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KVK Times

Fortnightly E Publication of ATARI, Bengaluru

February 1-15, 2022

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Edited & Compiled by
ICAR-KVK Ernakulam



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Volume 01 | Issue 15 | 2022

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KVK Times is a Fortnightly e Publication that covers important activities of KVK's of zone XI

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MESSAGE

DR. V. VENKATASUBRAMANIAN
DIRECTOR, ATARI, BENGALURU



Krishi Vigyan Kendras are all supporting the farmers throughout the ongoing difficult situation of Covid pandemic. Most of the KVKs have been supporting the farmers in marketing of their produce as well as providing online training support. Other social media platforms, website, etc are also being used effectively to support the farmers.

Various field oriented extension programmes, capacity development programmes, programmes of national importance, projects, supply of quality planting materials, poultry chicks and fish fingerlings to needy farmers are being undertaken by these KVKs. This fortnightly KVK times is serving as a mode to promote cross learning and motivate KVK staff to take up similar successful programmes and also is a powerful means of documenting the efforts taken by our KVK staff. I congratulate Dr. Shinoj Subramannian, Principal Scientist & Head, KVK Ernakulam and all the KVK staff for documenting their activities in a time bound manner and making each edition of KVK times possible.

My best wishes to all the KVK staff for rendering valuable services for the benefit of farmers amid the third wave of pandemic.

I wish the publication and the whole KVK Ernakulam team a great success.

Sd/-
(V Venkatasubramanian)

Bengaluru
7 February 2022

MESSAGE

DR A. GOPALAKRISHNAN
DIRECTOR, CMFRI, KOCHI



ICAR-Krishi Vigyan Kendra (Ernakulam) of the Central Marine Fisheries Research Institute (CMFRI), as part of its commitment towards farmers, has adopted the new normal since Covid Pandemic at the start of 2020 and found ways to support the farmers in these difficult times. The lockdowns and restrictions imposed to contain the pandemic have affected the livelihood of many. The KVK shifted all its training programmes to online mode to continue educating farmers even during Covid time using Facebook, whats app groups and other online meeting platforms like google meet. In order to support agriculture and allied sector and to promote self sufficiency, even during covid restrictions following Covid protocols, important farmer participatory programmes were conducted in offline mode also. In addition, the satellite production centres, established in public-private partnership mode in farmer's fields, produce quality vegetable & fruit planting materials , poultry chicks and fish fingerlings(Pearl spot) in large-scale and supply accordingly.

Similarly all the KVKs throughout India are doing a commendable job by handholding the farmers/young entrepreneurs through this difficult pandemic phase. Such activities and efforts surely needs to be documented. I believe the idea to document it in the form of KVK times, wherein all the important fortnightly activities of 48 KVKs of the ATARI zone XI are covered, will be an asset to showcase the important work done by the KVK fraternity.

It is my immense pleasure that our KVK, Ernakulam team is compiling and bringing out this issue of KVK times for the period from February 1-15, 2022. My best wishes to all for doing further fruitful work for the betterment of farming community.

Sd/-
(A. Gopalakrishnan)

Kochi
7 February 2022

ACKNOWLEDGEMENT

DR. SHINOJ SUBRAMANNIAN
PRINCIPAL SCIENTIST & HEAD
ICAR - KVK, ERNAKULAM



KVK Times is a fortnightly e publication of ICAR-Agricultural Technology Application Research Institute, Bengaluru that covers important activities of KVKs of Zone XI. It is a platform where KVK's can showcase their activities and also can serve as a record for future reference. KVK Times is promptly uploaded in the website of ATARI, Bengaluru for wider circulation of the content. This e-publication is compiled and edited by each KVK of the zone on a rotational basis. This issue of KVK Times is compiled by ICAR-KVK Ernakulam functioning under ICAR-Central Marine Fisheries Research Institute (CMFRI), Kochi, Kerala.

With immense pleasure, I bring out this issue of KVK times for the period February 1-15, 2022. I wholeheartedly thank Dr. V Venkatasubramanian, Director, Agricultural Technology Application Research Institute, Bengaluru, for his constant support and encouragement for providing this opportunity.

I would also like to extend my heartfelt thanks to Director, CMFRI for being supportive and motivating us to find new opportunities for reaching out the farming community.

I would like to acknowledge with gratitude and many thanks to all KVKs of Zone XI for sharing their activities in a time bound manner.

I extend my heartfelt thanks to Shri.Mallikarjun Hanji, Nodal Officer of KVK Ernakulam for his support and timely guidance.

I extend my thanks to Dr.Smita Sivadasan, Shri.Pushparaj Anjelo, Subject matter Specialists and whole team KVK, Ernakulam for their constant support and contribution to compile and bring out this issue within the time frame.

Kochi
20 February 2022

Sd/-
(Shinoj Subramannian)

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**ICAR-KVK
Alappuzha**

Large scale demonstration of aerial spraying of nutrients in paddy using drone

Use of drones (UAV) for large scale aerial spraying of nutrients was demonstrated in a total of 175 acres of paddy fields in three villages viz., Edathua, Muttar, and Puliyyur by KVK-Alappuzha in the first fortnight of February. The technology demonstrations in Edathua and Muttar villages of Kuttanad region, a unique wet land ecosystem of below sea level farming, were covered under the NICRA project where a package of climate resilient technologies were demonstrated to paddy farmers. The package included high yielding short duration paddy variety 'Manurathna', sowing of seeds using drum seeder, soil test based nutrient



Demonstration of aerial spraying of nutrients in paddy at Muttar

management, use of Pseudomonas for seed treatment, and placing tricho cards against pests, in addition to the foliar nutrition of multi nutrient mixture through aerial spraying using the drone. The multi nutrient mix 'Sampoorna' from KAU contains B, Cu, Mn, Fe, Zn and Mo which were required for improving the yield and grain quality. Spraying of the multi nutrient formulation using drone (UAV) was carried out in 125 acre of paddy fields in Mulavanakary padasekharam of Muttar and Vadakara padasekharam of Edathua villages. In the meeting arranged on the occasion, Alappuzha District Panchayath Member Smt. V. M. Priya highlighted the role of KVK in implementing the latest technology in farmers' fields of Kuttanad region. Dr. P. Muralidharan, Head, KVK detailed the technology of foliar nutrition using drone to enhance the ag-

ricultural production and profitability of farmers. President and members of the Muttar Grama Panchayath; Asst. Director and Agrl. Officer of Dept. of Agriculture; and more than 50 farmers were present on the occasion. The programme under the FLD of the KVK in Puliyyur village was inaugurated by Shri. M.G. Sreekumar, President of the Grama panchayath in the presence of ward members, Dept. officials, KVK officials, and progressive farmers of the region. An area of 50 acres of paddy was covered with aerial spraying of the micronutrient formulation in this village. Overall, the KVK could create a good awareness on the use of drones in farming activities to the farmers through the demonstrations and the media coverage at a proper time when Govt. of India is promoting use of drones in the sector.



Demonstration of aerial spraying of nutrients in paddy at Puliyoor

ICAR- KVK Bagalkot

Rabi field day and valedictory of training on fruits and vegetable processing - organized at KVK Bagalkot

ICAR Krishi Vigyan Kendra and Agricultural Research Station Bagalkote together organized Rabi field day and valedictory of NABARD sponsored training on fruits and vegetable processing and value addition at KVK Bagalkote on 12.2.2022. This training was organized from 7-13 February 2022. Dr Shripad Kulkarni Principal investigator (NABARD trainings) and Nodal officer for KVKs UASD on his speech highlighted the significance of organizing the field day and valedictory together as it gives an opportunity to get an insight into new crop and opportunities for processing. Dr P L Patil Director of Research, after inaugurating the programme by lighting the lamp deliberated upon the importance of soil testing, use of organics, and importance of crop rotation in enhancing soil fertility, importance of seed treatment and its role reducing the cost of fertilizers. He also released a folder on Banana powder on this occasion. Dr. R B Belli, Associate Director of Extension, RARS Vijayapur highlighted the role of DAESI staff and role of FPOs in processing and value addition of agricultural produce. Another Chief guest, Dr Ashok Sajjan, Associate Director of Research, RARS Vijayapur explained about the improved seed production opportunities, seed availability at the university and other research centre, improved cultivation

practices, farmers; innovations, introduction of new crops, need to replace the sugarcane crop. Dr. Ramakrishna Hegde, Prof. Dept of horticulture, college of Agriculture, in his speech stressed upon the introduction of seed spice could add to increase the income of farmers with less exploitation of natural resources. Smt Yamuna Pai DDM NABARD Bagalkote highlighted the facilities available with NABARD for the farmers for starting an enterprise and also benefits to Farmer Producer Organizations. Shri P K Patil president Krishik Samaj was also present on the dias. Dr. Arun Sataraddi, Senior Farm Supdt explained about various technologies exhibited in the field and proposed vote of thanks. A total of 135 participants including scientists of KVK. An exposure visit was arranged to different demonstration units of KVK exhibiting crops, technologies and units of Integrated Farming System and seed processing unit.

Nabard sponsored 7 days training program on Processing and Value addition of fruits and Vegetables to FPO members of Bagalkot district

Inauguration function of NABARD sponsored 7 days training program on Processing and Val-

ue addition of fruits and Vegetables to FPO members of Bagalkot district on 07.02.2022 at KVK Bagalkot and delivered lecture on Scope and opportunities in fruits and vegetable processing by Dr. Airadevi Angadi, scientist (Horticulture) ICAR-KVK, Bagalkot. Dr. Sripad Kulakarni, Nodal officer KVKs and PI of Nabard program, UASD and Dr. Bhuvaneshwari G., Prof and Head, Dept of PHT, UHS, Bagalkote and Dr. M. R. Kammar, Senior Scientist and Head, KVK Bagalkote were present for the program. Dr. Airadevi Angadi, scientist (Horticulture) ICAR-KVK, Bagalkot, delivered lecture on Value addition to Drumstick during 7 days training program on Processing and Value addition of fruits and Vegetables to FPO members of Bagalkot district on 09.02.2022 at KVK Bagalkot.

NABARD sponsored 7 days program on Processing and Value addition of fruits and Vegetables

NABARD sponsored seven days (07.02.2022-13.02.2022) training program on Processing and Value addition of fruits and Vegetables to 25 FPO members of Bagalkot district was inaugurated on 07.02.2022 at KVK Bagalkot. Eminent speakers from UHS, Bagalkote, UAS Dharwad,



Valedictory function: Training on Processing and Value addition of fruits and Vegetables



Participants of NABARD sponsored program on Processing and Value addition of fruits and Vegetables

UAS Raichur, Future Greens NGO, CEDOK Bijapur, Laxmi Sai Fig processing unit, Bellary, NABKisan, highlighted on the methods and technologies for processing and value addition to fruits and vegetables, Post-harvest handling of fruits and vegetables, Labelling and branding, Bankable project report preparation, Horti-prenuer development, Availing loans through banks, management of stored products for extended shelflife, hands on training experience on BAKAHU preparation, baked products, Drumstick value addition, preparation of lime powder, RTS and juice, fruit bars and lather, Jam and Pickling was done. As a part of training two days exposure visit was organised from 10.02.2022 to 11.02.2022 to fruit and millet processing laboratory, UAS Raichur, Pesticide Residue laboratory, UAS Raichur, Processing industries, Fig processing industry, Kurugod, Bellary. During closing ceremony program on 12.02.2022, a folder on Value addition to banana was released. Closing ceremony, Folder release and certificate distribution of Nabard sponsored 7 days

training program on 'Processing and Value addition of fruits and Vegetables' to FPO members of Bagalkot district and Rabi Field day was organised on 12.02.2022 at KVK Bagalkot. Dr. P. L. Patil, DR, Dr. Ashok Sajjan, ADR, Dr. R. B. Belli, ADE, Dr. Sripad Kulakarni, Nodal officer KVKs and PI of Nabard program, Dr. R. V. Hegde, Prof. (Horticulture), Dr. Arun Sataredi, Head ARS Bagalkot, UASD and Smt. Yemuna Pai, DDM, Nabard, Bagalkot, Dr. M. R. Kammar, Senior Scientist and Head, KVK Bagalkote, Dr. Airadevi Angadi, Scientist (Horticulture), KVK, Bagalkot graced the occasion. 150 farmers participated in the program.

Celebration of Important Days

World pulse day was celebrated at ICAR-KVK, Bagalkote and Narenur L.T on 10.02.2022.

Diagnostic Visits

Diagnostic field visit to Pigeonpea at Amaravathi, village of Hungund taluka, visited by Dr. Dinesh Kumar S.P. Scientist (Agronomy), ICAR-KVK, Bagalkote along with DMAC, Officers, Hungund on 14.02.2022.

Diagnostic field visit to Sugarcane at Narenur L.T and Udagatti village of Bagalkote visited by Dr. Arjun R.S. Scientist (Agril. Entomology), ICAR-KVK, Bagalkote along with KSDA, staff on 14.02.2022.



Glimpses of World pulse day celebrations.

ICAR-KVK Ballari

Inauguration of DAESI programme at ICAR-KVK, Ballari

DAESI (Diploma in Agriculture Extension Services for Input Dealers) for the year 2021-22 was inaugurated at ICAR-KVK, Ballari on 03-02-2022. Dr. M. Gopal, Professor and State Nodal Officer (DAES), SAMET, NORTH, UAS, Dharwad inaugurated the programme along with other dignitaries and spoke on the scope of DAESI and narrated each and every aspect of the diploma which helps to mould and enable input dealers into strong para-extension personnel which in turn will help in dissemination of scientific know-how on agricultural practices in a given locality. Dr. Ravishankar, G., Campus Head, ARS, Hagaripresided over the function. Dr. Ramesh, B.K., Nodal Officer and Senior Scientist and Head, KVK, Ballari welcomed the gathering and briefed on the importance of DAESI and



Inauguration of DAESI programme

the role expected from the diploma candidates in strengthening the agricultural extension. Joint Director of Agriculture, Ballari, Sri. Mallikarjuna K., Dr. Basavanappa, Head, ARS, Siruguppa and Shri. Inatha Reddy, President of Input Dealers Association, Ballari and all the staff and scientists of KVK, Hagari took part in the programme. First class of DAESI was organised on 10.02.2022. Dr,

Ravi, Soil Scientist, KVK, Ballari during his first session discussed on soil types, importance of soil fertility and methods to enhance it. During the afternoon practical session methods of soil sampling and methods of soil analysis along with its interpretation were taught to the DAESI candidates. Sri Basavaraj, Facilitator, DAESI programme at KVK, Ballari co-ordinated the activities.



Method demonstratiion on soil sampling to DAESI candidates



SAC Meeting

ICAR-BIRDS KVK, Belagavi-1

SAC Meeting

ICAR-BIRDS KVK, Belagavi-1 conducted its 16th Scientific Advisory Committee Meeting on 04-02-2022. Dr. Venkatasubramanian, Director of ATARI, Zone XI, Dr. Balachandra Naik, Director of Extension UAS, Dharwad were the chief guests for the meeting and deliberated suggestions on the KVK activities and future course of action. District officers from line departments like Dept. of Agriculture, Dept. of Horticulture, Dept. of Fisheries, Dept. Sericulture have participated and discussed upon the current issues to be addressed by KVK. Dr. Kerotige, Dean, KRCCH, Arabhavi, Dr. P. S. Hugar, Asst. Director of Extension, UAS(D), Dr. Mallikarjun Hanji, CTO of ATARI, Zone XI, and Dr. Sripad Kulkarni, Nodal officer to KVK also took part in the meeting and suggested technological solutions for the issues of the district. Chairman of the KVK Mr. R. M. Patil chaired the session

and Ms. Rekha Karabhari, Senior Scientist of the KVK presented the action taken report, results of interventions and action plan for coming year.

Demonstration of Sea bass fish

ICAR-BIRDS Krishi Vigyan Kendra, Belagavi -1 has implemented demonstration of Sea Bass fish farming in farm ponds. Basically, Sea bass is an estuarine fish which is carnivorous by nature. This species will be acclimatized for fresh water and pelleted feed before releasing to inland water.

This fish species is introduced in Belagavi district for the first time and demonstrations being conducted in three farmer's ponds. The size of the fish were 4 inch while stocking and it will take 11 to 12 months to reach the market size of 1 Kg. This variety is having good market demand and considered as high valued fish which fetches around Rs.400 to Rs.450/- per kilogram. Director of ATARI, Dr. Venkatasubramanian, Chairman of the KVK Sri. R. M. Patil, Dr. M. Hanji, CTO, ATARI, Bengaluru had facilitated the implementation of the demonstration.



Dr. V. Venkatasubramanian, Director, ATARI distributing Seabass fish seeds.

ICAR-KVK Belagavi -II

**KVK Signed MoU with ICAR-IISR,
Indore for Soybean Seed Production**

Belagavi district ranks 2nd in Karnataka in terms of area under soybean cultivation. It is important to enhance both production and productivity of soybean with supply of quality seeds of new varieties to double the farmers income. But, the availability of quality seeds of soybean is very meager. In this connection, Dr. Prabhakar B. Kore, Chairman, KLE

Dr. Sanjay Gupta, Principal Scientist, ICAR-IISR, Indore and Dr.V. Venkatasubramanian, Director, ICAR-ATARI, Zone-XI, Bengaluru were present during the signing of MoU. The programme will be implemented under overall guidance of Dr. R. R. Hanchinal, Former Chairperson, PPV&FRA, New Delhi and Former Vice-Chancellor, UAS, Dharwad. Mrs. Sridevi B. Angadi, Senior Scientist & Head and Shri. G.B. Vishwanath, Scientist (Agronomy) are involved in implementation of the project in the district. The project has a duration of five years, during which

sufficiency in oil seed production in the country.

Deputy Commissioner & Scientists visit seed production plots

Scientists from ICAR-IISR, Indore Dr. Nita Khandekar, Director and Dr. Sanjay Gupta, Principal Scientist, Shri. B.K. Shrivastav, Deputy Commissioner, Oil Seeds Division, DAC&FW, New Delhi and Dr. R.R. Hanchinal, Former Chairperson, PPV&FRA, New Delhi & Former Vice Chancellor, UAS, Dharwad visited soybean seed production plots at Ankali, Manjari, Manjari-



Signing of MoU with Government of India for Soybean Seed Production

Society, Belagavi announced that ICAR-KLE Krishi Vigyan Kendra, Mattikopp signed MoU with Government of India to initiate large scale production of soybean seeds of new varieties and will be provided to farmers of Belagavi, Karnataka and other states like Madhya Pradesh, Uttar Pradesh and Bihar. Dr. Prabhakar B. Kore, Chairman, KLE Society, Belagavi and Dr. Nita Khandekar, Director, ICAR-Indian Institute of Soybean Research, Indore signed the MoU. Shri. B.K. Shrivastav, Deputy Commissioner, Ministry of Agriculture & Farmers Welfare, New Delhi, Shri. B.R. Patil, Chairman, ICAR-KLE KVK, Mattikopp,

the farmers will be educated on production technologies and large-scale soybean seed production of new varieties in association with ICAR-IISR, Indore to supply the seeds to farmers of Karnataka and other states. The project will also help in increasing the area under new varieties of soybean in Tamil Nadu, Orissa and North Eastern states. Once the project is implemented soybean seed production is taken up in three seasons in one year (3S1Y). Dr. Prabhakar B. Kore added that this project will support the objectives of Prime Minister's programme on Atma Nirbhar of achieved self-sustainable

wadi, Yadur, Kerur and Bavana Saundatti in Chikodi taluk on February 12, 2022.

It is to be noted that ICAR-KVK, Mattikopp has taken up the large scale seed production of new varieties of soybean in collaboration with ICAR-IISR, Indore with an objective of production and supply of seeds to farmers. KVK Advisor, Dr.R.R. Hanchinal, Mrs. Sridevi B. Angadi, Senior Scientist & Head and Scientist (Agronomy) G.B. Vishwanath interacted with visiting officials and Scientists and explained the implementation process and knowledge being provided by KVK to farmers on production technologies. The



The Deputy Commissioner along with Scientists visiting seed production plots

officials and Scientists expressed their happiness over the performance of new varieties and appreciated the lead being initiated by KVK under the guidance of Dr.R.R. Hanchinal for large scale production of soybean seeds enabling the efforts of Government of India to provide quality seeds to Karnataka and other states of India to meet self-sufficiency in oil seed production in the country.

Celebration of World Pulses Day

ICAR-KLE Krishi Vigyan Kendra, Belagavi-II organized World Pulses Day and conducted Field Day on Bengal gram under NFSM at Ingalagi village in Savadatti taluk, Belagavi district. The programme was inaugurated by Shri. Somappa Nagappa Kurubar, President, Prathamika Krishi Pattina Sahakari Sangha (PKPS), Ingalagi. S.M. Warad, Scientist (Soil Science) said that there is a great demand for production of pulses in the country to meet the growing population. The situation warrants for immediate attention and measures to enhance the

production of different pulses in the country.

In view of this, Indian Council of Agricultural Research is organizing national level campaign on World Pulses Day with the theme Atmanirbhar Bharat-Harvesting Potential Pulses for Import Substitution on 10 February 2022. He highlighted that, cluster frontline demonstrations are being conducted on recent variety Jaki-9218 of Bengal gram under NFSM along with seed treatment

with bio-fertilizers, Rhizobium, PSB, plant protection measures to popularize the technologies among the farming community to boost the production of Bengal gram. Dr.S.S. Hiremath, Scientist (Plant Protection) explained various diseases and insects that appear on Bengal gram and briefed their control measures. A total of 51 farmers participated in the Field Day and visited the demonstration plot.



Glimpses of World Pulse Day celebrations



Exposure visit to sheep and goat rearing unit

ICAR – KVK, Bengaluru Rural

Training on Scientific Rearing of Sheep and Goat

ICAR-KVK, Hadonahalli, Doddaballapur and CBM India Trust, Bengaluru jointly organised the training program for the persons with disabilities and their family members on scientific rearing of sheep and goat at ICAR-KVK, Hadonahalli, Doddaballapur, Bengaluru rural district for 3 days. The program was scheduled between 02.02.2022 to 04.02.2022 and was inaugurated by Dr.G. M Nagraj, Deputy Director, Department of Animal Husbandary and Veterinary Services, Bangalore (Rural), Dr. Manjunath, Scientist (Plant Protection), KVK, Hadonahalli and Sebastin, C., Composer of CBM India Trust. Total number of participant for the program was 25 members.

In this programme the trainees gained the knowledge about housing systems for sheep and goat, nutrition and their disease management along with their value added products. The trainees were also taken for exposure

visit to well established farmers sheep and goat unit at Ganasandra village.

Skill training on Integrated Pest Management in Vegetable Crops

ICAR-KVK, Hadonahalli, Doddaballapur in association with MANAGE, Hyderabad conducted skill training program for rural youths on Integrated Pest Management in Vegetable Crops at ICAR-KVK, Hadonahalli, Doddaballapur, Bengaluru rural district for 6 days. The program was scheduled between 7.02.2022 to 12.02.2022 and was inaugurated

by Dr. A. P. Mallikarjuna Gowda, Senior Scientist and Head, ICAR – KVK, Hadonahalli, Bengaluru Rural District along with other Scientists. Total number of participant for the program was 15 members.

In this programme the trainees gained the knowledge about Pest and disease resistant varieties in vegetables, Role of nutrients in vegetables in relation to pest & disease management, Pesticide residual analysis in vegetable crops and Integrated management of fruit flies in vegetables etc.



Scientist explaining various diseases of vegetable crops

ICAR-KVK, Chikkaballapura

Method demonstration of waste decomposer

ICAR- KVK, Chikkaballapura in collaboration with line departments organised Kisan mela programme in NICRA Village, Hanumaigarahalli, Chintamani Taluk. Dr. Papireddy, Senior Scientist and Head, emphasised on activities undertaken under NICRA project and need of integrated farming system to improve the livelihood security of farmers. Mr. Vishwanath, Scientist (Agronomy) explained about soil and water conservation technologies for dry land areas. Dr. Tanweer Ahmed, Scientist (Agricultural Extension) conducted method demonstration of preparation



Kisan mela programme in NICRA Village,
Hanumaigarahalli, Chintamani Taluk

of waste decomposer and explained about need and importance of waste decomposer.

World Pulses Day 2022

ICAR- Krishi Vigyan Kendra, Chikkaballapura organised World Pulses Day programme on 10.02.2022 at Brahmanadinne village of Chintamani taluk. Dr. Tanweer Ahmed, Scientist (Agricultural Extension) highlighted the significance of the World



World Pulses Day 2022
celebrated by KVK

Pulses Day and also explained about benefits associated with production and processing of Pulses. 50 farmers participated in the programme.

ICAR-KVK, Chikkamagaluru

Celebration of Field day on Chickpea on occasion of World Pulse day

I.C.A.R-Krishi Vigyan Kendra, Chikkamagaluru organized world pulse day and Field day Programme on Chickpea on 10.02.2022 at Tadaga village of Ajjampura taluk. The programme was inaugurated by Dr. A.T. Krishnamurthy, Senior Scientist and Head, KVK, Chikkamagaluru, in his inaugural speech briefed about the celebration of pulse day, a unique opportunity to raise public awareness about pulses and the fundamental role they play in the transformation to more efficient, inclusive, resilient and sustainable agri-food systems for enhance production, good nutrition and security for a



Glimpses of World Pulse day celebrations

healthy life. Pulses contribute to environmental benefits. The nitrogen- properties of pulses improve soil fertility, which increases the productivity and fertility of the soil.

Dr. Girish, R., Scientist (Plant protection), KVK, Chikkamagaluru, briefed about the integrated pest and disease management in chickpea and explained about the use of pheromone traps in effective control of pests further he briefed about the importance of micronutrients in pod formation. Shri. Girirajappa, beneficiary farmer of Tadaga village



Glimpses of World Pulse day
celebrations

shared his experience about the use pheromone traps, which has reduced the infestation of pod borer. He also mentioned that the use of micronutrients has increased the pod yield from 40-55 pods per plant to 75-80 pods per plant. The programme was witnessed by around 35 farmers.



Demonstration on value addition by making pulse based products

**ICAR-KVK,
Dakshina Kannada**

World Pulse Day - 2022: Pulses to empower youth in achieving sustainable agri-food systems

World Pulse Day – 2022 was celebrated at ICAR -KVK, Dakshina Kannada by conducting capacity development programme, method demonstration and exhibition on value addition in pulses for Anganavadi helpers, farmers and SHGs. On this occasion Dr. A. A. Fazal, Food Scientist, Retired Pro-

fessor and District Resource Person for PMFME scheme explained about importance of pulses in human diet, processing of pulses and schemes available under PMFME scheme. Mrs. Nalini, Women entrepreneur demonstrated on preparation of pulse-based products like Idli, Dosa, Paddu, Pappad, Sweets, Padenji, etc. Dr. Naveen Kumar B.T. Scientist (Agronomy) explained about production technologies of pulse crop during rabi/summer in coastal. Dr. T. J. Ramesh, Senior Scientist and Head, presided over the function and urge the participants to educate

their respective village farmersto go for pulse-based cropping system to enhance the farm productivity and profitability. Exhibition was organised to exhibit different products of pulses prepared by women entrepreneur Mrs. Nalini. Exposure visit was made to green gram (BGS-9) demonstration plot established at KVK instructional farm. A total of 42 participants actively participated and the programme was ended with serving padenji (a local nutrient packed dish made from green gram) to the participants.

ICAR- Taralabalu KVK, Davanagere

Use of organic practices in Nutrigarden

ICAR- Taralabalu Krishi Vigyan Kendra, Davanagere conducted one day training programme on use of organic practices in Nutri-gardern. Mr. Basavanagowda M.G. Scientist (Horticulture) demonstrated the use of Neem Kashayam and delivered the lecture on importance of growing the fruits and vegetables organically.

Dr. Supriya P. Patil (Home Scientist) explained about the health benefits of consuming organically grown fruits and vegetables. During the programme Mr. Raghuraj J. Scientist (Agril. Extension) and 30 farm women were present.

Follow up Field visit to CFLD-Groundnut plot

ICAR- Taralabalu Krishi Vigyan Kendra, Davanagere conducted field visit to the NMOOP- CFLD groundnut plots at Siddamanhalli, Jagalur taluk. Mr. Mallikarjuna B.O SMS (Agronomy) explained



Groundnut NMOOP CFLD field visit at Siddamanhalli

to the farmers about the application of Gypsum @ 200 kg/acre. Dr Devarja T.N., SSH and Mr. Basavangowda SMS (Horticulture) were present during the field visit.

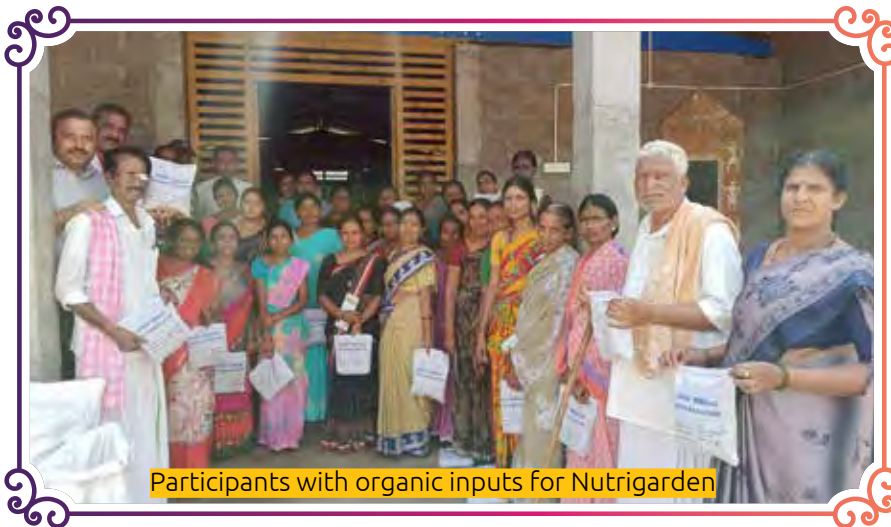
World Pulses Day

ICAR- Taralabalu Krishi Vigyan Kendra, Davanagere conducted the world pulses day programme at Arasinagundi, Jagalur taluk in collaboration with Department of Agriculture, Jagalur. World Pulses Day programme was inaugurated by Mr. Ajjaganavar, Board Member, UAS, Dharwad. Mr. Thippeswamy, DDA, Department of Agriculture, Davanagere in his preamble speech expressed that the 'World Pulses Day' will be great day in future. Farmers should grow more and more pulses in dryland area. Re-

cent trends tell that pulses area is increasing day by day.

Mr. Mallikarjuna B.O., Scientists, explained the production potential of pulses. The United Nation decided to create awareness on pulses on 10th February every year. The technologies to increase the production and productivity of pulses are seed treatment with bio-fertilizer, Use High yielding varieties, Integrated pest management, use of pulse or chickpea magic @ 5 g/l of water and post-harvest technology.

Dr. Devaraja T.N., Senior Scientist Cum Head in his presidential remarks he expressed following points: 50 million Children in India are mal nutrition. Nutritional deficiency among children particularly in rural area needs attention. Every day 200 g proteins to be consumed per person. (1 billion ton /year). Waste of foods should be stopped. Pulses will help in improving income, health and happiness. Show interest in organic practices. Add tree farming for sustainable agriculture with fruits of multiple species. Improve the yield of pulses with improved production technologies. New FPO in Bidarakeri-New hope- Membership. Agriculture with smart team work will be effective. Carona has taught us that health is more important than money.



Participants with organic inputs for Nutrigarden

ICAR-KVK, Dharwad

Training on Mango Cultivation, Processing and Value Addition and Symbolic inaugural of the Integrated Farming System programme to be implemented at Honnapur village

University of Agricultural Sciences, Dharwad, Directorate of Extension, ICAR-Krishi Vigyan Kendra, Dharwad and National Bank for Agriculture and Rural Development (NABARD), Dharwad jointly organized training programme on "Training on Mango Cultivation, Processing and Value Addition" and symbolic inaugural of the Integrated Farming System programme to be implemented at Honnapur village at Vice Chancellor's Conference Hall, UAS, Dharwad on 14.02.2022. Dr. M. B. Chetti, Vice Chancellor, UAS, Dharwad inaugurated the programme and expressed that due to climate change mango growers are facing many problems related to pest and diseases. Therefore farmers must concen-

trate on processing and value addition of mango. He also stressed on the balance of sweetness and acidity in mango, which are the main factors for export of mango in the International market. Hence, farmers are advised to get enlightened with the trainings related to production technology, processing and value addition from KVKs of UAS, Dharwad. Dr. V. Venkatsubramanian, Director, ICAR-ATARI, Zone-XI, Bengaluru and Chief guest of the programme, conveyed that among the 1500 varieties in mango only 50 varieties have been commercialized. He guided the farmers that, processing, value addition, packing and branding of mango fetches more remunerative price for the farmers. He also asked KVK to produce quality mango planting material through participatory approach involving FPOs and SHGs. Shri Mayur Kamble, District Development Manager, Dharwad and guest, provided information regarding loan and other subsidies under PMFME scheme and facilities available for sales, cold storage unit un-

der NABARD. Dr. Balachandra K. Naik, Director of Extension, UAS, Dharwad, in his presidential remarks highlighted importance of nutrient management in mango. Directorate of Extension is timely providing advisories through news papers regarding pest and disease management in mango. He also asked the farmers to actively participate in the ongoing training programme on Mango Cultivation, Processing and Value Addition scheduled from 14-20 February 2022. Shri Ramappa Nandanawadi, Progressive Farmer, Honnapur village shared his experiences about the project. Dignitaries symbolically inaugurated the Integrated Farming System programme to be implemented at Honnapur village and released KVK Times - KVKs News Letter, Mango Special - Micronutrient mixture produced by ICAR-KVK, Dharwad. Dr. P. S. Hugar, Associate Director of Extension, UAS, Dharwad welcomed the dignitaries and farmers. Dr. Shripad H. Kulkarni, Nodal Officer (KVK), Directorate of Extension, UAS, Dharwad gave introductory



Inauguration of the Integrated Farming System programme



Training and awareness programme on Energy efficient pumpsets & Water Conservation

remarks about the training and Integrated Farming System project. Dr. S. A. Biradar, Senior Scientist and Head, ICAR-KVK, Dharwad presented vote of thanks. More than 50 farmers and farm women, staff of Directorate of Extension and Krishi Vigyan Kendra witnessed the programme.

Training and awareness programme on “Energy efficient pumpsets & Water Conservation”

The training and awareness programme on “Energy efficient pumpsets & Water Conservation” was organized in collaboration with Karnataka Renewable Energy Development Limited (KREDL), Bengaluru by ICAR-KVK, Dharwad on 08.02.2022 at Pudukalakatti village. The program was inaugurated by Dr. Balachandra K. Naik, Director of Extension, UAS, Dharwad and other dignitaries by lighting the solar lamps. During the inauguration, the President of the programme Dr. Balachandra K. Naik explained the importance of the renewable energy and water conservation and advised the farmers to keep in touch with the KVK scientists. The Nodal officer

(KVKs), Directorate of Extension, UAS, Dharwad and Chief guest of the programme Dr. Shripad H. Kulkarni, addressed the gathering and highlighted the importance of water in the present situation, the use of solar energy is utmost important for the farming community in order to save electricity. Shri. Madivalappa Tegur, President, Gram Panchayat, Pudukalakatti, gave a call to the farmers that the natural resources viz., air, light, water are important for the benefit of future generation. He further requested the farmers to concentrate more on water conservation aspects. Smt. Savita Meti, AGM, KREDL, Hubli-Dharwad, explained in detail about the facilities extended from BEE star solar pump sets, further highlighted about availability of different renewable resources in the environment. Dr. P. S. Kanannavar, Agriculture Engineer, IWMRC, Belavatagi, educated the farmers regarding water and soil conservation measures, land leveling, borewell recharging structures that can save excess runoff water. Mr. Rohith Gondali, Programme Associate, Deshpande Foundation, Hubballi explained in brief about

the water harvesting structures and the facilities available from Deshpande Foundation towards the construction of new farm ponds. Farmers interacted with Mr. Rohith Gondali regarding facilities of loan for construction of new farm ponds. Mr. Veeresh Tadahal from SELCO Foundation, Dharwad exhibited different solar energy models and explained about use of solar sprayers in agriculture. Dr. S. A. Biradar, Senior Scientist and Head, KVK, Dharwad delivered an introductory remarks and welcomed the dignitaries. Smt. Netravati Budarkatti, Vice President, and other members of Gram Panchayat, Pudukalakatti, Dr. Punitha B. C., Scientist (Soil Science), Dr. Prasannakumar B. H., Scientist (Agronomy), Smt. Kalavathi K. Kambli, Scientist (Plant Protection), ICAR-KVK, Dharwad were present. About 105 farmers and farm women including invitees, staff from Deshpande Foundation and SELCO Foundation witnessed the programme. Dr. Praveen T. Goroji, Sr. Technical Officer compeered the programme and Dr. Geeta S. Tamgale, Scientist (Home Science), ICAR-KVK, Dharwad presented vote of thanks.



Training on Pearlsport fish seed production

ICAR-KVK Ernakulam

Training on Pearlsport fish seed production conducted

The KVK Ernakulam conducted one day training on Pearlsport fish seed production at Karumaloor on 10th February 2022. Topics on brood stock health management and long distance seed transportation protocol were covered. Shortage of quality seeds is the main issue faced by Pearlsport farmers. The KVK has been training and encouraging traditional fish farmers to take up Pearlsport seed production and consequently 10 trainee farmers have established seed production units in the district.

Multi Disciplinary Diagnostic Team (MDDT) visited farmer fields

Multi Disciplinary Diagnostic Team (MDDT) comprising of experts from Kerala Agricultural University (KAU), Ernakulam Krishi Vigyan

Kendra (KVK), Agricultural Officers and ATMA Block Technology managers visited Banana fields in Uliannur, Karumallur and Alengad on 6th February, 2022. Infestation of rhizome weevil, lace wing bugs, burrowing nematode and

nutrient deficiencies observed and management measures suggested. Dr. Gavas Ragesh, Asst Professor (Entomology) represented KAU and Shri. Shoji Joy Edison, Subject Matter Specialist (Horticulture) represented KVK.



A local Newspaper report on Multi Disciplinary Diagnostic Team visit



Field day on bengalgram

ICAR-KVK Gadag

Field day on Bengal gram

On 01-02-2022, ICAR-K.H.Patil Kri-shi Vigyan Kendra, Hulkoti organ-ised field day at Chikkasavanur vil-lage of Shirahatti block. The field day was organised under NFSM-Front Line Demonstration in Shri Ravi Kanakeri's field.

Dr. Gururaj Kombali, SMS (Agron-omy) briefed about high yielding

Bengalgram varieties and their cultivation aspects. He opined adoption of improved JAKI-9218 variety along with timely plant protection measures helps in increasing the productivity of the crop. He explained manage-ment of rust disease and pod borer in Bengalgram crop. Shri N.H.Bhandi, SMS (Soil Science) explained the improtance of soil health and balanced nutrition in doubling of farmers income. For the year 2020-21, about 25 demonstrations in farmers' field

on Bengalgram crop with various technological components were demonstrated in Chikkasavanur village. More than 30 farmers par-ticipated in the programme.

Kissan Mela at NICRA village

The Kissan Mela was organised at Singatarayanakeri village of Mundaragi block on 29-01-2022 under NICRA Project. During the mela, the various activities take-nup by KVK in the village under NICRA Programme from 2015-16 to till date were briefed to farmers and farm women. Shri N.H.Bhandi, SMS (Soil Science) and incharge of NICRA Project spoke on climate resiliant tech-nologies on different crops to enhance the yield under climate change scenarios. This mela was organised with the objective of creating awareness on the NICRA Programme to cluster villages viz., Kadampur, Shivajinagar. 180 farmers, farm women and rural youths participated in the mela.



Kissan mela at NICRA village

ICAR-KVK, Haveri (Hanumanamatti)

Capacity Building of Farmers through Training Programmes on Profitable Dairy Farming and Livestock Management

The ICAR-Krishi Vigyan Kendra, Haveri (Hanumanamatti) conducted three day's training programme on "Profitable and Sustainable Dairy Farming" from 07.02.2022 to 09.02.2022 under the project entitled "Capacity Building of Farmers through Training Programmes on Profitable Dairy Farming And Livestock Management" sponsored by Ministry of Fisheries, Animal Husbandry and Dairying, Department of Animal Husband-

ry and Dairying, Government of India New Delhi.

Dr. Mahesh Kadagi, Scientist (Animal Science), organized the training programme. Inaugurated by Dr. DVS Reddy, Principal Scientist and Nodal Officer of KVKs, ATARI Bengaluru, in his speech he briefed about adopting scientific methods in dairy farming and new fodder crops for dairy animals. Dr. Ashoka.P, Senior Scientist and Head, during his presidential speech briefed about Animal husbandry depended integrated farming system and doubling the farmers income. Dr. Narendranath Chowdala, Assistant Director, Department of Animal husbandry and Veterinary Services, Byadagi given lecture on different infectious and

metabolic diseases of dairy animals and Vaccination Schedule. Experts in the field of animal husbandry and agriculture were participated as resource persons and delivered lecture on various topics. A total of 40 farmers were benefitted from this training programme.

ICAR - Krishi Vigyan Kendra, Haveri (Hanumanmatti) organized field day on rabi sorghum (SPV - 2217)

ICAR - Krishi Vigyan Kendra, Haveri (Hanumanmatti) organized field day on rabi sorghum (SPV - 2217) at Kamadod village of Ranebennur taluk on 9.2.2022. The event was chaired by Dr. Ashoka P, Senior Scientist and Head KVK Haveri, explained on



A meeting with farmers of NICRA village



Glimpses of Rabi sorghum field day

rabi sorghum is the main food and forage crop in the Northern part of the Karnataka .This new variety yields 15 to 18 per cent higher yields than the Maldandi variety. During the harvest leaves are green and the quality of forage is good for the cows and the variety has lodging resistance and stay green fodder at the time of harvest. Then Dr. DVS Reddy, Principal Scientist (Agronomy), Nodal Officer, ICAR-ATARI, Bengaluru explained to farmers on long ago growing of Malindi (M-35-1) variety. It is still a very popular variety however, SPV-2217 rabi sorghum cultivar has been found to have similar and better qualities. The seed of the same breed could be used by other farmers in the coming days. He emphasized on coconut farming as an inter-cropping system in integrated farming. The scientists of the KVK discussed

the activities of the farmers with emphasis on better farming.

Selection of village for implementation of NICRA activities by KVK Haveri

During 2021-22 NICRA project has been allotted to KVK Haveri by CRIDA Hyderabad. It has been directed by ATARI Bengaluru to implement NICRA. Preliminary selection work has been conducted by KVK scientists by finalizing three villages for the visit of nodal Officer of KVKs. The Principal Scientist and Nodal Officer of KVKs Dr.D.V.S.Reddy, ATARI, Bengaluru visited KVK, Haveri (Hanumanamatti) on 08-02-2021 and 09-02-2021. KVK, Haveri, Senior Scientist & Head Dr.Ashoka P. explained the detailed villages information viz.Rahutankatti of Ranebennurtaluk, Haveri district has been selected through field visit along with line department

officials and KVK team. Selected village is 25 km away from KVK and having 450 farm families, rainfed farming situation, untimely rainfall, drought condition and sometimes excess rainfall (normal rainfall about 600 – 650 mm), red soil, slopy / undulating lands (5 – 10 % slope) and has 210 bore wells (depth more than 400 ft). The farmers cultivate maize, cotton, groundnut, greengram, red gram, rabijowar, papaya, jasmineas major crops with subsidiary occupation of sheep farming by every family. There is wide scope for implementation of soil and water conservation activities, dry land horticulture, contingent crop planning and promotion of animal husbandry in the sleeted village of the district. In this occasion our KVK Soil Scientist Dr.Rajkumar G. R. and Agrometrologist Dr.Shanveerayya accompanied.



Exposure Visit cum Study Tour at KLDB, Indo-swiss, Mattupatty

ICAR-KVK Idukki

Capacity Building of farmers through Profitable Dairy farming and Livestock management programme

ICAR-KVK(BSS), Idukki from 1995 onwards works for the empowerment of farming community in Idukki district. To widen up the group dynamics among the farmers a mass range awareness training, campaigns and meetings were organized. As a part of this, organization of special Training Programme on Capacity Building of farmers through a special programme on Profitable Dairy farming and Livestock management during 01-03 February, 2022 was conducted at MarayoorGrama Panchayat Community hall. The meeting was presided over by MrBiju, Member

Secretary, MarayoorGrama Panchayat and delivered presidential address. SmtUsha Henry Joseph, President, MarayoorGrama Panchayat inaugurated the function and delivered inaugural address. She commented the importance of this programme and conveyed the good performance of farming communities message to all those who are all attended the event. In her speech she gave the assurance for empower the farming communities through various government schemes like this training Programme. MrJomon Thomas, Standing Committee Chairman, MarayoorGrama Panchayat, Smt. Satyavathi, Shri.AliKasim Ward members, MarayoorGrama panchayat delivered Felicitation speech. Dr. S Jayababu, SMS (Animal husbandry), ICAR-KVK, Santhanparacreated awareness of this Capacity Building of farmers through Training programme on Profit-

able Dairy farming and Livestock management programme. DrBiju J Chembarathy, Assistant Project Officer, RAHC, Thodupuzha handled training session on Hygienic Milk Production Practices in Livestock to the farming communities. Exposure study visit was arranged for this Marayoor Trainees to KLDB, Indo-Swiss project, Mattupatty. Mr. Athulyan, Assistant Training Officer, KLDB, Mattupatty explained the activities of KLDB, Mattupatty. Dr Praveen, Deputy Manager, KLDB, Mattupatty handled the training session on Overall activities of KLDB, Mattupatty and also handled session of dairy cattle management practices. Dr. Sachin, Assistant Manager in charge of Hi-Teck dairy Farm explained all the Activities of Hi-tech dairy farm and briefed the milk collection and other management care of the dairy animals at Mattupatty farm.



Farmers field school on Enhancing pulse productivity through ICM

ICAR-KVK, Kalaburgi-I

Farmer's Field School

ICAR-Krishi Vigyan Kendra, Kalaburagi-I organized different training classes as a part of Farmer's Field School on "Enhancing pulse productivity through ICM, Integrated Nutrient Management and Integrated Pest and Disease Management" at DFI village Suntanur, Aland taluk on 02.02.2022 and 07.02.2022 respectively.

Dr. Raju G. Teggelli, Senior Scientist & Head briefed the importance of farmer's field school (FFS) and integrated pest management in pulses and Dr. Rachappa Haveri, Senior Scientist (Entomology), Zonal Agricultural Research Station, Kalaburagi, explained about pest management in Chickpea and other pulse crops. Dr. Yusufali, Scientist (Agronomy), enlightened the Integrated Crop Management in pulses, Dr. Shreenivas B V, Scientist (Soil Science) explained about integrated nutrient management in pulses and nutrient enrichment of soil through organic sources. Dr.

Zaheer Ahmed, Scientist (Pathology), narrated about diseases in pulses and their management. Total 55 participants were attended and benefitted from the programme.

World Pulses Day: "Pulses to empower youth in achieving sustainability Agri-Food systems"

World Pulses day was celebrated on 10th February, 2022 by ICAR-KVK, Kalaburagi-I under the theme of "Pulses to empower youth in achieving sustainability Agri-Food systems". The main objective of the programme was to make the farmers to know the importance of pulses in agriculture and nutrition contribution in

human diet.

In the programme Dr. M. M. Dhanoji, ADR, ZARS, Kalaburagi inaugurated the workshop by watering to the plant and in his inaugural speech enlightened the importance of pulses in our diet and in agriculture.

Dr. Raju G. Teggelli, Senior Scientist & Head, narrated about the importance of pulses and management of Pest in Redgram and Chickpea. Dr. Manjunath Patil, Dr. Zaheer Ahmed, Dr. Yusufali and Dr. Shreenivas B. V, Scientists of ICAR-Krishi Vigyan Kendra, Kalaburagi-I explained about role of pulses nutrition in animal husbandry, management of disease in pulses, agronomic practices of pulses and role of pulses in im-



Visit of Hon'le Vice Chancellor, Registrar and Director of Extension of UHS, Bagalkote

proving the soil fertility as well as nutrient management in pulses respectively. More than 45 farmers, farm women, and staff were present during the programme.

Workshop on Cashew Cultivation

One day workshop on 'District Level Seminar On Cashew cultivation' organised by UAS Raichur, ICAR-KVK, Kalaburagi-I & Bidar with collaboration of Directorate of Cashew and Cocoa Development Board, Cochin, Kerala at MYRADA training Centre, Kamalapur, Kalaburagi district on 05.02.2022.

Dr. M. M. Dhanoji, ADR, ZARS, Kalaburagi inaugurated the workshop by lightning the lamp. The guests of the programme viz, Sri. Kalyanshetty, Programme Coordinator, MYRADA, Kamalapur, Sri. Adhu Joseph, Progressive farmer Sri. Shankar Gowda, Senior Assistant Director of Horticulture, Aland and Sri. Shankar Patavari, Senior Assistant Director of Horticulture, Kalaburagi are talked on scope of cashew cultivation in Kalyan Karnataka region especially in low fertile soils also different schemes available at department and highlighted im-



District Level Seminar On Cashew cultivation

portance of Horticulture for doubling of farmer's income.

Dr. N. M. Shreenivas, Associate Professor, College of Horticulture, Bidar delivered the lecture on complete package of practices of Cashew cultivation in Kalyana Karnataka region. Dr. Mallikarjun Ningadalli, Scientist (Horticulture), ICAR-KVK, Bidar talked on processing of cashew nut and Progressive farmer Sri. Narayanarao Chitta, Bidar shared success story of Cashew cultivation and shared his field experience. Cashew Project Principal Investigator Dr. Vasudev Naik, Scientist (Horticulture), ICAR-KVK, Kalaburagi-I explained the different varieties and soil type for cashew cultivation. Later, exposure visit to Cashew

field of Sri. Sangareddy, Ghatboral village, Humanabad Tq. In this programme technical bulletin and leaflet on Cashew cultivation released by the dignitaries and distributed to the participants. Finally, Dr. Zaheer Ahamed, Scientist (Pathology), ICAR-KVK, Kalaburagi-I thanked the guests and participants. Project Assistant, Madhuri, Niranjan Dhanni, AHOs Sulabshree, Pranesh Patil and more than 150 farmers of the district were benefitted.

Hon'le Vice Chancellor, Registrar and Director of Extension, UHS, Bagalkote visits ICAR-KVK, Kalaburagi-I

Hon'le Vice Chancellor, Dr. K. M. Indires, Registrar Dr. T. B. Alloli and Director of Extension, Dr. Maheshwarappa, UHS, Bagalkote visited ICAR-Krishi Vigyan Kendra, Kalaburagi-I activities and demonstration units like Agricultural museum, Soil and Water testing laboratory, 75th Azadi Ka Amruth Mahotsav garden, Terrace garden, Beem Garden, swing garden, units of vermicompost, compost, Azolla and hydroponics, rain water harvesting structure, ornamental fishery, nursery and appreciate and congratulate to KVK staffs for getting national award.



World Pulses day celebration

ICAR-KVK, Kalaburgi-II

Capacity building program on "Atmanirbhar Bharat- Harnessing potential pulses for import substitution" organized on the eve of World Pulses Day

On the eve of "World Pulses Day" ICAR-KVK, Kalaburgi-II (Raddewadgi) and KSDA, Sedam Kalaburgi Dist. jointly organized capacity building program on "Atmanirbhar Bharat- Harnessing potential pulses for import substitution" on 10-02-2022 at Kontanpally village. The event inaugurated by guest Smt. Venkamma, Mandal panchyat member and presided by Additional director of Agriculture, Sedam Dr. Hampanna Y.S and AO's, AAO and other official.

During the event Dr. N.Manjunatha, Scientist (Agronomy) addressed the participant about the importance of pulses in fulfilling the protein requirement of



human beings and also overview of pulses production in Kalyana Karnataka as it is a pulse bowl of Karnataka. Explained about importance of inclusion of pulses in cropping system to improve soil fertility and conservation of soil and delivered lecture on detailed improved cultivation practices of important pulse crops of the region viz., Pigeonpea, Greengram, Blackgram and Chickpea.

Dr. Hampanna Y.S, ADA,

Sedam addressed the participants and asked them to adopt newly released varieties of pulses from the authorized and authenticated sources like State Agricultural Universities- ARS/ KVKs, RSKs and KSSC and asked farmers to get the original bills to avoid any spurious seed supply and called farmers to go for insurance to their crops. During the event and more than 38 farmers and 4 Agricultural departmental officials witnessed the program.

ICAR-KVK Kannur

World Pulse Day Celebration

KVK Kannur has distributed seeds of high yielding varieties of black gram (LBG-791) and green gram (BGS-9) to farmers on World Pulse Day, 2022. Programme presided over by Sri. Ramachandran, Chairman of the Mayyil Rice Producer Company was conducted at Mayyil. Seminar on importance of pulse crop in rice based farming system and health and nutritional security aspects of pulse crops were handled by KVK scientists.



Smt. Anu V., Assistant Professor (Agronomy), Smt. Elizabeth Joseph, Assistant Professor (Home science), Dr.Parvathy A., Assistant

Professor (Agricultural Extension), Board of Directors of Mayyil FPO, farmers and students participated in the programme.



Entrepreneurship Development Programme on Poultry incubators

ICAR-KVK Kollam

Entrepreneurship Development Programme on Promotion of incubator usage among women groups for production of good quality chicks

ICAR Krishi Vigyan Kendra, Kollam organised capacity development programme on 13th January 2022 as a part of Entrepreneurship Development Programme, for the year 2021 on Animal Husbandry. Special programme aims for the generation of egg nurseries under Kudumbasree groups and there by promoting sustainability of

egg production in Kollam district by the production of good quality chicks under home-steads. Current EDP also aims for the promotion of usage of incubator among unemployed women groups in Gramapanchayats and thereby generating an alternative income source during Covid-12 pandemic. Two Kudumbasree women groups were selected from Thazhava Gramapanchayat of Kollam district with total of 50 members for implementing EDP programme. Inauguration and distribution of two fully automated incubator of 100 chicks capacity were done by Dr. Bini Sam, Programme Coordinator, Krishi Vigyan Kendra Kollam on

January 13th at seminar hall of KVK Kollam. Inauguration followed by one day training on topic titled **“Promotion of incubator usage among women groups as addition income source”** was handled by Dr. Parvathy S. Subject Matter expert (Animal Husbandry) Krishi Vigyan Kendra, Kollam and the session dealt with the Demonstration of incubator and its mechanical operation procedure including storage, selection, sorting, cleaning, setting and hatching procedure of eggs. A total of 75 women farmers from different Gramapanchayat of Kollam district were participated in the programme.

ICAR-KVK Koppal

EDP programme on Macro Propagation in Banana

To encourage the entrepreneurship development of among the farmer as a rural youth KVK has conducted EDP programme on macro propagation in Banana. In this EDP two days capacity build-



EDP programme on Macro Propagation in Banana

ing programme was conducted. The importance and theoretical aspects was explain at KVK next day farmers were visited banana field of KVK contact farmer and got the information practically how to do the macro propagation. The participants convinced with the technology and looking forward to adopt.

taken frontline demonstration on ICM in Guava for higher yield. The FLD was designed to tackle the problems like wilt complex, fertilizer management and encouraging farmers to use bio agents for wilt management. During critical input distribution to selected farmers a method demonstration was conducted to explain how these bio agents (Trichoderma, pseudomonas and paecilomyces) mixed with FYM and its application in Navalahalli village of Kushtagitaluk.

Frontline Demonstration on ICM in Guava

Under ODOP KVK, Koppal has



Frontline Demonstration on ICM in Guava

ICAR-KVK, Kozhikode

KVK increases pulses cultivation area in Kozhikode

Krishi Vigyan Kendra, IISR, Kozhikode is carrying activities to increase the pulses growing area from 3 ha (as per Farm Guide, 2021 data) to 15 ha by way of cluster demonstrations and field trials on green gram. A launching programme of green gram sowing was inaugurated by Smt Sheeja Sasi, District Panchayat President, Kozhikode was held on 8-2-2022 at Naduvannur Panchayat.

On World Pulses day (10-2-22) an awareness seminar and green gram (Variety: Co- 8) seeds distribution to farmers were inaugurated by Dr J. Rema, Director, IISR,



Smt Sheeja Sasi, District Panchayat President inaugurating cluster FLD on Greengram

Kozhikode. Dr P. Ratha Krishnan, Programme Coordinator, KVK presided the programme. The event was attended by farmers from Kozhikode, Kuttiyadi, Naduvannur, Baluserry, Rannatukara, Kottur, Kakkur and Dr K.V. Saji, Dr. D. Prasad, Principal Scientist, IISR and Subject experts from KVK. An off-campus training on "Pulses as component in Integrated Farming" was organised in association

with Assistant Director of Agriculture, Perambra at Village Muthukadu. An expert talk by Dr K.M. Prakash, SMS (Agronomy), KVK, Kozhikode was held which was attended by farmers, Mr Raagesh Tharavattath, ward members and Agriculture officer, Chhakkittapara Grama Panchayat. The participant farmers were also issued with green gram seed and Rhizobium for immediate sowing.



Participants of Workshop on Policy to Practice in Coconut Development in Lakshadweep Islands

**ICAR-KVK
Lakshadweep**

KVK-Lakshadweep organizes training on Coconut Shell Based Handicrafts

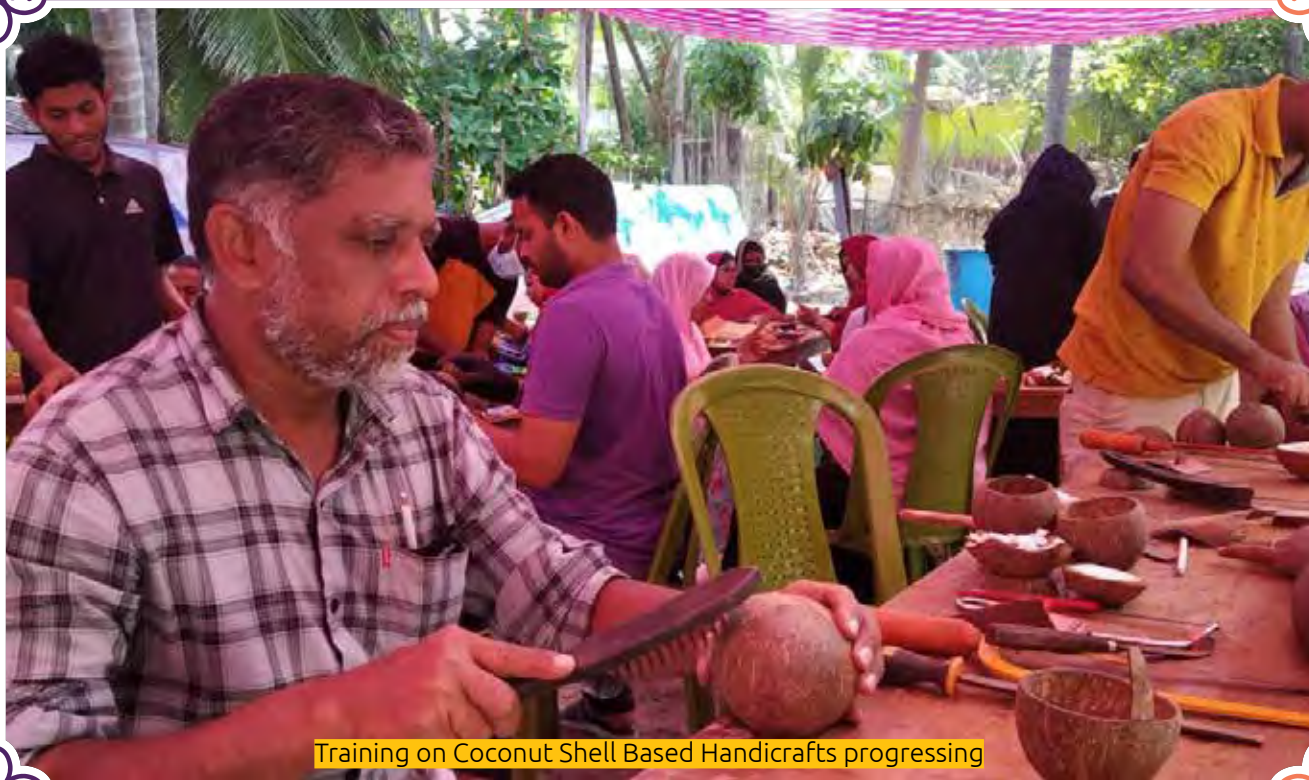
KVK-Lakshadweep organized a six-day training on handicrafts for 30 participants represented from five islands viz., Kavaratti, Agatti, Kadmat, Kiltan and Androth from 27 January to 1 February, 2022 at Kavaratti sponsored by the Coconut Development Board. The handicrafts training aimed at using the coconut shell for making handicrafts with the support of a master craftsman Mr. Sivadasan from Kerala. In the training, skill was imparted to make 10 unique products using coconut shells. The training was inaugurated on 27 January, 2022 by Mr. Pramod

Kurian, Assistant Director from Coconut Development Board in the presence of Dr. P. N. Ananth, Senior Scientist and Head, KVK-Lakshadweep, Mr. Kumaravel Subramanian, Development Officer from the Board, Dr. K. Mohammed Koya, Dr. V. M. Abdul Gafoor of KVK-Lakshadweep Mr. Shareef, District Agricultural Officer and others. Shri. Santhosh Kumar Reddy, V, IFS, Special Secretary(Agriculture), UT administration of Lakshadweep interacted with the participants of the training and informed that the government will provide fullest support for establishing handicraft units by the trainees. The valedictory session was attended by Mr. Abdul Kader, Chairperson of Kavaratti. The Chairperson appreciated the innovative products made by the participants which can cross borders for business opportunities.

During the valedictory session of the programme information on available schemes for establishing handicrafts units in the island were discussed. Significantly, 30 innovative products were made by the participants and the best were awarded. Dr. P. N. Ananth, Senior Scientist and Head, KVK-Lakshadweep coordinated activities the training.

Workshop on Policy to Practice in Coconut Development in Lakshadweep Islands

KVK-Lakshadweep and ICAR-Central Plantation Crops Research Institute, Kasaragod jointly organized a Workshop on Policy to Practice in Coconut Development in Lakshadweep Islands and a series of interaction meet with farmers on quality neera production from 7-11 February, 2022. The interaction



Training on Coconut Shell Based Handicrafts progressing

meets were organized at Agatti, Amini, Kadmat and Kavaratti islands of Lakshadweep involving neera tappers and coconut climbers. The interaction was towards understanding the status of coconut cultivation, neera tapping methods and training needs of stakeholders associated with coconut cultivation in Lakshadweep islands. The interactions concluded a decreasing trend of coconut production in the islands since 3-5 years based on farmer's perception and attributed due to white fly incidence were widely conversed. The modern method of using coconut sap chillers were demonstrated during the interaction meets for neera extraction developed by ICAR-CPCRI. Scientists from ICAR-CPCRI Dr. C. Thamban, Dr. A. C.Mathew, Dr. K. Subramanian and Dr. Shamee-

na Beegum jointly with Dr. P. N. Ananth, Senior Scientist and Head, KVK-Lakshadweep organized the interaction meets. The interaction meet was attended by 60 tappers, coconut climbers and farmers and others from four islands.

On 11 February, 2022 a workshop on Policy to Practice on "Prospective Coconut Development Strategies and Enterprises in Lakshadweep Islands" was organized at Kavaratti involving multiple stakeholders jointly by KVK and ICAR-CPCRI. Shri. Santhosh Kumar Reddy, IFS, Special Secretary (Agriculture) delivered a special address and inaugurated the exhibition during the occasion. The special secretary recommended to strengthen the formed FPOs, develop a model farm for creating awareness on management practices in co-

conut and establishing an ice cream unit in the islands. Dr. C. Thamban, Pr. Scientist, ICAR-CP-CRI presented the results of the study organized on coconut sector of the islands during 2019-20 which was considered as policy to practice through this workshop. Expert presentations were made by Scientists of ICAR-CP-CRI on management practices in coconut, value addition and processing in coconut. Dr. P. N. Ananth presented the innovations assessed by KVK during the period of 2021-22. Mrs. Leenamol. M.A, Marketing Officer from Coconut Development presented the schemes relevant for the islands for implementation towards development of coconut sector. Dr. P N. Ananth coordinated the workshop and assisted by Dr. Abdul Gafoor, V.M, SMS (Animal Science).

**ICAR-KVK
Malappuram**

**Front line demonstration on
paired row system**

KVK conducted three demonstrations at kole lands of Edappal, pancha areas of Ozhur and Ponnani to hasten adoption of this promising technology . At Ponani, the Chairman of the municipality Sri.Sivadas Attupuram inaugurated the demonstration program.

Nurturing soul of farming

KVK in association with the KPPM college of teacher education, Anakkayam organised a workshop on nurturing soul of farming for teacher trainees in order to trigger in them the need to inculcate the culture in agriculture.

**Initiative to commercial
medicinal plants cultivation**

In order to develop commercial medicinal plants cultivation in Malappuram, the KVK conducted a focussed group discussion. Block Panchayath President Sri.C.Ramakrishnan inaugurated the training programme. The programme was followed by an exposure visit to the Kottakkal Arya Vaidya Sala and stakeholder discussion for opening up market opportunities

**Capacity development of
farmers on goat rearing**

KVK conducted three days training on Goat rearing as part of the capacity development of farmers on profitable dairying and livestock management from 9th to 11th February, 2022.



Capacity development of farmers on goat rearing

Different sessions on various aspects of goat farming like housing,feeding,health management,breeding etc, were covered during the first two days. On the last day an exposure visit was arranged to nearby goat farms consisting one each of the traditional farm and modern system of rearing. Experience sharing by the farmers were also included so that farmers would understand things better from experienced farmers who are currently in the field of goat farming. A practical session was also held at the farms to gain knowledge on practical aspect

of goat farming.

World pulses day

World Pulses day was celebrated on 10th February 2022 to emphasise the importance of pulses in human diet. As part of the day conducted a seminar on “Nutritional importance of pulses” and the session was handled by Dr.Lilia Baby Asst. Professor (Community Science).Among the participants seminar created awareness about significance of pulses as the nutritious food and it’s role in food and nutritional security. 38 farmers participated in the programme.



World pulses day celebration

SCSP Programme

Implementation of SCSP programme in collaboration with Makkaraparamba Krishibavan was organised on 10th February 2022. Input kits for vegetable cultivation were distributed to 30 SC women farmers of the panchayth. The programme was inaugurated by Mankaraparamba panchayth president.

Bio inputs distribution for collar rot in amorphophallus

As part of FLD on management of collar rot in Amorphophallus, the bio-input Trichoderma were distributed with an aim to manage the collar rot disease prophylactically. Farmers representative of Alipparamba were selected for conducting the front line demonstration. The corm treatment with Trichoderma was demonstrated to the selected farmers by Dr.Najitha Ummer,SMS Plant Protection

Demonstration of tractor drawn root harvester for Ginger, Coleus and Turmeric

In order to reduce the drudgery



Demonstration of tractor drawn root harvester for Ginger, Coleus and Turmeric

in harvesting of ginger, coleus and turmeric demonstration was



Glimpses of Workshop for teacher trainees

done with a tractor drawn root harvester developed by Kerala Agricultural University. The main problem faced by Ginger, Coleus and Turmeric farmers is scarcity of farm power, high cost of labour and unavailability of timely labour during sowing and harvesting. The hilly terrain and moisture condition in soil make this situation worse. The parameters like field capacity and damage loss etc. were noted as part of this demonstration.



Inauguration of SCSP Programme

ICAR KVK, Mandya

World pulses day-2022

ICAR-Krishi Vigyan Kendra, organized World Pulses Day-2022 in collaboration with College of Agriculture and Zonal Agriculture Research Station, V.C.Farm, Mandya was held on 10.02.2022 at KVK, V.C.Farm, Mandya. Dr.Venkatesh, Associate Director of Research, ZARS, V.C.Farm, Mandya presided the programme, Dr. M.P.Rajanna, Principal, (Agriculture Diploma), College of Agriculture, V.C.Farm, Mandya, Dr. Mahadevu,P, Professor, ZARS, Mandya and Dr. Naresh, N.T, Senior Scientist and Head, KVK, Mandya were present.

Mr. Mahesha, H.M, Programme Assistant welcomed the gathering and Dr.Naresh, N.T briefed importance of the pulses to sustainable food systems, healthy



Celebration of World pulses day-2022

growth, and environmental benefits. Dr.Venkatesh, ADR, Explained the Pulses as a global food. Pulses, also known as legumes, are the edible seeds of leguminous plants cultivated for food. Dried beans, lentils, and peas are the most commonly known and consumed types of pulses. The UN General Assem-

bly in 2019 decided to dedicate a day to Pulses to increase awareness and access to pulses globally known as World Pulses Day. Dr.P.Mahadevu, Dr.Kamalabai Koodagi and Dr.Pavithra,S gave technical information regarding cultivation, protection and value addition of pulse crops.

ICAR JSS KVK Mysore

Bee keeping training under EDP

Training on 'Importance of Honeybee&Honey,management of bee colonies, processing and value addition of Honey under EDP' was conducted on 2nd February 2022 at ICAR JSS KVK Suttur. Mrs. Netravati Yattinamani, Scientist (Home Science), ICAR JSS KVK Suttur explained about importance of honey, processing and other by products, packing and labelling. She also explained about the honey quality testing. Mr. Somachari, Bee keeping En-



Training on Bee keeping progressing

trepreneur, H D Kote, shared his experience in bee keeping and marketing of honey, also explained about the management of beehives and demonstrated the extraction of honey through machine. 25 participants were present in the programme.

ICAR – IIHR Technologies Dissemination through KVK Programme

ICAR JSS Krushi Vigyan Kendra Suttur, organized IIHR technologies dissemination through KVK programme on 05-02-2022 at KVK. In the programme Dr.



ICAR – IIHR Technologies Dissemination through KVK Programme

Venkat Kumar, Division of Social Science and training IIHR, talked about technologies released from the IIHR which are more suitable for farmers. Then Dr Shankar, Principal Scientist, Division of Vegetable crops, given information about the new technologies related to Vegetable crops, i.e. New varieties of vegetables, Micronutrient formulations for vegetable crops, Plant protection technologies in vegetable crops, opportunities in vegetable seed production etc., after that Dr. Senthil Kumar, Division of Fruit crops, given information about the new technologies related to Fruit crops, i.e. New varieties of Fruit, Future fruit crops, opportunity in development of planting materials in fruit crops, Micronutrient formulations for Fruit crops, Plant protection technologies in fruit crops etc., Divya Head (I/C) JSS KVK talked about the importance of vegetable seed production in increasing the farmers income and status of the farmers. After the programme distributed the Tomato, Chilli, Brinjal and Yard Long bean seeds to interested farmers of Mysore. Dr Vinay G M. coordinated the programme and scientists Shamaraj, Netravati, Rakshith Raj, Rajanna, Gangadhara Hipparagi and other staff

members were present in this programme.

Celebration of world pulse day

On 10th February 2022, ICAR JSS Krishi Vigyan Kendra, Suttur celebrated World Pulse Day with theme Atmanirbhar Bharat-Harnessing potential pulses for import substitution. In this programme pulse growing farmers are invited from different taluks of Mysuru.

Smt. Divya H.V., Senior Scientist and Head (I/c) explained about the opportunities for Pulse seed production under Creation of Pulse seed hub Project. She explained about the Pulse seed production, new varieties available in the KVK. She motivated the farmers to involve in the Seed production of Black gram and Cow pea. Under this project

Farmers are getting additional price for their produce along with buy back agreement. Seed production with new resistant varieties of Black gram var LBG 791 and Cow pea KBC -9, farmers can increase the yield, reduce the cost and can get additional price for their produce.

Farmers visited the Seed processing unit, method demo was shown on seed processing. Smt. Divya H.V showed the storage godown and explained the conventional method of seed storage. KVK is following castor oil treatment for large scale storage ie., treating seed with castor oil 5ml/Kg of seed. With all these seed production, processing activities and with available new tolerant varieties farmers expressed their happiness and showed their interest in seed production activity under the project.

Dr. Rakshitraj, K. Shilpa were present in the programme. Smt. Divya H.V., Senior Scientist and Head (I/c) master the ceremony.

Participated as resource person for the theme on 'Local Food System for Nutrition Security'

Mrs. Netravati Yattinamani, Scientist (Home Science), ICAR JSS



The Senior Scientist and Head explaining on Pulse seed hub



Talk on 'Local Food System for Nutrition Security'

Krishi Vigyan Kendra, Suttur participated as resource person for the programme on 'Local Food System for Nutrition Security' organized by Dhan Foundation (Mysuru region) on 12th February 2022 at Mysuru. Mrs. Netravati Yattinamani gave lecture on nutritional benefits of local foods namely cereals, millets, pulses, green leafy vegetables, other vegetables, and fruits. She created awareness about Balanced diet, use of local foods for immunityboosting, nutrition gardening and explained about recipes from local foods mainly

millets, green leafy vegetables, oil seeds, roots and tubers and. She also explained about harmful effects of fast foods and bakery foods. Mrs. Jyothi, Manager, LIC (Mysuru branch), Mr. Shankar Prasad, Regional Coordinator, Dhan foundation, Mysuru, Mr. Hemanth, ATMA staff, 70 SHG women and Dhan foundation staffs were participated in the programme.

Field day on multi cut fodder sorghum COFS 31

On 8th February 2022, ICAR JSS Krishi Vigyan Kendra Suttur has

organized a field day on multi-cut fodder sorghum COFS 31 at Tummanerale village Nanjanagudu taluk Mysuru district under FLD on "Demonstration of multi-cut fodder sorghum COFS 31". KVK agronomy scientist Shri. Shamaraj has taken 20 demonstrations of multi-cut fodder sorghum COFS 31 in Tummanerale and Sonahallivillage of Nanjanagudu taluk, a farmer Rajesh has harvested green fodder yield of 985kg in 4 cuttings at 10 gunta land in tummanerale village KVK Senior Scientist and Head(I/C), Smt. Divya and Animal Scientist Dr. Rakshithraj are participated in the field day program. Smt. Divya briefed about importance of animal husbandry, Agronomy scientist Shri. Shamaraj explained about fodder variety COFS 31 and cultivation aspects of multi-cut fodder sorghum, Dr. Rakshithraj has given lecture on mixed and balanced fodder to cows and maintenance of animal health. Nearly 36 farmers are participated in the field day program.



Field day on multi cut fodder sorghum COFS 31



ICAR-KVK Palakkad

Capacity building programme on Integrated Farming System

Krishi Vigyan Kendra Palakkad started a threeday capacity building programme for farmers under the project of 'ICAR-Capacity building for farmers through training programmes on profitable dairy farming and livestock management' on 14th Feb 2022 at KVK Palakkad, Pattambi. Farmers of different age group, category and gender actively involved in the programme. Sri Ansar C.P, Assistant Professor, Rice Research Station, Vytila handled a session on Integrated Farming and Fresh Water Fish Farming systems. Field visit to different IFS farms at Koppam and Ottapalam were conducted, wherein the trainees got opportunity to visit and get acquainted with the practices and activities of the farm.

Pulses Day to empower youth

Krishi Vigyan Kendra celebrated World pulses day on 10.02.2022 conveying the message "Pulses to empower youth

in achieving sustainable agrifood systems" at two locations of Palakkad. Under the programme Kumaraneloor padashekharam of Kappur panchayath initiated pulse cultivation on 10 acres of land under the programme Cluster FLD on pulses. Green gram and black gram seeds were distributed along with other bioinputs like rhizobium and Neem-garlic-chilli soap. The programme was presided by Smt. Aminakutty (Vice President, Kappur Gramapanchayath) and inaugurated by Sri. Sharafudheen Kalathil, (President Kappur Grama Panchayath). Dr. Sumiya K V, Programme Co-ordinator, KVK Palakkad and Dr. Sreelakshmi K, took awareness class on pulse crops and its importance. Use of biofertilizer rhizobium was also

demonstrated as a part of the programme. 25 farmers participated in the programme following the existing COVID restrictions.

Another programme was conducted by KVK Palakkad at Extension Centre, Attapady collaboration with AKC Attapady. Seminar, field demonstration and quiz competition for college students of Rajiv Gandhi memorial arts and science college Kottathara, Agali Panchayat were organized. The programme was addressed by Smt. Latha, (Assistant Director of Agriculture, Attapady) and session was led by Miss. Greeshma Baby (Research Assistant). A demo plot of pulses were laid at the college premises. A total of 34 students participated in the programme.



ICAR-KVK Pathanamthitta

Improving quality of Bud Grafts using Root Trainers

The conventional system of raising seedlings in nurseries is the polybag growing system. The drawback of this system is associated with high cost of production due to heavy labour dependence and potting mixture requirement. The polybag growing system also causes root restriction and root coiling which reduce the seedlings growth and lower field survival rate upon field transplanting. In order to solve this issue and to significantly enhance the quality of the bud grafted plants of Jack fruit and Rambutan, KVK, Pathanamthitta initiated



Skill Development Training on bud graft production

production of bud grafts in root trainer cups. These plants with air pruned tap roots showed better field establishment and faster growth. During the year 2021, the KVK had distributed 680 bud grafts of Jack fruit sufficient to cover an area of 17 acres in the

district. The Jackfruit nursery at KVK farm could reduce the cost of production and production time through the improved management practices adopted in production of root trainer bud graft plants.

ICAR-KVK Ramanagara

Field Day on "Coconut Based Integrated farming System"

The ICAR-Krishi Vigyan Kendra Ramanagara conducted a Field day on "Coconut Based Integrated Farming System" at Chakkere Village, Channapatna taluk on

04-02-2022. This programme was sponsored by Coconut Development Board, Bangalore. Dr. Dinesha M.S., Scientist (Agronomy) briefed about the concept of Integrated farming system and importance of integration of different components for realizing higher yields in Coconut Based Cropping System. Mrs. Preethu, Scientist (Soil Science) explained about the waste recycling for sustainable

production and soil health maintenance. Mr. Manjunath, Agriculture officer, KSDA briefed about their department programmes and schemes under Integrated farming system demonstration. Miss. Shanta Balagond., SMS, DAMU created awareness on importance of agro-advisories for mitigating crop losses and ensuring timely agricultural practices. The programme was held at Coconut Field of successful IFS farmer Mr. Manjesh in Chakkere village. During the programme, preparation of Bordeaux mixture and stem pasting for Coconut, installation of pheromone traps for Rhinoceros Beetle Management and Integrated Management of rugose spiralling white fly were demonstrated through method demonstration. More than 50 Coconut growers from Channapatna taluk participated in the programme.



Field Day on "Coconut Based Integrated farming System"

ICAR-KVK Shivamogga

Three day skill oriented capacity development programme on "Bee Keeping" under ARYA project

ICAR-Krishi Vigyan Kendra, Shivamogga organized 3 days skill oriented capacity development programme on "Bee Keeping" under ARYA project from 01-02-2022 to 03-02-2022. The objective of this programme was to know the skills in Bee Keeping through practical experiences and hands-on training related to Apiculture. The theoretical sessions like Species of honey bees, Caste system and colony organization, were delivered by Mr. Srikanth, Research Associate, Organic Farming Research Centre, Shivamogga. Bee Keeping equipments and Management of bee pest and diseases were delivered by Dr. B. C. Hanumanthaswamy,



Skill oriented capacity development programme on "Bee Keeping"

Senior Scientist and Head. Inspection and Handling of bee colonies was delivered by Mr. Kartik, Bee Keeper, Shivamogga. Mr. Madhu Keshwar J. Hegade delivered the lecture on Bee Keeping for self employment and Bee products and medicinal value of honey. Dr. Jyothi M. Rathod, Scientist (Home Science) delivered the lecture on Value addition in honey. Seasonal management of bee colonies and Bee pollination

were delivered by Mr.Vignesh, Bee keeper, Soraba. The practical sessions were conducted on handling of bee colonies, Identification of different castes, dividing and uniting of bee colonies. Dr. B. Hemla Naik, Director of Extension, KSNUAHS, Shivamogga presided over the valedictory function and distributed the certified to the participants. Totally 24 youth were participated and get benefitted in the programme.

ICAR-KVK Thrissur

KVK Thrissur celebrated World Pulses Day - 2022

As part of the World Pulses Day 2022 celebrations, a seed distribution campaign was organized at Thiruvilwamala, Pazhayannur, and Wadakkanchery villages. Short duration, high yielding Black gram

on 'Scope, Cultivation, and Management of Pulse crops' was organized in the afternoon at the Seminar Hall of KVK, Thrissur. The webinar was led by Dr. George Thomas, Chairman, Kerala State Biodiversity Board. While welcoming the gathering, Dr. Suma Nair, Programme Coordinator, Krishi Vigyan Kendra, Thrissur narrated the importance of pulses in our diet and need for their cultivation. Cultivation aspects of major pulses, like Red gram, Green gram, Cowpea, Black gram, Horse gram, etc. were explained in detail by the resource person. Dr.Aparna Radhakrishnan, Assistant Professor, KrishiVigyan Kendra, Thrissur proposed the vote of thanks.



World Pulses day flyer

variety Vamban-8 was distributed to the Secretaries of the Padasekharams. A capacity building programme on 'Scientific Cultivation of Pulses' was delivered to the members of Padasekharams. Subsequently a one-day webinar

ICAR-KVK Trivandrum

Field Day Celebration of FLD on Drone Based Plant Mapping and Aerial Spraying in Paddy at Thiruvananthapuram District

During the past years, the only way to get an aerial photogram-metric map of high accuracy and resolution was to fly the area of interest with a manned aircraft or have access to a spy satellite. This is highly expensive and small and marginal farmers cannot afford this. Also in agricultural sector this technic was not widely implemented. So, advancements in drone capabilities and their decreasing costs have made available, high-quality aerial maps for a multitude of people, industries and farmers. Drones are helping people to map large areas in a quick, cost-effective manner and to provide hard data that helps expedite workflows in a variety of commercial settings.

Visual analysis of drone based information can provide valuable crop information for farmers. Mapping facilitates irrigation and water logging analysis, nitrogen status and other nutrient deficiency analysis, weed analysis, plant stand count, flowering analysis pest analysis etc. KVKs can make use of surveillance drones at farms in cropping systems for planning and executing systematic and précised farm activities by utilising earth observation data.

ICAR –KVK, Thiruvananthapuram had demonstrated the use of Agricultural Drones at two



Shri.Adoor Prakash, Hob'ble Member of Paliament inaugurating Drone assisted spraying at Pulimath Padashekharam

Panhcayats:Pulimath and Nagaroor,covering an area of 25 ha of 28 farmers. The micronutrient solution of Kerala Agricultural University, KAU Sampoornafor paddy was sprayed in the field using drones. The field capacity of an UAV is high compared to using a knapsack sprayer. The drones covered an acre in ten minutes while for knapsack sprayer it was only 0.24ha/day. The use of drones, though initially a novelty was widely accepted by farmers owing to this potential. This foliar application enhanced yield growth compared to previous year and from field reports andthere was no evidence ofearhead buginfestation in the summer crop.

At Pulimath Grama Panchayat,the drone spraying programme was inaugurated by Hon'ble MP of Attingal Constituency, Kerala, Shri.Adoor Prakash in presence of Panchayat representatives, officers from the state department of agricultureandfield staff of ATMA.A large gathering of farmers and general public witnessed the programme. Dr. Binu John Sam,

Senior Scientist & Head of KVK,- explained the advantages of the micronutrient solution 'Sampoorna' developed by KAU and advantages of using drones for their application on crops. Chithra, G., Subject Matter Specialist(Agricultural Engineering),explained the outcome of using drones for agricultural practices. Fifteen RAWEstudents of Prabhu Dayal Memorial University, Haryana had attended the harvest at the field of Shri.Mukundan Nair, as a part of their study. The field data was collected and was interpreted duringdiscussions with farmers. The use of drones had wide appreciation from farmers, as it helped in reducing the labour cost to a large extent. The solution application to the entire field could be completed with less man days and very little effort.

Doordarshan (Malayalam) documented the demonstration of spraying Sampoorna using the drones at Nagaroor Panchayat that was telecasted on 13-01-2022. There was wide coverage of the demonstration on social media and all leading dailies.



Training programme on Scientific Dairy Farming and Entrepreneurship Development

ICAR-KVK Tumkur I

Training programme on Scientific Dairy Farming and Entrepreneurship Development

ICAR KVK Tumkur 1 has been organised 3 days training programme for farmers on Scientific Dairy Farming and Entrepreneurship Development under Capacity building of farmers through Training programme on Profitable Dairying and Livestock management from 07th to 06th February 2022, Dr. V. Govinda Gowda, Senior Scientist and Head, KVK Konehalli, Tiptur inaugurated this Training programme and emphasize the need of training programme to the farmers on Dairy sector. The Resource persons from veterinary offices, KVK and Animal husbandry polytechnic college, Tiptur, trained the farmers on

Govt. schemes for Dairy farming, importance of vaccination and application of sexed semen in dairy farming, practices to be followed in Dairy farming, management of dairy animals, newer suitable fodder varieties and silage making. Totally 66 Trainees were participated and received the certificates

Training programme on Stall Fed Sheep and Goat farming

ICAR KVK Tumkur 1 has been

organised 3 days training programme for farmers on Stall Fed Sheep and Goat farming under Capacity building of farmers through Training programme on Profitable Dairying and Livestock management from 10th to 12th February 2022, Dr. V. Govinda Gowda, Senior Scientist and Head, KVK Konehalli, Tiptur inaugurated this Training programme and emphasize the need of training programme to the farmers on sheep and goat farming sci-



Training programme on Stall Fed Sheep and Goat farming

entifically followed by Dr.Uma-shankar, Principal, veterinary polytechnic, Konehalli address the importance of training programme for self employmentfor school drop outs and unemployment rural youth. The Resource persons from veterinary offices, KVK and Animal husbandry polytechnic college, Tiptur, trained the farmers on housing management in sheep and goat farming, importance of vaccination, major diseases and its management, newer suitable fodder varieties and silage making for sheep and goat feeding. Totally 45 Trainees were participated and received the certificates

Farmers Training and Awareness programme on Energy Efficient Pumpsets and Water Conservation

ICAR KVK Tumkur 1 has been organisedFarmers Training and Awareness programme on Energy Efficient Pumpsets and Water Conservation on 11th Feb 20202 where 135 farmers from nearby villages were actively participated.Dr. G. N. S. Reddy, Managing



Farmers Training and Awareness programme on Energy Efficient Pumpsets and Water Conservation

Director, Kalpasiri farms and food pvt. Limited inaugurated this programme and address the importance of growing trees in conservation of water. Where Mr.AppannaGowda, Engineer, KREDL.Banglore address the audience reagarding advantages of using B. E. E. star rated machinaries and delivered the lecture on energy efficient pumpsets and schemes available under KREDL. Dr.Anitha, M. S., scientist, KVK-Tumkur-1 delivered the lecture on borewell

recharging, soil and water conservation methodologies. Dr. V. GovondaGowda, senior scientist and Head, KVK, Konehalli in his presidential remarks he mention the methodologies to conserve the water and other available resources. Mr.Jaganath, Organic Farmer, Goudanakatte, emphasizes the importance of conservation of resources through organic farming. KVK Scientists, progressive farmers and village leaders were participated in this Training programme

ICAR- KVK Tumkur II

World pulses day was celebrated on 10th Feb 2022 by ICAR - KrishiVigyan Kendra, Hirehalli, Tumakuru-2

World pulses day was celebrated on 10th Feb,2022 by ICAR-KrishiVigyan Kendra, Hirehalli, Tumakuru-2 in collaboration with the Swavalambi Farmers, Producers Organization at BukkapattanaHobli in Sira Taluk in the district. During the oc-



World pulses day celebration



Animal nutrition and health camp held at Chikkadoddavadi, Koratagere Taluk, Tumakuru

casation, Capacity development programme was arranged to give the technical knowledge on different pulse crops, which are potential to grow in Tumakuru District. Ms. Kamamma, Chairman, Gram Panchayath, Bukkapattana participated as a guest and highlighted the importance of pulses for economic and social stability, and instructed participants in the programme to adopt innovative technologies for increasing the pulse productivity. Dr. N. Loganandhan., Head, KVK spoke on the occasion, emphasized the importance of the celebration of Pulse day, and assured KVK Support on the new technologies demonstration on different pulses. Dr.Somashekhar, SMS (Plant Breeding), served as a resource person and gave a lecture on the various pulse crops and their production constraints. The programme was coordinated by Mr. Jagadish, K. N., SMS (Agricultural Extension), and Mr. Thipperudraiah, CEO,

Swavalambi Farmers Producers Organization. In this event, totaling 45 Farmers and Farm Women have participated.

Training programme on Animal nutrition and health camp was held at Chikkadoddavadi, Koratagere Taluk, Tumakuru on 12th Feb,2022

Training programme on Animal nutrition and health camp was held at Chikkadoddavadi, Koratagere Taluk, Tumakuru on 12th Feb,2022 by ICAR - KrishiVigyan Kendra, Hirehalli, Tumakuru in collaboration with Animal Husbandry and Veterinary Services, TUMAKURU (Veterinary Hospital), Koratagere, Kolala. Dr.Loganandhan, N., Head inaugurated the event. He explained about the NICRA project, importance of soil health and fodder varieties and motivated the farmers to get benefited from the programme. Dr.Siddanagowda, Assistant Director, Veterinary department has informed the farmers to get

animals vaccinated from time to time provided by the department and protect the animals. He also explained about balanced animal food, good healthy milk and management of diseased animals. Dr.Datta, Dr.Shridhar and Dr.Manjunath have provided treatment to animals. Mr. Ramesh.P.R, Subject Matter Specialist (Soil Science) has explained NICRA interventions and multi-cut fodder CoFS-29 & 31 varieties. Mr. Prashant.J.M, SMS (Horticulture) assisted in conducting the programme. Mr.Hanumanappa, Member, Yelerampura, Grama Panchayat, Mr.Mahesh, President, Gramachetana FPO, Members of Dairy Cooperatives Society of Chikkadaddavadi have participated in the programme. Total 380 animals were provided with general treatment, deworming, insemination related problems and mineral mixture and distributed multi-cut fodder CoFS-29 seeds were to the farmers. About 53 farmers have participated in the health camp.



Dr.V.Venkatasubramanian, Director, ATARI, interacting with members of Farmers Producers Company

ICAR-KVK Udupi

Director, ATARI, interaction with Farmers Producer's Company - UKCAAS

Dr. Venkatasubramanian, Director ATARI, Bengaluru, visited the coconut FPC, UKCAAS (Udupi Kalparasa Coconut And All Spice Producer's Company) on 29th January 2022 and interacted with the chairman of the company, Sri Sathyanaryana Udupa and one of the directors Sri Muraleedhara Ullura. The director, ATARI, Bengaluru, also witnessed the activities of the FPO, the tapping of kalparasa from the coconut inflorescence and the production of value-added products viz., coconut sugar, coconut jaggery, etc. coconut honey obtained from the processing of kalparasa. According to the chairman and founder of the FPO, Sri Sathyanaryana Udupa, the whole idea of Coconut FPO started in 2016, wherein 54 village-level Co-

conut Farmer Producer's Societies and 3 Taluk level Federations was formed in the Udupi district by the initiative from the Department of Horticulture, Udupi. The associated members of societies and federations started thinking about future activities for the benefit of the coconut farmers and approached ICAR-Krishi Vigyan Kendra, Udupi. A two-day workshop on tapping kalparasa/neera and value-added products was organized for the FPO members by ICAR-KVK, Udupi. Inspired by the workshop, a team of FPO members visited CPCRI, Kasargod, where they interacted with Dr. K. B. Hebbar, the Principal Scientist of the Plant Physiology Department at CPCRI, Kasargod. Dr. K. B. Hebbar, the person behind the development of successful technology of kalparasa/neera tapping, took the initiative of transferring the CPCRI, Kasargod developed technology of kalparasa/neera tapping to the FPO and an MOU was signed between the two organizations. Licensing to tap kalparasa in Karnataka is

permitted only through Farmer's Producer Company, hence Udupi Kalparasa Coconut And All Spices Producer Company (UKCAAS), a Farmers Producer's Company, was started in March 2019, with the initiation of 10 Directors, 1028 farmer members as shareholders, spread out in 3 talukas of Udupi district. In March 2020, the company obtained an "In Principle" license from the Karnataka State Excise Department, with the recommendation from Horticulture Department to train tappers and run the kalparasa/neera trial unit.

Due to the Covid-19 pandemic, experiments on tapping kalparasa and its value-added products were tried. The company improved tapping efficiency with the assistance of traditional toddy tappers of the local area. After certain trial and error, the company could improve the per tree production capacity, jaggery and sugar quality. The company obtained the final license from Karnataka State Excise Department for tapping, transport-

ing, processing, and marketing kalparasa and its value-added products in December 2021. The company has two marketing outlets at Japthi village, and another at Kundapura town. The tapping of kalparasa has been initiated in Kundapura taluk, Japthi and Hos-sadu villages. In association with ICAR- KVK, Udupi, 21 kalparasa tapping technicians were trained, wherein 100 liters of kalparasa are tapped per day. The company has planned to tap eight healthy coconut trees of every farmer member. The company can collect around 4,000 to 5,000 liters of kalparasa from each farmer annually. On average, an individual farmer can earn Rs. 80,000 to 1,00,000 annually. The company plans to work similarly to the Milk Co-Operative Societies model in another five years. **Each farmer can tap their coconut trees with proper training and technology and collected kalparasa will be supplied to village level coconut producer's society.**

From the 72-village level coconut producer societies, the company has 5,628 member farmers, and the company is in the process of selecting the coconut palms for kalparasa tapping. **The crop loss due to monkeys is one of the major problems addressed by the coconut farmers of the district. Tapping the coconut inflorescence for kalparasa production can solve the problem of monkey menace.**

The kalparasa technician is trained to tap 16 coconut palms per day, by which he earns more than Rs. 20,000 per month, by working 4 to 5 hours daily. In five years, the company requires around 2,500 kalparasa technicians and another 300 supporting employees for the smooth functioning of the company for the production and marketing of kalparasa and other value-added coconut products. More secured "Green collar employment" at the village level will help reduce the migration of youngsters to

urban areas.

One village one product is another important objective of the company. Along with tapping kalparasa, the company plans to produce one value-added product of coconut in each village. So that the coconuts produced by the remaining palms (other than eight palms marked for kalparasa tapping) are also properly processed to value-added products, which helps the farmer to get a better income.

In association with ICAR- KVK Udupi, outreach programs were organized, wherein the products developed by the company were displayed in Krishi mela exhibitions. The consumers were made aware of the health benefits of drinking kalparasa during the outreach programs. The ICAR-KVK, Udupi, has also supported the FPC in technology backstopping to enhance the production efficiency of kalparasa and other coconut value-added products.

ICAR-KVK Vijayapura-1

Celebration of World pulse day

Pulses are the edible seeds of leguminous plants cultivated for both food and feed. Pigeonpea, chickpea, peas and beans are the most well-known and commonly consumed types of pulses, but there are several varieties more from around the world, all with great benefits on food security, nutrition, health, climate change and biodiversity. Building on the success of the International Year of Pulses (IYP) in 2016 imple-

mented by FAO and recognizing the potential of pulses to further achieve the 2030 Agenda for Sustainable Development, the United Nations General Assembly (UNGA) designated 10

February as World Pulses Day (WPD). This celebration presents a unique opportunity to raise public awareness about pulses and the fundamental role they play in the transformation



Celebration of World pulse day

to more efficient, inclusive, resilient and sustainable agrifood systems for better production, better nutrition, a better environment, and a better life, leaving no one behind. Pulses are nutrient-dense, providing a good source of vitamins and minerals that are vital for mental health. The celebration this year under the theme Pulses to empower

youth in achieving sustainable agri food systems focused on the key role young people play in shaping a better future for food and bring testimonies and perspectives of youth organizations' representatives. With this background, Krishi Vigyan Kendra, Vijayapur celebrated World Pulse Day on 10th February 2022. The Senior Scientist

and Head gave the introductory remarks about World Pulse Day. A lecture was organized for the Diploma students on the importance of pulses in daily diet and recent trends in cultivation of pulses and the new varieties in pulses. The Programme concluded with the vote of thanks. All the KVK staff were present on the occasion.

**ICAR-KVK
Vijayapura-II**

FLD field Visit

KVK Indi scientists visited to frontline demonstration (FLD) fields on wheat variety UAS-375 and chickpea variety BGD-111-1 at Bhairunagi village on 04.02.2022 wheat crop is in tillering stage and chickpea crop is at pod filling stage and free of pest and diseases due to timely suggestion given by scientist.

Capacity building of farmers in Scientific diary farming

Scientific diary farming under capacity building of farmers on profitable diary farming from 07.02.2022 to 09.02.2022 at



Capacity building of farmers in Scientific diary farming

ICAR Krishi Vigyan Kendra, Indi. Dr. Bhimashankar Kannur, Assistant Director of Animal Husbandary, Indi inaugurated the programme and delivered lecture on importance of diary animals in enhancing the income of farmers and further suggested the trainees to rear the desi

animals like Gir, Sahiwal etc., Dr. Santosh Shinde, Scientist(-Animal Science), KVK, Indi delivered different topics like breeds, breed selection, feeding management, disease management etc., to the farmers during these days of training. The farmers were taken to the field of Sri Raghavendra, of Ahirsanga village who is a successful diary farmer and he narrated the his success pathway to the farmers. Nearly, 40 participants were benefitted by the programme.



Visit of KVK Scientists to farmer fields

Celebration of world pulse day and off-campus training on management of rust disease in chickpea

ICAR Krishi Vigyan Kendra, Indi celebrated world pulse day celebrated at Navadagi village



Training on Management of rust disease in chickpea progressing on World Pulses day

of Sindagi taluka of Vijayapura district and also conducted off-campus training programme on rust disease management in late sown irrigated chickpea. Dr. Savita B., Scientist (Soil Science), ICAR Krishi Vigyan Kendra, Indi told that pulses are rich source of protein and essential for health and nutrition. World pulse day is being celebrated from 2019 onwards and UN has declared that there is a need

to double the production by the year 2050 apart from that pulses play a significant role in nitrogen cycling as they fix atmospheric nitrogen through symbiosis. Dr Syeda Samina Anjum, Scientist (Plant Pathology), KVK, Indi spoke about the farmer who sown the chickpea seeds during December to January in irrigated condition. To manage rust disease in chickpea three pesticide spray should be

taken as follows. First spray of propiconazole (Tilt) @ 1 ml/lit of water during 35-45 DAS. Second spray of Tebuconazole (folicure) @ 1 ml/lit of water during 50-60 DAS. Third spray should Tebuconazole 50% + Trifloxystrobin 25% (Nativo 75%) @0.5 g per litre of water during 60-70 DAS. As a precautionary measure to avoid rust disease sowing should be taken early in October month.

ICAR-KVK Wayanad

ICAR-KVK Wayanad celebrated National Girl Child Day

KVK Wayanad conducted an Awareness programme on "Importance of girl education, health and nutrition" as part of National Girl Child Day. 57 girl students from VHSE Ambalavayal and Thalipparamb participated in the programme. Wel-



Awareness programme on importance of girl education, health and nutrition



Dr. Safia N.E, Head of KVK Wayanad addressing the farmers on World Pulses day

come speech was given by Smt. Ashitha M.R, Assistant Professor, KVK. The programme was inaugurated by Dr. Safia N.E, Programme coordinator, KVK Wayanad. Dr. Laya Baby, Medical officer, Ayush PHC (Ayurveda) Kappad, Kannur handled the session on various aspects of education, nutrition and health. Seminar was conducted to raise awareness of the importance of girl child, an initiative to eliminate gender-based discrimination in society and to bring about a change in behaviour towards girls in this male-preferred world.

ICAR-KVK Wayanad - seminar and input distribution on World Pulses Day

ICAR-KVK Wayanad conducted seminar on importance of "Pulses for Nutrition and Soil fertility". Classes were dealt by Dr. Safia N.E, Programme Coordinator

KVK Wayanad at Cheeral village as part of Krishi Padasala. 21 farmers actively participated in the programme.

Seeds of blackgram and green gram were distributed to the progressive farmers. The sowing of black gram seeds on 25 acres of land was inaugurated with the participation of 25 farmers under the Manikuni Padashekhar Samithi of Vellithodu in Muttill Panchayath. Panchayat President Smt. Naseema Mangadan inaugurated the sowing program. Ward Member Mrs. Shailaja presided the function. Krishi Vigyan Kendra Programme Coordinator Dr. Safia N .E presented the importance of the programme. Smt. Nisha Sudhakaran, Development Standing Committee Chairperson and Sri. Jacob, Welfare Standing Committee Chairman and Smt. Deepa Bhaskaran, Agricultural Assistant offered felicitation.

Sri. Ashokan V .P, Padashekhar Samithi Secretary expressed his gratitude. Distribution of green gram seeds in 50 acres of land under the Valiya vattam, Punchavayal and Kozhuvana Padashekhar Samithi of Nenmeni Panchayath in Bathery block were also organised on the day. 50 farmers were involved where the programme was inaugurated by Mrs. Saisunnath, ward Member (16th ward). Mrs. Ashita M. R, Assistant Professor, Horticulture, KVK Wayanad, presented the topic. Shri. Dayanandan, Valiya Vattam Padashekhar samithi Secretary, welcomed the gathering. Mrs. Anupama Krishnan, Agriculture Officer, Nenmeni offered felicitation which is presided by Sri. Skaria, Padashekhar Samithi President. C.M Prabhakaran, Assistant Agriculture Officer expressed his gratitude.



World Pulse Day Celebrations

ICAR-KVK Yadgir

**“World Pulses Day” on
10.02.2022 from
ICAR-KVK, Yadgir**

ICAR-KVK, Yadgir in collaboration with IFFCO limited and Department of Agriculture Organized World Pulses Day Programme on creating awareness about the

importance of pulses in sustainable food production at Shellagi village of Shorapur Taluk on 10th February, 2022. Senior Scientist and Head Dr. Amaresh Y.S. Inaugurated the programme and briefed the role of pulses in food which are rich in protein among all cultivated crops used as the main source of protein to vegetarian people of India. Second important constituent of Indian diet after cereals. Pulse crop can be grown in all types of soil and climatic conditions. Assistant Di-

rector of Agriculture, Shorapur Sri. Gurunath explained the various schemes of Agriculture department in Soil fertility and productivity at the individual farm level. Dr. Satishkumar Kale Scientist (Horticulture) KVK, Yadgir delivered introductory remarks and vote of thanks by Dr. Guruprasad. H Scientist, (Entomology) KVK, Yadgir. During this occasion IFFCO limited staffs were present and also about 58 farmers from different villages participated in the programme.





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