/drying leading to complete crop loss due to the non-availability of irrigation water especially in the eastern region of the district with undulating topography. Vast acreage of farm land including plantains, paddy, pepper, vegetables had experienced severe drought and wilted under the extreme heat waves. Juvenile coconut and arecanut plants were severely affected by scorching sun. Farmers of Kollam district experienced the worst drought in the current year after four decades. KVK Kollam supported the partner farmers with good hand holding through appropriate advisories through social media and agromet advisories. Crop loss assessments in Kollam district were conducted by the scientists of KVK, Kollam at their respective blocks through their block level agriculture knowledge centres (BLAKC) along with the department officials of State agriculture



department (GOK). Rice farmers experienced poor grain filling leading to serious yield losses. Similarly in young banana plants high temperature caused poor growth and pseudostem collapse. While matured plants resulted in deformed bunches and low yield. Pepper farmers also experienced a worst crop loss due to severe drying up of yielding vines.



ICAR - Krishi Vigyan Kendra, Koppal

Inauguration of certificate course on integrated nutrient management (CCINM) for fertiliser dealers

Certificate Course on Integrated Nutrient Management (CCINM) for Fertilizer Dealersis a compilation of different aspects of Integrated Nutrient Management contributed by the scientists and extension professionals from MANAGE, ICAR institutes, government organizations and line departments.ICAR KVK Koppal along with MANAGE, Hyderabad organised inauguration programme of certificated course on integrated nutrient management (CCINM) for fertiliser dealers on 29.5.2024 at KVK. The programme was inaugurated by the assistant director of agriculture Sri Santosh Pattadkal by lighting the lamp and he explained that integrated Nutrient Management (INM) is helping the farmers in restoring the soil fertility, sustaining the crop productivity and minimizing the cost of crop production. Creating awareness among the farmers for judicial application of fertiliser is therefore essential. Fertiliser / input dealers play a major role in disseminating appropriate technical knowledge on fertiliser management to the farmers. Dr. Raghvendra Yaligar Senior Scientist and Head explained in detail about the certificate course on integrated nutrient management (CCINM) for fertiliser dealers. He also stated that Fertiliser plays an important role in crop production. However, farmers are applying indiscriminate quantity of fertiliser which affects soil, water and environment, besides, increase in cost of production. Moreover, non-judicious use of fertiliser leads to decrease in soil fertility and decline in crop yield. About 30 fertiliser dealers were present in the programme.



ICAR - Krishi Vigyan Kendra, Kottayam

Training on scientific practices of vegetable cultivation under sc sp programme

One day training on scientific practices of vegetable cultivationwas conducted for SC members of Thalayazhampanchayath. Thirty Two farmers including eighteen women attended the programme. Technologies to overcome intricacies due to climatic vagaries were discussed in detail. The participants interacted about problems faced by them during vegetable cultivation. Vegetable seeds of high yielding varieties of cowpea, brinjal, and chilli were distributed to the farmers.



Importance of integrated approach for pest and disease management was discussed. Bio inputs and bio control agents were also distributed and their benefits and method of application were elaborated to the participants. The farmers were motivated to take nutritive diet and meet their requirement of vegetables from their homesteads.





Multi Disciplinary Diagnostic Team visit

As per the request from the State Department of Agriculture in the Monthly Technological Advisory meeting conducted at KVK Kottayam, Multi Disciplinary Team visits were conducted to Wagamon panchayat and Puthupallt panchayats to diagnose the problem in banana fields of farmers and suitable recommendations were given. Field



visits were also conducted to assess the damage due to drought condition that affected crop yield of rice in Madapallu Block.

Prepared by: Dr. Bhindhu P. S. SMS (Soil Science)

ICAR - Krishi Vigyan Kendra, Kozhikode

Capacity development programmesorganized at KVK

Various capacity development programmes were organized at KVK during the period as detailed below.

a) Garment making

A training programme on Garment making for one month was conducted for rural women at KVK in which 11 rural women from nearby villages Muthukad and Chembanoda participated. The sewing methods of kids wears, ladies wears, uniforms and functional apparels were included in this training. The course certificate was also given to the trainees who have successfully completed the training.



b) Bush pepper production and cultivation

Bush pepper is the flagship programme of KVK and in order to popularize the technology, a sponsored training on Bush pepper production and cultivation was organized in association with Krishi Bhavan, Panangad on 16.5.2024 at KVK. Practical training was imparted to the trainees on various aspects bush pepper production followed by visit to a progressive farmers' filed. A total of 23 farmers attended the programme.





c) Plant propagation techniques

A training programme on Plant propagation techniques was organized at KVK on 17.5.2024 with emphasis on “hands on”sessions on various propagation techniques. A total of 20 farmers attended the programme from various parts of Kozhikode district.



ICAR - Krishi Vigyan Kendra, Malappuram

Compiled by Dr. Najitha Ummer, Asst. Professor(Agrl. Entomology), Dr. Akhilraj B.C, SMS(Horticulture), Dr. Adarsh S., SMS(Agronomy)

NICRA Annual Review 2023-24 Cum Action Plan Workshop 2024-25 Held for KVKs of Karnataka, Kerala, and Lakshadweep

KVK Malappuram participated in the NICRA Annual Review 2023-24 Cum Action Plan Workshop 2024-25 for the Krishi Vigyan Kendras (KVKs) of Karnataka, Kerala, and Lakshadweep which was successfully organized by KVK Wayanad on May 23-24, 2024. The represenatative of KVK Malappuram, Dr. Akhil Raj B. C., SMS Horticulture presented the activities proposed for climate resilience in agriculture in Malappuram district for the year 2024-25. He attended the two-day workshop focused on reviewing the progress of the previous year and strategizing the action plan for the upcoming year to enhance climate resilience in agriculture.



International Day for Biological Diversity Commemoration at KVK Malappuram

On May 22, KVK Malappuram celebrated the International Day for Biological Diversity. Dr. Priya G. Nair, Programme Coordinator, KVK Malappuram commemorated the day by planting a Cape leadwort (Plumbago auriculata). The watering of the plant was done by Dr. Ibrahim Kutty, Assistant Professor, Animala Science, KVK Malappuram. The theme of this year is “Be part of the Plan' ie, to call an action for all stakeholders to halt and reverse the loss of biodiversity by supporting the implementation of the Kunming-Montreal Global Biodiversity Framework, also referred to as the The Biodiversity Plan. The program was attended by other subject matter specialists and staffs.



Multidisciplinary Diagnostic Team to ensure disease-free pepper seedlings for farmers

A multidisciplinary diagnostic team led by Dr. Najitha Ummer, SMS Plant Protection, and Dr. Akhil Raj B. C., SMS Horticulture, recently conducted a comprehensive inspection of pepper seedlings at the State Seed Farm, Tavanur, and the Coconut Nursery, Parappanangadi. This visit was part of the ongoing efforts by the Department of

Agriculture to ensure that only disease-free and healthy seedlings are distributed to farmers through krishibhavans.

During the visit, the team meticulously examined the pepper seedlings for any signs of disease or pest infestation and gave proper advice on the good practices to be adopted to maintain the growth and healthy condition of seedlings.



Training to DAESI (Diploma in Agricultural Extension Services for Input Dealers) participants

On May 29, 2024, Dr. Najitha Ummer conducted an insightful training session for DAESI (Diploma in Agricultural Extension Services for Input Dealers) trainees, focusing on the integrated management of stored product pests. This event was organized collaboratively by ATMA and ARS Anakkayam and aimed at equipping agricultural input dealers with the knowledge and skills necessary to manage constraints in agricultural production.

Dr. Najitha Ummer, an expert in plant protection, highlighted the importance of managing stored product pests to minimize post-harvest losses and ensure food security. The session covered a range of topics, including the identification of common pests, their life cycles, and the damage they cause to stored products.





ICAR - Krishi Vigyan Kendra, Mandya

Natural farming- Avenue for ecological and economical sustainability

Recent trends in farm sector catching an importance for natural farming in the country. Farm youth who were come back to their native places have shown interest in farming that too in natural farming. In this line Mr. Vikas Budanuru a graduated farm youth has created vibrant crop cafeteria in his land by practicing natural farming. He is cultivating field crops like sugarcane, ragi, minor millets, planatations like coconut, areacnut and fruit crops like Mango, Sapota, Gauva along with that he is growing leafy vegetables Amaranthus, Coriander, Mint, Palak, Fenugreek throught the year. He is getting better price in the market with two strategies viz., primarily his farm produces are organic and later part is he has practiced direct marketing strategy to reach the consumers. The Scientists from ICAR- KVK, VC farm Mandya has identified his efforts and strategies and encouraged him to develop value added products in millets, tamarind processing, drumstic powder, Jaggery production, pepper value addition. Dr. Divya, B. Scientist (Horticulture) is frequently guiding to get better crop in natural farming, Dr. Suresh, D. K. has suggested him for direct marketing and entrepreneurial development at his farm. Dr. Naresh. N. T. Senior Scientist and Head has guided and supported him by popularizing his value added products viz., edible oil, mushroom products in the government melas and University Krishimelas.







ICAR JSS Krishi Vigyan Kendra, Mysuru

Energy and water saving training program at ICAR JSS KVK Mysuru

ICAR JSS Krishi Vigyan Kendra Suttur and Karnataka Renewable Energy Development Limited (KREDL) Bengaluru jointly organized training cum awareness program on energy and water saving on 21st May 2024 at training hall ICAR JSS Krishi Vigyan Kendra Suttur. The program was inaugurated by Dr Mahadevaswamy, Principal Scientist (Agronomy), CTRI, Hunsur Mysuru and presided by Smt. H V Divya incharge head of ICAR JSS Krishi Vigyan Kendra Suttur. Dr. Mahadevaswamy, Scientist from CTRI, Hunsur as a resource person, briefed about importance of water, sources of water, soil and water conservation measures in agriculture, agro forestry. Smt. H V Divya incharge head of ICAR JSS Krishi Vigyan Kendra Suttur explained about saving of energy in day today life. KVK scientist Shri. Shamaraj gave lecture on use of renewable energy source like solar energy as alternate source for non-renewable sources like petrol, diesel, coal and fossil fuels and also explained about solar pumpset and subsidy from government. Nearly 65 farmers participated in the training program.



Renewable energy and water saving training program at ICAR JSS KVK Mysuru

ICAR JSS Krishi Vigyan Kendra Suttur and Karnataka Renewable Energy Development Limited (KREDL) Bengaluru jointly organized training cum awareness program on energy and water saving on 31st May 2024 at training hall ICAR JSS Krishi Vigyan Kendra Suttur. The program was inaugurated by Shri. Basavana, Progressive Farmer, Ayaralli and presided by Smt. H V Divya incharge Head of ICAR JSS Krishi Vigyan Kendra Suttur. Shri. Basavana, Progressive Farmer from Ayaralli, briefed about importance of solar pumpset for irrigation in agriculture. Shri. Anjanappa, agronomist NETFIMA irrigation India PVT. Ltd. explained about drip irrigation system and automation in drip irrigation. Smt. H V Divya incharge head of ICAR JSS Krishi Vigyan Kendra Suttur explained about saving of energy in day today life. KVK scientist Shri. Shamaraj gave lecture on use of renewable energy source like solar energy as alternate source for non-renewable sources like petrol, diesel, coal and fossil fuels and also explained about solar pumpset and subsidy from government. Nearly 65 farmers participated in the training program.





Felicitation program to Mysuru DFI (Doubling Farmers Income) farmers in ICAR JSS KVK Suttur

ICAR JSS Krishi Vigyan Kendra Suttur has organized felicitation program to Mysuru DFI farmers on 21st and 31st May 2024 at ICAR JSS KVK campus Suttur. Dr. Mallikarjun B Hanji, Principal Scientist, ICAR ATARI Bengaluru participated as chief guest of the program and the program was presided Smt. H V Divya incharge Head of ICAR JSS Krishi Vigyan Kendra Suttur. Chief Guest of the program Dr. Mallikarjun B Hanji facilitated to DFI farmers of Mysuru district along with KVK scientist. Nearly 60 DFI farmers have been felicitated by KVK on 21st may 2024 and remaining DFI farmers are felicitated on 31st May 2024 by distributing honour of certificate and a moment to each DFI farmers. KVK has honoured 110 DFI farmers in the district.





ICAR - Krishi Vigyan Kendra, Palakkad

Reception Of Golden Jubilee Torch By Kvk Palakkad

On May 27, 2024,KrishiVigyan Kendra Palakkad celebrated the golden jubilee of the KVKs with the reception of the Golden Jubilee Torch from KVK Thrissur. In a vibrant ceremony, Dr. Mary Regina F., Senior Scientist and Head of KVK Thrissur, handed over the torch to Dr. Sumiya K.V., Senior Scientist and Head of KVK Palakkad. Dr.Raji.P.,Associate Director of Research RARS Pattambi, Smt. Sheena, Project Director, ATMA Palakkad, heads of various research stations and other eminent scientists, officials from the Department of Agriculture participated in the programe. The program was attended by 300 farmers from Palakkad, Malappuram, Ernakulam, and Thrissur District. During the celebration, small processing machineries were givenfor the empowerment of two Scheduled Caste (SC) women entrepreneur groups under the Scheduled Caste Sub Plan (SCSP) programme. Mementos depicting the golden Jubilee celebration of KVKs were also distributed to the dignitaries and selected farmers present at the function. To further mark this significant milestone, KVK Palakkad will be organizing an Agricultural Technology Week from May 28 to June 5, showcasing various advancements and innovations in agricultural practices.



Skill Development Programme on Nrursery Management for women





To mark the golden Jubiee celebration of KVKs, KVK Palakkad is organizing a 15 day skill development certificate programme for women in collaboration with FPO SOFPCO (Sreekrishnapuram Organic Farmers Producer Company). The training is being conducted in collaboration with MED programme funded by NABARD. The training intents to cover various aspects of nursery entrepreneurship such as nursery set up, handling of planting stock, marketing aspects , book keeping , finance and inventory management and economics . The training also involve s hands on experience on various propagation techniques, terrarium and kokadama techniques, indoor and vertical grading, landscaping, aquascaping etc.

ICAR-Krishi Vigyan Kendra, Pathanamthitta

WORLD BEE DAY 2024





KVK, Pathanamthitta, celebrated World Bee Day on 20th May 2024, to commemorate the theme of the year, "**Bee Engaged with Youth**". Thisemphasises the pivotal role that young individuals can play in beekeeping and pollinator conservation efforts. As part of the occasion, an ex-trainees meet was organized, bringing together entrepreneurs trained by KVK under the Beekeeping component of the ARYA (Attracting and Retaining Youth in Agriculture) project of ICAR, Govt. of India. Dr. C.P Robert, Senior Scientist and Head inaugurated the programme. He highlighted that by actively involving youth, we acknowledge their potential as future guardians of our environment. Our emphasis lies in nurturing a sense of responsibility and fostering a connection to nature among young minds. Additionally, we aim to harness their innovative ideas and fresh perspectives to address the challenges they encounter in establishing enterprises.

Mr. Anoop Baby Sam, a millionaire farmer affiliated with KVK, played a pivotal role as the resource person, leading the training session focused on the theme "Bee Engaged with Youth," while also striving to enhance knowledge on various beekeeping techniques. Dr. Alex John, SMS (Plant Protection) coordinated the programme.

ICAR-Krishi Vigyan Kendra, Raichur

ICAR-Krishi Vigyan Kendra, Raichur celebrates "World Honey Bee Day"

As we gather to celebrate World Bee Day, we recognize the invaluable contribution of bees to our environment, agriculture, and farmers' welfare. This event serves as a catalyst for promoting scientific beekeeping, fostering entrepreneurship, and ensuring the sustainable growth of the beekeeping sector in India. Not only do pollinators contribute directly to food security, but they are key to conserving biodiversity. To raise awareness of the importance of pollinators, the threats they face and their contribution to sustainable development, the UN designated 20 May as World Honey Bee Day. With respect to Agriculture and Horticulture crops, sustainability depends on the seed set and increased yields which are in turn dependent of the pollinators like honeybee. It is now apparent that most of the pulses and oilseeds, fruits and orchard crops including vegetables heavily depend on bees for their pollination. This is also true for seed production of vegetables like onion, cabbage, cauliflower, tobacco, sunhemp, clovers etc. The number of colonies of honeybees required per hectare very much depends on the strength of foraging bees in the colony, the crops and prevailing weather conditions. The optimum number of colonies of average strength may range from 3 to 9 colonies per hectare, since the bees usually forage within a radius of about 1 to 2 kilometers to harvest their nectar and pollen loads, and then return to their own hive.

Keeping in view the importance of the honeybees, ICAR-Krishi Vigyan Kendra, Raichur organized "World Honey Bee Day" in which around 30 participants were present. Dr. Shreevani G N, Scientist (Entomology) addressed the participants regarding the vital role played by the bees in agriculture, there crucial role in crop pollination alongside other pollinators such as bats, birds, beetles, moths, hoverflies, wasps, thrips, and butterflies. And those bees contribute to the global food supply *via* pollinating a wide range of crops, including fruits, vegetables, oilseeds, legumes, etc. Bee pollination improves the quality and quantity of fruits, nuts, and oils. Dr. Hemalatha K J, Scientist (Horticulture) explained about the role of bees in Horticultural crops and how they subsequently increase the productivity of these crops and also increase the quality and thereby in boosting food and nutritional security by improving the productivity of horticultural crops.





ICAR-Krishi Vigyan Kendra, Ramanagara

EVENT 1: Soil health Abhiyan

KVK Ramanagara conducted "Soil Health Abhiyan" at Pemmanahalli village,MagadiTalukand Bannikuppe village, Ramanagara talukto give awareness to farmers on importance of soil health card which provides nutrient status of soil along with prescription about balanced use of fertilizer to maintain good soil health. During this programme, Dr. Preethu, Scientist(Soil Science) demonstrated the soil sampling method at farmers field and highlighted the importance of balanced use of fertilizers based on soil health card recommendation. Also emphasized on use of both inorganic and organic source of plant nutrients and judicial use of chemical fertilizers. Other scientists of KVK briefed about water and agriculture waste management, improved cultivation practices of Ragi and Redgram, pest and disease management, use of different weather based app, IFS and nutrigarden for health of farming community. ATMA staff and more than 60 farmers/farm women were benefited by this programme.



Celebration of World Bee Day

ICAR-KVK Ramanagara in collaboration with Department of Agriculture, Ramanagara and IFFCO celebrated World Bee day-2024 on 20.05.2024 with the theme *"Bee engaged with Youth"atMaluru, Channapatna (T).*Dr. Rajendra Prasad B.S., Scientist (Plant Protection) outlined the importance of celebrating World Bee day on 20th May every year. He highlighted the main objective of the day that aims at acknowledging the roles played by the bees



and other pollinators in the eco system, especially in food security. Also briefed about the conservation of pollinator fauna, role of crop pollinators to enhance the crop productivity and scope of horticulture-based beekeeping for doubling the farmers' income. He also stressed on the importance of involving young people in beekeeping and pollinator conservation efforts, recognizing them as the future stewards of our environment. Mrs. Ambika, JDA, Department of Agriculture, Ramanagara, Mrs. Aparna, ADA, Department of Agriculture, Channapatna,Dr.Sowjanya, S., Scientist (Agril.Extension)and more than 50 farmers, farm women and extension functionaries participated in this program and were benefitted

ICAR - Krishi Vigyan Kendra, Shivamogga

World Honey Bee Day

ICAR-KrishiVigyan Kendra, Shivamogga celebrated **"World Honey Bee Day"** at Suranagi village of SorabaTaluk on 20-05-2024 with the theme *"Retaining Youth in Bee Keeping"*. The programme was inaugurated by **Dr. G. K. Girijesh**, Senior Scientist and Head, KVK, Shivamogga and he addressed the gathering to practice bee keeping as hobby which in turn it helps in higher pollination of crops and getting more yield. The good practices of bee keeping technical session was conducted by **Dr. R. Girish**, Scientist (Plant Protection).





Scientific bee keeping

On 6th and 7th May, 2024 organized 2 days on campus training on **"Scientific bee keeping"** for Rapid Police Team of Bhadravathitaluk with technical session on introduction, species of honey bee, types of boxes, traditional bee keeping, colony behavior, multiplication, pest and disease of honey bee, bee poisoning, bee flora and honey extraction along with practical session. A total of 20 military police force participated and enlightened their knowledge on bee keeping.

ICAR - Krishi Vigyan Kendra, Thiruvananthapuram

Awareness cum capacity building programme

World Bee day 2024 focused on the theme "Bee engaged with youth" which highlights the importance of involving young people in bee keeping was celebrated by ICAR- Krishi Vigyan Kendra, Mitraniketan. We organised a seminar on beekeeping on 20 May, 2024 to raise the awareness among youth and other stakeholders about the



essential role of bees and the pollinators in agriculture, ecological balance and biodiversity preservation. Senior Scientist & Head, Dr. Binu John Sam delivered key note address and emphasised that by engaging young people in beekeeping activities, educational initiatives and advocacy efforts we can inspire a new generation of environmental leaders and empower them to make a positive impact on the world. Oath was taken that participants will protect bees and includes honey in the daily diet during the occasion. Interaction with participants along with method demonstration of trapping of stingless bee colonies was also carried out as part of the programme with support of our master trainer, Shri. P Radhakrishnan. Certificates were distributed to the farmers' undergone long duration training on Apiculture 2023-24 was the highlight of the programme. Smt. Bindhu R Mathews, Subject Matter specialist delivered a talk on importance of beekeeping.





ICAR - Krishi Vigyan Kendra, Thrissur

PUNARJANI- Participatory Tree Planting Initiative: Mitigating Climate Change Through Community Engagement

The PUNARJANI Participatory Tree Planting Approach is a visionary initiative launched by KVK Thrissur to combat climate change and promote biodiversity conservation in the regions of Anthicaud, Koratty and Peramangalam. This ambitious project has successfully distributed 400 mango grafted saplings and aims to plant an additional 1000 fruit trees in homesteads in Thrissur district. Research underscores the efficacy of such interventions, indicating that home gardens with mixed species can sequester up to 120 Mg/ha of soil carbon at depths of 0-100 cm. Notably, a single mango tree, even at the young age of three



years, can sequester soil carbon in the range of 8-10 Mg/ha at a soil depth of 0-30 cm. These findings highlight the potential of agroforestry practices in significantly contributing to carbon sequestration and enhancing the ecological health of the region.

In addition to the tree planting activities, the PUNARJANI initiative places a strong emphasis on community engagement and education. Awareness and training programs on climate change mitigation and natural farming have been conducted to empower local farmers and residents

with the knowledge and skills necessary for sustainable agriculture. These efforts not only foster a sense of environmental stewardship but also promote the adoption of best practices in farming that can lead to long-term ecological benefits. By integrating scientific research, community involvement, and practical training, the PUNARJANI Participatory Tree Planting Approach serves as a model for effective climate action and sustainable rural development, aiming to create a greener, more resilient future for the communities it serves.



ICAR - Krishi Vigyan Kendra, Tumkur-1

Graduation day of Diploma in Agricultural Extension Services for input dealers (DAESI)

The graduation day for 5th and 6th batch of DAESI was conducted in ICAR-KVK-Tiptur, Tumkur-1 on 29th May 2024. Dr. V.L. Madhuprasad, Director of Extension, UAS, GKVK,Bangalore inaugurated the programmeand motivated DAESI diploma holders to continue to work with farmers and bring laurel to institute who thought them this course. Dr. Narayan Reddy, State Nodal Officer, SAMETI (South), Bangalore opined that this type of programme (DAESI) bridges the gap between farmer and scientist by bringing more extension agents in the government fold. These input dealers can now act as krishi information center than merely functioning as agricultural input shop in the rural areas. Mrs. Savitha, Agriculture Officer, Tiptur congratulated all the candidates and briefed on the thrust areas of the government and how the DAESI candidates can handhold some of the programmes of government to the farmers because of their local reach. Dr. V. GovindaGowda, Senior Scientist and Head, ICAR-KVK, Tiptur, congratulated the candidates on successful





completion of the course and emphasized importance of technology information and transformation which can increase in the income level of farmers and briefed about responsibilities to be carried out as a para extension agents. During this day an oath taking event was carried out by diploma certificate holders on their responsibilities. During this programme all the KVK scientists and staff were presented and distributed certificates to 80 DAESI candidates of 5th and 6th batch.

Action plan meeting for implementing natural farming at Chikkanayakanahalli taluk, Tumkur district



ICAR-KVK-Tiptur, Tumkur-1 scientists participated in the meeting regarding implementing natural farming at Chikkanayakanahalli taluk, Tumkur district on 20-05-2024 organized by Taluk Panchayathat Chikkanayakanahalli. The meeting was inaugurated and chaired by Mr. Vasanthkumar, Executive officer, Chikkanayakanahalli Taluk and addressed the house regarding action to be planned to implement coconut based natural farming system in an area of about 250 hectares in chikkanayakanhallitaluk. This meeting was called for 27 Grama panchayath PDOs along with krishisakis to review about selection of beneficiary farmers under natural farming. Darshan, M.E. Scientsit (Agriculture Extension), KVK, Tiptur, discussed with the house regarding inclusion of baseline survey, sampling of soil and water for further improvisation in project. Dr. Keerthishankar K Scientist (Horticulture) explained about different horticulture crops suitable for natural farming. The meeting was concluded with the suggestions for smooth implementation.

ICAR - Krishi Vigyan Kendra, Thumkur II

Scientific Bee Keeping for sustainable livelihood



ICAR-Krishi Vigyan Kendra (IIHR), Hirehalli, Tumakuru, organized a Scientific Beekeeping Training Programme for Tumakuru Progressive Farmers and FPO Members on May 17th, 2024. Mr. Prasanth JM, SMS Horticulture, welcomed the dignitaries and the participants. Dr. Loganandhan N., Head, ICAR-KVK, Hirehalli, Tumakuru, explained the activities of KVK and the importance of beekeeping and its role in value addition. Sri Prabhu G., CEO, ZP, Tumakuru, who chaired the inaugural session, highlighted business establishment in honey production, quality testing, and value addition through FPO's or individuals by utilizing the bee mission facility and other government schemes. He also emphasized practicing whatever is learned from training by the participants at ICAR-KVK, Hirehalli. He hopes

that this training will provide insight into honey production and value addition for small and medium-scale production. The training schedule included a series of lectures such as the basics and scope of beekeeping as a viable Horti-based enterprise, the role of bees in pollination, beekeeping with stingless bees, honey quality parameters, pesticide poisoning in honey bees and management, honey, and value-added products of beekeeping, and practical demonstrations on handling bees, bee box setting, identification of queen, workers, drones, comb foundation sheet fixing, and feeding of bees. A visit to KVK apiary at the instructional farm was arranged to learn about bee pollination and bee foraging on the antigonon creeper. Technical sessions resources persons Dr. P. Venkata Rami Reddy, Principal Scientist, ICAR-IIHR, Bengaluru, Shri. Varun Kashyap, Co-Founder, LetsEndorse, Bengaluru, and Shri. VaibhavTrimukhe, Co-Founder, Humble Bee, Bengaluru. The training was designed so that participants could gain practical knowledge about the scientific way of beekeeping and value addition. About 72 participants from different parts



of the Tumakuru District attended this program. During the valedictory session, certificates were distributed to the participants. The formal vote of thanks was proposed by K.N. Jagadish, SMS Agril. Extension, KVK, Hirehalli. The entire program was coordinated by Dr. Loganandhan N., K.N. Jagadish, and K.N. Shashidhara of ICAR-KVK, Hirehalli.

ICAR - Krishi Vigyan Kendra, Uduppi

World Bee Day 2024

World Bee Day was celebrated at the campus of ICAR-KVK Udupi, in collaboration with Zonal Agriculture and Horticulture Research Station, Brahmavara and Diploma College of Agriculture, Brahmavara on 20.05.2024. The day was celebrated in commemoration of the birth anniversary of great honey bee keeper and Mr. Anton Jansa. The event was inaugurated by Dr. Lakshmana, Associate Director of Research, Zonal Agriculture and Horticulture Research Station, Brahmavara. In his inaugural address he emphasized the medicinal use of honey. Dr. Sudhir



Kamath, Principal, Diploma College of Agriculture, Brahmavara as a chief guest spoke on the importance of honeybee as a pollinator and important link in the biodiversity of insects and other pollinators. Dr. Revanna Revannavar, Professor of Agricultural Entomology as a resource person on the importance of honeybees in ecology explained in details about the role of honey bee in agriculture, ecology and life lessons to learn from

their way of life. Dr. Shankar, Senior Farm Superintendent, Zonal Agriculture and Horticulture Research Station, Brahmavara narrated on the hard work and community living behaviors of the bees. Dr. Dhananjaya, B, presiding over the event, in his presidential address remarked on the value of honey and its use in diet and medicine in addition to conservation of honeybees. The event was compered by Dr. Sachin, while vote of thanks was delivered by Dr. Santhosh Gowda.

Training Programme on "Management of Soil Acidity"

An off campus training programme on "Management of Soil Acidity and Potassium Nutrition in Paddy" was conducted at Hebri Taluk, Udupi Dist., in associated with "Hebri Horticultural Farmer Producers Company Limited" on 27.05.2024. One OFT and three FLDs were



implemented. More than thirty progressive farmers participated in the training programme. Dr. Dhananjaya B, Senior Scientist & Head of ICAR-KVK Brahmavara and Dr. Jayaprakash S. M, Scientist (Soil Science), ICAR- KVK Brahmavara explained implementation of OFT and FLD in their field, and detailed about management of soil acidity and potassium nutrition in paddy, arecanut and coconut crops. Initial soil samples were collected from one of the OFT and FLDs implementing progressive farmer's field.

ICAR-Krishi Vigyan Kendra, Uttara Kannada

Celebration of World Bee Day and World Biodiversity Day

ICAR-KVK, Uttara Kannada, Sirsi celebrated **"World Bee Day and World Biodiversity Day"** in collaboration with National Biodiversity Authority (NBA) GOI, Chennai and SCODWES Sirsi at Hasanagi Gram Panchayath of Yellapur Taluk on 20.05.2024. Programme was inaugurated by NBA member, Dr. R. R. Hanchinal and highlighted the role of bees in maintaining biodiversity- pollination services. He urged the farmers to concentrate on byproducts of bees and value added products from Honey. Also suggested to conserve the traditional seeds of Paddy which are having high medicinal value. Dr. Roopa S. Patil, Senior Scientist and Head KVK Sirsi explained in detail about different honey bee species, biology, bee flora etc. Shri. Satish Hegde, SADH Sirsi talked about subsidy schemes



on beekeeping at Horticulture department. Progressive Beekeeper, Shri. Gurumurthy Hegde conducted practical sessions on handling of bees and gave information on management of bee colonies during different seasons. Field visits were made to Hunasekoppa Gram Panchayath Biodiversity Management Committee president Shri Prakash Bhat's Ashok Vana at Ademane, Sirsi tq, where he is conserving more than 400 medicinal plant species and 50 exotic fruit species. Apart from this he is also marinating 15 *Apis cerana* Bee colonies.

ICAR - Krishi Vigyan Kendra, Vijayapura - II

Event -01: Diagnostic field visit

Senior scientist and head and scientist (Horticulture), ICAR-KVK, Vijayapura-II (Indi) visited problematic dragon fruit orchard of Mr. Santosh Patil at Batagunike on 24.05.2024, observed root rot and stem rot disease in dragon fruit plants. Suggested spraying of Bavistin 1g/land drenching with COC 3g/l and fallowed by soil application of Trichoderma enriched with FYM.

Event -02: Diagnostic field visit

Senior scientist and head and scientist (Horticulture), ICAR-KVK, Vijayapura-II (Indi) visited problematic grape orchard of Mr. Parashuram Shawal at Sangogi on 25.05.2024, observed salt injury. Suggested spraying of Bio 20-2ml/l twice at 10 days interval.

ICAR - Krishi Vigyan Kendra, Wayanad

Exposure visit to ICAR- KVK Wayanad

One day training programme on value Addition of Passion fruit for the farmers of ATMA Malappuram who came for exposure visit to KVK Wayanad. Dr. G.S Arularasan, SMS, Agricultural Extension welcomed the farmers group. The group visited all the units of KVK. Smt. Priya Mariam George, Research Assistant, dealt the session. Topics on value addition of passion fruit, its importance, marketing and the safe preservatives to be used while value addition were covered. The practical session covered hands on training on the preservation and pulp extraction of passion fruit. 26 farmers actively participated in the training programme.





MDDT visit to drought prone areas of Pulpalli, Wayanad

Multidisciplinary Diagnostic field visit were conducted to drought affected pepper, arecanut, nutmeg and coffee fields of Chettappalam, Pulpally belonging to Panamaram block in Wayanad. Experts from the KVK Wayanad, Assistant Director of Agriculture , Agriculture officer of the concerned Krishi Bhavan's were involved in the team visit. The plants were entirely dried of due to severe drought. Problems were diagnosed and proper water conservation practices to be adopted by the farmers were given.























KVK TIMES

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

