



KVK TIMES

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

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KVK TIMES

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

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Message

Dr. V Venkatasubramanian

The Director

ICAR-Agricultural Technology Application Research Institute, Bengaluru

Krishi Vigyan Kendras are evolving as promising grass root level frontline extension institutions for empowering the farming community. They play a pivotal role in enhancing decentralization to achieve desired level of growth in agriculture and allied sectors. Now, shouldering the mission of Natural farming with Union government, Krishi Vigyan Kendras are expanding the horizon to utilization of low cost inputs in the farm level. Natural farming system is a cost- effective farming practices where in Krishi Vigyan Kendras play leading role in creating a common ground, unified knowledge and understanding many aspects of natural farming technology. Our programmes for farmers gives them a clear understanding of the principles of natural farming.

To make the choice of life and survival of human beings is to make the choice of sustainable development through natural farming. Our model farmers and farm development is Zero Chemical and use ecological crop management through homemade liquid fertilizers to soil and plants. Natural farming helps farmers to adapt the climate change because high soil organic matter content and soil cover help to prevent nutrient and water loss. This makes soils more resilient to floods, droughts, and land degradation processes. ICAR KVK Idukki plays a major role in maintaining the ecological sustainability of Idukki district. ICAR- KVK, Idukki has done commendable job in bringing the **19th Edition of KVK Times** and I congratulate the team for capturing the important events held during this fortnight. I request all the KVKs to continue to contribute at their best in order to achieve the continuous and consistent growth of agriculture. Let our adventure to bring light in the lives of millions of farmers continue.

[V Venkatasubramanian]



Message

Reena Chacko

Chairperson, Bapooji Sevak Samaj

The decade passed by has been a great teacher. It taught us the tough lessons of survival, cooperation, adaptation, and strengthened us to face the new challenges, the coming will bring. The climate change and disasters have left deep scars in our farming sector, but sincere efforts from scientists, extension personnel and farmers will ultimately sow seeds of change. This is clearly visible from the results of concerted efforts that the whole team of all Krishi Vigyan Kendra's has programmed for the farmers of the respective districts. The team has been successful in making farming profitable in these scenario's. Spearheading the broad objectives of farmer empowerment and profit optimisation, the KVK's has conducted several on farm trials, Front Line Demonstrations, trainings, field visits and diagnostic clinics as per the needs of the farmers. This has been reflected in their income as well as in the standard of living with and wholehearted cooperation from the line departments and allied sectors.

What we have achieved and where we stand today would have been impossible without the genuine assistance and constructive advice of our officials, staff and farmer friends. Our sincere gratefulness goes to Dr. V. Venkatasubramanian, The Director, ATARI, Bengaluru and Principal Scientists of ATARI who have tirelessly and consistently guided us in achieving the mandates of KVK in Idukki district. We bow our heads before our farmer friends and other well-wishers who have helped us in connecting with the soul of this pristine land, thereby assisting us in disseminating the knowledge required for the farming community. "Team KVK Idukki" has showcased an exemplary model of service to the farmers and the Bapooji Sevak Samaj appreciate each and every member for the consistent efforts they have put in. At this juncture, I congratulate ICAR- Krishi Vigyan Kendra(BSS), Idukki for bringing out the 19th issue of KVK TIMES of Zone-XI for this fortnight from 1-15th April, 2022. I complement Dr. V. Venkatasubramanian, Director, ICAR-ATARI Bengaluru, Zone XI and all the staff of each KVK for their collective effort in bringing out the "KVK TIMES" Volume-I, Issue-19, that has emphasized the KVK activities. Through this KVK Times, we proudly unfold, the salient interventions and technology backstopping of all Krishi Vigyan Kendra's of Zone XI, that has helped the farmers in leading a better life. Let us believe that, together we can make this decade a 'DECADE OF HOPE'.

Reena Chacko
Chairperson, Bapooji Sevak Samaj



Acknowledgement

Dr. R Marimuthu

Senior Scientist and Head,
ICAR-Krishi Vigyan Kendra, Idukki

In agriculture sector, extension plays a pivotal role in transferring new technologies from lab to land. Krishi Vigyan Kendras are one of such institutes mainly involved in technology transfer through Trainings, Front Line Demonstrations, On farm trails and various other special programmes for the farming communities. I am extremely proud and privileged to be entrusted with responsibility to bring out an online, fortnightly magazine KVK Times - A Window to KVKs of ICAR-ATARI, Zone-XI, Bengaluru during Azadi Ka Amrit Maholsav.

I would like to express my gratitude to ATARI, Bengaluru for giving us an opportunity to compile and bring out KVK Times of Zone XI for 01-15th April 2022. It is my immense pleasure to thank Honorable Director, ICAR-ATARI, Bengaluru, Dr. V. Venkatasubramanian, for his overwhelming support, inspiration and encouragement to serve the farming community and valuable guidance in bringing out this edition of KVK Times. I avail this opportunity to express my heartfelt gratitude to Dr. B.T. Rayudu, Principal Scientist, ATARI, Bengaluru and Nodal Officer of our KVK for constantly encouraging us to carry out the mandated activities. I would like to express my gratitude to our beloved Director of Extension, KAU, Thrissur Dr. Jayasree Krishnankutty M, for her timely guidance and inspiration to carry out the various activities successfully. I sincerely acknowledge the whole KVK families of ATARI Zone-XI who shared their achievements timely to bring out this "KVK Times" 19th e - newsletter. Wholeheartedly I thank our Team KVK Idukki for their complete involvement in bringing out this issue effectively.

Senior Scientist and Head,
ICAR-Krishi Vigyan Kendra, Idukki

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ICAR-Krishi Vigyan Kendra Alappuzha



Climate resilient technologies in paddy reap better harvest in Edathua

Large scale demonstration on 'Climate resilient technologies for paddy' under NICRA project implemented by the KVK in Edathua and Muttar panchayaths of Kuttanad proved to be an encouraging experience to the farmers of the region. A package of technologies including high yielding short duration paddy variety 'Manuratna', sowing of seeds using drum seeder, soil test based nutrient management, use of Pseudomonas for seed treatment, placing tricho cards against pests, and foliar nutrition of multi nutrient mixture (containing B, Cu, Mn, Fe, Zn and Mo) from KAU by aerial spraying using the drone

(UAV) was demonstrated in an area of 50 ha in the unique wet land ecosystem where below sea level farming is practiced. The demonstration was carried out by involving 45 farmers. Harvest festival was conducted at Vadakara padasekharam of Edathua panchayath in the presence of peoples' representatives and more than 30 farmers. The partner farmers were very much satisfied with the technologies and the package of technologies yielded 7.5 t/ha with a BC ratio of 1.87 compared to 6.25 t/ha and 1.56, respectively for conventional practices. Overall, the KVK could create a good awareness on the climate resilient technologies and use of drones in farming activities to the farmers through the demonstrations and the media coverage, when Govt. of India is promoting use of drones in farming sector. ▶

Dairy and Goat health campaigns conducted



Animal health campaigns exclusively for dairy animals and goats were conducted at Edathua on 5th April, 22. For dairy farmers, method Demonstration on CMT kit to detect clinical mastitis, ketosis detection test, and infertility treatment were taken up followed by distribution of medicines in needy cases. About 40 dairy farmers attended and 75 animals were treated in the camp. A goat health campaign also was conducted on the same day in which pregnancy diagnosis and treatment for various diseases for goat were done. Disinfectant solution, vitamins and feed supplements, fly repellent medicines, and de-worming medicines were distributed to about 35 farmers by treating about 80 animals. ▶

Climate resilient 'floating goat shed' established in NICRA village

Mr. Likhu V Philipose, Vellasseril, Edathua who is a partner farmer of the technology demonstration on 'Climate resilient goat shelter' fabricated the goat shed in such a way that the shelter is allowed to float over the fish pond by tethering the shelter with a pole fixed at the bund. Whenever the water level goes up, this shelter also floats on the water body and save the animal housed in the shelter from the flood. This goat shelter is fabricated in a two tier system where in the upper tier 10 goats are housed and in the bottom floor ducks are kept. The ducks are let loose during the day time and housed in night time only. All the visiting farmers appreciated Mr. Likhu for his innovation of the two in one floating goat and duck shelter and expressed their desire to fabricate such type of shelter in their homestead ponds. So far about 60 climate resilient goat shelters of different designs have been established in the NICRA villages. ▶



ICAR-Krishi Vigyan Kendra Bagalkot



Celebration of 131st birthday of Dr. B R Ambedkar

On 14 April 2022, Dr. B R Ambedkar Jayanti was celebrated at KVK Bagalkot. All the staff of KVK was present at the occasion. ▶

Field Visit to field of Assessment of coriander varieties

Followup field visit conducted to OFT on Assessment of coriander varieties as intercrop in Sugarcane by Dr. Airadevi Angadi, Scientist (Horticulture) of ICAR-KVK Bagalkot on 01.04.2022 at Huvanur village, Ilakal Taluk ▶



Field visit to Sustainable Sugarcane Initiative (SSI) technology

Field visit conducted to Sustainable Sugarcane Initiative (SSI) technology at Hovanur, Hungund (tg) on 01.04.2022 and Honakatti, Bagalkote (tg) on 10.04.2022 ▶



ICAR-Krishi Vigyan Kendra Ballari

Director of Extension UAS, Raichur visits KVK, Ballari

The Director of Extension, UAS, Raichur, Dr.D.M.Chandargi visited ICAR-KVK, Ballari on 08.04.2022. Dr Ramesh B K, Senior Scientist and Head, presented before him, the activities carried out by the institute during 2021-22. The administrative steps taken to improve overall look and functioning of KVK were also presented. The Director of Extension appreciated the functioning of KVK and its activities during COVID-19 second lockdown and guided for furthering technology dissemination for the betterment of farming community in the district. On 09.04.2022, all the KVK scientists accompanied him for the day long field visits to KVK contact farmers' farm fields. The team visited field of Sri. Basaiah Swamy of Kaddirampura in Hampi region. He is practicing organic farming and has integrated many enterprises in his 3 acre land. Sri Swamy's enthusiasm and his ventures in apiculture and organic sugarcane production paved way for exchange of many ideas and he mentioned how his long association with KVK, Ballari helped him to switch to organic production. Further, 'Monkey gun' - an innovation from Swamy to keep mischievous monkeys away from his produce caught the attention of DE and a demonstration on its use was carried

out. Later, the team visited field of Smt. Annapurna at Kamalapura, who is practicing IFS module with variety of field and horticulture crops and enterprises like dairying, duck rearing and pisciculture

Director of Extension also visited fig and banana value addition units promoted by KVK Ballari and guided for effective market linkages by involving all the stakeholders. Visit to the unit wherein SHG women make roti out of babana flour in an entrepreneurial venture by innovative farmer Sri. Kalidas was well appreciated.



ICAR-Krishi Vigyan Kendra Belagavi 1

Call to enhance pulse production in fields of black gram



ICAR BIRDS Krishi Vigyan Kendra, Tukkanatti, Belagavi-1 organize program on farmer interaction cum field day programme in fields of Cluster Front Line Demonstration on Black gram (CFLD) at Mr. Mahadev Bhima Sollapure, Shiragaonwadi village of Chikkodi taluka, Under National Food Security Mission-Pulse. The programme went through agenda, initially field visit to Mr. Sollapure was made and discussed his experience in blackgram cultivation. Dhananjay Choug-

A skill training for organic growers



ICAR BIRDS Krishi Vigyan Kendra, Tukkanatti, Belagavi-1 organized vocational training programme on Organic Growers for 25 farmers of Belagavi district. This skilled training program was sponsored by Ag-

la, Scientist Krishi Vigyan Kendra, Belagavi-1 throw light on technology demonstrated such as Integrated Crop Management in Black gram, demonstration purpose and this technologies demonstration also conducted at Shiragaonwadi village of Chikkodi taluka, Darur and Ghatanatti villages of Athani taluka.

Totally 41 farmers participated in the programme and guests of the program are SHG members, panchayat staff, Lift Irrigation Cooperative Society Directors, Shri Anil Bhupal Sham, Shri Satish Basavaprabhu Parale and PKPS Director Balasahab Babu Haragapure were attended. Shri Gajana Haragapure discussed about the effect of date of sowing on performance and yield of the crop. he opined, that January first week sown crop yield better as compared to crop sown fourth week. Mr. Rajendra Patil progressive farmer shared his practice on dibbling technology with integrated crop management yields better. The participants and the farmers further discussed on soil moisture requirements at germination stage, crop uniformity impact on yield level, crop spacing, impact of methods of sowing on yield, hand dibbling/ sowing by bullock/ tractor drawn implements, major pest and their management in summer crop and water management in summer crop. The programme is not restricted to black gram but also discussed on current status of summer season soybean, major pests of summer soybean crop. Followed by the program the diagnostic visit to red spider mite affected brinjal, stem fly infested fields of soyabean and its scientific managements are also discussed. ▶

riculture Skill Council of India (ASCI) with duration of Twenty-five days (200 hours). This training was conducted from 7th March-2022 to 5th April 2022. During the training KVK scientists delivered lecturers in both theory and practical classes regarding sustainable independent organic input production and its application in crop production. The resource persons from University of Agricultural Sciences Dharwad and College of Horticultural Sciences, Arabhavi on Pros and Cons of Conventional farming vs. Organic farming practices.

Training covers all the information regarding organic farming from land preparation to harvest, such as selection of crops for organic farming and cropping systems/varieties, organic package of practice, application of Biofertilizers, Beejamruth, Jeevamruth, vermicompost, Vermiwash, different methods of composting, Integrated Nutrient Man-

agement and Integrated Pest & Disease Management in organic farming. Role of microorganisms in organic farming, value addition, quality assurance and certification in organic farming, market and market intelligence and entrepreneurship development. Exposure visits to 4 farmers field in order inculcate practical knowledge regarding organic jaggery production unit and model organic farmers fields. This training went very well on objectives with participation of 25 farmers trainees made this training successful. ▶



ICAR-Krishi Vigyan Kendra Belagavi 2

Soybean Seed Production Plot visit



ICAR-KLE Krishi Vigyan Kendra, Mattikopp in association with ICAR-Indian Institute of Soybean Research, Indore has taken up production of foundation to certified soybean seed production programme at farmers' field for varieties viz., KDS-726 and KDS-753 to ensure timely supply of quality seed to the farmers. Apart from that, KVK is also involved in production of NRC series viz., NRC-130, NRC-136, NRC-142 and NRC-128 which have excellent salient features to promote soybean production. The project aims at production of soybean seeds during off season to ensure good germination percentage. ▶



Training on Farmers Producer Organization

ICAR-KLE Krishi Vigyan Kendra, Mattikopp conducted training to Directors & CEO of MSVH Animal Husbandry Farmers' Producer Company, Sogal at KVK campus on 13.04.2022. Inaugurating the programme Paramapujya Shri Mohan Swamiji of Swargashrama & Managing Director of FPO opined that, the Government of India has taken right decision in promotion of Farmers' Producer Organizations for overall development of the farming community in the country.

Delivering a lecture on this occasion, Shri S.M. Warad, Scientist (Soil Science) explained the concept and meaning of FPO, its background, formation and registration and selection of executive body, features and need of FPO, steps in establishing of FPO, activities and services to be provided by FPO. Dr. Abhishek Tangolli, Veterinary Officer, Hosur explained various management practices of dairy farming. Dr. Virupkshi Addanagi, Chief Veterinary Officer, Bailhongal briefed the management practices of goat and sheep rearing. Shri. S.B. Humbi, Director of FPO performed opening remarks of the training. ▶



ICAR-Krishi Vigyan Kendra Chikkaballapura



Mrs. Aruna, Technical officer, KVK, Chikkaballapura participated as resource person in training programme on management of mulberry garden and bi voltine during summer organized by KVK, Kolar on 11.04.2022. Mrs. Aruna explained about importance of bi voltine silk worm rearing and scientific practices in mulberry cultivation.

ICAR-KVK, Chikkaballapura carried out demonstration of sunflower hybrid KBSH-78 at Bagepalli taluk under NFSM on oil seeds. Mr. Vishwanath, Scientist (Agronomy) along with line department officials visited the field and explained about scientific cultivation practices in sunflower.



ICAR-Krishi Vigyan Kendra Chitradurga

Farmers participatory Onion seed production Field Day

A Field Day on Farmers participatory Onion seed production was organised on at Hosakundur village of Hosadurga taluk, Chitradurga district.

Dr. B. Hemla Naik, Director of Extension, KSNUAHS, Shivamogga inaugurated the programme by lighting up the lamp. He delivered the inaugural speech and opined that the new technologies developed by the agricultural universities were transferred to the farming community through the trainings, awareness programme and extension activities of KVKs. Farmers participation is the key success for large quantity of seed production . He suggested the farmers to adopt the multiple cropping, multi storied cropping systems instead of mono cropping system and should show interest in making the value added products



of their farm produce for doubling up their income. He also suggested to adopt Organic farming and Natural farming systems to maintain the soil health, and use of bio control agents like Trichoderma and Pseudomonas for pest and disease control. Onion seed production programme has become very successful in Hosakundur village because of the interest and commitment shown by the farmers which made the village to be recognized in national level. He also stressed on strengthening on onion storage and marketing facilities.

The Chief guest of the function Dr. Saranappa Jangandi, Associate director of research, ZAHRS, Hiriyur addressed on climate change in the agri-



dur village. In Hosakundur out of 200 families 180 families have adopted the seed production activities with the interest of farmers which has made them to get recognised at the National level for onion seed production. KVK Chitradurga adopted the Hosakundur village as seed village since 2016 and knowledge on onion seed production (seed to harvest, processing , packing and marketing) have been taught by ICAR-KVK Chitradurga. Adoption of seed production activities will help the farmers to raise their income levels and KVK will take up suitable supporting to the farmers in the field of value addition, storage and Marketing of onion seeds and suggested to formulate onion seed production FPO's which may helps to sale their produce on better price .

culture has threatened to the agricultural activities in which farmers has to plan cropping system in accordance to climate change . He also suggested to market their produce by formulating commodity based FPO's which helps in gaining more profit to their produce. He also suggested the farmers to have regular contact with the scientists and get information on the issues faced by them.

Farmers leader Gowdru Neelappa, Mr. Siddappa ,Mr. Ravindranath, Mr. Revanna, Mr. Lokeshwarappa and Mr. Ramalingappa shared their experiences on seed production . Dr. S. Onkarappa, Scientist (Plant Protection) delivered the welcome speech , Dr. Prakash Kerure, Scientist (Horticulture) briefed about the Onion seed production activities carried out by KVK and and Mrs. Geetha Kumari, programme assistant extended the vote of Thanks.

Dr. O. Kumara, Senior Scientist and Head opined that "Farmers participatory Onion seed production" programme has become a successful event of KVK since from 2016 mainly because of the interest shown by the farmers of Hosakun-

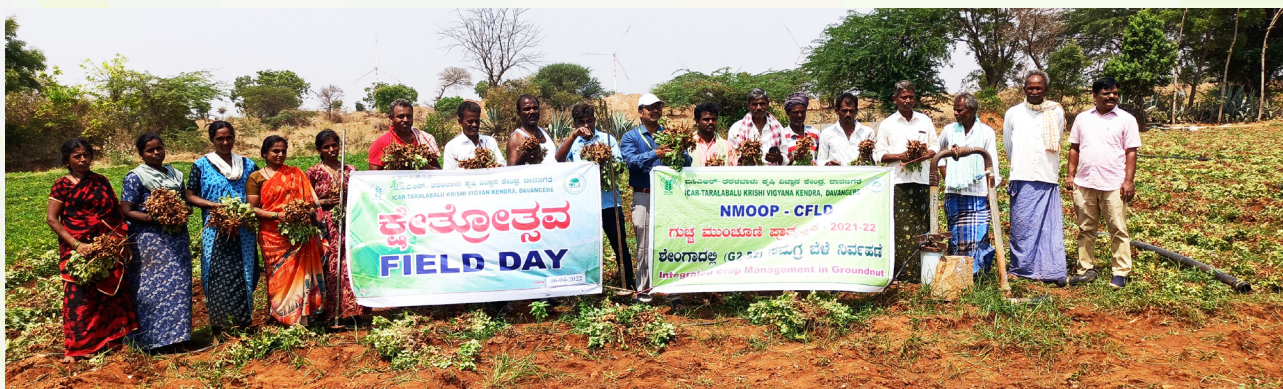
ICAR-Krishi Vigyan Kendra Davangere

Field Day of NMOOP-CFLD- Summer Groundnut

ICAR- Taralabalu Krishi Vigyan Kendra, Davangere conducted the Field day under NMOOP –CFLD Groundnut at Sri Onkareshwara,

FLD farmers plot of Siddamanahalli, Jagalur Taluk. Dr. Devarja T.N., Senior Scientist and Head suggested the farmers to go for seed production of the new variety in groundnut (G2-52). Mr Mallikarjuna B.O ., Scientist (Agronomy) explained the characteristics of the variety G2-52 suited for the fodder which remains green at time of the harvest. Mr. Krishanmurthy., FLD farmer during the field day expressed that compared to last year summer crop, this year 2022 the increase in the yield from 10q/ acre to 14 -15 q/acre

More than 30 farmers participated in the program from the surrounding villages and Mr. Renukumar, BTM, ATMA also participated in the program. Field visit to the FLD groundnut.





Field Day of FLD - Summer Finger millet (ML-365)

ICAR- Taralabalu Krishi Vigyan Kendra, Davanagere conducted the Field day under FLD – Intergrated crop management in Finger millet (ML-365). The Field day celebrated at Sri Shivakumar FLD farmer plot at Agasanakatte, Davanagere taluk. Mr Mallikarjuna B.O ., Scientist (Agronomy) explained the characteristics of the variety ML-365, which is suited for the fodder and grain and also suggested the farmers to go for seed production. Progressive farmer Mr. Shivakumar ex-



pressed that the new variety of finger millet is very good and expected the yield of 18q/acre and good fodder.

More than 50 farmers participated in the program from the surrounding villages.



Bale maker of the finger millet for fodder.

ICAR- Taralabalu Krishi Vigyan Kendra, Davanagere Field visit to the finger millet plots at Angodu, Davanagere taluk. There is lot of wastage of fodder when manual loading to tractors. So to avoid the loss of the fodder, now the bale making machines which are tractor drawn are introduced to the farmers where we can save the loss of the fodder. 25 kg of Bale costs Rs. 40 per bale. This can be easily transported and stored for long time. The machines are available under Custon hiring centres runned by department of Agriuculture and many farmers have owned the machines. This machine is used for paddy, maize and finger millet.

ICAR-Krishi Vigyan Kendra Dharwad



on field level problems and disseminate those technologies to improve farmers yield levels and related parameters. He also mentioned about the importance of FLDs and OFTs in achieving goals of Doubling Farmers Income. Technical Bulletin on Technological Inventory of UAS, Dharwad was circulated to each KVK for reference. Balachandra K. Naik, Director of Extension, UAS, Dharwad presented introductory remarks and welcomed the gathering. Dr. P. S. Hugar, Associate Director of Extension (HQ), UAS, Dharwad and Dr. R. B. Belli, Associate Director of Extension (Vijayapur), UAS, Dharwad, Dr. Shripad H. Kulkarni, Nodal Officer (KVKs), Directorate of Extension, UAS, Dharwad, Experts from respective departments, Senior Scientist and Heads, Scientists and Technical Officers of different KVKs under UAS, Dharwad jurisdiction were present during the meeting. The Pre-Action Plans were presented by the respective Scientists and the expert committee suggested modifications for improvement of the proposals. Dr. S. A. Biradar, Senior Scientist and Head, ICAR-KVK, Dharwad co-ordinated the activity.

Pre-Action Plan Meeting 2022-23 of KVKs under UAS, Dharwad



The Pre-Action Plan Meeting 2022-23 of KVKs under UAS, Dharwad jurisdiction was organized by ICAR-Krishi Vigyan Kendra, Dharwad at Directorate of Extension, UAS, Dharwad from 11-12 April 2022. Dr. P. L. Patil, Director of Research, UAS, Dharwad inaugurated the meeting and requested the Scientists to select appropriate technologies based

ICAR-Krishi Vigyan Kendra Ernakulam

Capacity building programme exclusively for women farmers conducted



As part of Govt of Kerala campaign Njangalum Krishiyilekk (We are into Agriculture), the KVK and Dept. of Agriculture jointly organized capacity building programme on Homestead vegetable and fruit farming exclusively for women in Kottuvally Grama panchayath on 12th April, 2022. Shri. Shoji Joy Edison, Subject Matter Specialist (Horticulture) led the programme. Eighty two participants attended. ▶

Capacity building programme for Poultry and Duck farmers conducted

A capacity building programme for Poultry and Duck farmers was conducted as part of Annual convention of Cooperative Self help groups functioning under the Palliyakkal Service Cooperative bank, Ezhikkara on 2nd April, 2022. The programme was inaugurated by Paravur Block Panchayat Vice President Shri K.S Saneesh. Dr K Smita Sivasadan, Subject Matter Specialist (Animal husbandry) led the programme and interactive session. Thirty five farmers participated. ▶



ICAR-Krishi Vigyan Kendra Gadag



Kissan Ghosti

ICAR-KVK, Gadag and ATMA, Gadag jointly organised Kissan Ghosti programme on 28-03-2022 at KVK Premises. The event was inaugurated by Shri P.K.Hosamani, Director, SBI-ASF-RSETI, Hulkoti. The Ghosti focussed mainly on resource conservation and climate resilient technologies to combat climate aberrations, post harvest management, natural farming and importance of nutri-cereals. Farmers' queries on these aspects were discussed. On this occasion, 15 farmers and farm women belonging to Gadag, Ron and Naragund talukas were felicitated for their achievement in agriculture and allied sector. About 100 farmers and farm women participated in the event. KVK Scientists and ATMA Officers and Staff were involved in the Ghosti programme. ▶



National Campaign on Farm Mechanization

One day training programme on **“Mechanization Practices in Crop Residue Management”** was conducted at KVK, Gadag on 04-04-2022 as a part of “National Campaign on Farm Mechanization” organized by the Agricultural Engineering Division, ICAR, New Delhi from 28th March to 04th April 2022. Totally 38 farmers and farm women had participated in the programme. Dr. Vinayaka Niranjana, SMS (Ag. Engg.) sensitised the farmers about different machineries available for crop residue management and also discussed about alternative uses of crop residue that could fetch additional income to the farmers.



ICAR-Krishi Vigyan Kendra Haveri

Field Day on demonstration of Biocapsules and Ginger special application for enhancing yield in Ginger

Biocapsule technology is used in Horticulture for the purpose of smart delivering of Trichoderma and Plant growth promoting rhizobacterium (PGPR) like *Bacillus amyloliquefaciens*. Ginger special of IISR is a crop specific foliar spray grade micronutrient mixture for higher yield

in Ginger for soils below pH 7. Both of these were demonstrated through an FLD in farmers fields of Makari village during summer season of 2022. Before harvesting the crop, a field day was conducted on 06.04.2022 by ICAR-KVK, Haveri in a best field of demo plots at Makari village of Rattihalli taluk and briefed about demonstration of Bio capsules and Ginger special application for enhancing yield in Ginger. Beneficiary farmer under frontline demonstration opined that suspending of Trichoderma and PGPR Bio-capsule in one liter of boiled and luke warm water followed by diluting in 100 liter of clean water and drenching this solution to ginger crop was found to enhance the plant height, number of tillers, rhizome yield in ginger by reducing the incidence of a complex rhizome rot disease. Application of IISR Ginger special as spray at 45 days interval till 6th month reduced the micronutrient deficiency. About 26 farmers and farm women of the village participated and benefitted by the programme.



Field Day on Summer Green gram under CFLD



Krishi Vigyan Kendra, Haveri (Hanumanmatti) conducted field day on summer green gram under CFLD at farmer's field of Shri. Neelappa Tirakappa Jagati, Kalasur village of Savanur taluk on 4.4.2022. Progressive farmer said that the green gram crop is expected to grow at

a higher yield (6-7 quintals per acre). Dr. Ashoka P., Senior Scientist and Head, KVK Haveri briefed that, soon after the harvest of rabi crop growing of summer green gram crop under irrigation facility will improve the soil fertility. This crop fixes 20 kg ha⁻¹ nitrogen in to the soil since the roots remain in the soil after the harvest and shedding of leaves will improve the soil physical, chemical and biological properties to maintain soil fertility. Variety IPM-02-14 (Shreya) is the best suited for summer season and resistant to yellow mosaic virus disease. Progressive farmer used rhizobium for seed treatment, two times inter culture operation at 25 days after sowing, spraying of 1% 19:19:19 at seed setting time increased the yield level. This crop comes to harvest at 70 – 75 DAS and well suited for mechanized harvesting.

Dr. Rajakumar G.R. Scientist (Soil Science) said growing of pulses as inter crop would help farmers with soil fertility to increase their income and same seeds may use for next sowing. On this occasion Dr. Mahesh Kadagi, Scientist (Animal Science) KVK Haveri and more than 30 farmers were present. ▶

ICM in Groundnut with a promising Variety of UAS Dharwad for summer season in northern Karnataka



Groundnut is one of the important Oilseed crop of Haveri ditrict with an area of 20000 ha and production of 15098 metric tons. It is grown in Kharif as well as summer seasons. A suitable variety for summer has been developed by UAS

Dharwad for Uttara Karnataka region. A Cluster Front Line Demonstration (CFLD) was conducted in 39 farmers during summer season of 2022 by KVK Haveri on ICM in Groundnut with this variety. When the crop was with pod maturity stage,

a field day was conducted on ICM in this groundnut crop (variety Dh-256) on 13.04.2022 at Kakola Village of Ranebenur taluk. The progressive farmer Sri Shivappa Navale grown this variety provided by KVK Haveri and followed ICM practices, viz., seed rate (6. Kg pods per acre), seed treatment with rhizobium and PSB, soil test based fertilizer application, gypsum application, earthing-up, pest and disease management, spraying of potassium nitrate @ 10 g/L at pod filling stage, micronutrients application and water management at critical stages.

Dr.Ashoka P, Senior Scientist & Head, KVK Haveri said that the University of Agricultural Sciences, Dharwad has developed better yielding variety of groundnut, Dh-256, for summer which yields 25 per cent higher than the current monsoon cultivars GPBD-4 and G2-52 and has the ability to

withstand leaf spot disease and drought. The leaves are dark green and the kernels are pink. The breeding period is 110 to 115 days, with an oil content of 47 to 48 per cent. The Scientist (Agronomy) Dr. Shivamurthy D spoke about seed rate, line spacing, inter cultivation and moisture management. Soil scientist Dr. Rajakumar GR. said that soil earthing-up followed by gypsum (or setright) application to the ground at 40 DAS very much important. It is advisable to give 5 kg of nitrogen as top dressing and spray of Potassium nitrate 1%, EDTA forms of zinc and iron @ 0.25 % and Borosol at 0.2%, twice (with ten days interval) during flowering stage. During the programme, the farmers of the village, Shri. Shivakumar Shidaganal, Shri. Kumara Karabannanavar, Sri Halappa Karabannanavar and other farmers more than 25 were also present and benefitted. ▶

ICAR-Krishi Vigyan Kendra Hirehalli, Tumakuru II

Use of Drone in Agriculture and Horticulture Crops on 8th April, 2022



Agricultural Drone Demonstration was organised at ICAR-KVK,Hirehalli,Tumakuru for DAESI Students on 8th April,2022. In collaboration with Multiplex Drone Private Limited established with a motto of aerial crop spraying solution for farmer community. Innovative drone solutions are custom tailored to meet agriculture requirements for farmers. Multiplex drone is committed to excellence in drone technology and to deliver quality drone pilot training as well as to deliver quality of products to the customers. They provide complete end to end engineering solutions circumstantial services and support solutions for our farmers.

The programme was coordinated by Shri. K.N. Jagadish, SMS Agril.Extension, Shri. Aravind SM, Senior Manger, Marketing, AGRIPLEX Private Limited, Bengaluru and Shri. Manish S., Marketing: Asst. Manager- Business Development, M-DRONE, Bengaluru. ▶

ICAR-Krishi Vigyan Kendra Idukki

Scientific Advisory Committee meeting 2021-22 and distribution of KR-LED Lights



The 15th Scientific Advisory Committee Meeting was held on 11th April 2022 at KVK Seminar Hall. The committee meeting was chaired by Smt. Reena Chacko, Chairperson, Bapooji Sevak Samaj. Dr. V Ven-



katasubramanian, Director, ICAR-ATARI, Bengaluru inaugurated the meeting by lightening lamp. Dr. Sreevalsan J Menon, ADE, KAU, Thrissur, Ajeesh B R, AGM NABARD, Dr. Dhanapal, Scientist, ICRI Myladumpara, Officials from VFPCCK, Dairy Department, Fisheries, KLDB, DIC, Khadhi Board, Spices board, Coffee Board, LDM, Idukki, PD ATMA and various officials from the line departments and KVK staffs participated in the discussion. Dr. R Marimuthu Presented the salient technical achievements of KVK Idukki for the one-year period after 14th SAC Meeting. Four farmer representatives along with the officials pointed out their suggestions and recommendations in formulating and strengthening the upcoming KVK activities. After the meeting KR-LED light for crop raiding wild elephants was distributed to the tribal farmer groups of Chinnakanal Village by Dr. V Venkatasubramanian, Director, ICAR-ATARI, Bengaluru ▶

ICAR-Krishi Vigyan Kendra Kalaburagi - I

Pre Action Plan 2022-23 of KVKs held at UAS, Raichur

University of Agricultural Sciences, Raichur was organised two days (04.04.2022 and 05.04.2022) pre-action plan 2022-23 for 7 KVKs of University of Agricultural Sciences, Raichur jurisdiction and Director of Extension, UAS, Raichur in collaboration with ATARI, Zone XI, Bengaluru.

The programme was inaugurated by Dr. K. N. Kattimani, Honourable



Vice Chancellor, University of Agricultural Sciences, Raichur. In this occasion Dr. Chandregowda, Principal Scientist, Director, ICAR-ATARI, Zone XI, Bengaluru and Dr. D.M. Chandargi, Director of Extension, UAS, Raichur participated in the programme and provided valuable suggestions were given by them to improve the Action plan 2022-23 and welfare of the farming community.



As a part of this programme, Dr. A. S. Halepyati, Head, Organic Farming Research Centre, Dr. Narayan Rao, Professor & Divisional Head, Dept of Soil Science & Agril. Chemistry, Dr. Mahadevswamy, Professor & Divisional Head, Dept of

Soil Microbiology, Dr. Gururaj Sunkad, Professor & Divisional Head, Dept of Plant Pathology, Dr. Prabhuraj, Professor & Divisional Head, Dept of Agril. Entomology, Dr. Jagajeevanram, Professor & Divisional Head, Dept of Animal Science, Dr. A. R Kurubar, Professor & Divisional Head, Dept of Horticulture, Dr. Anupama, Professor and Head, -Department of Home Science, Dr. Udayakumar Nidoni, Professor and Head, Food Processing and Engineering, University of Agricultural Sciences, Raichur were participated as a subject resource persons and gave valuable suggestions to the scientists. In this occasion Dr. Moulasab, Technical Officer to DE anchored and Dr. M. V. Ravi, Senior Scientist & Head, KVK, Gangavathi welcomed and Vote of thanked to all the participants. In this programme, all 7 KVKs Senior Scientists & Heads, Scientists and staffs were participated. ▶

Diagnostic Field Visit by KVK Scientists

Diagnostic field visit to Sri Baburao Suntanur and Dr. Madhukar Deshpande at Madaki villages of Aland taluka by expert team of ICAR-Krishi Vigyan Kendra, Kalaburagi-I scientists on 09.04.2022. In this visit, Dr. Zaheer Ahamed, Scientist (Pathology), participated and briefed about the pulse diseases management aspects especially redgram cop and suggested that after harvest of Redgram the left over stem gradually grows in summer rains and acts as source of inoculum for



kharif Redgram. The alertness on stubble and old plant cleaning, summer deep ploughing given to DFI Suntanur and surrounding village farmers to maintain the sanitation. Scientists visited the field given the information on mites act as vector for redgram sterility mosaic disease (SMD), its causes and control measures. Dr. Shreenivas, B V, Scientist (Soil Science) briefed about the importance of soil health, summer ploughing, management of soil fertility and demonstrated about the method of collection of soil and water samples for analysis. A total of 10 farmers and department of Agriculture staff were part of the event.



ICAR-Krishi Vigyan Kendra Kannur

Low cost ripening chamber for mango

KVK Kannur has installed a low cost ripening chamber for mango, at Kuttiyatoor Mango Producers Company. This is a simple method for enhancing the ripening process by exposing the fruits to ethylene gas released from liquid ethrel using caustic soda, developed by IIHR. It does not require any sophisticated techniques and can be used as simple and low cost method for uniform accelerated ripening as an alternative to banned calcium carbide method. In offseason of mango, chamber can be used for other fruits like sapota, banana etc. Smt. Elizabeth Joseph, Assistant Professor (Homescience) and Smt. Renisha



J. M., Assistant Professor (Horticulture) and office bearers of Mango Producer Company attended the function.

ICAR-Krishi Vigyan Kendra Kodagu

Training programme on Holistic Approach to Human-Wildlife Conflict Management



A two day training programme on Holistic Approach to Wildlife Conflict Mitigation India was conducted at ICAR-KVK Gonikoppal, Kodagu from 7th – 8th April, 2022. The programme was jointly organised under Indo German cooperation project by ICAR-NAARM and GIZ, India.

The training was mainly conducted for panchayat members and potential members of community-level primary response teams near forest areas. Scientist from ICAR-NAARM, Hyderabad, GIZ, Karnataka forest department and KVK Kodagu participated as resource persons in the two-day programme. The whole training programme consisted of benchmarking exercise, expert inputs, brainstorming sessions, discussion on wildlife behaviour, etc. followed by reflections, clarification and feedback. All the farmer participant trainees were given certificate at the end of the two days training programme. In total 40 trainees participated in the training programme.

ICAR-Krishi Vigyan Kendra Kolar

Awareness program on BIS activities and quality control orders in Agriculture and food commodities



KVK, Kolar has organized sensitization program on BIS activities, eBIS and quality control orders relevant to food and Agriculture department on 8.4.2022 in association with Bureau of Indian Standards, Bengaluru and College of Horticulture, Kolar. Shri. D.M.S. Srinivas, Deputy Director, BIS, Bengaluru highlighted about BIS through its core activities of standardization and assessment, has been benefiting the national economy by providing safe, reliable and quality goods minimizing health hazards to consumers, protecting the environment, promoting exports and imports. K. Thulasiram, Senior Scientist & Head, KVK, Kolar in his remarks mentioned BIS supports safety, consumer protection, food safety, environment protection etc. Dr. H.S. Shivaramu, Dean, COH, Kolar presided the function. 100 students participated in the programme. ▶

Campaign cum demonstration on mechanization in crop residue management

KVK, Kolar conducted campaign cum demonstration on mechanization in crop residue management on 04.04.2022 at Muthunuru. Demonstration was conducted on chapping of serfarm waste into small pieces by using improved chaff cutter. The farmers were also explained about mechanism of using this waste to produce quality manure by using waste decomposer. Mechanization of crop residue will help in effective management and ease the process of formation of manure. Around 60 farmers benefitted by the programme. ▶



On campus capacity development programme

KVK Kolar has organized an on campus capacity development programme in collaboration with Department of Sericulture Kolar on "Management of nutritional and climatic factors in mulberry and silkworm for successful bivoltine cocoon production" on 11.04.2022 at KVK, Kolar. Deputy Director of Sericulture, Zilla Panchayat, Kolar, Assistant Director of Sericulture, Kolar taluk and 60 sericulture farmers participated and benefitted by the programme. ▶



Demonstration of spraying with drones

A demonstration has been arranged for the farmers of sericulture in collaboration with multiplex drone private limited on 11.04.2022 at KVK, Kolar. During the demonstration, the advantages of drone over traditional methods of spraying like less requirement of pesticide solution in a very little time. The operational methods of operating drones were also explained. It also reduces the cost of spraying and it's easy to maintain. ▶

ICAR-Krishi Vigyan Kendra Kollam

Inaguration of egger nurse demonstration unit under Animal Husbandry

Poultry rearing is one of the most dynamic and fast growing Animal Husbandry sector in India as well as in Kerala. Poultry sector is broadly divided into highly organized commercial sector and unorganized sec-



tor. The unorganized sector mainly contribute backyard poultry rearing at homesteads, which plays a key role in supplementary income source and family nutrition. According to the 19th Livestock census total number of Poultry species in Kollam district is 10,70,243, which contributes 4.4% of the State. As per the survey conducted by Animal husbandry Department during 2016-17 the total egg produc-



tion in Kollam district was 196.42 million. But total need of egg in Kollam is about 500 million/year. About 300 million of eggs were imported to district from neighboring states per year. The main challenges faced in backyard rearing in poultry sub-sector include, lack of availability of good quality chicks, low productivity, diseases outbreak due to failure of vaccination.

In order to get self sufficiency of egg production in Kollam district the First egger nursery Demonstration unit of Krishi Vigyan Kendra, under Department of Animal Husbandry started in the year 2021. The unit was officially inaugurated by Dr. D.V.S. Reddy, Principal Scientist & Nodal officer, ATARI, Bengaluru, on the occasion of 17th Scientific advisory committee meeting held on 26.2.2022 at KVK, Kollam. Structure cost of the current demonstration unit was funded by ICAR with an total amount of Rs. 6 lakh. Total capacity of egger nursery unit was of 750 chicks which started functioning on November 2021. Current unit aims for attaining sustainability of egg production in Kollam district by promoting backyard poultry rearing in homesteads, regular supply of good quality healthy egg laying chicks in district, and the conservation



of desi breed variety, Gramapriya. Chicks were reared under scientific Management method by providing proper brooding facility and all the four initial vaccinations and deworming procedures for proper immunity and growth. Chicks at an age of 45 days were distributing to the farmers at a rate of Rs.120. The price of the chicks is fixed as per the government rules so that the financial interest of the farmers are protected also it serves as a income source for the institution

ICAR-Krishi Vigyan Kendra Konehalli, Tumakuru I

Capacity building training programme on Scientific Dairy Farming and Entrepreneurship Development for farm women



ICAR KVK Tumkur 1 has been organised 5 days training programme for farm women on Scientific Dairy Farming and Entrepreneurship Development sponsored by National commission for women, New Delhi from 21st to 25th March 2022. Dr. V. Govinda Gowda, Senior Scientist and Head, KVK Konehalli, Tiptur inaugurated Training programme

and emphasize the need of training programme to the farm women on Dairy sector. Sri Ashutosh Deshpande, Senior Research Officer, NCW, New Delhi addressed the audience through online mode. Dr Umashankar and Dr. Mruthyunjaya and KVK staff were present in the inaugural session. The Resource persons from University of Agricultural Sciences GKVK, Bangalore, Veterinary offices, KVK and Animal hus-

bandry polytechnic college, Tiptur, trained the farm women on Govt. schemes for Dairy farming, importance of vaccination and application of sexed semen in dairy farming, practices to be followed in Dairy farming, value addition in Dairy sector, management of dairy animals, newer suitable fodder varieties and silage making. Totally 25 Trainees were participated and received the certificates ▶



Skill training program for rural youths on Repair and maintenance of Farm machinery & Equipments

ICAR KVK Konehalli organized 6 days skill development training program for rural youths on repair and maintenance of farm machinery from 2nd to 7th March. The program was inaugurated by Dr. V. Govinda Gowda, senior scientist and head, KVK, konehalli and address the importance of maintenance of farm equipments. Dr Mazar ali, Farm Superintendent, ARS, pavagada and KVK scientist were present in the training program. The resource person from ARS, Pavagada, KVK, konehalli, mechinary company and services trained the participants regarding importance of mechanisation, skill teaching on self management of farm equipments, water management, visits to machinery plant, Totally 20 rural youths were participated and received the certificates. ▶

One day workshop on petroleum conservation research association

ICAR KVK konehalli conducted 5 workshop on energy efficient agricultural pump set and water conservation sponsored by PCRA, from 21st to 25th March 2022. The workshop conducted at 5 places near by KVK Konehalli and create awareness regarding energy conservation practices and water conservation methodologies. Totally 150 farmers from 5 workshop were attended. ▶



ICAR-Krishi Vigyan Kendra Malappuram

KVK collaborates with Kerala state bio diversity board seed fest

KVK Malappuram collaborated with Kerala State Bio Diversity Board in organising the seed fest at Perumpadappa with the participation of nearly 15 farmer conservators. KVK Scientist Sri. Abdul Jabbar P.K. spoke on traditional knowledge and conservation strategies. The need to strengthen the panchayath level bio diversity management committees and to initiate people’s bio diversity register in the context of benefit sharing was stressed in the seminar. ▶



KVK supported 14th plan deliberations

KVK supported the Perumpadappa Block Panchayath in conducting a workshop in connection with formulation of the 14th decentralised plan. The workshop was inaugurated by Dr. Thomas Isac former finance minister,



Govt of Kerala. KVK scientist Sri. Abdul Jabbar P. K. conducted focus group discussion on agricultural planning. Various strategies to scale up the productivity of rice in kole lands, the need to enhance cropping intensity of coconut holdings and linking various agro enterprises with home stead farming system were discussed. ▶



Youth tapping incubation facility at KVK

The incubation facility for secondary agriculture ventures at KVK is being utilised by youth for venturing in to agricultural enterprises. KVK supported the youth venturing in to commercial sweet potato chips production with hand holding to experience different stages of production.

Supply chain analysis of water melon precision farming

In order to assess the supply chain of water melon precision farmers, KVK scientists visited the Kattadipadam of Kuruva Panchayath. Various issues of precision farmers in summer vegetables were discussed. Major problems noticed were less pollination and lesser production of female flowers. ▶



Harvest festival under natural farming

Under the natural farming program and supporting the state-wide campaign, njangalum krishiyilekk, the KVK actively participated in the harvest festival of organic vegetables organised by the Krishibhavan Vattamkulam, and organic farmers association

Field school on yield parameters of rice at Moonniyur

In association with the Krishibhavan Moonniyur and Agricultural Knowledge Centre, Parappanangadi the KVK organised a field school at Kaliyattamukk of Moonniyur to sensitise rice farmers on the productivity parameters of rice. The program was organised in the rice field of Sri. Haridasan, the recipient of state award of this year, who had been successful in obtaining better productivity in Uma rice variety in the area. Paired row system, SRI system and seed drum technology were also discussed. ▶



ICAR-Krishi Vigyan Kendra Mangaluru



Diploma in Agricultural Extension Services for Input Dealers (DAESI)

ICAR-Krishi Vigyan Kendra, Mangaluru (Dakshina Kannada) organized DAESI training programme for input dealers of Dakshina Kannada on 04.04.2022. Dr. Raviraj Shetty G, Associate Professor and Head, AHRS, Ullal participated as resource person and delivered the lecture on Importance of Horticultural crops in Coastal region with a focus on cashew crop. Besides this added the points stating that cashew is commercial crop, not only cashew nuts cashew fruits are also highly valuable but we are wasting the cashew fruits instead of using. He also

gives information about pepper pruning.

Dr. Kedarnath Scientist (Plant Protection) in his lecture covered aspects on importance of Pest and Disease Management in Agriculture , Differences between harmful insects and beneficial insects . role of beneficial insects in pollination and control of pest attack. Besides this also conducted practical class on identification of harmful insect effects and beneficial insect attack. Dr. Shamsudheen M, Senior Scientist (Soil Science), ICAR-DCR, Puttur delivered the lecture on soil application of Macro-Micro nutrients, nutrient deficiency symptoms in plants and its management.

Dr. Mallikarjuna L, Scientist (Soil Science) explained about formation of soil, their characteristics, types, and properties. Dr. T. J. Ramesha Senior Scientist and Head, ICAR-KVK, Mangalore, briefed about mandated activities of KVK and also added that making value added products from fish is one of the best ways for women to earn income. ▶



ICAR-Krishi Vigyan Kendra Mudigere

Backyard poultry chicks for livelihood security for economically poor SC farm families

ICAR-Krishi Vigyan Kendra, Mudigere, Chikkamagaluru district under DAPSC Scheme in collaboration with ICAR- National institute of Veterinary epidemiology and disease informatics (NIVEDI) and ATARI, Bengaluru adopted 25 SC farm families at Kengenhalli village of Chikkamagaluru taluk and district. Under this programme distributed 500 Giriraja chicks for 25 SC farm families to increase the standard of living and for their livelihood security. ▶



ICAR-Krishi Vigyan Kendra Mysuru

Certificate distribution to Tailoring trainees

The valedictory vocational training programme on tailoring has been conducted on 12th April 2022 at Pillahalli, Mysuru taluk. Tailoring training was conducted for the period of 4 months by ICAR JSS Krishi Vigyan Kendra, Suttur in association with JSS Jana Shikshana Samsthan, Mysuru and Punyabhumi Trust, Duddagere. 20 trainees were participated in the programme. Certificates were distributed to the beneficiaries of the training. During the programme, Mrs. Shashikala, Director, JSS Jana Shikshana Samsthan, Mysuru, Mrs. H.V. Divya Senior Scientist and Head (I/c), Mrs. Netravati Yattinamani, Scientist (Home Science), ICAR JSS Krishi Vigyan Kendra, Suttur and Mrs. Nagamma, Tailoring teacher and others were participated. ▶





Field visit to Black gram seed production plot (LBG-791) under Pulse Seed Hub Project

On 11th April 2022, field visit was carried out from ICAR JSS Krishi Vigyan Kendra, Suttur, Mysuru to Black gram seed production plot (var. LBG 701) under Pulse Seed Hub Project at Aayarahalli, Mysuru taluk. Mrs. H.V. Divya, Senior Scientist and Head (I/c) and Kum. Shilpa Patil visited the Black gram plot and advised farmers about removal of off types and created awareness about improvement of soil fertility. ▶

ICAR-Krishi Vigyan Kendra Palakkad

Project formulation for NICRA programme

KVK Palakkad conducted a discussion as a preliminary step for formulating project proposals under the NICRA programme at selected village Pattithara, Palakkad. The programme was inaugurated by Pattithara Panchayat president Sri. P. Balan, and presided by Smt.

Sasilekha, Standing Committee chairperson. The scope of the project and the need for its implementations was detailed by Dr. Sumiya K.V, Programme Co-ordinator, KVK Palakkad. The programme was addressed by Assistant Director of Agriculture, Trithala Block, Sri. Benny Sebastian, Ward members of the Panchayat, and farmer representative, Sri. Saidalavi. The programme was attended by, Agricultural Officer, Assistant Engineer (Irrigation), MN-REGS representatives and officials of line departments along with the members of padashekarams. AE explained well on the possibilities of carrying out the project using google map. The programme witnessed a productive discussion with the farmers and officials. In the afternoon, a field visit was conducted to various locations to have a detailed know-how on the area of execution.▶



Workshop on Hi-tech nursery management

A workshop was conducted by KVK Palakkad with the intention of forming a Self Help Group. A three day training programme Hi-tech nursery management and precision farming were conducted. The programme included technical sessions, hands own experience as well as field visits. The sessions held were vegetable grafting, propagation techniques of fruit crops and ornamentals, precision farming of vegetables for crop as well as seed production, hardening of tissue culture plants and hi-tech structures and its maintenance. The trainings were conducted at RARS, Pattambi; Centre for Hi-tech Horticulture and Precision Farming, Vellanikara; Banana Research Station, Kannara and Agricultural Research Station, Mannuthy. The training provided them a basic knowledge of various nursery techniques and enhanced their abilities towards self-empowerment by such skill development programme. ▶



ICAR-Krishi Vigyan Kendra Pathanamthitta

Smt. Sindhu P.C: A Successful Women Entrepreneur Under Arya Project

Smt. Sindhu. P.C of Puthenvittil Seethathodu, Pathanamthitta district running an eco-shop expanded her perspective of alternate income generating activity through Honey bee rearing after she joined ARYA project of KVK, Pathanamthitta by foreseeing the possibilities of exploiting the topography of her area. She registered as ARYA trainee during the year 2019-20. Smt. Sindhu initiated the honey bee rearing unit with an investment of just 10 Indian Bee Boxes. Capacity building programmes of ARYA project motivated her to expand her unit to 50 boxes. With just 10 Indian Bee boxes she obtained about 35 ltr honey worth Rs. 12,250/- in the first year. At present she is actively engaged in rearing of 50 Indian bee boxes from which she expects around 200 kg honey worth around Rs. 70,000/- . She also initiated a small scale processing of bee wax and produced foot cream and moisturizer which

adds up to her income. In addition to Honey Bee Unit she also runs "Farmer's Bio Pharmacy", a shop through which she sells bio inputs, seeds etc. She has also inspired many youth from her locality to be a part of the project. She has become an inspirational model to many women from her area in practicing bee keeping as an additional source of income to support their livelihood. She is also a life member of Thiruvathankoor Then Ulpadana Sangam, a society of honey producers in Pathanamthitta District. ▶



ICAR-Krishi Vigyan Kendra Raichur

Bee-Keeping- An integral part Integrated Farming Systems and income booster for farm families

Beekeeping is a lucrative subsidiary occupation which offers an immense potential for providing employment to farmers especially in our country where many crops, vegetables, field crops, evergreen trees and forests provide required flora. Bee-keepers can get income from the sale of honey, wax and pollen. The initial investment includes the cost on the purchase of bee boxes, colonies, honey extracting machine, gloves, veil and other tools. However, the state horticultural departments provide bee boxes at subsidised rates and also finance for the Bee-garden establishment. Due to low expenditure requirement and high income, beekeeping enterprise can be adopted by

small marginal and even landless farmers. If conditions are favourable, level of bee-keeping can be increased to semi-commercial or commercial level. In this regard, two 7 days on campus training programmes and one three days online training on scientific bee keeping was organised by ICAR Krishi Vigyan Kendra Raichur sponsored by National Bee Board from 15.03.2022 to 31.03.2022 respectively. The training programme included technical sessions comprising of topics like Bee Keeping history, bee species, species of bee that can be domesticated, management of bee boxes in different seasons, bee rearing techniques and tools, importance of horticulture crops in bee keeping, schemes and subsidies for bee keeping by horticulture department, bee keeping for doubling farmers income and bee keeping as a subsidiary occupation in Integrated farming systems. It also included an exposure visit of the trainees to progressive bee keepers place. The involvement of the farmers in training programme was ensuring as the selection of the trainees was done based upon the interest. It was a good sign that about 80 interested farmers from various parts of the district participated in the training and the trainees were enthusiastic to start the Bee-keeping with the acquired knowledge and guidance of the scientists of Krishi Vigyan Kendra, Raichur. ▶



ICAR-Krishi Vigyan Kendra Ramanagara

Graduation Day for DAESI Students

Graduation day for 3rd and 4th batch of self financed one year diploma course entitled "Diploma in Agriculture Extension Services for Input dealers (DAESI)" co-ordinated by MANAGE, Hyderabad through SAMETI(South) was held at KVK, Ramanagara. Dr. S. Rejendra Prasad, Hon'ble Vice chancellor, University of Agricultural Sciences, Bangalore inaugurated the function and in the inaugural address, expressed the importance of this course for Agriculture input dealers who are prime source of the farm information to the farming community besides the supply of fertilizers, pesticides and herbicides. Also highlighted the importance of celebration of "World Health Day".

Senior Scientist and Head KVK, Ramanagara, Dr. Savitha S.M. welcomed the gathering and said that majority of the dealers don't have formal agricultural education. Hence, in order to build their technical competency in agriculture and to serve the farmers in a better way, this program has helped them to learn the location specific crop production technologies with reference to field problems. Dr. Devakumar N, Director of Extension, University of Agricultural Sciences, Bangalore, in his presidential remarks expressed that this program has helped in

building the capacity of input dealers in efficient handling of inputs and to learn about the laws, rules, and regulations governing the agriculture inputs.

Mr. Umesh, Deputy Director of Agriculture, emphasized that educated dealers can act as para extension professional for serving the farming community.

Dr. Shivaramu, Dean, College of Horticulture, Kolar urged the participants for efficient utilization of knowledge gained at KVK such as crop production technologies, watershed, importance of soil testing, INM, IPM, use of farm implements and machineries, seed production, irrigation technologies, weed management, laws, rules, acts etc and also suggested to support the farmers to have a sustainable production in Agriculture.

Mrs. Preethu soil scientist briefed the progress report of the 3rd and 4th batch of DAESI and their performance. Mr. Hanumantharaju and Mr. Basavaraju, facilitators of DAESI course congratulated the students in the completing the course successfully and assisted in distribution of graduation certificates to DAESI students. The top 5 students from each batch were facilitated during this program. Dr Lata R Kulkarni Home Sciences Scientists assisted in oath taking among the certificate holders.

Dr. Dinesh Scientist (Agronomy) delivered vote of thanks. Dr. Soujanya, Scientist (Agril. Extn.) anchored the program. Dr. Rajendra Prasad B.S., Shanta Balagonda and all other staff of KVK, participated in the program. Eighty students participated and procured diploma certificates.



ICAR-Krishi Vigyan Kendra Shivamogga



Capacity Development Programme on “Integrated Farming System”

ICAR-Krishi Vigyan Kendra, Shivamogga conducted one day capacity development programme on “Integrated Farming System” at Madakechiluru village, Shivamogga District on 05-04-2022 for farmers, farm women’s and rural youth. Mr. Prakash, Agriculture Officer, SKDRDP, Shivamogga unit has invited the guests and participants and given the primacy address on the programme. Mr. Suresh, President, Grama panchayath, Madakechiluru inaugurated the programme and given information on importance of scientific farming and urge farmers to adopt new scientific technologies in agriculture for better livelihood.

Dr. Arunkumar, P. Scientist (Agriculture Extension), KVK, Shivamogga explained and given detail information on how Integrated Farming System (IFS) is an interdependent, interrelated often interlocking production systems based on few crops, animals and related subsidiary enterprises in such a way that maximize the utilization of nutrients of each system and minimize the negative effect of these enterprises on environment. During the programme, Farmers, Farm women and rural youth– scientists interaction was held. Participants were also taken to integrated farming system demonstration unit. Totally, 45 farmers, farm women and rural youth were participated in the programme.

Sd/
Senior Scientist and Head

ICAR-Krishi Vigyan Kendra Thrissur



Awareness class on the application of Cassava based biopesticides, viz., Nanma and Sreya for the management of sucking pests in vegetables

Central Tuber Crop Research Institute, Sreearyam, Thiruvananthapuram has developed the technology of cassava based bio pesticides against sucking pests in vegetables. ICAR- Krishi Vigyan Kendra, Thrissur has conducted successful trials on the same. An increase in the menace of sucking pests is observed in vegetables during summer season. In order to address this problem, Krishi Vigyan Kendra, Thrissur,

conducted an awareness programme for the farmers of Wadakkancherry block of Thrissur district on the topic “Management of Sucking Pests in vegetables during summer using Cassava based biopesticides viz., Nanma and Sreya” on 5th April, 2022. Dr. Jayaprakash, Principal Scientist, Central Tuber Crop Research Institute handled the session.

On 6th April, 2022, a Capacity Building programme for Agricultural Officers of Thrissur dis-

trict was conducted at Krishi Vigyan Kendra, Thrissur to augment the dissemination of information on the use of Cassava based biopesticides in agriculture. The Capacity Building programme was also led by Dr. Jayaprakash, Principal Scientist, Central Tuber Crop Research Institute, Sreekaryam, Thiruvananthapuram. ▶



ICAR-Krishi Vigyan Kendra Trivandrum

Hydroponics System – Soilless Cultivation of Plants

Hydroponics refers to the method of growing plants in water and nutrients without soil. This technology helps urban farmers to grow plants in a more productive manner with less labour and time. In this system, the nutrients are fed directly at the root base, never stressing the plant for lack of nutrients and water. Hydroponics growing is ideal for fruit bearing crops such as tomatoes, cucumbers and peppers, leafy crops like lettuce and herbs and flowering plants.

ICAR Krishi Vigyan Kendra, Mitraniketan, Vellanad, Thiruvananthapuram demonstrated hydroponics Nutrient Film Technique (NFT) to enhance the year round production of green house crops. NFT is an active recovery type hydroponics system wherein the nutrient solutions are reused. The demonstrated vertical system has a capacity of 21 plants. The fully automatic system consists of a 18 watts motor and an air filter (running on motor consuming 5 watts power). Urban farming has been promoted widely in Thiruvananthapuram district for



the past three years. Hydroponic system has been widely accepted in these urban areas, as the land is limited and involves minimal labour. Since soil is not being used for cultivation, various soil borne problems due to pest and diseases are absent and growth is enhanced.

During the visit of Dr. DV.S. Reddy, Principal Scientist, ICAR- ATARI on 09/03/2022, various scientific aspects and advantages of the hydroponics technique were discussed. He informed that this was a novel idea and highly suitable for urban farmers as land is scarce for cultivation of vegetables. The technology is 100% soilless and 94% water saving which can be automated. Major advantage of this technique is the increased unit area productivity compared to conventional method.



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Benefits of NFT

- Low water and nutrient consumption.
- Avoids the need to use a lot of growing media.
- Easy to disinfect roots and setup.
- Easy to inspect root quality and health.
- Consistent flow prevents salt buildup in root area.
- Very modular and expandable.

ICAR Krishi Vigyan Kendra, Mitraniketan has initiated measures to popularize this technique among landless farmers and urban folk of Thiruvananthapuram district. ▶

ICAR-Krishi Vigyan Kendra Udupi

Scientific Paddy Cultivation: Training Programme



Keladi Shivappa Nayaka University of Agricultural and Horticultural Sciences, Shivamogga. ICAR-Krishi Vigyan Kendra, Brahmavar, Zonal Agricultural & Horticultural Research Station Brahmavar, Karnataka State. Department of Agriculture, Udupi, Custom Hiring Centre, Pethri has organized Scientific Paddy Cultivation training programme at Yadthadi on 14.04.2022. Shri Mohan Raj, Assistant Agriculture Officer, inaugurated the programme. In his inaugural speech, he has highlighted the improved paddy varieties developed during different seasons



and their importance. He also appreciated the efforts made by Shri. Sathish Kumar Shetty, Progressive Farmer, Yedthadi in scientific Cultivation of University released new variety Sahyadri Brahma.

Dr. Shridevi Jakkeral, Rice Breeder, ZAHRS, Brahmavar participated as resource person and highlighted the Scientific Cultivation of Sahyadri Brahma. Dr. Lakshmana, Associate Director of Research, ZAHRS Brahmavar, Dr. V. Sudhir Kamath, Principal, Agriculture Diploma College, Brahmavar, Dr. B Dhananjaya, Senior Scientist & Head, KVK Brahmavar, B. Ashok, Vimala S Shetty, Custom Hiring Centre, Pethri, Brahmavar, Shri. Rajendra, Official of Rural development programme, Udupi, were chief guests of the programme. During the programme, Shri Megha Ratnakar Shetty, Progressive mechanized farmer and Shri. Y. G. Kamath, Fertilizer distributor, Barkur were felicitated by the dignitaries. Yedthadi Sathish Kumar Shetty Co-ordinated the programme.

ICAR-Krishi Vigyan Kendra Vijayapura - I

Success story on Vermicompost Production under Swachhta Action Plan (SAP)

Keladi Shivappa Nayaka University of Agricultural and Horticultural Sciences, Shivamogga. ICAR-Krishi Vigyan Kendra, Brahmavar, Zonal Agricultural & Horticultural Research Station Brahmavar, Karnataka



State. Department of Agriculture, Udupi, Custom Hiring Centre, Pethri has organized Scientific Paddy Cultivation training programme at Yadthadi on 14.04.2022. Shri Mohan Raj, Assistant Agriculture Officer, inaugurated the programme. In his inaugu-



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ICAR-Krishi Vigyan Kendra Vijayapura - II



Field day on Wheat

A field day on Wheat variety UAS-375 was conducted by ICAR-KVK Indi on 23.03.2022 in the field of Shri Prakash Nimbal, Bairunagi village, Indi taluka. A Front Line Demonstration (FLD) on introduction of new wheat variety UAS-375 given to 05 farmers of this village during Rabi 2021. Dr. Savita B, Scientist (Soil Science) gave information on

importance of UAS-375 is new variety of wheat and it is resistant to rust & good quality of chapatti. The UAS-375 it yields on an average of 25-28 q/ha. The farmer Shri Prakash Nimbal, expressed that he is expecting higher yield this time. Mrs. Heena M.S, Scientist (Horticulture), Dr. S. S. Anjum Scientist (Plant Pathology) and around 40 farmers were participated in the field day programme.



ICAR-Krishi Vigyan Kendra Wayanad



ICAR-KVK Wayanad – conducted Research extension interface

ICAR KVK Wayanad conducted an one-day farmer scientist interface in convergence with Department of Agriculture and farmers welfare. During the interface, the field problems and feed back of farming community were presented by the Assistant Director of Agriculture, Agricultural Officers and farmers of Wayanad. The practical solutions were recommended by the scientists of KVK and RARS. Award winning farmers were felicitated during the programme. ▶



ICAR-KVK Wayanad conducted district level review meeting of FPO's of Wayanad

KVK Wayanad along with NABARD conducted district level review meet of FPO's of Wayanad. The meet discussed on the various activities of FPO's and the main problems identified affecting the activities of FPO's. The faculties of KVK Wayanad and officials of NABARD attend the meeting. Dr.

Safia N.E, Programme Coordinator, KVK Wayanad welcomed the gathering. Assistant General Manager, NABARD dealt with the various schemes and activities that could be clubbed with FPO's. ▶



KVK TIMES

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

