

KVK TIMES

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

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BENGALURU**

**KERALA AGRICULTURAL UNIVERSITY
THRISSUR**

**ICAR - KRISHI VIGYAN KENDRA
WAYANAD**



KVK TIMES

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

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Agriculture forms the backbone of India's inclusive progress and the research and extension system of the ICAR have played a pivotal role in the agricultural development. Krishi Vigyan Kendras established by ICAR extension wing have been actively toiling in the dissemination of technologies from the research system to the farm gate since their establishment in 1974. Each KVK strives in achieving the mandates and objectives in its unique style according to the location-specific farming scenario of its district and fortifying the livelihood security of the Indian farming community. It is praiseworthy to mention that the KVKs act as the knowledge resource centre and in collaboration with line departments, NGOs and farmer organizations, play a proactive role in the holistic development of farm sector.

ICAR-ATARI, Bengaluru has made a commendable effort in documenting, showcasing, and publishing the untiring activities of 48 KVKs on a fortnightly basis on time, entitled aptly as KVK TIMES. This newsletter is an abridged document covering the momentous activities and achievements of Zone XI KVKs that facilitate cross learning and adoption of appropriate technologies and recognize the concerned scientists for their archetypal performance. I am sure that this publication would undeniably enable the KVKs to introspect and refine their activities so that they execute in a befitting manner.

The collective efforts of ATARI, Directorates of Extension and SAUs, host NGOs and KVKs are greatly creditable and I wholeheartedly appreciate the staff members of Wayanad KVK for compiling and bringing out the 47th issue of KVK TIMES for the period of the first fortnight of June 2023. My best wishes to all KVK fraternity members for fostering the nation's advancement.



(Dr. B. Ashok)



Dr. V. VENKATASUBRAMANIAN

Director
ATARI, Bengaluru



Krishi Vigyan Kendra Wayanad since its inception in 1982 has been in the forefront of extending need-based technologies to the farming community. KVK Wayanad has garnered reputation for meeting the requirements of farmers in acquiring knowledge and skills in livelihood promoting agripreneural activities through capacity building and supply of adequate bio inputs. The team of KVK Wayanad under the able leadership of Dr Safia N.E., Sr. Scientist & Head has been doing a remarkable job in bridging the gap between the research system and the farming community by carrying out the mandatory activities prescribed by ICAR and KAU.

The fortnightly edition "KVK TIMES" giving a bird's eye view of the activities spearheaded by Zone XI KVKs has been an eye-opener into the multifarious activities conducted by KVKs. I wish the team of KVK Wayanad all success for the compilation of the activities of Kerala and Karnataka KVKs for the 47th edition of KVK times.


(V Venkatasubramanian)



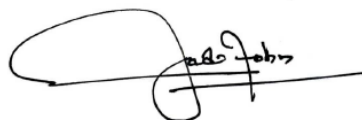
Dr. JACOB JOHN

Director of Extension
Kerala Agricultural University

Krishi Vigyan Kendras under ICAR system have been actively engaged in the improvement of livelihood status of the Indian farming community ever since their inception in 1974. Each KVK works in its distinct manner, catering to the needs of the farming situation under its jurisdiction, by disseminating need-based farm technologies, developing agripreneurship and conducting location specific trials and demonstrations with an impeccable elegance. KVKs act as the knowledge resource centre by actively collaborating with all line departments. The KVKs, thus, serve as beacon models of facilitating holistic agricultural development of the concerned districts.

The pioneering initiative of ICAR - ATARI, Bengaluru in showcasing the achievements of 48 KVKs through a fortnightly newsletter KVK TIMES is highly praiseworthy. Applause to the entire team of ATARI and all KVKs of Zone XI for constantly publishing the newsletter on time. I am definite that this publication would aid the KVKs to share their innovative activities periodically and accomplish their mission more enthusiastically and effectively.

The earnest contribution of all the stakeholders in bringing out this splendid KVK TIMES is worth admiration. I express my sincere appreciation to the entire team of Wayanad KVK and its Programme Coordinator for their truthful involvement in meticulously bringing out the 47th issue of KVK TIMES scheduled for the first fortnight of June 2023.



Dr. JACOB JOHN

Dr. SAFIA N.E.

Senior Scientist and Head
KVK Wayanad



I feel very much elated in bringing out the 47th issue of KVK TIMES from ICAR KVK, Wayanad at the behest of XI Zone ICAR – ATARI, Bengaluru. I parade my deep sense of thankfulness to our benevolent Director Dr. V. Venkatasubramanian for having provided this great prospect in compiling and bringing out the present issue of KVK TIMES.

I find no words in articulating my profound gratitude to our Honourable Vice-Chancellor, Dr. B. Ashok, IAS of Kerala Agricultural University; serving as a beacon for the KAU and the farming community of “God’s own country”. His fervent motivation, inspiration and leadership afford the energy for us to endeavour our goals and objectives very ardently.

It gives me immense pleasure to express my wholehearted thanks to our respected and passionate Director of Extension, Dr. Jacob John serving as a pillar for the progress of Krishi Vigyan Kendras of Kerala. He displays utmost care and direction in every activity of the KVK and ensures that the activities of the Kendra aid to improve the livelihood of the peasants.

My unfathomable indebtedness and appreciativeness are due to the scientific community of the XI Zone ICAR – ATARI, Bengaluru for their incessant guidance under the able supervision of Dr. V. Venkatasubramanian, the Director of the institute. I would also like to extend my sincere gratefulness to the XI Zone KVK fraternity for their timely contribution, without whom this could have not been possible.

I am really in dearth of words to acknowledge my spirited, energetic, and dedicated scientists and other staff of KVK, Wayanad. The oneness and the unity they display is exemplary and I take this occasion to thank my KVK family wholeheartedly. Once again, let me thank and acknowledge profusely each and everyone who has played a pivotal role in bringing out the 47th issue of KVK TIMES.

A handwritten signature in blue ink, appearing to read 'Safia', written over a light blue rectangular background.

Dr. Safia N.E.



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KRISHI VIGYAN KENDRA
ALAPPUZHA

Turmeric value chain getting spread in Alappuzha district



In the beginning of this century, turmeric, one of the major spice crops of Alappuzha district was facing a setback in area and production due to various reasons including lack of availability of good quality and high yielding variety seeds, low price, and lack of processing facilities in addition to the lack of scientific cultivation practices leading to poor production. ICAR-KVK-Alappuzha intervened for revival of the crop in the district and conducted a series of On Farm Testings (OFTs), Front Line Demonstrations (FLDs), and training programmes in various parts of the district since 2010. High yielding varieties like IISR-Prathibha, IISR-Prabha, IISR-Alleppey Supreme and IISR-Pragati were tested for their suitability and popularised among the farmers. Processing facilities like turmeric boiler and polisher were also introduced. During 2016, KVK-Alappuzha initiated the formation of a FPO 'Onattukara Spices Farmer Producer Company Limited' (OSFPC) with the financial assistance from NABARD in Bharanikkavu block, concentrating its activities in 6 panchayaths of the block with 200 shareholder farmers. The company oriented its activities (with support and monitoring by the KVK) through distribution of good quality inputs, timely guidance and capacity building of the farmers for adoption of good agricultural practices, aggregation/procurement of marketable produce, value addition/minimal processing, establishing market linkages, and

providing high quality products to consumers with the ultimate objective of income enhancement of the shareholders in particular and farming community as a whole. Gradually the shareholder partners increased to 401 in 2022 with a paid up capital of Rs. 4.6 lakhs. Parallel to the activities of FPO, KVK also initiated a project of 'Value Chain in Turmeric' (VCT) in 10 panchayaths of two other blocks viz., Mavelikkara and Chennangannur with 25 selected progressive farmers in each panchayath as partners. They also started cultivating high yielding turmeric varieties with the technical support of KVK. Now more than 700 farmers are involved in the scientific cultivation of high yielding turmeric varieties with OSFPC coordinating the procurement, processing and marketing activities. The FPO provides good quality seed materials and procure the fresh produce at a higher price of at least Rs. 5 per kg over local market price which is a big support to farmers. During 2022-23, the procurement of turmeric by OSFPC was 22.5 tons from the shareholder farmers. Now Alappuzha district has become the seed hub of high yielding varieties of turmeric and source of good quality turmeric powder with high curcumin content. The horizontal and vertical expansion of turmeric farming in the district is evidenced from the fact that the area and production of turmeric increased from 22 ha and 31 tonnes of cured turmeric in 2010 to 47 ha and 98 tonnes of cured turmeric in 2022, respectively. Thus these collective and organized efforts resulted in the enhancement of livelihood of turmeric growers and revived the glory and economy of the district.



KRISHI VIGYAN KENDRA BAGALKOTE

Celebration of Vanamahotsava



On the eve of World Environment day Vanamahotsava programme is organized at KVK Bagalkote, on 02.06.2023. Total 120 students of Shri. Nijalingappa Medical College (S.N.M.C) Bagalkote, participated in the programme. Sampling of Curry leaf, Ashoka, Guava and Sapota seedlings planted in the premises of KVK Bagalkote.

Celebration of World Environment Day



On the eve of World Environment day Vanamahotsava programme is organized at KVK Bagalkote, on 05.06.2023. Total 43 students

of Shri. Nijalingappa Medical College (S.N.M.C) Bagalkote, participated in the programme. Sampling of Curry leaf, Ashoka and Guava seedlings planted in the premises of KVK Bagalkote. The participants took pledge by saying – all I pledge to make all possible changes in my daily life to protect the environment. I also commit to continuously motivate my family, friends and others about the importance of environmentally friendly habit.

Awareness programme on Weather based Agriculture



An awareness programme was conducted on 05.06.2023 to medical students of Sri S Nijalingappa Medical College. A total of 43 students and staff participated and got benefit of this programme. Dr. D. N. Kambrekar (Senior Scientist & Head) and Mr. Basavaraj Nagaleekar (SMS Agrometeorology) explained to students about weather, climate, climate change, reasons for climate change and effects of climate change on agriculture, mitigation strategies, Objectives of GKMS project, details about DAMU and Weather based Agro-advisories. Also explained about automated weather station and Weather-related mobile applications like Meghdoot, Mausam, Damini.

KRISHI VIGYAN KENDRA
BALLARI

Diagnostic field visit and Method demonstration of Seed treatment by ICAR -KVK Ballari



Due to delay in onset of monsoon and cotton problematic fields, Assistant Director of Agriculture, Sandur Tq of Ballari Dist requested ICAR-KVK, Hagari scientists to take up roving survey for leaf reddening in cotton fields of Tumati, Kodalu, Antapura villages of Toranagallu of Sandur Tq. In a quick response, ICAR-KVK scientists Hagari joined with Agriculture Department staff

(Agriculture officers) along with ATMA project staff (ATM'S and BTM'S) visited many cotton fields which were severely suffered by leaf reddening and stunted growth. Upon interacted with the farmers in affected fields, they were suggested to take up foliar spray of micronutrients, MgSO₄ 5gm/l, Boron 5gm/ lit and 19:19:19 @ 6gm/ lit to counteract the existing problem.

Further KVK scientists and all department staff have made a group discussion in the village main hub on importance of micronutrients application in cotton for mass awareness on use of foliar fertilizer in cotton. In addition the farmers were educated on Trichoderma application to forgoing crops seeds as seed treatment to combat soil borne and seed borne diseases. Method demonstration of seed treatment using chemical fungicides, insecticides and Bioagent Trichoderma, in three consecutive steps (F-I-R way) to counteract soil borne, seed borne fungal and vector transmitted viral diseases as precautionary measures.



**KRISHI VIGYAN KENDRA
BELAGAVI-1**

**Visit of ATARI director to Belagavi - 1
IFS farmer unit**

near by MIDC areas of Kholapur and Sangli. With this integrated model of farming only by 2.5 acres of land, he earns about 15 lakhs rupee in a year. Dr. V. Venkatasubramanian sir appreciated his efforts and suggested to support the nearby farmers for increasing their income from agriculture and allied sectors. In this visit Senior Scientist



On the date of 9th June 2023, Dr. V. Venkatasubramanian, Honourable ATARI Director, made a visit to progressive and awardee farmer Shri. Suresh Patil of Bhudhihal, Nippani taluk, Belagavi District. In this visit farmer shown his loose housing system for milking animals, along with balanced ration management. In the balanced ration management Mr. Suresh Patil use 30% dry, 40% wet, 25% silage and 5% supplements along with mineral mixture. He also shown the storage of dry fodder in tin shade kept in plastic bag which was treated with 2% urea solution. With the self-requirement of fodder Shri. Suresh Patil also runs a business of supplying silage bag at 50 kg packing. Such packing is more popular among the farmers because of its easy handling by every one in family along with women's and adolescents. Mr. Suresh Patil also engaged in milk and milk-based product manufacturing and selling unit. He has created a Amruth Dairy farm brand. This prepared product goes for selling in Nippani, Chikkodi and

and Head, ICAR-BIRDS KVK, Tukkanatti and Progressive farmers from Nippani were participated.

KVK Tukkanatti home scientist participated the millet recipe contest meeting

ICAR _BIRDS KVK home Scientist Rekha Karabhari was participated in the event of Online meeting on monitoring of millet recipe contest. In this meeting hon ADG Agril Extn. ICAR along with ATARI director Dr. V. Venkatsubramanian also guided to all participants regarding the millets recipe contest. Millets recipe contest, its background, range of participants selection as well popular millets in that area and their same recipe by different participant has been very clearly guided by Dr. Ranjay K. Singh of the concerned meeting. Belagavi is the hub of several millets so in future the producer as well as the processor will do well fine the area of processing. For this meeting over all participants from ATARO zone X and zone -XI were participated.

ICAR KRISHI VIGYAN KENDRA BELAGAVI-II

Visit of Hon'ble Governor to KVK stall



ICAR-KLE KVK, Belagavi-II exhibited stall on agriculture technologies suitable for Belagavi district at KLE Academy of Higher Education and Research during the 13 Convocation of the KLE Medical University. Shri. Thaawar Chand Gehlotji, Hon'ble Governor, Karnataka state inaugurated the stall of the KVK and interacted about the KVK activities and was impressed to know that soybean seeds are being exported to Madhya Pradesh and asked to continue the service in providing quality seed material to the farming community with a motto for doubling farmers income. During the occasion, Dr. Prabhakar Koreji, Hon'ble Chairman, KLE Society, Belagavi also highlighted the Kisan Bazar activities carried by the KVK in service of the farming community for timely supply of Agri-inputs. Shri. B.R. Patil, Chairman,



B. Angadi, Senior Scientist and Head interacted with the Governor regarding Entrepreneurs developed by the KVK for different agriculture commodities.

Visit of Director, ICAR-ATARI Bengaluru



Dr. Venkatasubramanian, Director, ICAR-ATARI, Bengaluru visited ICAR-KLE Krishi Vigyan Kendra, Mattikopp on 10.06.2023 and reviewed the KVK activities and discussed preparedness of KVK for implementation of Kharif OFT/FLD programme at farmers field. Further, instructed to prepare a contingent crop plan. Later, visited various demonstration units at KVK instructional farm.

Celebration of World No Tobacco Day

World No Tobacco Day programme was organized on 31 May 2023 with aim to create awareness about harmful effects by consuming tobacco on health of the individual which may lead deadly disease like cancer. The scientists of the KVK educated the farmers to keep their childrens (teenagers) away from the use of tobacco, as tobacco contains an addictive nicotine. The teenagers start consuming tobacco due to influence of the peer group and these tobacco products on prolong consumption leads ill effects on brain development and harm the parts of the brain that control attention and changing of mood until the consumption. Hence, it is essential to restrict the use of tobacco for individual wellbeing.

ICAR KRISHI VIGYAN KENDRA
BENGALURU RURAL

Celebration of World Environment Day
2023



ICAR – Krishi Vigyan Kendra, Bengaluru Rural District celebrated “World Environment Day 2023” with the theme of ‘Beat the Plastic’ on 05.06.2023 in the KVK premises. The programme was inaugurated by Dr. Venkate Gowda, J., Senior Scientist & Head, ICAR – Krishi Vigyan Kendra, he briefed about the ill effects using plastics in daily life, due to excessive use of plastic, couldn’t get absorbed the rainwater into the ground and it may also causing to soil erosion and leads to low productivity. All the participants took the oath as a part of Meri LiFE Campaign for an Eco-friendly life style. During the programme planting of forest species (Mahagani) were done at KVK premises by the KVK staff and invitees. Totally, 35 farmers and farmwomen were benefitted from the programme.



As a part of this programme, a drawing competition was held about the ‘Environment’ for the students of Govt. Higher Primary School, Melekote, Doddaballapura taluk on 03.06.2023 and the best three drawings given Mahagani saplings as prize.

KRISHI VIGYAN KENDRA,
BIDAR

**World Milk Day:
Give Importance to Quality Milk
Production**

The rural economy is closely tied up with milch animals and it depends on it for their livelihood. The milching animals have been never a separate occupation from agriculture and livestock enterprise and play a crucial role in improving socio-economic conditions of dairy farm women. There are several aspects of dairy development but one of important aspects is a clean milk production. There is a need for more milk production as well as quality. In this background ICAR-Krishi Vigyan Kendra, Bidar in coordination with KMF Bidar celebrated the World Milk Day on 1st June 2023. Dr. Sunilkumar N.M, Senior Scientist and Head, ICAR Krishi Vigyan Kendra, Bidar in his inaugural address stressed that in spite of large volume of milk produced, the quality aspects of milk production has not received adequate attention. The domestic production could be increased in terms of quantity and quality with adoption of good dairy farming practices. Although, Bidar district stands at higher rank first in milk production among the district of Kalyan Karnataka, still there is a scope to improve the quality of milk production and is not up due to lack of technical knowledge to the farmer. So ICAR-KVK constantly providing information to the farmers about the clean milk production



Dr. Gnyandev Bulla, Scientist (Seed Science and Technology) said that the increased in milk production can be achieved with quality and nutritional fodder and also proper health management in dairy animals.



Dr. Akshayakumar, Scientist (Animal science) given a special talk on Milk is an integral part of everyone's diet and it is rich in all the important nutrients. Milk quality is utmost important factor in dairying today due to consumer's awareness regarding "Quality". Thus quality milk production and knowledge of hygiene and sanitation of farmers is crucial in food chain. Quality is a result of totally integrated approach from farm dairy environment to the consumer's door. Further, he gave information about the diseases spread by unclean milk and the nutrients required for dairy animals.

During this occasion, Dr. Halige explained that importance of nutrients in milk to the participant students. He also briefed about value addition of milk, value added milk products such Paneer, Peda and Shrikhand etc. The students of Agriculture Diploma expressed their view about the World Milk Day like Miss. Pratibha, Mr. Rohit and Mr. Sachin. On the eve of World milk day the KMF Bidar sponsored and distributed the Masala butter milk to the farmers and students of Agri diploma and more than 78 participant including farmers and students were participated, interacted and got benefitted.

ICAR KRISHI VIGYAN KENDRA
CHAMARAJANAGARA

Kharif Technical Campaign – 2023



A “Kharif Technical Campaign” was organized and conducted by ICAR KVK Chamara-
janagara in collaboration of Department of Ag-
riculture, ChamaraJanagara on 12.06.2023 at
KVK premises. Dr. C. Doreswamy, Special Offi-
cer, College of Agriculture, ChamaraJanagara in-
augurated the programme and suggested the
farmers complete the land preparation before
pre monsoon, to select suitable varieties, to fol-
low intermittent drought tolerance mechanism
and to adopt Integrated farming system to bal-
ance the returns. The objectives and vision of the
programme was explained by Dr. Shruthi .M. K.,
Scientist (Agronomy). Mr. Madhusudhan K., Joint
Director of Agriculture, Dr. Somashekar D. S.,
Deputy Director of Agriculture and Mr. Siddara-
ju N. C., Senior Assistant Director of Horticulture,
ChamaraJanagara explained about the facilities
available at Department of agriculture and hor-
ticulture for cultivation of different crops, about
various schemes and irrigation facilities.

Dr. Ramanappa T. M., Professor
(Plant Breeding), GKVK, Bangalore, urged the
farmers to use quality seed and season recom-
mended varieties to fetch higher returns and
in order to fulfill quality seed availability he ap-
proached for seed production in collaboration of

farmers. And he also shared information about
the drought, pest and disease resistant varieties
of different crops which have regional impor-
tance.

Mr. Rajath H. P., SMS (Agro mete-
orology), explained about the climate resilient
practices, measures to sustain thunderstorm and
lightening and shared the forecast of the present
month and measures to be adopted accordingly
were discussed. Dr. Yogesh G. S., Senior Scientist
and Head, ICAR KVK ChamaraJanagara, presided
over the programme, highlighted the impor-
tance of conserving soil and water in minimizing
the production expenditure, use of recommend-
ed varieties during changing climate situations
and he urged to adopt agro forestry practices
with scientific technologies. Seed treatment with
Bio agents was demonstrated by the Scientists
and suggested to use the same along with sci-
entific management practices. Dr. Mohan Kumar,
Dr. Pompanagouda, Dr. Deepa, Ms. Supriya, was
present during the programme. As a part of the
programme an exhibition of different improved
variety seeds, Bio agents, Bio fertilizers, inputs of
Progressive farmers and posters of different de-
velopment departments were displayed. At the
end of the programme scientists – farmers’ inter-
action was carried out and farmers’ issues were
addressed. In total, 151 farmer/farm women and
members of FPOs were participated in the pro-
gramme from different parts of the district.



ICAR KRISHI VIGYAN KENDRA CHIKKABALLAPURA



Dr. Tanweer Ahmed, Scientist (Agricultural Extension), ICAR-KVK, Chikkaballapura participated as resource person in Mission Life campaign organized by Department of Agriculture, Chikkaballapura at Kammaguttahalli village of Chikkaballapura taluk on 03.06.2023 and addressed the farmers about conservation of natural resources and climate smart agriculture.



ICAR-Krishi Vigyan Kendra, Chintamani organized world environmental day on 05.06.2023 at Kutarajanahalli village of Chintamani Taluk. Dr. Papireddy, Senior Scientist and Head explained about importance of cleanliness and good agricultural practices. Dr. Tanweer Ahmed, Scientist (Agricultural Extension) highlighted about plastic pollution, its impact on human health and soil. Mr. Vishwanath, Scientist (Agronomy) emphasized on climate resilient technologies in agriculture. Dr. Sandhya, Scientist (Soil Science) explained about soil health and its management. All the farmers and scientists

took a pledge regarding conservation of environment. Saplings were planted in the school premises and distributed the jamun seedlings to the farmers.



ICAR-Krishi Vigyan Kendra, Chintamani organized Pre-Kharif technical campaign on 12.06.2023. Dr. P. Venkataravana, Dean (Seri), College of sericulture, Chintamani along with other dignitaries inaugurated the programme and highlighted about importance of selection of seeds and seed treatment. Welcome and introductory speech was done by Dr. Papireddy, Senior Scientist and Head, KVK, Chintamani and emphasized on improved seeds developed by UAS, Bangalore and seed production process. Mr. Srinivasa, Assistant Director of Agriculture, Chintamani participated as chief guest. Farmer Scientist interaction session was organized during the campaign. Mr. Vishwanath, Scientist (Agronomy) explained about Pre kharif preparation technologies, Dr. Sandhya, Scientist (Soil Science) highlighted about scientific soil sampling and soil health management. Dr. Nandan, Asst. professor (Plant pathology) emphasized on integrated pest management practices. Exhibition stalls were set up depicting the different technologies and newly released varieties of UAS, Bangalore. Seed sale counter was made to sell the seeds to the farmers. About 423 Farmers, Krishi Sakhis and extension functionaries participated in the programme.

**ICAR KRISHI VIGYAN KENDRA
CHIKKAMAGALURU**

Campaign on mission lifestyle for environment for sensitizing FPOs for integration mission life

ICAR-Krishi Vigyan Kendra, Chikkamagaluru has organized “Campaign on mission lifestyle for environment for sensitizing FPOs for integration mission life (Sustainable production and consumption)” at of G. Hosahalli Village, Mudigere taluk.



Dr. Krishnamurthy, A.T., Senior Scientist and Head, KVK, Mudigere, in his introductory speech briefed that, this mission life emphasizes on the need for transition to sustainable life styles leading to sustainable consumption and production patterns. Further suggested the farmers of Farmers producers’ organization to adopt improved technologies developed by the agricultural universities and high yielding varieties to enhance the productivity of the crop.

Dr. Suresh Kumara., Scientist (Horticulture), KVK, Chikkamagaluru, delivered the lecture on scientific cultivation technologies of Black pepper, such as newly developed varieties, characters and selection, production of quality seedlings, method of planting, soil conservation practices and water management.

Dr. Prashanth, G.M, Scientist (Soil Science), KVK, Chikkamagaluru, coated that soil of the garden should be tested frequently in order to know the status of soil nutrients and based on soil analysis, apply the fertilizers. Further emphasize mainly on biological manage-

ment of the soil, which enhances the microbial activity, organic carbon, texture of the soil and quality and yield of the crops.

On this occasion total 45 FPO farmers participated and got benefit out of it.

World Environment Day

ICAR-Krishi Vigyan Kendra, Chikkamagaluru has celebrated “World Environment Day” on 05.06.2023 at Government school of G. Hosahalli Village, Mudigere taluk.

Dr. A.T, Krishnamurthy, Senior Scientist and Head, KVK, Chikkamagaluru said that, all the human beings, birds, animals and all the living beings depend nature and nature is boon to the Humans and we should protect the environment. This World Environment Day 2023 is a reminder that people’s action on plastic pollution and we should take the actions to tackle plastic pollution and usage of plastic.

During this programme Dr. Prashanth G.M, Scientist (Soil Science), Krishi Vigyan Kendra, Chikkamagaluru briefed that, over 70 years, plastic- an incredibly versatile, and durable materials – infiltrated the market and permeated seemingly every nook and cranny on Earth. Plastics can provide important benefits, from life-saving medical devices to safe and long-life food storage. However, unnecessary and avoidable plastics, particularly single-use packaging and disposable items, are polluting our planet at alarming rates. Hence it is our duty to control the plastic utilization and conserve the nature. On this occasion planted fruit plants were planted in the school premises. Sri. Panduranga, Head Master, Mr. Ravi, President, School Development Management Board, staffs and total 40 students participated and got benefit out of it.



**KRISHI VIGYAN KENDRA
CHITRADURGA**

World Environment Day - 2023



World Environment Day was celebrated on 05-06-2023 at Krishi Vigyan Kendra, Chitradurga. The inauguration of the programme was done by pouring water to the plant by all the dignitaries on the stage. In continuation of the programme Dr. Kumara O., Senior Scientist and Head in his inaugural speech, briefed about the importance of Environment Day. All the creatures on earth depend upon environment for various needs but the humans have exploited the nature in such a way that the air, water and the soil have become polluted to greater extent causing various harmful diseases to all the creatures. The world Environment day is being celebrated to create awareness among the people to take up measures to control the environment pollution by afforestation activities.

Dr. Ravikumar D., Scientist (Soil Science), briefed about the history of World Environment Day and the theme of Environment Day viz.. "Solutions to Plastic pollution". The excessive use of plastic and chemical fertilizers have caused severe land pollution which has led to the loss of Agricultural land, till now around 12 million hectares of agriculture land has been polluted leading to scarcity of production of food grains. In order to overcome the above mentioned problems, he suggested the farmers to adopt the utilization of organic manures in huge quantity and Inorganic fertil-

izers should be used based on soil test results.

Dr. Hanumantharaya L. Professor (Entomology), Dr. Saraswathi, Scientist (Home Science), Dr. Mahantesh, Scientist (Horticulture) and Mrs. Geetha Kumari (Technical Officer) were present during the programme.

Organic Farming Training

A training programme on Organic farming was organized at KVK, Babbur Farm, Hiriyyur on 07-06-2023. Dr. Suresh D. Ekabote, Associate Director of Research, ZAHRS , Hiriyyur , Dr. O. Kumara, Sr. Scientist and Head , Dr. Ravikumar D., and Shri. K.T. Thippeswamy, Progressive farmer, Hiriyyur were inaugurated the programme by pouring the water to the plant. Shri. K.T. Thippeswamy opined that farmers should adopt the new farming technologies and enable themselves to access various agriculture markets of the country. Dr. O. Kumara, Sr. Scientist and Head during his presidential address, suggested the farmers to adopt organic farming methodology because organically grown products can fetch higher price due to their better quality. He also discussed about the importance of certification of farm produce as organic produce and briefed that now a days people are becoming health conscious and never mind spending more amount on quality products. Dr. Ravikumar D., Scientist (Soil Science), briefed about the problems that can be faced by the farmers during initial stages of adoption of organic farming methodology, the importance of Soil and water testing before selection of crop. He also stressed on pesticide residue which will stay in soil for longer period so farmers should minimize the usage of chemicals in agriculture to avoid the residual impact. Mr. Dattathreya, the founder of Nisarga Native farm, Challakere briefed about various aspects of Agriculture marketing. Mr. Chandrashekar, Organic Certification officer, Bellary discussed about the various procedures of organic certification. Dr. Saraswathi, Scientist (Home Science), Dr. Mahantesh, Scientist (Horticulture) and Mrs. Geetha Kumari (Technical Officer), were present during the programme.

ICAR KRISHI VIGYAN KENDRA
DAKSHINA KANNADA

**World Environment Day:
Beat Plastic Pollution**



ICAR- Krishi Vigyan Kendra Gonikoppal, Kodagu, Karuna animal welfare trust Bengaluru, Kodagu kennel club Pollibetta, veterinary hospital Gonikoppal, Dept. of AH and VS, Ponnampet taluk and Gram Panchayath, Gonikoppal jointly organised one day free anti rabies campaign for the pet dogs of the farmers of the district on the eve of Basava Jayanti at KVK Gonikoppal on 8th June 2023. During the campaign around 88 farmers brought 107 pet dogs to the camp and got vaccinated. In the campaign Dr. Suresh S.C, SMS (Livestock) and Dr. Shantesh A.S, CVO Pol-

libetta coordinated and vaccinated the dog in the programme. Procedures involved in the application of EPN Cadavers in banana for the control of pseudo stem weevil were demonstrated. Detailed interactive session with farmers regarding the application of various technologies at field level and the steps to improve the effectiveness of the technologies was discussed. 127 farmers participated in the session.

Murrel fish farming for higher economic returns

KVK, Dakshina Kannada organised capacity development programme on Murrel fish farming at KVK, Dakshina Kannada on 26th May, 2023. Dr. Somashekar S. R. Associate Director of Extension, KVAFSU, Bidar inaugurated the programme and urged the farming community to take up scientific farming to increase the yield and income. Dr. Shivakumar R., in charge Head, explained how a successful fisheries enterprise can be developed with scientific farming by utilizing the available resources. Dr. Chethan N. Scientist (Fisheries) trained the aquafarmers on water usage, basic aquaculture techniques, fish seed selection and stocking, culture methods and management practices in the farm ponds. Dr. Rakesh K., and Dr. Amogha K. R. from College of Fisheries, Mangaluru participated as resource persons, Aquafarmers from Udupi, Chikamagaluru, Hassan and Coorg got benefited from the programme.



**ICAR-TARALABALU
KRISHI VIGYAN KENDRA
DAVANAGERE**

Wet Waste Composting and Terrace Garden Workshop



One day workshop on wet waste composting and terrace gardening was conducted at KVK on collaboration with Davanagere Municipal Corporation, Horticulture Department and Local Women SHGs. Smt. Renuka, Commissioner of Municipal Corporation, Sri S.T. Veeresh, Ex-Mayor, Dr. Devaraja T.N., Senior Scientist Cum Head, Mr. Basavanagowda M.G., Scientist (Horticulture), Dr. Shantha Bhat, Environmentalist participated in the event. Demonstration of process of compost making, Potting and Repotting technologies was done for 350 participants. Nursery plants and garden wares were exhibited for the benefit of trainees.

Orientation to Farm Science Courses



An orientation about Farm Science Courses was conducted by ICAR-Taralabalu Krishi Vigyan Kendra for second PUC passed out students. Dr. Devaraja T.N.

inaugurated the workshop and inspired the students to consider agricultural science courses as career option. Mr. Basavanagowda M.G., Scientist (Horticulture) gave complete information about the farm science courses-opportunities and challenges. 200 students were participated in the training programme.

World Environmental Day Celebration

World Environment Day was celebrated in collaboration with Shri Chikkanahalli Doddappa High School, Davanagere. Presiding over the celebration Dr. Devaraja T.N, Senior Scientist and Head, ICAR-Taralabalu KVK, Davanagere emphasised the ill effects of plastic in soil, water and air. The most dangerous thing is the entry of plastic in food chain system especially for the children who consume the packed food more and more. This is the alarming time to reject the use of plastic in food system, he added.



Inaugurating the program Shri Shivamurty K. Head Master, Sri Chikkanahalli Doddappa High School said that the best time to bring awareness on environment is at the young age of children and this will help in bringing desirable changes in the society.

In his introductory note Shri Mallikarjuna. B. O., Agronomist gave importance of world environmental day celebration in the world. Dr. Jayadevappa G K welcomed the gathering. Sri Sannagoudra H. M., proposed vote of thanks and Shri raghuraja J anchored the proceedings. The drawing and essay competitions were organised on the occasion and the winners were awarded. Tree plantation campaign was taken up in the KVK instructional farm.

**ICAR KRISHI VIGYAN KENDRA
DHARWAD**

**Visit of Dr. Himanshu Pathak, Secretary
(DARE) and DG (ICAR), New Delhi to
ICAR-KVK, Dharwad on 11.06.2023**



Dr. Himanshu Pathak, Secretary, Department of Agricultural Research and Education (DARE) and Director General, Indian Council of Agricultural Research (ICAR), New Delhi along with Dr. V. Venkatasubramanian, Director, ICAR-ATARI, Zone-XI, Bengaluru visited ICAR-Krishi Vigyan Kendra, Dharwad on 11.06.2023. Dr. A. S. Vastrad, Director of Extension, UAS, Dharwad, Dr. S. A. Gaddanakeri, Associate Director of Extension, UAS, Dharwad and Dr. Shripad H. Kulkarni, Nodal Officer (KVKs), UAS, Dharwad accompanied the dignitaries. Dr. M. S. Biradar,

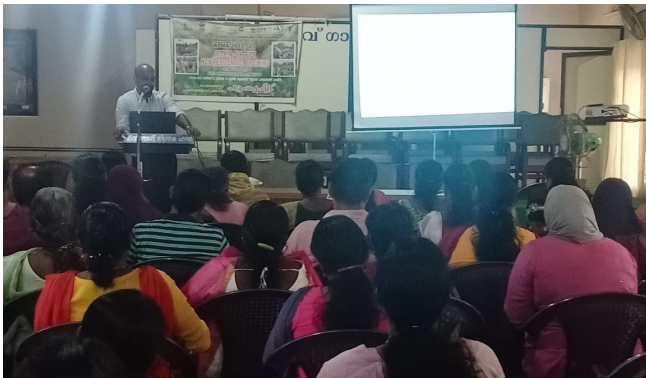
Senior Scientist and Head, ICAR-Krishi Vigyan Kendra, Dharwad welcomed the dignitaries. He planted an auspicious/holy plant at KVK farm along with all the staff of KVK, visited museum, soil and water testing laboratory and interacted with scientists and farmers. Visited various units and exhibition including turmeric grinding machine, poultry hatchery unit, onion de-topping machine, honeybee hives, major agriculture and horticultural crops, processed millet products and other innovative technologies.

Dr. Himanshu Pathak, in his address expressed that, KVK is a miniature of all the technologies related to agriculture and allied sectors and complemented the KVK for doing good work. He suggested the Scientists to disseminate new technologies to reach the farmers for the upliftment of farming community. Dr. V. Ventakasubramanian expressed his gratitude for Director General for visiting KVK, Dharwad and explained about major activities carried out by all the KVKs of Zone-XI. Dr. A. S. Vastrad, Director of Extension, UAS, Dharwad highlighted the major achievements of six KVKs of UAS, Dharwad. The Hon'ble DG also interacted with Shri Ramanana Nandanawadi, a progressive farmer who has grown around 25 crops in only 2 acres of land with organic practices. Shri Veeresh Dharwad, an young progressive integrated farming system farmer, Shri Jagadish Balikai, a master trainer of apiary and other farmers were also present during the visit.



ICAR KRISHI VIGYAN KENDRA
ERNAKULAM

**KVK join hands with ATMA to
popularize flower farming targeting
Onam market**



As part of its efforts to empower farmers on the importance of market oriented farming operation scheduling, the KVK Ernakulam jointly with ATMA conducted one day training on "Pushpa krishi" ie. Commercial Floriculture targeting Onam market at Alangad block panchayath hall on 3rd June 2023. There is huge demand for flowers during the festive season Onam in Kerala and the price would be the highest during this season. Shri Shoji Joy Edison, SMS Horticulture of KVK educated on the time line of activities that needs to be done for marigold (chendumalli) and Gomphrena (vadamalli) cultivation so as to harvest during Onam season.

Saplings of marigold were distributed to the participants and arrangements made to provide technology backstopping. Shri M R Radhakrishnan, Vice president, Alanagd Block Panchayath inaugurated the training, Block panchayath members, ADA Alangad Shri Raju P N, Agricultural Officer Karumallur Smt. Elsa Giles, ATMA Block Technology Manager Shri Nishil T N and progressive farmers and SHG members participated.

**KVK celebrates World Environment
Day**

ICAR KVK Ernakulam celebrated World Environment Day in collaboration with Mookkannur Grama Panchayat on 5th June 2023 at Mookannoor. Gramapanchyath president Shri. Biju Palaty administered the pledge Lifestyle for Environment to all the participants. More than ten varieties of fruit plants were planted around the 4.5-acre size watershed at the Valiya Chira located at the Basil Bavan ward at Mookkannur. Dr. PA Vikas, Subject Matter Specialist (Fisheries) spoke about the importance of trees in lifestyle. Mookkannur aqua Promoter, Mr. Biju M Lewis welcomed the gathering. Vice President Smt. Jaya Radhakrishnan, Ward Members Ms. Laijo Anto, Mr. KT Itup, Mr. MP Devassi Kutty, Mrs. Rani, Smt. Manju Vinod also participated.



ICAR KRISHI VIGYAN KENDRA
GADAG

Celebration of programme on life style for environment (Mission LiFE)



From 3rd week of May to 1st week of June 2023 Mission LiFE activities were conducted at ICAR-KVK, Gadag campus and at adopted villages. Awareness on Soil Health Management was organised for the farmers during the 3rd week of May 2023. In this event, the farmers were sensitized about the importance of soil and water conservation, efficient utilisation of nutrients, soil fertility management and water management practices. During the programme the pledge was taken to change the life style for environment. Later, Awareness programme on usage of Drone in agriculture was conducted for the farmers and demonstration on spray of pesticides in Gaillardia and Brinjal crops were conducted in Shingatarayanakeri village of Mundaragi block in Gadag district during the 4th week of May. Awareness programme on rain water harvesting and its efficient use was conducted at ICAR-KVK, Gadag during 5th week of May. Celebration was concluded with organization of 'World Environment Day' on June 5th.



Celebration of world environment day

Government of India envisaged to celebrate the World Environment Day 2023 on 5th June with a thrust on the Mission LiFE i.e., Lifestyle for Environment. During the programme awareness on protection of environment was given. Farmers were told it is the need of the hour to change the Lifestyle to protect Environment. Pledge was taken and awareness on saving of energy, water & boycotting use of single use plastic was given to the



farmers and farm women. Trees were planted and saplings were distributed to farmers. Skit on 'Dustbin and Darwin' was broadcasted in our KVK's Community Radio Station 'Sahakar Radio Gadag' on the occasion of World Environment Day.



ICAR KRISHI VIGYAN KENDRA HASSAN

Pre-Kharif Technical Campaign - 2023



ICAR-KVK Hassan in collaboration with College of Agriculture, Karekere, Hassan, Agriculture Research station Madenuru, Gunjevu and Arasikere organized the Pre-Kharif Technical Campaign and farmers-scientist interaction programme at KVK, Hassan on 12-06-2023. Mr. Krishnaegowda, President of Krishika Samaja, Hassan has inaugurated the programme and in his inaugural speech he said that farmers should interact with the KVK scientists and get updated information on production and management aspects of crops and implement the same on their field in order to realize higher income.

Dr. S. N. Vasudevan, Dean (Agri.), COA, Hassan chaired the programme and during his presidential remarks he mentioned that university of agricultural sciences, Bangalore is involved in the production of quality seeds across different crops. These quality seeds are superior to the other seed varieties and are usually free from seed-borne diseases. Hence, using the quality seeds will aid in reducing the cost of production and thereby increasing the returns to the farmer.

Mrs. Kokila, Deputy Director of Agriculture, Hassan has mentioned the availability of seed stock in the district for this

kharif, schemes and programmes of the agriculture department. Dr. Nagappa Desai, Farm superintendent, ARS, Madenuru during his introductory remarks, he mentioned the motto behind the programme. Dr. Nagappa Desai, Dr. Nagaraja, T., Dr. Manjunath, Dr. Arunkumar, B. R., Dr. Srinivas Deshpande and Mrs. Harshitha, N., provided the technical information to the farmers.

There were 12 stalls in the campaign viz., College of Agriculture Hassan, Bio-fuel Park, Madenuru, ARS, Madenuru, Gunjevu, Arasikere, NSP Bangalore, NSC, Veterinary College Hassan, Fisheries department, Syngenta, Godreaj, TATA Rallis, MCF, Coramandal and IFFCO participated, exhibited and sold their products.

All Agriculture research station heads, line departments officials and agriculture college professors were participated and involved in farmers scientist interaction during the programme. Totally 352 farmers and farm women were participated in the programme.

Dr. Rajegowda, Senior scientist and head, KVK, Hassan welcomed the gathering, Dr. M. Shivashankar, Scientist (Home Science) delivered vote of thanks to the gathering and the programme was anchored by Dr. Sakamma, S., Farm manger, KVK Hassan.



ICAR KRISHI VIGYAN KENDRA
HAVERI

**Celebration of World Environment Day
by KVK Haveri**



KVK Haveri celebrated World Environment Day on 5.6.2023 at Budapanalli village of Byadagi taluk by planting the seedling in Govt. high school premises. During this event Dr. Shripad Kulakarni, Nodal Officer (KVKs), UAS Dharwad was attended as chief guest and narrated the importance of soil, water and air. Plastic pollution is a major challenge for people and the planet. Plastic is incredibly useful and convenient, but it also causes pollution that damages health and the environment. Talking about rain water harvesting and its proper use, he opined that rain water should be stored from agricultural and non-agricultural areas as much as possible in order to facilitate the use of water falling on the land for various needs. Excess rain water can be collected in various types of storage structures and reused for various purposes. He said that this would increase the water table and increase the agricultural production by using this water for protective irrigation.

Dr. Guruprasad G.S. Senior Scientist and Head, KVK Haveri highlighted that

the World Environment Day is being celebrated with a different themes by the UNO, this year it is being celebrated with the slogan 'Solutions to Plastic Pollution'. All over the world this day is celebrated in the form of forest festival by planting saplings. He said that the celebration of this day should not be limited to one day but should be done to protect the environment by planting trees every day. During this occasion scientists from KVK Haveri Dr. Mahesh Kadagi, Dr. Shantveerayya, school staff, progressive farmers and more than 60 students were participated.



ICAR KRISHI VIGYAN KENDRA IDUKKI

Inauguration of spices drying unit and SCSP machinery cell



ICAR- Krishi Vigyan Kendra, Idukki established spices drying unit and SCSP machinery cell at KVK Idukki. The spices drying unit and SCSP machinery cell was inaugurated by Dr. V. Venkatasubramanian, The Director, ICAR-Agricultural Technology Application Research Institute, Zone-XI, Bengaluru in presence of Dr. B T Rayudu, Principal Scientist (Agricultural Extension), ICAR - Agricultural Technology Application Research Institute, Zone-XI, Bengaluru, and Ms. Reena Chacko, Chairperson, Bapooji Sevak Samaj. The dignitaries visited the unit and machinery cell. SMS incharge of Spices

drying unit, Mr. Sudhakar S, SMS (Plant Protection), KVK Idukki explained the work mechanism and mode of action to the dignitaries in presence of Dr. R Marimuthu, Senior Scientist and Head, KVK Idukki and his colleagues. SCSP machinery cell contains Brush cutters, Multi-purpose dryer and Pepper thresher for the benefit of SC farmers of Idukki district. Spices drying unit has been installed latest novel spices drying machinery set, where farmers can avail the service of drying their spices in a nominal rate.



**KRISHI VIGYAN KENDRA
KALABURGI-I**

'Pashu Sakhi' exposer visit to KVK



The 'Pashu Sakhi' IX batch farmwomen's visited to Krishi Vigyan Kendra, Kalaburagi-I on 02.06.2023. Dr. Shreenivas B V, Scientist (Soil Science) gathering and welcomed to the students and staffs and explained about the importance of Soil and Water test in Agriculture also visited to the laboratory and emphasised about the soil health management. The nature and extent of women's involvement in agriculture varies greatly from region to region. Rural women perform numerous labour intensive jobs such as vermicompost preparation, weeding, hoeing, Kitchen garden, grass cutting, picking, Redgram and cotton stick collection for organic recycling, seed production, keeping of livestock, milk processing, preparation of ghee, and poultry unit etc. Dr. Yusufali, Scientist (Agronomy) in his guest lecture explained about the importance of natural farming and the benefits of adopting integrated farming system and increasing soil fertility through addition of sufficient organic matter to the soil and Dr. Zaheer Ahamed, Scientist (Pathology) during his introductory remarks he mentioned it is proud that 60 per cent of works in agriculture were carried out by women only also explained about the various government schemes for encouragement skill development works. Dr. Devendra Biradar, Deputy Director, An-

imal Husbandry department Kalaburagi and 45 farm women of Kalaburagi district were participated in the programme.

Celebration of World Environment Day

ICAR-KVK, Kalaburagi-I celebrated World Environment Day-2023 and taken pledge by DAESI students for protection of environment and emphasised on minimal or not usage of plastics in our day today life activities on 05.06.2023. Dr. M. M. Dhanoji, Dean (Agri.), Collage of Agriculture, Kalaburagi inaugurated the program and spoken about the importance of environment day and stressed on conservation of the environment for our future generation. Dr. Raju G. Teggalli Sr. Scientist & Head, KVK spoke on good practice on environment protection also focus on ill effects on pesticides on environment and human beings.

In this programme Dr. Manjunath Patil, Scientist (Animal Science) and Dr. Vasudev Naik, Scientist (Horticulture) presented the importance of environment and impact on global warming also create awareness on effects of plastics on nature, livestock and aquatic animals. Later, planted rose saplings at KVK campus premises by the guest and students on the eve of world environment day and 34 DAESI students, farmers, staffs and G. Pandurang Facilitator, DAESI Programme, KVK, Kalaburagi were participated in the programme.



**ICAR KRISHI VIGYAN KENDRA
KALABURGI-II**

**ICAR-KVK, Kalaburgi-II (Raddewadgi)
honored the young farmer
Mr. Parashurama who saved the
environment with his brilliant farming
practices.**



Tree plantation campaign was organized on 05.06.2023 at ICAR-KVK, Kalaburgi-II (Raddewadgi) as part of World Environment Day. On this occasion, Mr. Parashurama, a young farmer from Kallahanga of Jewargi taluk, who is doing environmental protection by adopting integrated farming system, was

honored. Mr. Parasurama has earned stable income by adopting integrated farming system for ten consecutive years in his 9 (nine) acre land. In their field horticulture crops like mango, lemon, coconut, ber, guava, lotus fruit (dragon fruit), agricultural crops like cotton, sorghum, chickpea, maize, wheat, safflower etc., cow farming, sericulture, and sheep farming are carried out organically. Low cost production and protecting the environment. Head of the KVK Dr. N. Manjunath said and requested the farmers gathered at the center to raise more and more plants in their fields and emphasize on environmental protection. On the same occasion the center's horticulture scientist Dr. Chetan. T., called for increasing short-term rainfed horticulture crops for increased income, food security and environmental protection. In the program Dr. Amrita Elemani participated and talked about the association of agricultural scientists in the village of Rasangi for three consecutive years and the technologies available to the farmers. Farmers from various villages of Jewargi taluk and the staff of ICAR-KVK, Kalaburgi-II(Raddewadgi) participated.



KRISHI VIGYAN KENDRA
KANNUR

Capacity Building on Farm Plan based Production Programme



Second phase training on Farm Plan based Production Programme for nodal officers of Block Level Agricultural Knowledge Centres (BLAKCs) of Kerala Agricultural University and master trainers in Department of Agriculture Development and Farmers' Welfare of Kannur and Kasargode districts was organized on 6th, 8th and 9th June 2023 at Krishi Vigyan Kendra Panniyur. Sri. Surendran A, Project Director (i/c), ATMA Kannur delivered key note address. A session on FPO ecosystem and agricultural production was handled by Sri. T. K. Balakrishnan, M.D., Mayyil FPO. Classes on AIF- Possibilities and convergence with PM-FME Scheme, DIC programmes in primary sector for entrepreneurship development and EDP Possibilities-Exploring clusters of farmers were handled by Sri. Jithin Shaju, Zonal Coordinator, NABCONS Kannur, Sri. Shiras A. S., General Manager, DIC Kannur and Sri. Abhilash N., Senior Faculty, RUDSETI, respectively. Session on FPOs-Prospects and Challenges was dealt by Sri. Jishimon, DDM, NABARD and Dr. Akhil Ajith, Assistant Professor (Agril. Extension), ETC Manjeswaram shared his experiences on performance analysis of FPCs in Kerala.

Sri. Pradeepan M. N., D.D Agriculture handled a session on quality control of agricultural inputs. Sri. Shibin V., Block Coordinator, Kudumbashree Mission led a discussion on JLG formation in collective farming and Kudumbashree programmes. Dr. Jayaraj P.,

Programme Coordinator, KVK handled an interactive session on value chain management for making agriculture as agri business and DPR preparation. Class on statutory and legal competencies of FPOs was delivered by Sri. Renjith Rajan N., CEO, Cheruthazham FPO. Session on prospects of export of agricultural products was dealt by Smt. Manisha, Business Development Manager, APEDA. Sessions on value addition prospects in agriculture and allied sectors, Attracting and Retaining Youth in Agriculture-Possibilities and Criteria for evaluation of FPOs was dealt by Smt. Elizabeth Joseph, SMS (Home Science), Dr. Manju K. P., SMS (Entomology) and Dr. Parvathy A, SMS (Agril. Extension), respectively. Dr. Ambili John, SMS (Animal Husbandry) explained about Integrated Farming System models in farm plan and Smt. Anu V., SMS (Agronomy) discussed about climate resilient interventions for farm plan. Participants shared their experiences and suggestions in feedback session.

World Environment Day Celebration

Celebration of World Environment Day was organized on the theme "Solutions to Plastic Pollution" at Krishi Vigyan Kendra, Kannur on 5th June, 2023. Tree planting was done by Sri. C. M. Krishnan, President, Block Panchayath Thaliparamba at office premise of Pepper Research Station as part of celebration. The programme was inaugurated by Dr. Jayaraj P., Programme Coordinator, KVK. He elaborated about the importance of environment and ecofriendly approaches in agriculture and need to tackle pollution due to plastic waste. Demonstration plots of millets were also established at KVK campus on world environment day. Pledge was taken by KVK staff to protect nature and natural resources.



KRISHI VIGYAN KENDRA,
KASARAGOD

**Capacity Building programme for
Extension functionaries**



A capacity building programme for Extension functionaries of Kasaragod district on "Open Precision Farming" was organized by the Department of Agriculture, Kasaragod on May 2, 2023 at ATMA hall, Kasaragod. The programme was inaugurated by Smt. K.N Jyothikumari DD-Agriculture (H) and she briefed the State Horticulture schemes on precision farming for optimum utilization of resources for the district and implementation requirements. Dr. Benjamin Mathew, SMS-Horticulture, ICAR-KVK, Kasaragod, delivered the technical session on Open Precision farming and Crop management in precision farming. The meeting was concluded with an active interactive session by participating officers. A total of 95 Agricultural officers and Agriculture Assistant of Kasaragod district participated in the programme.

**World Environment Day celebration
5th June 2023**

In connection with the World Environment Day-2023, ICAR- Krishi Vigyan Kendra-Kasaragod organized different programmes on 5th June 2023. Two awareness programmes conducted at Padannakad and Poinachy. During the event, 200 numbers of mango

seedlings were distributed among the students of two schools. A special awareness workshop also organized in collaboration with ICAR-CP-CRI Kasaragod for the Scheduled Tribes at Kollamkana Madhur grama panchayath Kasaragod on 5th June 2013. The theme of the programme was "**Climate Smart Agriculture through Crop Diversification**". The programme was inaugurated by Sri Umesh Gatty, Standing committee chairman and presided over by Sri Hanifa Aranthodu, Madhur grama panchayath. Dr K B Hebbar, Director, ICAR-CPCRI Kasaragod was the chief guest for the programme and in his remarks, highlighted the importance and relevance of climate resilient agriculture and adoption of climate smart agriculture to mitigate the climate change phenomenon. He stressed



on the new pest and disease outbreak correlated with climate change and also highlighted the PMs concept of '**LiFE, ie Lifestyle for environment**'. He also emphasized on the detrimental effect of plastics in the environment and importance of reducing the plastics in our daily life. A total of 82 farmers belong to ST community participated in the programme. Planting materials of Mango, Jackfruit, Amla, Dragon fruit, vegetable seed kit and bio agents like Trichoderma and Pseudomonas distributed to the participants.

ICAR KRISHI VIGYAN KENDRA
KODAGU

Free anti rabies campaign for the pet dogs at ICAR-KVK Gonikoppal, Kodagu



ICAR- Krishi Vigyan Kendra Gonikoppal, Kodagu, Karuna animal welfare trust Bengaluru, Kodagu kennel club Pollibetta, veterinary hospital Gonikoppal, Dept. of AH and VS, Ponnampet taluk and Gram Panchayath, Gonikoppal jointly organised one day free anti rabies campaign for the pet dogs of the farmers of the district on the eve of Basava Jayanti at KVK Gonikoppal on 8th June 2023. During the campaign around 88 farmers brought 107 pet dogs to the camp and got vaccinated. In the campaign Dr. Suresh S.C, SMS (Livestock) and Dr. Shantesh A.S, CVO Pollibetta coordinated and vaccinated the dog in the programme.



ICAR KRISHI VIGYAN KENDRA KOLAR

Group Meetings organized by ICAR-KVK, Kolar

ICAR-KVK Kolar conducted Group discussion with farmers of Muthanuru village on 01.06.2023. KVK, Kolar Scientists, Dr. Shahsidhar K.R, Scientist (Sericulture), Dr. Sadanand K. Mushrif, Scientist (PP), Dr. Anil kumar S, Scientist (SS&AC) & Dr. Chikkanna G.S, Scientist (HS) discussed on implementation of FLDs on Redgram, Ragi, Field bean, Groundnut and Mulberry and distributed KMR-316, ML-365, HA-4, BRG-5 seeds. A total of 40 farmers were participated and benefited from the program.



ICAR-KVK, Kolar organized group meeting among the farmers of Dindiganahalli village, Kolar taluk on 02.06.2023. KVK, Kolar Scientists, Dr. Asha K.M, Scientist(Horticulture), Dr. Anil kumar, Scientist(SS&AC), Dr. Shashidhar K.R, Scientist(Sericulture) & Dr. Chikkanna G.S, Scientist(HS) discussed about the implementation of FLDs on Marigold, Potato, Ridge gourd, tuberose and distributed KMR-316, ML-365, HA-4, BRG-5 seeds of Ragi, Redgram and Dolichos beans for sowing. Around 50 farmers were benefited from the program.

ICAR-KVK Kolar conducted Group discussion with farmers, Farm women and SHG members of Hosahalli, Mulabagal taluk on 02.06.2023. KVK, kolar Scientists, Dr. Chikkanna G.S, Scientists(HS), Dr. Anil kumar, Scientist(SS&AC) discussed on implementation of OFT, FLDs and Nutrigarden. Distributed Redgram and Filed Bean seeds to farmers. Around 28 farmers were

benefited from the program. Also discussed on Mission Life's Agricultural workshop with the theme "Millets for Nutritional security" program.

World Environment Day



KVK Kolar celebrated World Environment day with tag line Beat plastic pollution at KVK Kolar in Association with ATMA Kolar on 05.06.2023. Dr. Shivaram, Dean, COH, Kolar inaugurated the function and delivered a lecture on water saving and importance of millets. Mrs Bhavya Rani, DD Agriculture, awarded farmers from Kolar district Dr Shivanand V. Hongal, Senior scientist and Head presided the function and explained the importance of agriculture activities for environmental protection. Planting important fruit saplings at Natural farming demo unit of KVK by Guests, Took Environmental Day Pledge and Dr. Shashidhar K.R., Scientist (Sericulture) delivered lecture on Composting techniques in Agriculture and Sericulture Dr. Anil Kumar S, Scientist (SS&AC) delivered lecture on Importance of Natural farming and soil health management. Around 100 Farmers were benefited by the program and after the program KVK Kolar distributed saplings to the Guests and farmers.

Field visit to problematic Mango orchard

KVK Kolar scientists, Dr. Shivanand V. Hongal, SS&H, Dr. Sadanand K. Mushrif, Scientist (PP) & Dr. Asha K. M, Scientist (Horticulture) made field visit to problematic Mango orchard in Chitnalli village, Totli gate, Kolar taluk on 07.06.2023. The crop was infested with Mango stem borer & phomopsis blight. The problems were diagnosed & suitable management practices have been suggested to the farmer.

KRISHI VIGYAN KENDRA
KOLLAM

**High value products from
Sindoor variety jackfruit
an initiative of KVK, Kollam**



Jackfruit (*Artocarpus heterophyllus*) is a tropical fruit that holds immense potential for value addition in India. It is known for its large size, unique flavour, and versatility in culinary applications. Kerala, known as “God’s Own Country,” is blessed with abundant tropical fruits that grow in its diverse climatic conditions. The state is home to several indigenous and cultivated varieties of Jack fruit. Each one has its unique characteristics in terms of taste, size, and texture. The common cultivars are Varikka and Koozha. Varikka is a fibrous and golden-yellow medium-sized fruit with a sweet and aromatic taste and Koozha another popular variety is known for its large-sized fruit, with a sweet and slightly crunchy texture. While these fruits are traditionally consumed fresh or in simple preparations, there is significant potential for value addition for capitalizing on their unique flavours, nutritional profiles, and cultural significance.

Sindoor jack variety which is a selection variety released by Farming Systems Research Station, Sadanandapuram (Kerala Agricultural University) in Kollam District. It is a jack variety with attractive sunset orange-coloured flakes and highly sweet-scented and firm, getting its name from the colour of the arils. Sindoor bears medium-sized (11-12 kg) fruit twice a year. Grafted plants will bear fruit within 3-4 years of planting. Each tree bears as many as 30

to 40 fruits per year. Sindoor is a rich source of vitamin C, Beta carotene, potassium, dietary fibre, and some other essential vitamins, minerals and antioxidants that are essential components of a healthy immune system. It can be utilised as a valuable fruit for high-value processed products with export qualities as the demand for jackfruit and its value-added products is growing both domestically and internationally.

In light of this ICAR- Krishi Vigyan Kendra, Kollam initiated to develop and standardise value-added products from Sindoor variety jackfruit under the supervision of Community Science Scientist, Smt. Shamsiya A.H. Kendra was able to develop ten marketable value-added products with zero wastage processes and the work was the first of its kind using sindoor variety. The products developed are Squash, Syrup, Jam, Jelly, Halva, Varatty, Layer, Candy, Preserve and Vacuum Fried Chips. These high-value products were exhibited in VAIGA (Value Addition for Income Generation in Agriculture) an endeavour to showcase current and emerging national and international trends in secondary agriculture technology, product diversification, processing, machinery by Department of Agriculture Development and Farmers Welfare, Government of Kerala at Trivandrum.

Demand for Value-added products using Sindoor jack fruit variety can be utilised and commercialised for better returns and increased profit to the farmers, processors and entrepreneurs. This can contribute significantly to rural development and employment generation. High value-added products from Sindoor variety jackfruit offer a range of possibilities for entrepreneurs, farmers, and consumers alike. Sustainable Agriculture and Environmental Conservation can be contributed by attracting more farmers to a commercial plantation of the variety.



KRISHI VIGYAN KENDRA
KOPPAL

World Environment Day



On the eve of world environment day on 05.06.2023 celebrated by ICAR – Krishi Vigyan Kendra, planted perennial fruit plants Custard apple and Jamun in the gracious presence of Dean COA, Gangavathi, Dr. J Vishwanath, Board member of UAS, Raichur Shri. G Shridhar. Nearly 50 farmers from Nilageri and Kudaremooti who are also beneficiary under SCSP programme were present. During the programme importance was given to reach theme of soil day “Beat the plastic pollution, Ecosystem restoration” to the participates. COA, Dean Dr. J Vishwanath given the message to save the soil which is part of our environment to have the food security in future. 50 beneficiaries under SCSP programme were distributed with Mango and Coconut grafts and seedlings respectively.



**KRISHI VIGYAN KENDRA
KOTTAYAM**

World Environment Day Celebration



In connection with World Environment day celebration, KVK Kottayam conducted various programmes on 05.06.2023. Tree plantation campaign was organised in collaboration with 'Nature club' members of SreeNarayana Arts and Science College, Kumarakom. Saplings of fruit trees were planted in and around the premises of KVK and along the public road side. Campaign on plastic waste management was also conducted on the same day with the theme 'solutions to plastic pollution'. Demonstration of 'proper segregation of reusable, recyclable and single use plastic' was conducted in KVK campus. Around 50 MGNREGS workers attended the plastic awareness programme.



Seminar on 'Novel Technologies in Agriculture Sector for the Benefit of Farmers'

Seminar on the topic 'Novel Technologies in Agriculture Sector for the Benefit of Farmers' was conducted on 09.06.2023 at Thirunakkara, kottayam. Programme was organized by 'Deseeya Karshaka Federation, Kerala'(DKF), an independent association of Kerala farmers. During the session, various farmer friendly technologies developed by Kerala Agricultural University which are supplied and demonstrated to farmers by KVK Kottayam like Ayar and Sampoorana (Secondary and micro nutrient mixtures), bio control agents against various pests and diseases and different plant varieties were introduced to the farmers.



Procedures involved in the application of EPN Cadavers in banana for the control of pseudo stem weevil were demonstrated. Detailed interactive session with farmers regarding the application of various technologies at field level and the steps to improve the effectiveness of the technologies was discussed. 127 farmers participated in the session.

**KRISHI VIGYAN KENDRA
KOZHIKODE**

Mass planting campaign by KVK



In the eve of World Environment Day, Krishi Vigyan Kendra, Peruvannamuzhi conducted mass saplings plantings campaign at Maruthonkara Panchayat. A programme of mass planting of Malabar neem plants was inaugurated by Mr Sajith, K. President, Maruthonkara Grama Panchayat at a site near MRF of Kunnamel Block. The programme was presided by Dr P. Ratha Krishnan, Programme Coordinator, KVK, Peruvananmuzhi. Ward members, members from Pratheksha farmers group, staff from KVK Mr. C K Jayakumar and Smt Anjana K.P were attended and planted saplings. Another mass planting programme was conducted at Dr Ambedkar Residential School, Kothode.



Smt. Reena V.P. member (ward 6, Maruthonkara Grama Panchayat) inaugurated the event by planting of fruit saplings. The programme was attended by KVK and school staff, students and farmers.

Awareness programmes on LiFE was held at Govt College, Mukkeri for students. Fruit plants were also planted at college premise and distributed to students for planting at home. Training on millet value addition was conducted as part of LiFE programme and millet canteen was also made operational at KVK, IISR. Students of BEd College, Chakkittapara were also visited KVK as part of nature walk programme and interacted with KVK Scientists, visited demo units.

Other state and district farmers visited KVK



Progressive farmers from Namakal District, Tamil Nadu and Kannur District, Kerala were visited KVK to learn about Spices cultivation and mushroom cultivation respectively. They also visited KVK demo units like bush pepper unit, Mushroom production unit, aquaponics, apiary, millet cafeteria and other facilities.



ICAR KRISHI VIGYAN KENDRA
LAKSHADWEEP

Incubation in empowering native islanders on Coconut based enterprise in Lakshadweep : An Empirical Proof



Since two years, the UT administration of Lakshadweep has been working on different strategies towards enhancing the public sector enterprises especially the oil extraction units. The government also attempted to outsource these enterprises through an open call at the national level. Many such attempts were made for making the public sector manned units to be effective. Upon realizing that one such attempt was towards establishing incubation centre for the local natives i.e the islanders for operating public sector enterprises. One such endeavor was towards establishing incubation centres and incubating the islanders towards managing unit for production of coconut products. Shri. A. Vikranth Raja, IAS, Managing Director, Lakshadweep Development Corporation Ltd (LDCL) envisaged this idea/institutional innovation/concept to incubate native islanders and empower through the process.

The staff of LDCL discussed with KVK towards this approach. Without any further thought KVK accepted to support through a facilitation role to envisage this approach successful. With several rounds of discussion, the concepts and constructs of incubation and incubate were clarified and modified based on local situation. Dr. P. N. Ananth, Head, KVK provided the first draft of the concept note which lead LDCL to float the public tender. Since then all the Terms

of Reference (TOR) for all phases of the incubation was facilitated by KVK. The official from LDCL who worked closely with KVK was Mr. Aboosalih, P, Factory Coordinator. Hence, the first tender was floated towards selection of incubates for the oil extraction unit at Kadmat, Islands.

The oil extraction unit in Kadmat islands was operated by LDCL since its inception with a production potential of 325 litres of oil/day. Over the years, the unit was found to be under a loss due to several reasons though constraints were inevitable. Hence, this proposal was kept in public. Mr. Sabith a rural youth won the public tender and was selected as the incubate for the centre. Mr. Sabith is a rural youth in Kadmat islands that has coordinated few activities of KVK and also has provided vital information in several occasions for implementing development intervention of KVK specifically in Kadmat islands. He also participated in the Workshop on Policy to Practice towards strategizing coconut development in the islands organized by KVK and ICAR-CPCRI at Kavaratti Islands. Mr. Sabith was trained by LDCL to produce quality coconut oil keeping the quality standards. He took the lessons and he produced 5012 litres of coconut oil within a span of three months. KVK has been providing him support in different ways mainly on facilitation for his work, and connecting with experts. In the process, Mr. Sabith provides a rent of Rs. 5000/month to use the unit, employs labours, pays the electricity charges and others for producing oil. The oil produced by the incubate is handed over to LDCL for marketing. LDCL took the responsibility to market the end product. The attempt of Mr. Sabith has been widely appreciated by the UT administration and the role of KVK was very vital in the initial phase supporting LDCL as well as the incubate in the process. The efforts of Shri. A. Vikranth Raja, IAS, MD, LDCIL and Mr. Aboosalih, Factory Coordinator to design the pro-duction process of oil for Mr. Sabith in terms of providing him all facilities, setting up a dryer and facilitating his payments upon handing over the end product oil to LDCL has won laurels. The expert domain of KVK was clearly harnessed by LDCL, UT administration of Lakshadweep is a significant outcome of this attempt. An attempt was taken by KVK to document this intervention in detail during this period (1-15 June, 2023).

KRISHI VIGYAN KENDRA
MALAPPURAM

**Environment day celebration at KVK
Malappuram**



World Environment Day was celebrated at ICAR-KVK Malappuram on 5th June 2023 with the theme 'Solutions to plastic pollution'. A tree planting programme was organized in the station. Ms. Priya G Nair, Programme coordinator, graced the occasion and highlighted about the importance of celebrating the World Environment Day. A plastic removal drive from KVK premises was also conducted in connection with the Environment day. The stakeholders of KVK from different blocks were participated. As part of the program, saplings of various fruit trees were planted, contributing to the environmental cause. Recipe competition on



healthy life and healthy resources was also organised as part of the event. The program concluded with heartfelt appreciation from the participants, acknowledging the valuable efforts of KVK in implementing impactful programs for the benefit of the environment and farming community.

**ATMA Outside District Training
Programme**

Training on " Precision farming techniques " was conducted for the farmers of Vilayur Krishibhavan, Palakkad district.



The training was organized as part of ATMA outside district training programme. Smt. Priya G Nair, Programme Coordinator, KVK Malappuram inaugurated the programme and Dr. Abdul Hakkim V.M, Professor , KCAET Tavanur, handled the training session. Twenty five farmers attended the training programme. A field visit was arranged at KVK as part of the programme.



ICAR KRISHI VIGYAN KENDRA MANDYA

“Pre Kharif Technical Campign-2023”



ICAR-Krishi Vighan Kendra, V.C. Farm, Mandya in collaboration with Zonal Agricultural Research Station and College of Agriculture, V.C. Farm Mandya organized “Pre Kharif Technical Campign-2023” on 12.06.2023 at Shri Nalvadi Krishnaraja Odeyar Auditorium Hall, College of Agriculture, V.C.Farm, Mandya with an aim to create awareness with respect to technologies available at the University and the seed varieties with respect to different crops of the district.

Dr. Naresh, N.T., Senior Scientist and Head, KVK in his introductory remarks emphasized on techniques to be followed to meet the demand for fulfilling required food grains production. Dr. D. Raghupathi, Associate Director of Extension urged farmers to take up genuine varieties which are tolerant to diseases and follow simple seed treatment in order to avoid loses in further coming days and use of technologies available in the University could help in doubling income of the farmers. Mr. Ashok, V.S., Joint Director of Agriculture, Department of Agriculture, Mandya emphasized on need of water management. Dr.S.S.Prakash, Dean (Agri.) in his presidential remarks highlighted on the aspect, need of the campaign which

helps in better management of crops starting from pre sowing preparation to harvest of the crops and the University technologies can be adopted for better management of crops. Dr. Keshavaiah, Professor, ZARS and Dr. P.S. Fathima, Principal, Diploma College were present during the programme.

The Programme was associated with exhibiting the Seed varieties and other technologies available from the University and detailed information regarding package to be used was exhibited. Total 143 farmers and farm women benefited from the programme.

Dr. Sanathkumar, Professor, AICRP on paddy gave detailed information about the importance and steps to be followed in seed treatment.

Farmer Scientist interaction was also conducted. Dr. Deepak, Breeder, ZARS, AICRP on Small millets, Dr. Mahadevu .P, Breeder, AICRP on Maize, Dr. L. Vijayakumar, Professor, Department of Entomology and Dr. Dinesh., Professor, AICRP on Paddy were interacted with farmer and farmers could get the solutions for the problems with respect to nutrient, weeds, pest and diseases management in paddy, sugarcane, coconut and vegetable crops.



ICAR JSS KRISHI VIGYAN KENDRA MYSURU

Training programme on improved production technologies in Yard Long Bean



ICAR JSS KVK Suttur, Mysuru conducted training programme on improved production technologies in Yard Long Bean at Hulyalu village Hunsuru Taluk. Dr Vinay G M Scientist horticulture explains the new technologies in improving the yield of the crop i.e using high yielding varieties, vegetable special spray, following of INM etc., Dr. Prasad Y P Scientist Plant protection explains the IPDM practices in the FLD in this regard introduced new high yielding variety of YLB i.e Arka Mangala to Farmers and distributed seeds and vegetables special under Front line demonstration programme. Total of 30 farmers were attended the programme and 10 farmers were benefitted by FLD.

Training programme on Scientific pro- duction technologies in Banana

ICAR JSS KVK Suttur, Mysuru with the collaboration of ISHA Nanjundeshawara FPO Handuvinahalli organized training programme



on scientific production technologies in Banana at Devanuru village of Nanjungud Taluk. In this programme Dr Vinay G M scientist horticulture explains the soil sampling methods in the banana orchard, land preparation methods, varietal selection, selection of healthy suckers, suckers treatment, tissue culture plants, integrated nutrient management, drip irrigation, Fertigation, nutrient deficiency and management, suckers management, bunch feeding, cone feeding, integrated pest and disease management etc., in this programme FPO directors and total of 31 farmers benefitted.

Celebration of World Environment Day at ICAR JSS KVK Suttur, Mysuru



World Environment Day 2023 was celebrated on 05-06-2023 at ICAR-JSS KVK, Suttur, under the Joint auspices of KVK, IAT Mysuru Chapter and Rotary Brindavan, Mysuru.



KRISHI VIGYAN KENDRA PALAKKAD

World milk day celebration

KVK Palakkad conducted a one-day capacity development program on "Good rearing practices of Cattle" on world milk day, June 1st, 2023, at Eengora Milk Society of Lakkidi Perur Panchayath of Palakkad district in association with LSGD, MILMA and Animal Husbandry Department. The programme was inaugurated by Smt. Baby Girija, Ward member,



Lakkidi perur panchayat and the training session was handled by Dr. Smijisha A S, Assistant Professor, KVK Palakkad. Around thirty farmers attended the program.

Inauguration of Mini-Irrigation Project at NICRA Village



A pumpset and pipeline was installed at Pattikayal-Pottukulam in Pattithara gramapachayath as a part of National Innovation on Climate Resilient Agriculture (NICRA) under KVK Palakkad.



This project aims to drain out water from 60 acres of submerged fields so that paddy crop can be raised one month earlier in this area and utilize this drained water to bring 25 acres of land that was left fallow for the past 35 years under cultivation. Cultivation of paddy in this additional area can in turn result in increasing water levels of near by ponds and wells. This mini Irrigation Project was inaugurated by the Gramapanchayath president Sri.T P Balan on 3rd June 2023. A training on 'Rain water harvesting' by Dr.Gilsha Bhai, Assistant Professor, KVK Palakkad was also organized as a part of climate resilient and smart agriculture campaign during the programme. Dr. Sumiya K.V (Programme coordinator, KVK Palakkad), Sri. Arun Kumar K.V (Assistant Professor, KVK Palakkad), Smt. Aswathi C (Agricultural Officer, Pattithara Panchayat), Ward members of Pattithara panchayath and farmers of different padasekaram committees participated in the programme.

ICAR KRISHI VIGYAN KENDRA PATHANAMTHITTA

World Environment Day 2023



ICAR-Krishi Vigyan Kendra, Pathanamthitta celebrated the World Environment Day 2023 at St. Behanans Higher Secondary School in Vennikulam on 5th June 2023. The programme was inaugurated by Mr. Vineet Kumar, President, Puramattam Grama Panchayat and was presided over by Dr. Jacob Abraham, Principal St. Behanans Higher Secondary School in Vennikulam. Dr. C.P Robert, Senior Scientist and head of ICAR-KVK, Pathanamthitta delivered the Keynote address. In his address he stressed on the idea to

adopt simple changes in daily life that can combat plastic pollution. As part of the programme seminar on the topic "Climate change and its impact on Agriculture" was also organised. The seminar was lead by Mr. Vinod Mathew, Subject Matter Specialist, ICAR-KVK, Pathanamthitta. On the occasion Rally with a slogan "Beat Plastic Pollution" by the Student Police Cadet (SPC), school scout and guides and tree planting campaign was also organised. Pledge on safe environment duties was taken by all 104 participants. Apart from the above celebration, KVK had already initiated environment friendly activities as part of Mission LIFE, a public movement to mobilize individuals to become " Pro-Planet People". KVK also conducted trainings on the Theme "Climate Smart Agriculture" on 24th and 25th May 2023.



ICAR KRISHI VIGYAN KENDRA
RAICHUR

Bi-Monthly meeting at KVK, Raichur



ICAR-KVK, Raichur in collaboration with Karnataka State Department of Agriculture, Raichur conducted "Bi-Monthly meeting" at ICAR-KVK, Raichur on 14.06.2023 to address department official with different topics related to agriculture. The programme was jointly inaugurated by Smt. Devika, R., Joint Director of Agriculture, Raichur and Dr. M. K. Naik, Director of Extension, UAS, Raichur. In this regard, Dr. Ashok Hugar Associate Director Research, MARS, Raichur, addressed the officials to think about the contingency crop plan meeting for sustainability in changing monsoon patterns. Dr. M. K. Naik, Director of Extension, UAS, Raichur expressed that due to the cyclone effect the monsoon may delay. This threatens in making decisions to choose suitable varieties and new pest disease management. He also discuss to phytophthora blight in Pigeonpea, importance of reduction of footprints of water, fertilizers and increases the footprints of organic carbon, improve in soil-nutrient and water management practices.

The technical session from various scientists included the topics like weather forecasting and advisories, quality seed production, Crop varieties, Integrated Crop Management in Cotton, Pigeonpea, Millets production, Integrated Pest and Disease Management in important crops.



ICAR KRISHI VIGYAN KENDRA
RAMANAGARA

**Capacity building programme on
“Black headed caterpillar infestation
and its control measures in Coconut”**

The ICAR-Krishi Vigyan Kendra Ramanagara conducted a capacity building programme on “Black headed caterpillar infestation and its control measures in Coconut” at Kelagere village of Channapatna taluk on 03-06-2023. Dr. Deepa Pujar, Scientist (Horticulture) briefed about the pest incidence, symptoms of pest infestation and control measures. Black headed caterpillar infestation is a major problem in Coconut gardens of Channapatna and Kankapura taluks of Ramanagara district which is



caused by *Opisina arenosella* organism. Coconut trees of all ages are attacked. Dried up patches of leaflets, galleries of silk and frass on underside of leaflets and in severe cases whole plantation looks like burnt appearance are the symptoms of infestation. As a prophylactic measures initially affected leaves should be cut and burnt during early summer as severity of pest infestation increases with summer. Biological method of controlling pest is also effective and need to be addressed at community level for effective management of pest. Among various natural enemies Bethylid, *Goniozus* and *Brachymeria*

are most effective in controlling the pest. About 15-20 *Goniozus nephantidis* parasitoids should be released per each affected palm at monthly interval (minimum 4 times). State department of Horticulture, Government of Karnataka is also helping coconut farmers by distributing *Goniozus* and *brachymeria* parasitoids at free of cost wherever affected gardens are there. To address this issue ICAR-KVK, Ramanagara conducted method demonstration to release *goniozus* parasitoids in affected farms of coconut. Meanwhile other major pest and disease of coconut were also addressed and method demonstrations were conducted on bordeaux mixture preparation and its application for stem bleeding affected palm, installation of rhino trap for control of rhinoceros beetle. Miss. Shanta Balagond., SMS, DAMU created awareness on importance of agro-advisories for mitigating crop losses and ensuring timely agricultural practices. Dr. Lata R. Kulkarni, Senior scientist and head briefed about soil sampling and its uses and also demonstrated soil sampling technique. More than 35 Coconut growers from Channapatna taluk participated in the programme.



ICAR KRISHI VIGYAN KENDRA SHIVAMOGGA

Importance of soil testing and their methods

ICAR, KVK, Shivamogga conducted a capacity building programme on importance soil testing and their methods was conducted at Chikkajoghalli village Shikaripura on 1-06-2023. In this programme Dr. Anjali, M. C., Scientist (Soil Science), enlightened the farmers about importance of soil in sustainable agriculture production, uses of soil testing, method of soil sampling, integrated nutrient management, reclamation of problematic soils, nutrient deficiency symptoms and their management, soil test based fertilizer recommendation, Interpretation of soil test results.



Smt. Manjula (President) grama panchayithi, churchigundi, Mr. Suryakanth, S. M., (President) Shri sangameshawara raitha uthpadakara saha-kara sangha, B. Basavaraju (Vice- president) Shri sangameshawara raitha uthpadakara sahakara sangha and G. Maheshwrappa (Director) Shri sangameshawara raitha uthpadakara sahakara sangha were present in the programme. Totally 35 farmers were benefitted from the programme.

Problematic soils and their management

ICAR, KVK, Shivamogga conducted a capacity building programme on Problematic soils and their Management was conducted at Begur village Shikaripura on 5-06-2023. In this



programme Dr. Anjali, M. C., Scientist (Soil Science), delivered a lecture on importance of soil testing, types of problematic soils, characteristics of problematic soils, way to identify the problem soil by visual observation, problems associated with problematic soil with respect to plant growth, major nutrient deficiencies identified in problematic soils, factors responsible for development of problematic soil and reclamation measures for problematic soil for getting benefited yield- 1. Reclamation of Acid soil by application of Lime, method of application and quantity of lime required and what is the effect of excess application lime. 2. Reclamation of saline soil – by leaching of soil by good quality water and with proper drainage 3. Reclamation of sodic soil by gypsum application followed by leaching.

Dr. Basavaraja, M., Scientist (Agronomy) briefed about rice varieties suitable for problematic soils. Select a right variety of rice in problem soil and application fertilizers as per soil test results. Calculation of quantity of fertilizers to be apply for supplying required nutrients and also given the information about SRI method of paddy cultivation and direct seeded rice cultivation.

Dr. Sahana, S., Scientist (Agriculture extension) briefed about the importance of maintaining soil health to achieve sustainable production. Role of environment in doubling farmer income. Maintain the biodiversity for reducing cost of cultivation. Practice the climate smart agriculture. Totally 40 farmers were benefitted from the programme.

KRISHI VIGYAN KENDRA
THRISSUR

' Beat plastic pollution '
Celebration of world environment day



In commemoration of world environment day, KVK Thrissur organized awareness programme on June 5th, 2023 at Don Bosco High School, Mannuthy with the theme "Beat plastic pollution" which aligns with one of the seven themes of Mission LiFE, "Saying No to Single-use Plastics". A special keynote address was delivered by Dr. Mary Regina F. to about 1500 students of the school with emphasis on the necessity of reducing, reusing and recycling plastic for protecting the environment. Pledge for LiFE was taken by all teachers, students and KVK scientists. A recitation and speech on the relevance of protection of nature were presented by students. Tree saplings and vegetable seeds were distribut-



ed to the Principal and students of the school. A Spanish Cherry tree was planted in the courtyard of the school in remembrance of the day, thus providing a platform for the students to create a positive impact on the environment. KVK Thrissur also conducted awareness programme on the same day in an old age home "Home of Love" at Mannuthy. Tree saplings and seeds were given to the inmates inspiring them to involve more in activities related to nature, thereby improving their psycho-social attitude and physical well-being.



ICAR KRISHI VIGYAN KENDRA
THIRUVANANTHAPURAM

**Week Long Environmental Day
Celebrations at ICAR KVK Mitraniketan,
Thiruvananthapuram**



2023 World Environment Day was a reminder to the public on actions which need to be taken in fast mode on plastic pollution to protect our environment. Variety of programmes were organized as part of week long celebration, which commenced at KVK campus on 22 May 2023 by planting an all season mango by Dr. Binu John Sam (Senior Scientist and Head, ICAR KVK-Mitraniketan). An awareness was created to all the participants who attended the programme by delivering a message by addressing solutions to plastic pollution by SS & H. Campaign on Soil Health Management and need of soil testing in the field of agriculture to maintain a healthy soil was organized. Method of soil sampling was demonstrated in KVK campus and Malayinkeezhu Panchayat. Micro irrigation works taken up in Thiruvananthapuram district were presented before extension personals of various departments in the meeting held at collectors chamber by Engg. Chithra G (SMS Agricultural Engineer). Field visits and group Discussion/Interaction to create awareness on efficient use of fertilizers and Integrated Nutrient Management with farmers and panchayat officials was also arranged in connection with introduction of importance of climate smart agriculture crops. Field visit was arranged to demonstrate Integrated Nutrient Management in coconut palms at two different places

in Aryanad Panchayat of Thiruvananthapuram district. Efforts were taken to protect the perennial crop by using Kalpavardhini nutrient mixture in order to reduce button shedding and to increase the production per unit area after application of dolomite and fertilizer application. Target group for different programmes includes farmers, students, KVK staff, Extension personnels and other public representatives. Entrepreneurs of ICAR KVK Thiruvananthapuram participated in exhibition arranged by "Ente Keralam", Govt. of Kerala at Kannakakkunnu for one week by displaying various farm products giving special importance to millet based products for a healthy lifestyle. It was an eye opening to all who visited the stalls.

To avoid soil and water erosion in slopy areas, importance of water harvesting pits was demonstrated. For demonstrating the method to minimize water usage for agriculture purpose, installation of drip Irrigation were carried out at Kandla and Thoongampara of Thiruvananthapuram district. The installation was done by the ASCI MIT trainees who initiated a start up company named "Drip Drops" with the technical support of KVK. Installation of a model vermicompost unit using cement ring was established at KVK campus for the benefit of farming community to promote organic farming. The main focus was given for similar cheap model compost unit to replicate production of organic inputs at site by the use of biodegradable products and thereby restricting the plastic use. A lecture was delivered on Soil Health management using biodegradable waste at KVK campus. Film Show and Method Demonstration of collection of biodegradable waste, watering, collecting vermicompost from tank and sieving.

The closing function of environmental Day celebration was arranged in KVK campus on June 5 2023 by planting a Vietnam early Jack by Dr. Binu John Sam (Senior Scientist and Head, ICAR KVK Mitraniketan). An awareness was created to all who attended the programme by taking a pledge for protecting the environment by each participants headed by SS&H. This year celebration of World Environmental Day reminded all the participants to be kind with nature by protecting and managing the environment with special emphasis on avoiding plastic pollution.

ICAR KRISHI VIGYAN KENDRA
TUMKUR - I

Pre Kharif Campaign- 2023



ICAR – Krishi Vigyan Kendra, Tumkur – I organized district level Pre kharif Campaign- 2023 at Agricultural Research Station, Kunigal in association with Agricultural Research Station, Kunigal & Tiptur, department of Agriculture, Kunigal, Sri Kshetra Dharmastala Rural Development programme, Kunigal and I.D.F., Kunigal. Dr. M. S. Uma, Asst. Director of Research, Inaugurated the programme and address the farmers regarding the celebration of Pre kharif campaign and its moto.

Mr. Kempegowda, Project director, IDF, Kunigal delivered the guest lecture on sustainable organic farming and explained the principles and ways to practice organic farming sustainably in farmers field.

Dr. Basavaraju, Asst. Seed production officer, NSP. GKVK, Bangalore delivered the guest lecture on suitable varieties for monsoon season and explained the different improved seed varieties & its spwcfic characters which are available in NSP, Bangalore.

Dr. Yogeesh, T. S., Farm superintendent, Agricultural Research Station, Tiptur, delivered the guest lecture on agricultural practices to be followed during pre kharif and kharif and advised to go for double cropping system instead of taking of taking solo crop.

Dr. Sreenivas, K. R., Farm superintendent, Agricultural Research Station, Kunigal,

delivered the guest lecture on Integrated disease and pest management in agricultural crops and also informed farmers regarding agricultural inputs available in ARS station for monsoon.

Dr. Noor Ajam, Assistant director of Agriculture, Kunigal address the audience regarding benefits available for farming community from Raitha Samparka Kendra and explained the ongoing flagship programmes available under RSKs.

Dr. V. Govinda Gowda, Senior Scientist & Head, ICAR Krishi Vigyan Kendra, Tumkur-I explained the importance of organizing pre kharif campaign and enlist the benefits available from KVK for farming community and mentioned the activities to be taken up during the occasion of International Millets Day 2023.

On this occastion organized sales of improved varieties of seeds, biofertilizres, nursery seedlings, pesticides and insecticides for farmers use and esibited different farm equipments, display material regarding innovative and sustainable farming technologies to enrich farmers awareness. On this time farmer- scientist interaction session was conducted the provided the solution for farmers quieries. Totally 257 farmers were participated and benefited Dr. Sreenivas, K. R., Farm superintendent, Agricultural Research Station, Kunigal, welcomed the gathering, Dr. Yogeesh, T. S., Farm superintendent, Agricultural Research Station, Tiptur, delivered the vote of thanks and the programme was hosted by Mr. Darshan, M. E Scientist (Agril. Extension), ICAR Krishi Vigyan Kendra, Tumkur-I



ICAR KRISHI VIGYAN KENDRA
TUMAKURU II

Field Experience Training (FET) for
FOCARS Scientists



FOCARS (Foundation Course for Agricultural Research Services) Training Batch of recently recruited scientists from ICAR-NAARM, Hyderabad are placed at ICAR-KVK, Hirehalli, Tumakuru during 29th May to 16th June, 2023. As part of their Field Experience Training (FET), they conducted a village seminar on 9th June 2023 in presence of Dr.Loganandhan,N., Head, and Prasanth JM SMS Horticulture at Katenahalli village of Tumakuru Taluk.

The institute seminar was conducted on 12th June 2023 in presence of Dr.Loganandhan, Head, KVK, Dr.Yashawanth B.S., FET Monitoring Faculty and K.N.Jagadish Agril.Extension FET Coordinator along with KVK Staff. The focus of the seminars was on understanding the rural livelihood system by applying PRA (Participatory Rural Appraisal) tools, during the survey conducted in the village Katenahalli.

During the survey period, the scientist collected valuable data pertaining to various aspects of the village life. The primary aim of their research was to identify researchable problems within the

community. By utilizing the PRA tools, they were able to gain insights into the needs, challenges, and opportunities present in the village.

Overall, the village seminar and institute seminar served as a platform for the scientists to share their findings, methodologies, and proposed action plan with their peers and mentors. The seminar not only showcased their research capabilities but also demonstrated their ability to apply PRA tools in a real-world context, contributing to the overall knowledge and understanding of the village Katenahalli and its associated challenges.



ICAR KRISHI VIGYAN KENDRA
UDUPI

Awareness program on “Rain water Harvesting – Catch the Rain”



Indian Council of Agricultural Research – Krishi Vigyana Kendra, Brahmavara, Udupi District and National Service Scheme (NSS) of Saint Mary’s Syrian College, Brahmavara, jointly organized awareness programme on “Rainwater Harvesting – Catch the Rain” on 01.06.2023 at Mini Hall, S.M.S College, Brahmavara. The principal of the College presided over the function. Resource person on rain water harvesting, Mr. Joseph G. M. Rebello elaborated on various ways of harvesting, storing and conserving rain water. Dr. Dhananjaya B., Senior Scientist and Head, Krishi Vigyana Kendra, Brahmavara; Mr. Raghuram Shetty, Coordinator of NSS unit, S.M.S. College Brahmavara and Mrs. Mamatha Ammanna were present during the event.



Celebration of World Environmental Day

Keladi Shivappa Nayaka University of Agriculture and Horticultural Sciences, Iruvakk, Shivamogga; Indian Council of

Agricultural Research – Krishi Vigyana Kendra, Brahmavara, Udupi District, Students Council; Youth Red Cross; Rovers and Rangers and National Service Scheme (NSS) of Saint Mary’s Syrian College, Orthodox Syrian Catholic Educational Society, Brahmavara jointly organized celebration of “World Environment Day” on 05.06.2023 at S.M.S. College campus, Brahmavara. The ceremony was inaugurated by Dr. Dhananjaya B., Senior Scientist and Head, Krishi Vigyana Kendra Brahmavara. In his inaugural address Dr. Dhananjaya B discussed on various environmental issues, particularly plastic pollution and its ill effects on environment and health. The chief guest of the ceremony Mr. Harish Deputy Range Forest Officer, Brahmavara range emphasized on planting tree and taking care of them in order to protect environment. Dr. Raviraj Shetty and Dr. Sadananda Acharya, Scientists from KVK, Brahmavara spoke on role of students and citizens in protecting environment. Students were given pledge to



safeguard environment and bring about behavioral changes towards protecting environment. The Principal of the College, Dr. Mamatha Udupa presided over the ceremony. Later saplings of various varieties of mango were planted around the college campus with the help of NSS students.

**KRISHI VIGYAN KENDRA
UTTARA KANNADA**

**Honorary Doctorate to Padma Shri awardee Smt. Tulsi Gowda :
The proud tribal women of Uttara Kannada**



Tulsi Gowda from the Halakki tribal family of Honnali village in Ankola taluk of Uttara kannada district, Karnataka has been conferred with honorary doctorate degree during 36th Convocation of UAS Dharwad on 12.06.2023 in recognition of her immense contributions towards preserving the environment. Honorable Governor of Karnataka and Chancellor of the Agricultural University, Shri Thavar Chand Gehlot awarded the Doctor of Science to Tulasi Gowda.

Known among people as the "Encyclopedia of the Forest" and referred to by her tribe as the "tree goddess," Tulsi Gowda possesses an extraordinary knowledge of forests and their diverse flora. She has tirelessly planted over 30,000 saplings and oversees the nurseries of the Forest Department, displaying her commitment to environmental conservation. Her commendable efforts have earned her accolades from the Government of India and various other organizations. In 2021, she was honoured with the prestigious Padma Shri, India's fourth highest civilian award.

The fruitful time witnessed the interaction of Dr. Tulsi Gouda with Dr. Himanshu Pathak, Secretary DARE and Director General, ICAR New Delhi along with Dr. V. Venkatasubramanian, Director, ATARI, Zone XI, Bengaluru and Dr. P. L. Patil, Vice Chancellor of UAS, Dharwad. The team KVK Uttara Kannada whole heartedly congratulate Dr. Tulsi Gowda for her remarkable service in environmental conservation.



ICAR KRISHI VIGYAN KENDRA VIJAYAPURA - I

World Environment Day



On the eve of World Environmental Day, The ICAR- KVK Vijayapur has organized mango plantation in the KVK campus premises. The chief guest Dr R. B. Belli, inaugurated the celebration by planting the mango sapling. He also addressed the gathering by highlighting the importance of Environment and their role in Agriculture and healthy life in present days. He also requested to all gathered staff and students to maintain plastic free environment in the campus. In this event, final year B.Sc. (Agri) Hons. Students from College of Agriculture, Vijayapur and all Scientists and staff of KVK were planted many saplings in the KVK premises.



World Insect Day

All the staff of ICAR- KVK Vijayapur has celebrated World Insect or Pest Awareness Day on 06.06.2023. The chief guest Aravind Kaulagi, DAESI facilitator inaugurated the celebration and addressed the gathered function and highlighted the importance of insect and pests in the present agriculture. He also emphasizes the importance of different



beneficial and harmful insects. Dr. Prakash H.T, Scientist (Entomology) briefed the importance of Insect day/Pest awareness celebration to all participated DAESI students. Finally Dr. Sangeetha Jadhav Scientist (Animal Science) extended the vote of thanks to all participants. In this function, Dr. Shilpa Chogatapur, Dr. Shweta Mannikeri, Mr. Mallappa B, Mr. Shrishail rathod were participated.



ICAR KRISHI VIGYAN KENDRA VIJAYAPURA-II

Celebration of world environment day



The world environment day celebrated at ICAR-KVK Vijayapura-II (Indi) on 05.06.2023. In this event Sri. Lakshmesh Sheshadri, Chief Officer, Town Municipal Corporation, Indi inaugurated the world environment day by planting sapling and watering to it. On this occasion he urged that every year world environment day is celebrated on June 5th to bring awareness among public about protection of environment. Dr. Shivashenkaramurthy M. Senior Scientist and Head, KVK, Vijayapura-II (Indi) on this occasion in his presidential address told that this year theme of world environment day theme is "Beat Plastic Pollution". In Africa planting of trees is taking place to build green wall of trees to save the earth. World Environment Day 2023 was hosted by Côte d'Ivoire in partnership with the Netherlands. Côte d'Ivoire (West African country) is showing leadership in the campaign against plastic pollution. Dr. Savita B. Scientist (Soil Science), KVK, Vijayapura-II (Indi) suggested to use eco friendly plates such as Banana, Coconut leaf plates and requested to avoid using of plastic bottles and plates and it is social responsibility to save our environment. The seedling of various plants such as clustered apple, Jamun

and sapota distributed to farming community. In this event, Dr. Santosh Shinde, Scientist (Animal Science) and Dr. Veena Chandavari, Scientist (Home Science) were present on this occasion.



Pledge of anti child labour at KVK, Vijayapura-II (Indi)

On 12.06.2023 anti child labour day oath read by Dr. Shivashenkaramurthy M., Senior Scientist and Head, the same is repeated by all staff members of KVK Indi in KVK Indi premises. In this oath event around 10 members participated.



ICAR KRISHI VIGYAN KENDRA WAYANAD

Training on Cocoa cultivation by Directorate of Cocoa and Cashew



One day seminar was organized on 5th day of Campaign on Mission Life Style for Environment (LiFE) 2023 in collaboration with Directorate of Cocoa and Cashew, Kochi at KVK Training hall, Ambalavayal. The title of the workshop was “The role of technology in enhancing climate smart agriculture in cocoa cultivation”. Dr. Arularasan, SMS, KVK Wayanad, welcomed the gathering. Presidential address was given by Dr. Safia N.E, Senior Scientist and Head, KVK Wayanad. Class on “Safe and good agricultural practices” in Cocoa was dealt by Sri. Subramanian S, Retd. Asst. A.O. and “Value addition of cocoa” by an entrepreneur Sri. Yousof M.P, Hilwa Bean to bar chocolate, Wayanad.

A total of 60 participants registered for the training and took active participation in discussion.

Training on Marigold cultivation

One day training on “Marigold cultivation- One basket flower for Onam festival” was organized by KVK Wayanad at Kunnamangalam and Mukkam block in association with Department of Agriculture and Farmers Welfare. Smt. Roopa, ADA ,Kunnamangalam block welcomed the gathering. Presidential address was given by Dr. Safia N.E, Senior Scientist and Head, KVK Wayanad. The classes were dealt by Smt. Ashitha M.R, Subject Matter Specialist, KVK Wayanad. A total of 30 participants each took active participation in the training.



ICAR KRISHI VIGYAN KENDRA
YADGIR

World Environment Day – 2023



ICAR - Krishi Vigyan Kendra, Yadgir (Kawadimatti) has organized World Environment Day at Kampapur village of Surapur taluk. The programme was organized in collaboration with Department of Agriculture, Surapur and Gram Panchayat, Devapur. The programme was inaugurated by Dr. Kotresh Prasad, Scientist and he addressed about importance of environment for sustainable life and environmental conservation. He also

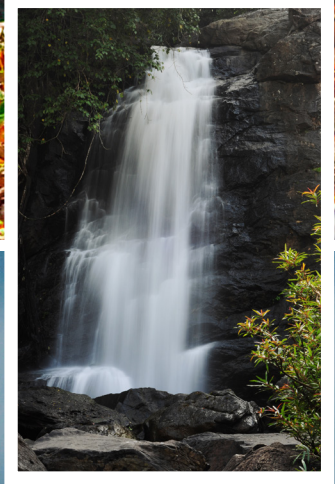
mentioned about effects of climate change and efficient utilization of natural resources without harming the environment. Mr. Gurunath, ADA, Department of Agriculture explained about different schemes available for the farmers and seeds availability status in the taluk. He mentioned that the area is under water shed project and gave a call for "Koti Vruksha Abhiyan". More than 250 plants were planted on the occasion with the support of MNAREGA and school children.





Honouring Padmasree Cheruvayal Raman at KVK Wayanad





places to visit in **WAYANAD**

- En Ooru Heritage village
- Kuruva islands
- Banasura Sagar Dam
- Pookot lake
- Thirunelli temple
- Lakkidi view point
- Chembra heart lake
- Edakkal Caves
- Soochippara waterfalls
- Muthanga wildlife sanctuary



The team KVK WAYANAD



KVK TIMES

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

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