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KVK TIMES

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









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FOREWORD

It is my immense pleasure to thank Dr. V.Venkatasubramaian, the Director, ICAR-ATARI, Bengaluru for his overwhelming support, inspiration and encouragement to serve the farming community and for his valuable guidance in bringing out this edition of KVK Times.

Krishi Vigyan Kendras(KVKs) work as knowledge and Resource Centre on agricultural technologies for supporting initiatives of public, private and voluntary sectors in improving the agricultural economy of the respective district. Since, KVKs has jurisdiction within a district, they are playing a pivotal role in agricultural technology transfer and contribute towards increasing productivity and income of the farming community. KVKs are model for adaptive research , and they co-ordinate to diagnose and solve field problems from time to time within the district agro-ecosystems. KVKs attempt to increase the net returns of farmers and also augment self-employment opportunities among farming communities in agriculture and allied enterprises. Need based training for farmers to update their knowledge and impart skills to understood and handle emerging agricultural technologies, secondary agriculture, animal husbandry and other allied sectors improving the agricultural economy of the district. KVKs are primary centre for implementing aimed at suitable interventions based on the needs of the farming community in agriculture and allied fields. ICAR- ATARI Bengaluru has provided a platform to facilitate the dissemination of such valuable wealth of knowledge through publications. The best instance is the recently launched fortnight e-Publication “KVK TIMES”. The initiative of ATARI Zone XI to showcase the prominent activities undertaken by 48 KVKs of the Zone which is a commendable task. Besides documentation this effort will result in boosting the morale of the KVK staff as well as increase the exposure and cross learning among KVKs. It connects farmers and KVK staff. This newsletter brought out during First fortnight of May 2023 prepared by KVK Vijayapura-I. It gives an excellent overview of the diverse interventions of Zone XI. I take this opportunity to express my appreciation of the combined effort of ATARI, Bengaluru, Directorate of Extension, UAS,Dharwad and the staff of KVK, Vijayapura-I for bringing out this fortnightly publication of“KVK TIMES”.

Through this KVK Times, we proudly unfold, the salient interventions and technology backstopping of all Krishi Vigyan Kendras of Zone XI that serves the farmers to lead a better life. Let us believe that, together we can make this decade a ‘DECADE OF HOPE’. For all stakeholders in agriculture and allied fields.

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FOREWORD

Totally financed by Govt. of India, Krishi Vigyan Kendras have been functioning as Knowledge and Resource Centre of agricultural technology initiatives of public, private and voluntary sector for improving the agricultural economy and livelihood security of the district. Since its inception in 1974 the number of KVKs has risen to 731, falling under one of the 11 Agricultural Technology Application Research Institutes (ATARIs) throughout India. They are aimed at assessing location specific technology modules in agriculture and allied enterprises through technology assessment, refinement, demonstrations and training. In addition, KVKs produce quality inputs (seed, planting material, bio-agents and livestock) and make it available to farmers, organize frontline extension activities, identify and document selected farm innovations and coverage with ongoing schemes and programs within the mandate of KVKs. Being the only institution at the district level for technological backstopping in agriculture and allied sectors. KVKs are envisaged to reduce the time lag between generation of technology and its application for increasing production, productivity and net farm income on a sustained basis, thus acting as a crucial lynchpin in fulfilling the target of doubling farmer's income.

Towards this end the efforts of ATARI, Bangaluru which regularly brings out a newsletter entitled "KVK TIMES" highlighting the myriad activities KVKs coming under the jurisdiction of Zone XI is laudable. I congratulate Dr. G. S. Yadahalli, Sr. Scientist and Head, KVk, Vijayapura-I and his team for presenting comprehensive activities of KVK Vijayapura-I

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Dr. V. Venkatasubramanian
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FOREWORD

Krishi Vigyan Kendras are innovative first line science based front line extension system for application of technologies. KVKs play an important role in adaptation of technologies from the research system to farmer's field. KVKs aim to bring transformation in farm families through technological intervention and planning strategies for sustainable agriculture.

However, for meeting the new challenges, it is important to focus on conservation of natural recourses, achieving higher productivity, keeping sustainability of agriculture, enhancing farmer's income through linking to market and strengthening the value chain management.

KVKs are serving as scientific knowledge centers which are useful to entire district. There are 48 KVKs working under Zone-XI covering Karnataka, Kerala and Lakshadweep. Cross learning among them will help to understand and appreciate the strengths of each others. Documenting this cross learning is very much valuable and will act as a platform for sharing of knowledge among KVKs and stake holders.

"KVK TIMES" is afortnightly, first of its kind of virtual platform created by KVK in Zone- XI to highlight the good work done by each one of them.

It also serves as ready reckoner for accessing important milestones achieved by KVKs in the Zone-III congratulate Dr.G.S.Yadahalli, Senior Scientist and Head, ICAR- KVK Vijayapura-I and team which has done commendable job in bringing out this 45th issue of "KVK TIMES" for capturing the important events.

Bengaluru
29th May 2023

Dr.V.Venkatasubramanian
Director, ATARI Bengaluru

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ACKNOWLEDGEMENT

I profusely thank ATARI, Bengaluru for giving us the unique opportunity to compile and edit the 45th issue of KVK Times.

I feel privileged and proud to acknowledge the constant support and encouragement given to us by our Honorable Vice Chancellor. Dr. P. L. Patil, in executing our service to farming community.

I whole heartedly thank Dr. V. Venkatasubramanian, Director, ICAR-ATARI, Bengaluru for his constant inspiration, encouragement to serve the farming community and valuable guidance in bringing out this edition of "KVK Times".

I pay my deep sense of gratitude to our beloved Director of Extension Dr. A.S.Vastrad, Associate Director of Extension Dr.R.B.Belli and Nodal Officer Dr. Shripad H. Kulkarni for their timely guidance and inspiration to carry out the various activities successfully.

I also extend my heartfelt thanks to Dr. D.V.Kolekar, Principal Scientist (Agriculture Extension), Nodal officer ICAR-ATARI, Bengaluru for their constant support and guidance.

I sincerely acknowledge the whole Zone-XI KVK family members for sharing their achievements in time to bring out this news letter.

I whole heartedly thank my ICAR-KVK, Vijayapura-I team for their involvement in bringing out this issue effectively.

Dr.G.S.Yadahalli
Senior Scientist & Head
ICAR,KVK, Vijayapura-I

Foundation stone laying and inauguration of farmers hostel of KVK Vijayapura-I and Vijayapura-II (Indi) on 22.02.2023 by Hon'ble Minister of Agriculture of State, Minister of Agriculture and Farmer welfare, Government of India Ku. Shobha Karandlaje













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ICAR- KVK Alappuzha

Turmeric processing unit inaugurated

The turmeric processing unit, initiated as part of the 'Value chain in Turmeric' project implemented by ICAR-KVK-Alappuzha in 10 panchayaths of Mavelikkara and Chengannur blocks of Alappuzha district with funding from NABARD, was inaugurated by Shri. K. Krishnankutty, Hon. Minister for Electricity, Govt. of Kerala in the 'Karshaka Sabha' (Farmers' meet) organized at Chettikulangara on 9th May, 2023. The minister in his address invocated the farmers to increase the production of crops by adopting scientific and innovative practices such as precision farming, micro irrigation etc. so as enhance the net income from Agriculture. The meeting was presided by Adv. U. Prathibha,MLA, Kayamkulam which was attended by about 150 farmers, many of them being the partner farmers of the project. Dr. P. Muralidharan, Principal Scientist and Head, KVK briefed project activities and achievements made in the last three years. Mr. Jacob Oommen, Secretary, Onattukara development society, Sri. A. Maheendran, Chairman, Alappuzha spinning Mill, Mr. K. G. Santhosh, Member, Alappuzha district panchayat, Smt. Anjana. S, Agricultural Officer also attended and addressed the farmers on the occasion. In the seminar followed, Sri. M. S. Rajeev, Smt. G. Lekha, Subject Matter Specialists of the KVK deliberated on 'Turmeric as an economic intercrop in the Coconut Based IFS' for the region which was well appreciated by the farmers attended.





Harvesting the sweetness through meliponiculture

Realizing the scope of scientific meliponiculture due to the medicinal property, high demand, and price of stingless bee honey, a demonstration programme on 'Scientific meliponiculture as additional source of income for rural youth in eastern Alappuzha districts' was conducted by the KVK in the collaboration of Grama Panchayath, Krishi Bhavan and Horti-Corpwith ten women farmers as partners during 2021-23. The partners were provided stingless bee hives and necessary tools to start the enterprise with trainings on various topics related to stingless bee keeping. Regular field visits and 24x7 online support also was provided. In the second year, empty hives and stands were provided with the intention to expand the number of colonies by proper colony division. After two years of the demonstration, the stingless bee colony number has increased from 2 to 21 in the demonstration area. The honey production in demonstration ranged from 150-750 g per hive. Around five kilograms of honey have been produced as a result of demonstration in that area. Farmers were equipped to identify and transfer feral colonies to new improved hives for better management. Partners evaluated the technology as women friendly, simple and eco-friendly. A group of master trainers were also developed as an outcome of this demonstration. Field day of the demonstration was held on 4.5.2023 at Mulakkuzha in presence of Mrs. Bindhu M. B, member, Grama Panchayath, Mrs. Kavitha S, Agrl. Officer, partners, farmers, and KVK officials. Dr. P. Anithakumari,

Acting Head, ICAR-CPCRI (RS), Kayamkulam delivered keynote address. Farmer partners shared their experience on stingless bee keeping and urged for upscaling of the technology throughout the Panchayath.





ICAR- KVK Bagalkot

Visit to RSK – Sambrani :



Dr. D. N. Kambrekar, Senior Scientist and Head, KVK Bagalkote visited RSK - Sambrani on 02.05.2023. He discussed with the staff of RSK regarding major problems faced by farmers under the RSK. He also gave IPM practices for the management of fall army worm in Maize and distributed the technical folder on Fall Army Worm management.

ICAR- KVK Ballari

Director of Extension, UAS,Raichur visits Millet entrepreneurs

Dr. M.K. Naik, Director of Extension along with the Scientists of ICAR-KVK,Ballari made a visit to the organic shops of millet entrepreneurs on 06-05-2023,where in KVK trained farmers are collectively selling the organic millets, organic sugar cane juice, refined oils and other grains at retail shop named ‘Natures millets’ in the premises of State Agriculture Department, Ballari. Leader of these millet growing farmers Havinalu Sri. Sidramappahas a 12 acre of farm land with deep sandy soil and a TB high level channel irrigation system for his farming operations. He has been cultivating nutri-millet cultivars such as Foxtail millet (HN-46), Proso-millet, and Barnyard millet for the last four years. He owns a processing unit for cleaning and dehusking the millets. Packed millets products are being sold with the brand name "Natures millets" by the farmer though his organic retail shop. Additionally, the millet entrepreneurs participated in an interactive session with the Director of Extension, who offered suggestions for improvement.





ICAR- KVK Belgavi-I

National Workshop on Export Linked Goat Husbandry Practices in India: Opportunities and Challenges. (CIRG-Mathura)

Dr. Suraj Koujalagi, Scientist (Animal Science) of ICAR-BIRDS KVK (Belagavi-1) attended National Workshop on Export Linked Goat Husbandry Practices in India: Opportunities and Challenges at Central Institute of Research on Goat, Makhdoom (Mathura) on May 4th & 5th of 2023 and delivered presentation on "Goat Farming in Karnataka: Opportunities and Challenges".Topics of discussion were, natural goat farming, marketing, public private partnership, role of extension institutes, livestock products technologies, AI in goats, feed formulations, ITKs & economics of goat farming. The guest of honour were, Dr. B. N. Tripathi (Hon'ble DDG [Animal Science] ICAR), Dr. S.P. Kimothi (Hon'ble Member ASRB), Dr. V.K.Vidyarthi (Hon'ble GM, APEDA), Director (ICAR-CIRG), Director (ICAR-CSWRI), Director (ICAR-NRCC), Director (ICAR-NRCM), Director (ICAR-CAFRI), Director (ICAR-IGFRI) & Hon'ble Vice Chancellor -DUVASU.





ICAR- KVK Belgavi-II

1. Field Day on Sugarcane + Soybean (1:2) intercropping system

Field Day was organized on Sugarcane + Soybean (1:2) intercropping system at Ingalagi village of Savadatti taluk. KVK has conducted FLD programme on intercropping system in Sugarcane with introduction of soybean new variety Dsb-34 during summer season. G. B. Vishwanath, Scientist (Agronomy) explained about criteria for selection of crop, advantages like soil health, efficient utilization of resources viz., land, labour, water, light etc.. in intercropping system. He also briefed about equivalent yield advantage and monetary benefits to the farmers.





2. Field Day on Okra hybrid-ARKA NIKITA

Field day on high yielding Okra hybrid-ARKA NIKITA was organised by ICAR-KLE KVK, Mattikopp at Mallappa Bhovi's field, Ingalagi village of Savadatti taluk. The purpose was to demonstrate the productivity potentials and profitability of the hybrid under real farm situations. Scientist (Agronomy) welcomed the farmers and briefed on the KVK activities to farming community, Scientist (Horticulture) explained the improved cultivation practice followed in okra cultivation along with use of Arka Vegetable Special a micronutrient mixture which corrects the deficiency and increased the yield. Farmer shared his experience in cultivating Arka Nikita hybrid compared to existing hybrids in market which is high yielding and fetching good market demand.





3. On campus training programme to students on Public Health Management

One day on campus training programme was organised to the students on Public Health Management, JNMC, Belagavi on Recent advance in Agriculture & Horticulture. Praveen Yadahalli, Scientist (Horticulture) briefed on the activities of KVK and explained the Biofortified varieties of field and horticulture crops and importance of Millets for health, S, M warad, Scientist (Soil Science) explained the soil health management practices and importance of soil test in production of quality food, Dr. S. S Hiremath, Scientist (Plant protection) explained the role of bio-fertilisers and bio-pesticides in crop production, students visited seed processing unit and KVK instructional farm. Later, drone technology demonstration was also organised.





ICAR-KVK Bengaluru Rural

Organized two field visits to DAESI 8th Batch

ICAR – KrishiVigyan Kendra, Bengaluru Rural District organized field visits to the DAESI students of 8th Batch on 11.05.2023 to National Seed Project (NSP), University of Agricultural Sciences (UAS-B), GKVK, Bengaluru. Dr. Nagaraj, Seed production Specialist, NSP, GKVK, Bengaluru was explained about the seed production process, processing stages, preservation techniques, certification procedures and other related issues about seed production.

Further, the DAESI students visited to Agro Meteorological Weather Station, UAS-B, GKVK, Bengaluru. Dr.Nagesh, Technical Officer, Dept. of Agricultural Meteorology, UAS, GKVK, Bengaluru explained about the various equipment installed, their operation and usefulness with respect to weather forecasting. Totally, 39 participants were benefitted from the field visit session. Mr. Obaleshappa, Facilitator, DAESI 8th Batch, ICAR – Krishi Vigyan Kendra, Bengaluru Rural District coordinated the field visit.





ICAR-KVK Bidar

A MASON TURNED TO– PROGRESSIVE GOAT FARMER

Goat rearing under intensive and semi-intensive system is having good economic prospects. The commercial intensive Goat rearing is very much popular in recent years. Many farmers are getting good returns from goat and its products. Many progressive farmers, businessmen, professionals, ex-servicemen and educated youths to take up the goat enterprise on a commercial scale. Mr Navanth Raghunath Mangalure basically a mason labor hales from Narayanpur village of Bidar district Karnataka. He has attended a capacity building programme on Commercial Goat Farming organized by ICAR Krishi Vigyan Kendra, Bidar for 3 days in the year 2000 which included the lectures on scientific housing, feeding, breeding, health care management so also marketing of the goats and one day exposure visit to Sri Vinod Muthanna's Muttanna Farm of Sindabandagi village (Humnabad taluka). Mr Navanth got inspired and motivated by the scientists of Bidar Krishi Vigyan Kendra and started his own goat farm as an enterprise.

Mr Navanth has constructed low cost goat shed by using locally available resources. Mr. Navanth purchased 10 female and 01 male Osmanabadi goats from Latur District of Maharashtra which is a home tract of Osmanabadi goats in July 2020. Adequate supply of fodder, either green or dry, is crucial to the livelihoods of farmers involved in Goat rearing activity to meet their fodder requirements through a combination of crop residues, grazing on community and private property resources. Feed and fodder reserves increased substantially of the goat farm. So he has established the fodder cafeteria including the different fodder varieties like Super Napier, CoFS 29, Hedge Lucerne and Sesbania multi cut fodders each in an area of half acre so totally comprising of 2 acre and he has also started silage unit of capacity 500-600

kg silage green fodder to solve the problem of green fodder during off season.

In addition to this he is also buying goat feed ingredients and dry fodder from the other neighboring farmers. To make goat farming more profitable he is selling the goat manure to needy farmers. He is practicing the all most scientific practices of goat farming i.e., feeding, breeding, housing, health care management and marketing.

Interventions by KVK Bidar: Constant advise by KVK Scientists on selection of breeding stock, construction of scientific goat shed, demonstration on establishment of fodder cafeteria, Silage making in silage bags, health management in goats, preparation of concentrate feed, treatment of sick goats, deworming and vaccination in goats and also gave timely advice on marketing of goats.

Mr. Navanth is selling surplus male goats of 10 months to one year old which have gaining body weight around 20-25 kg and earning gross profit of around Rs.9000/- per buck on live body weight basis @ Rs.400/- per kg. Last year he sold total of 27 males and got a gross profit of Rs. 2,43000. He spent towards purchase of dry fodder, concentrate and medication. He earned net profit of Rs. 2,12,500/- from sale of male goats and the female goats kept for himself and now his herd size is comprising of 55 goats which includes 5 males buck for breeding. He is also earning by selling of goat manure, he is also generating employment for one labour for 12 month to maintain 55 goats. Looking after his success seven neighboring farmers have started scientific goat farming in and around the Narayanpur.







ICAR-KVK Chamarajnagar

OFT on Assessment of suitable short duration Greengram variety for Paddy fallows

ICAR KVK Chamarajanagara initiated the On Farm Testing on Assessing the performance of short duration Greengram varieties for Paddy fallows at Y.K.Mole and Kesthuru villages, Yalanduru taluk, Chamarajanagara district. Dr. Shruthi, M. K. Scientist (Agronomy) provided the information on the importance of growing short duration pulses in paddy fallows wherein the practices to be employed for effective utilization of residual moisture and conserving soil fertility were highlighted. As a part of the OFT, seed treatment with Rhizobium and Phosphate solublising bacteria was demonstrated. Further, she also provided information regarding agronomic practices to be followed during Greengram cultivation and management of problematic soils under command area.





ICAR-KVK Chikkaballapur



ICAR-KVK, Chikkaballapura organized online training programme on Integrated Pest Management in tomato on 05.05.2023. Dr. Swathireddy, Scientist (Plant pathology) explained about different disease symptoms and their management practices. 49 farmers and extension personnel participated in the programme.

ICAR-KVK, Chikkaballapura organized online training programme on scientific harvesting and marketing of mango on 06.05.2023. Dr. Praveenakumar R, Scientist (Horticulture) explained about different harvesting methods, safe ripening methods, importance of grading and direct marketing opportunities of mango. 38 farmers and extension personnel participated in the programme.

Scientists of ICAR-KVK, Chikkaballapura visited mango field at Kachahalli village of Chintamani taluk on 15.05.2023. Dr. Papireddy, Senior scientist and Head, Dr. Praveena Kumar and Dr. Swathi Reddy visited mango field and observed the impact of use of fruitfly rap in mango.





ICAR-KVK Chikkamangaluru

Weather-based forecasting system and popularization of weather-based applications in agriculture

ICAR-Krishi Vigyan Kendra has organized capacity development programme at Handuguli village of Mudigere taluk, Chikkamagaluru Dist. on 02.05.2023. Mrs. Shabnum, P.S., SMS(Agromet) has highlighted the gathering about District Agromet unit (DAMU) schemes and its mandates, effect and role of weather in crop production.

Further explained about preparation and circulation of bulletins based on major crops in the taluk and also advised the farmers to practice weather-based farming system and Climate smart agriculture in order to reduce the loss and risks in agriculture sector and also explained in details about selection of right crop, right variety and effective utilization of weather forecasting in agriculture.

Along with that, advised the people to follow the advisories of DAMU-KVK, Chikkamagaluru regularly in which DAMU will provide integrated Crop Management advices in Agromet Advisory Services (AAS), also explained in details about Meghdhoot and Damini Lightning application and its uses for farming communities and total 19 farmers got benefited out of it.





ICAR-KVK Chitradurga

Exposure visit of DAESI, students to KVK Chitradurga

Dr. Kumara O., The Senior Scientist and Head briefed the DAESI students of Chitradurga district on weather observatory at ZAHRS, Babbur farm, Hiriyur. Weather observatory consists of instruments and equipment for measuring atmospheric conditions to provide information for weather forecasts and to study the weather and climate.The measurements taken include temperature, atmospheric pressure, humidity, wind speed, wind direction, and rainfall amounts.Manual observations are taken at least once daily, while automated measurements are taken and sent to IMD for weather prediction based on weather forecasting was done.

Later the participants were shown a video on Hydroponic fodder production without soil using maize seedlings.

Mrs. GeethaKumari B N., Programme Assistant delivered a guest lecture on Importance of Soil testing. She briefed about soil sampling procedure, precautions to be taken while drawing the sample, depth of sampling, time of sampling, details to be provided along with the sample. After the guest lecture the participants were taken to the field and conducted a method demonstration on Soil sampling and quartering technique to be followed to make the representative soil sample were briefed to the DAESI, students of Chitradurga during their exposure visit to KVK on 06-05-2023.

Later, the participants visited the soil and water testing laboratory at KVK, Chitradurga. Mrs. GeethaKumari briefed about the various instruments used for analyzing the various parameters of soil and water testing and she also explained about the analysis procedures of pH, EC, OC, available Nitrogen, available Phosphorous, available Potassium and Micronutrients.





ICAR-KVK Dakshina Kannada

AWARENESS PROGRAMME ON FISH NUTRITION AND HEALTH

KrishiVigyan Kendra, Dakshina Kannada in collaboration with Central Institute of Fisheries Technology, Cochin under the funding support of World Fish centre, awareness programme on importance of fish nutrition for health was organised at Melangadi, Ullala, Dakshina Kannada under the leadership of Dr. T. J. Ramesha, Senior Scientist and Head and Dr. Chethan N., Fisheries Scientist. The awareness was organised for the parents and guardians of kids who attend Anganwadi in the vicinity. Anchovy fish powder was provided to the centre for improving nutritional statues in food and the demonstration was given on how to use the dry fish powder in various forms of food for kids. The dry fish powder can be incorporated into warm water, milk, curry, soup, rice etc food so that kids can have a nutritious food without any change in their routine taste of food. Dr. T. J. Ramesha, Senior Scientist and Head explained the importance of fish and fish products for kids health with the rapid changing in food habits. Basic details of kids such as height, weight etc were collected during the programme and the final evaluation will be done after certain period.





ICAR-KVK Davanagere

1 Training program for DAESI on Preparedness for Monsoon : Mr. Mallikarjuna B.O., SMS (Agronomy) delivered lecture on the Preparedness for Monsoon for DAESI students at IAT, Chitradugra. Interacted with students on the selection of the varieties for the season, cleaning of bunds, farm ponds and water ways for soil and water conservations. The program was organized by department of Agriculture, Chitradugra.



2. Soil Health Campaign and Method demonstration on soil sampling : Conducted the Soil health campaign at Kattegehalli village of Bidarkere Cluster, Jagalurtaluk in collaboration with Rashtriya Chemicals and Fertilizers limited. The program was inaugurated by Mr. Somanagowda, Progressive farmer, vice president of Bidarkere TAFPO.

Mr. Mallikarjuna, SMS (Agronomy) briefed the farmers on the importance of soil health and way to reduce the cost of production by applying the soil test based fertilizers.

Mr. H.M Sannagowdru, SMS (Soil Science) explained the farmers how to collect the soil and water for the analysis and also explained where to collect the samples and method of storage before giving to analysis. Conducted the method demonstration on soil collection for field crops. The program was attended by Mr. Kulbushan, Officer RCF, Mr. Raghuraja SMS, (Extension) and progressive farmers and farm women.





ICAR-KVK Dharwad

Success Story of Shri. Ravi Dandin: Sustainable income through integrated Sheep/Goat cum poultry farming

Shri. Ravi Dandin from Kallur village of Dharwad taluka owns 1.20 acres of land with good irrigation facility. He was getting an annual income of Rs. 44000/- and after lockdown he had financial crises and was unable to maintain the family with agriculture income. He thought of starting an subsidiary activity to compensate his family income and one of the idea suggested was Sheep/Goat farming. Earlier he was growing maize as main crop and was not getting sufficient income. He consulted the KVK Scientists for establishing sheep/goat farm as subsidiary income source. He attended the vocational training programme organized by ICAR-KVK, Dharwad on Scientific sheep/goat farming. The training oriented him regarding the basics of sheep/goat farming, feed and fodder management along with exposure field visit to successful entrepreneurs. After completion of the training, he established sheep/goat farming in an area of 60x30 feet with the raised integrated stall fed housing system to rear the sheep/goat and poultry birds.



KVK Scientists made timely visit and guided the farmer in feed, fodder and disease management, established fodder cafeteria, followed vaccination protocol for sheep/goat and poultry. He has grown multicut fodder sorghum (CoFS-29), fodder maize, lucerne, sesbania in 0.5 acre of land for feeding sheep and goat. Presently he is having 50 sheep, 50 goats and 400 local poultry birds. Deccani, Nari suvarna, Yalaga and Sirohi, Osmanabadi, Beetal were the major sheep and goat breeds respectively maintained in stall fed housing system. He feed the animals with concentrated balance feed ration consisting of

groundnut, blackgram and bengalgram husk etc.,

Presently with the integrated livestock and poultry farming, he is getting an annual gross income of Rs. 6,12,000/-. Major contribution is from sheep/goat farming i.e., Rs. 4 lakh from sale of sheep/goat and Rs. 2,16,000/- from sale of eggs and birds with the BC ratio of 4.08. He has become the master trainer for integrated sheep/goat cum poultry farming training programmes conducted by ICAR-KVK, Dharwad. More than 80 farmers, 60 students and 10 extension officials visited his farm for consultancy and already 10 farmers/ rural youths started their own integrated sheep/goat cum poultry farming unit. Adoption of integrated sheep/goat cum poultry farming provided regular employment for two labours throughout the season along with crop cultivation practices. Hence integrated sheep/goat cum poultry farming is a additional sustainable source of income for the farming community during the era of climate change.





ICAR-KVK Ernakulam

KVK participated in Kisan mela & Seminar

The Ernakulam KVK participated in the Ente Keralam mela and Seminar organized by the District Administration, Idukki on 30th April 2023 at Vocational Higher Secondary School ground, Vazhathop, Cheruthoni, Idukki. Dr. Vikas P.A, Subject Matter Specialist delivered a talk on Inland Aquaculture opportunities in Idukki District. The mela was inaugurated by Honorable Minister Shri. Roshi Augustine. Two hundred and fifty progressive farmers participated.

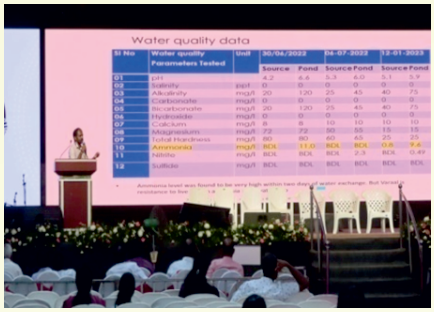
KVK participated in the Millet Mela organized by FSSAI, Kochi

The Ernakulam KVK participated in the "Eat right millet mela" organized by the Food Safety and Standards Authority of India, Kochi unit on 4th May, 2023 at Ernakulam townhall. Shri Shoji Joy Edison, Subject Matter Specialist delivered a talk on Exploring the potential of Millets in modern agriculture. The KVK experts also associated in evaluating the posters made during the poster competion on Millets: Nourishing our body, nurturing our planet. The mela was inaugurated by the honourable Mayor of Kochi Adv. M. Anilkumar. Expert talk on Significance of millets for a healthier tomorrow by Shri. Nydin Paulin, Chief dietician, Medical trust hospital was also part of the programme. Approximately, 750 farmers and students participated.

KVK participated in Farmer-Scientist Interface

KVK Ernakulam participated in the Farmer-Scientist Interface conducted by Regional Agricultural Research Station, Kerala Agricultural University, Kumarakom, Kottayam at Chaithanya Pastoral Centre, Thellakom on 9th May 2023. The programme was conducted exclusively for the farmers from Special Zone - Problem areas in four districts viz, Alappuzha, Ernakulam, Kottayam and Pathanamthitta. Dr. K Smita Sivadasan, Subject Matter Specialist (Animal husbandry) acted as expert panel member and presented Animal Science technologies popularized by the KVK in Ernakulam district. Approximately, 100 farmers attended.







ICAR-KVK Gadag

LIVE TELECAST OF MANN KI BAAT PROGRAMME



The live telecast of *MANN KI BAAT* programme of Honourable Prime Minister Shri Narendra Modiji, Government of India was organised at ICAR-K.H.Patil Krishi Vigyan Kendra, Hulkoti on 30-04-2023. On this occasssion KVK Scientists briefed about natural farming, preparation of organic inputs, bio-pesticides and bio-fertilizers. About 155 farmers, farm women and KVK Staff participated in the programme.

TRAINING TO DAESI TRAINEES



Technical trainings were imparted to DAESI trainees (Batch-1) at ICAR-K.H.Patil Krishi Vigyan Kendra, Hulkoti on 15-04-2023. Shri N.H.Bhandi, SMS (Soil Science) sensitized trainees on soil sampling method. Then the demonstration of soil sampling was carried out by DAESI trainees. Dr.Vinayaka Niranjan, SMS (Ag. Engg.) gave detailed description of layout and working of micro-irrigation systems viz., drip irrigation and sprinkler irrigation systems. Trainees were also given insights on water management practices to be followed in rain shadow regions.



EDP ON SHEEP AND GOAT REARING



In collaboration with SBI-ASF-RSETI, Hulkoti, ICAR-K.H.Patil Krishi Vigyan Kendra, Hulkoti organised 10 days training on sheep and goat rearing from 12-04-2023 to 21-04-2023. 27 unemployed rural youths from Gadag district were traineds. The topics on Entrepreneurship Development Programme mainly personality development, setting of goals, achievement motivation etc., were covered. The topics on varieties of breeds, shelter, feeding pattern, disease management, preparation of project proposal, availing of loans from banks etc., were covered during the training programme. Exposure visit to successful sheep and goat rearing entrepreneurs unit was also organised.



SELF EMPLOYMENT DAIRY FARMING TRAINING FOR RURAL YOUTHS



Dairy farming training to rural youths was organised by ICAR-K.H.Patil Krishi Vigyan Kendra, Hulkoti in collaboration with SBI-ASF-RSETI, Hulkoti from 24-04-2023 to 03-05-2023. 16 unemployed rural youths participated in the training programme. The Scientific Dairy Farming training coupled with preparation of project report made a good impact on youths. The Government Officials delivered lectures on various

aspects of dairy farming. The exposure visit to successful dairy entrepreneurs unit at Dundur and Asundi village of Gadag block was organised.

KVK, Hassan

FPO stakeholders training

ICAR-KVK, Hassan in collaboration with art of living & Sri rural development programme trust and Coffee krishitarangaorganized the sponsored training programme on gap and post-harvest management practices in coffee and pepper for board of directors, lead farmers and staff of Coffee and Pepper Farmers Producers Organization (FPO) at KVK Hassan. Mr. Girish, Program Manager- FPO, Sri Sri Rural Development Program trust has inaugurated the programme and in his inaugural speech he said that farmers should concentrate on processing and value addition to the pepper rather than wholesale pepper selling to the middleman, so that they can get more income.

Dr. Rajegowda, Senior Scientist and Head, KVK, Hassan, has chaired the programme and during his presidential remarks he said that to get higher income farmers should practice scientific farming by taking advice from the scientists.

Dr. Samketh, C V., Scientist (Agriculture Extension) KVK, Hassan during his introductory remarks, he mentioned the motto behind this training programme and how participants will benefit from this training.

Further, in all 2 days training programme KVK, Spice and Coffee board scientists were given the class on Soil sampling methods, good agriculture practices, IPM practices, post-harvest management practices, value addition and marketing linkages in Coffee and Pepper for the participants.

Finally participants were expressed their feedback on the training programme and they expressed to have similar programmes in off campus mode to benefit more number of farmers.





KVK, Haveri

An awareness program on climate change and utilization of weather apps

District Agro Meteorological Unit (DAMU) at KVK Haveri conducted an awareness program on climate change, weather forecasting and utilization of weather apps to the farmers of Haveri taluk. Dr Shantveerayya, SMS (Agrometeorology) explained that in recent times due to extreme weather conditions the farmers are suffering a lot due to heavy rains. Since all agricultural activities of the farmers are based on the weather, they should know the local weather forecast and do the farming. On every Tuesday and Friday DAMU unit provides medium range weather forecast (next 5 days) at district and block level is generated and based on the forecast, Agromet Advisories are prepared and communicated to the farmers through Whats app groups and briefed on weather parameters and its influence on crop production, instruments used for meteorological observation, climate change, causes for climate change and how it affect the crop

production, contingent crop plans for the district to minimise crop loss from extreme weather conditions and sustainability in farmers income.

At the same time emphasized on usage of mobile apps viz., 'Meghdoot' launched by Ministry of Earth Sciences, Government of India, to help the farmers to get the weather information including alerts and related agromet advisories specific to their districts. A mobile application "Damini" for farmers and city dwellers to know local thunder or lightning forecast. This app identifies the exact locations of current lightning strikes and gives at least 30 to 45 minutes advance warning of possible thunderstorm movement within 20 to 40 km of our vicinity. During this occasion more than 30 farmers were benefitted the information.



ICAR-KVK Idukki

Inauguration of KVK's FPO entitled "Devikulam Block farmers producing and marketing cooperative society Limited I 785

ICAR –Krishi Vigyan Kendra, BSS, Idukki as Cluster Based Business Organization (CBBO), has successfully registered our FPO entitled Devikulam Block farmers producing and marketing cooperative society Limited I 785 for the benefit of farming communities under Devikulam Block. The FPO has been registered under the Cooperative society's act of Kerala 1969. KVK Works for adding up Farmer members with an above 300 for the equity benefits of farmers. This FPO scheme is funded by National Cooperative Development Corporation (NCDC) which is the empanelling organization for our CBBO. This FPO will work as per the rules and regulations of cooperative society under Registrar of Cooperatives societies. The FPO was inaugurated by Ms. Preethu K Paul, SMS (Ag. Extension), and FPO In-charge, KVK Idukki. Special address was delivered by Mr. Jayan C J, Chief promoter of our another FPO of KVK named Adimaly Block farmers producing and marketing cooperative society Limited I- 784. The FPO President, Sri Sajeevan P. R. feliciated the programme.





ICAR-KVK Kalburagi-I

Annual Technical Meeting-2022-23

ICAR- Krishi Vigyan Kendra, Kalaburagi-I scientists have participated their respective department's Annual Technical Meeting held on first fortnight of May 2023 reviewed the work done in Teaching, Research and Extension during the year 2022-23 and plan of work and new Technical Programme for 2023-24 at different departments of University of Agricultural Sciences, Raichur.

Dr. Raju G. Teggelli, Senior Scientist and Head, ICAR-KVK, Kalaburagi-I presented work done report conducted during the year 2022-23 and new technical programme for the year 2023-24 of KVK, Kalaburagi-I and department of Agricultural Entomology for three days, Dr. Vasudev Naik, Scientist (Horticulture) presented work done and new action plan from department of Horticulture for two days, Dr. Manjunath Patil, Scientist (Animal Science) presented from department of Animal sciences at KVK Kalaburagi Campus for two days, Dr. Yusuf Ali,Scientist (Agronomy) presented work done reportand technical programme from department of Agronomy for four days, Dr. Zaheer Ahamed, Scientist (Pathology)presented work done report from Plant Pathology department for three days and Dr. Shreenivas B V, Scientist (Soil Science) attended Annual Technical Meeting of the Staff of the Department of Soil Science and Agril. Chemistry held on 2nd and 3rd May 2023 presented the work done in Teaching, Research and Extension during the year 2022-23 and new Technical Programme for 2023-24 at Department of Soil Science, College of Agriculture, UAS, Raichur.

At the outset, Dr. Hanumanthappa, M Hon'ble Vice Chancellor, UAS, Raichur inaugurated the meeting and appreciated work done by the scientists also stressed on research and extension activities of Kalyan Karnataka region major and minor crops especially millets, low cost technology, value addition, processing and marketing opportunity to the farmers. In these meeting University Key officers, respective University HODs, teachers, scientists and PG students participated and gave valuable suggestions for the benefit of the farmers.





ICAR-KVK Kalburagi-II

Follow-up visit to OFT Groundnut filed and Problematic sugarcane field by ICAR-KVK, Kalaburgi-II on 12-05-2023 at S N Hipparga:

Dr. N. Manjunatha, Sr. Scientist & Head, and Dr. Mahanthesh M.T., Scientist (Animal Science) ICAR-KVK, Kalaburgi-II visited OFT–Groundnut plot at S N Hipparga Tq. Jewargi on 12th May 2023 and taken observations on different parameter of groundnut. Farmer opined that the varieties DH-256 and Kadari Lepakshi seems to be high yielding since these varieties having higher number of pod per plant. However, farmer observed irregular maturity in Kadari Lepakshi and he is not happy with that character of the variety.

Same team also visited sugarcane plot affected with nutrient deficiency and also irrigation problem. Team suggested nutrient management and alternative furrow irrigation method for sugarcane to save the crop from water scarcity.





ICAR-KVK Kannur

Food Entrepreneurs Meet



In collaboration with KVK Kannur, Consortium of Food Entrepreneurs in Kannur (COFEIK) organized Food Entrepreneurs Meet at Chamber Hall Kannur on 11.05.2023. Meet was inaugurated by Smt. P. P. Divya, President, District Panchayath Kannur in a function chaired by Mr. T. K. Ramesh Kumar, President, The North Malabar Chamber of Commerce. Dr. Jayaraj P., Programme Coordinator, KVK Kannur handled technical session on diversification of food and beverages sector and required benchmark. A session on enterprises development and MSMED packages by GoK and GoI including cluster development in food and beverages sector by Sri. A. S. Shiras, GM DIC Kannur. Sri.Vineesh, MD-Olive Foods took class on practical issues found in sales and marketing. Interactive session and a panel discussion were also held as part of the programme.

ICAR-KVK Kasaragod

Capacity Building and Scientist-Farmer interface programme for Scheduled Tribes

A special programme for selected members (Leaders) of scheduled tribe families of the villages in Kodom-Belur Gramapanchayat of Kasaragod on May 11, 2023 in collaboration with ICAR-CPCRI and Centre for Research and Development, Nileshwaram, Kasaragod. The programme was inaugurated by Ms. Sreeja P, President,Kodom-Belur Gramapanchayat in her opening remarks highlighted the components of IntegratedTribal development programme sponsored by NABARD and importance of subsidiary income generation through agricultural activities for sustainability of ST families. Dr. Thamban C, Principal scientist, ICAR-CPCRI briefed the coconut nursery management and package and practices of coconut cultivation. Dr. A C Mathew, Principal scientist, ICAR-CPCRI discussed on the topic on soil and water conservation measures to mitigate the climate change issues. Dr. Benjamin Mathew, SMS-Horticulture, ICAR-KVK, Kasaragod, delivered on Horticulture nursery management and its entrepreneurship potential for improving and augmenting the family income. The meeting was concluded with an active interactive session by participating farmers and made them confident to initiate farming as an entrepreneurship activity

for their sustainability. Dr Sasikumar C, Director, CRD(PIA), Kasaragod, delivered the vote of thanks and encouraged the families to take up this programme positively and utilized the resource productively. A total of 35ST farmer & farm women and 9 officials participated in the programme.




Dr NeelofarIllias Kutty received national recognition in Nutritional food contest

Glenmark Foundation, an associate of Glenmark pharmaceuticals conducted a national level contest jointly with Idobroamong the professional nutritionists named of Season 5 of the "Meri Poushtik Rasoi 2023". More than 1000 contestants participated in the competition. In the third and final round of the contest Dr. NeelofarIllias Kutty, Chief Technical Officer, ICAR-KVK, Kasaragod was among the five finalists. She became the second runner up and received cash prize, certificate and gift hamper for her PoushakaPotali, a millet-based recipe.

The topic of contest was to develop a nutritional food that is traditional, nutritious, and prepared from locally available ingredients. The contest invited participants across India to submit their traditional and nutritious recipes via online form. Finalists were selected by a jury of culinary experts. The selected finalists were invited to Mumbai to participate in a live cook-off round. The objective of this pan-India contest was to crowd source, document, and collate traditional knowledge of nutrition-rich foods from Indian home kitchens, which could be used to tackle malnutrition at local, grassroots level, both in urban and rural areas of the country. The final round was held at RamanadPayyade College of Hospitality Studies, Kurla in Mumbai on 5 and 6 May 2023. Glenmark foundation has set an objective of developing an ecosystem to battle the scourge of hunger and support healthy mothers and children.







ICAR-KVK Kodagu

Program report

As a part of Indo-German Biodiversity collaborative programme "Human Wildlife Conflict Mitigation (HWC) in India", National Academy of Agricultural Research Management(NAARM) jointly organized two day programme of training of trainers on "Holistic Approach to Human-Wildlife Conflict Mitigation and One Health" in online mode on 15-16 May 2023 along with GIZ at KVKGonikoppal, Kodagu. 15 farmers from different talukas of Kodagu District attended the training program and got important

information from the scientists Dr. Neeraj Khera, and Mr Vimarsh Sharma, GIZ , Dr. B. Naveena, ICAR-NAARM, Dr Aditi Sharma, Senior Wildlife Veterinary Expert, who presented various measures and techniques to mitigate human wildlife conflict.

The training program concluded by issuing certificated to the participants and participants shared reflection on "From now onwards, how to contribute to mitigating HWC and ensuring effectiveness and efficiency in all the trainings, courses and awareness programmes and participants identified key competencies which needs to be focussed for further trainings.




ICAR-KVK Kolar

1. Visit to problematic tomato fields

KVK, Kolar Scientists Dr. Sadanand K. Mushrif, Scientist (Plant protection), Dr.Shashidhar K. R, Scientist (Sericulture), Dr. Chikkanna G.S, Scientist (Home Science) &Dr. Asha K. M, Scientist (Horticulture) visited the problematic tomato field of the farmer Mr. Bheemesh at Holali village, Kolar taluk on 12.05.2023. Observed the leaf minor and Tutaabsoluta incidence in Tomato field. Scientist (Plant Protection) suggested, integrated management practices.




2. Scientist visit to farmers field

KVK, Kolar Scientists Dr.Shashidhar K. R., Scientist (Sericulture), Dr.Sadanand K. Mushrif, Scientist (Plant protection), Dr.Chikkanna G.S, Scientist (Home Science) &Dr. Asha K. M, Scientist (Horticulture) visited sericulture farmer field at Holali, Kolar taluk on 12.05.2023. Scientist (Sericulture) briefed on recycling of sericulture farm residue into quality compost production using waste decomposer solution.




ICAR-KVK Kollam

Blending taste of coffee with the goodness of mushroom-A novel initiative in agriprenuership

Lalu Thomas , a 45 year old chef an ex expartriate from UAE who lost his highly remunerative job due to the Covid crisis in 2019. The unexpected loss of job forced Lalu to return back to his native village , Thalavoor in Kollam district. Finding a job according to his expertise was very difficult. He started searching for other avenues for supporting his family. Lalu wanted to do something related to agriculture and food industry. Lalu's mother used to cultivate mushroom in their home on small scale level and Lalu started to cultivate the same.When Lalu started marketing of his produce he learnt many new lessons about the market demand, shelf life of mushroom and demand harvesting. The bigger challenge was the shelf life. Harvested mushrooms lost freshness within days this situation forced Lalu to think new methods for enhancing shelflife. Agricultural Officer, Thalavoor Krishi Bhavan rooted Lalu Thomas to KVK Kollam for support to solve his problem.

Interventions

Process and Technology: Lalu Thomas discussed the matter with KVK scientist about his dilema . KVK had proposed for an OFT on high value product from mushroom during that period. KVK hand holded Lalu through capacity building in value addition of mushroom and product development. Major topics covered were, Food safety standardization, nutritional quality, packing labeling, marketing, financial aid from related agencies etc.This programme motivated Lalu to develop Mushroom based products and this become his dream. Lalu juggled in different products based in mushroom viz. Health drink, soup powder, dried items, snacks, chocolate, soap and so on. He started his production andresearch at his home with the guideline of KVK scientist Ms.Shamsiya . It was a great success. His products were launced during the 17th SAC of KVK Kollam by the then Director of Extension, Dr. Jiju P Alex. Initially he facing the constraints of rejected mushroom due to rotting but now the scarcity of mushroom become a problem. He realized that to increase the production of mushroom spawn should be made amply available. Hence he attended another vocational training on spawn production and scientific cultivation of mushroom at KVK. He continued experitmenting in mushrrom cultivation and product formulation. From this expertmentation came the idea of mushroom coffee- Labae mushroom coffee. KVK Home Scientist helped him to successfully prepare an unique blend of coffee with different mushroom. Its nutrient value, shelf life, organoliptic evaluation studies were carried out under the supervision of KVK Home Scientist. District Industry Centre, included Lalu in PMFME scheme and he was able to establish his new unit with an outlay Rs. 10 lakh. Coffee bean for the product is being collected directly from farmers of Wayanad district.

Output and outcome: Labae mushroom coffee is 70% mushroom and 30% powderd coffee bean. This mushroom coffee is a blend of five different mushrooms. Disinfected mushroom are solar dried using specially designed solar dryer and powdered usinf pulviser. Roasted and powdered coffee bean is blended

with the mushroom. About 3000 kg fresh mushroom is required to make 250kg finished product. the product launched by the honorable Minister for Industries, Law and Coir in the Government of Kerala. Adv. Prajeev in his chamber at the presence of Shri Arif, MP Alappuzha. The company received 250kg order from Abu Dabi based marketing company many other company also ready to place there order but raw material is the barrier . To address the problem KVK with Krishi Bhavan has initiated a model group based production at village level for mushroom production.

Horizontal Spread: Lalu's success was covered all leading channel, news papers, PRD and FIB also facilitated his success he is now an invited guest for many entrepreneur development program. Last year he got an opportunity to address VIGA meet this year he is going to present his success story at VIGA Thiruvanathapuram.

Economic gains: The premium product of mushroom coffee is Rs450/- per 100 gm

Employment Generation: Model mushroom village will open employment avenue for more than 300 youngsters housewife and educated youth. The panchayat committee has decided to help this venture with the help of KVK and Department of Agriculture.





ICAR-KVK Koppal

Visit IFS farmers' field

Senior Scientist and Head, Dr. Raghavendra Yaligar and Dr. M. K. Naik, Director of Extension, UAS Raichur, visited IFS farmer Sri. Veerangouda is a progressive farmer of Aral village of Gangavathi block. He is having 15 acre of land in that growing Arecanut, Banana, Mango, Silveroak, Tamarind, Guava, Rose, Sapota and rearing of animals. He practiced Jeevamruta, Ganajeevamruta and Neemastra in his field for maintaining naturally without using any chemicals. He annually gettingmore than 12 lakhs income from horticulture products and dairy.



ICAR-KVK Kottayam

Farmer out reach programmes of Krishi Vigyan Kendra Kottayam

KVK Kottayam organised a one-day seminar on "Healthy food for long life and well-being" on the occasion of the 70th annual celebrations of Olassa public Library. Thematic areas of the seminar included homestead vegetable farming, scientific rice farming and fish farming. The programme was inaugurated by

Smt. SabithaPremji, President, AymanamGrama panchayath and the technical sessions were handled by Dr.Bhindhu P.S., Sri. Manuel Alex and Dr. Navya R., SMS in related disciplines from KVK, Kottayam. One hundred and twenty three farmers attended the seminar. Ten progressive farmers were honoured and felicitated in the function and their experiences were shared.

KVK, Kottayam participated in three days mega agriculturalevent "Krishi vision 2023" at Thottakkadu in Changanassery Taluk. The event was organised by Kerala Labour Movement, Changanasserydiocese and inaugurated by Sri. Thomas Chazhikadan, Member of Parliament, Kottayam constituency. The three days seminar in association with the event were coordinated by KVK, Kottayam. Dr. G. Jayalekshmi, Programme coordinator, KVK, Sri. Manuel Alex , SMS (Horticulture) and Dr. Navya R. ,SMS (Aquaculture) handled the sessions in the seminar. Three hundred and six farmers and entrepreneurs participated in the event.





ICAR-KVK Kozhikode

Awareness programme on natural farming, millets and distribution of chick cage and chicks

Demonstration of Jeevamirtham making, its usage to get healthy soil, crop and yield was explained by Dr K.M. Prakash, SMS as part of awareness programme on natural farming. In continuation an exhibition with grains of eight millets and value added products of Ragi and Sorgam was also organised at KVK, Peruvannamuzhi. The programme was attended by farmers from Chakkittapara and Maruthonkara Panchayats. They were served with millet diet / snacks. The SC beneficiaries selected for distribution of chick cage and chicks were also attended the programme and provided with wooden chick cage and layer chicks. The programme was inaugurated by Smt Sheeja Sasi, District Panchayat President, Kozhikode by distribution the materials and Presided by Mr N P Babu, President, Perambra block Panchayat. Dr P. Ratha Krishnan, Principal Scientist and Head, KVK, Kozhikode welcomed the participants and explained about the importance of millets and possibility to cultivate in Kozhikode district. Smt Annu R, SC promoter, Chakkittapara Panchayat delivered vote of thanks.







Millet cafeteria at KVK

As part of International Year of Millets – 2023, KVK, IISR, Kozhikode is organising series of awareness programme and exploring the possibility of millet cultivation in Kozhikode. A cafeteria with millets is being raised in KVK campus for the benefit of farmers and educates them. Since the time for harvest is being approaching Dr R. Dinesh, Director, IISR along with Dr K. Kandiannan, Nodal officer for IYM programme of IISR visited the cafeteria and reviewed it's progress. This plot is also being used to educate the farmers, public representatives including Smt Sheeja Sasi, District Panchayat President, Kozhikode and Mr N P Babu, President, Perambra block Panchayat.




ICAR-KVK Malappuram

Ingraining the virtues of agriculture among the inmates of Tavanur Central prison

Agriculture is rooted in strength and resiliency, so are the people involved in cultivation. Agriculture has an innate ability to heal emotional and psychological traumas and improve mental and spiritual health. Upholding the idea, KVK Malappuram has furthered to materialize it by collaborating with Central prison Tavanur and initiated stride of activities involving the inmates. KVK team demonstrated precision farming and micro irrigation techniques in vegetable fields in the premises of the prison. Sequential to which, the centre established a vermi-compost unit under the Swachta Action Plan and provided hands on session on bio-composting using earthworms. To evoke the notion of sustainability in cultivation, awareness class and demonstration on natural farming practices were organized for the officials and inmates of the prison. The inmates prepared jeevamrit and beejamrit under the official supervision for applying in the crop.







KVK participates in EnteKeralam Exhibition



In connection with its second Anniversary, a Mega exhibition is being organized by the state Government in every district under the title Ente Keralam. The exhibition of Malappuram district is going on at Ponnani from 10th to 16th May 2023 with nearly 200 stalls attracting people from all fields of life. KVK Malappuram is participating with a theme stall, under the category of Agriculture and allied activities, describing various activities,

achievements and services rendered by the KVK to the farming community and its contribution towards agricultural development of the district and beyond.



Mann Ki Baath Broadcast at the KVK

100th Episode of Prime Ministers Mann Ki Baath Radio programme was celebrated with live telecast of the same to farmers gathered at KVK Malappuram on 30th April 2023.

ICAR-KVK Mandya

Farm and home visit – Visual way of effective learning

Mandya district is well known for paddy and sugarcane growing in the Karanataka state. With the blessings of river Cauvery, the farmers of the districts are acclimatized for mono cropping. Diversified farming is attracting the farmers to open up themselves for cultivating horticulture crops for the better income generation. Despite with all the points mentioned above a retired lecturer is educating and doing the eye opening kind of farming by practicing diversified horticulture, commercial and forest crops in his land in organic way to motivate the farmers in the district at Dabbegatta Village, Kikkeri Hobli of K. R. Pete Taluk. Mr. Ramalinge gowda the farmer who has made the scientific community, extension functionaries and farmers to visit his field as farm school for better farming education and he is the recipient of district level progressive farmer under ATMA during 2021-22. The Senior Scientist and Head, Dr. Naresh, N. T., Dr. Suresh D. K., Scientist (Agricultural Extension) and Dr. Divya, Scientist (Horticulture) have witnessed his art of farming in his 12.5 acre land holding consisting of 750 coconut trees, 1200 Arecanut palm, 800 Banana plants, CoCo 500 plants and spices viz., Cardamom, Nutmug, cloves along with them 1000 forest species viz., Teak, Mahagani, silver oak in his farm empire. The Kannada lecturer from Bhadravathi has purchased land at Dabbegatta in 1997 and started organic farming from 2017, he has built Jeevamrutha preparing tank with the capacity of 400 litres with low cost technology and it is sufficient to supply for his land holding once in 15 days. The progressive farmer is earning in lakhs per annum by almost zero investment for farm inputs. Farmer is practicing natural five layer mulching system with coconut husk, coconut frawns, grass, tree leaves and green manuring crops. He has conducted several one day training programmes for the interested farmers from the state. It's worth to visit his farm for effective learning and better farm education for the interested farmers and extension functionaries.







ICAR-KVK Mysuru

Institutional IFS project survey and data collection

ICAR JSS Krishi Vigyan Kendra Mysuru, planned for institutional IFS project survey and data collection in Hunsur taluk. Agronomy Scientist Shri Shamaraj conducted IFS farmers' field visit, farm survey and data collection of farm and farm family in Hunsuru taluk. KVK Program Assistant Shri Rajanna explained about soil sampling and soil collection at IFS farmer's fields of Hunsur taluk. KVK has identified

nearly 30 IFS farmers for both rainfed and irrigation situation in representative village of different hobli in Hunsur taluk which come under southern transition zone.



Diagnostic field visit to Banana (Nendran)

ICAR, JSS, KVK Scientists Dr. Prasad Y P (Plant Protection) and Dr. Vinay G M (Horticulture) have visited Banana (Nendran) filed at Hosakote village of Mysore District on 12.05.2023. Where the scientists diagnosed the incidence of banana stem weevil or banana pseudostem borer and potassium deficiency and suggested integrated management for the same. Use healthy planting materials/suckers. Remove the affected plants along with rhizomes chop into pieces and burn. Remove the dried and rotten outer sheaths of pseudostem. Use longitudinally split pseudostem trap then collect and destroy the adults. Stem inject pseudostem with chlorpyrifos (5 ml + 15 ml water) @ 2 ml at 45 cm height and another at 150 cm height from ground level at monthly intervals from 5th - 8th month.

Dr. Vinaya G M Scientist (horticulture) suggested the spraying of banana special and sulphate of potash 5 gram each per litre of water to overcome the potash deficiency.



ICAR-KVK Palkhad

Capacity building programme on value addition of millets

KVK Palakkad conducted aoneday capacity building programme on value addition of millets on May 11th. A group of 50 trainees attended the programme. The training was conducted in hybrid mode, where theory portion was handled by Dr. Reshmi R through online mode and practical session was handled by Smt. Sheena. Participants were divided into different groups and was trained to prepare different millet dishes. Millet cookies, halwa, laddoo, cake, mixtures etc. were some of the products made during the programme.



Field Day conducted at NICRA village

Field day on pulses was organized in Pattithara panchayath by KVK Palakkad on May 4th.Demonstration of pulses as a climate resilient crop in summer season in paddy fallows was conducted in Pattithara Panchayath under NICRA project. Green gram variety CO 8 and cowpea variety KBC - 4 were demonstrated in the paddy field of the



farmers of Haritha padashekharam, Pattithara.Farmers were satisfied by the performance of varieties. KVK Palakkad programme coordinator Dr. Sumiya K.V, Assistant professor Mr. Arun Kumar K. V, NICRA -SRF Ms. Sreelekshmi S and farmers of Haritha padasekaram of Pattithara panchayath participated in the Field Dayprogramme.

Capacity building programme on 'Machines for Fruit Processing and Packing



Palakkad KrishiVigyan Kendra organized a training program on 'Machines for Fruit Processing and Packing' for Chalissery Chakkakutam members at Kelappaji College of Agricultural Engineering and Technology(KCAET), Tavanur. Assistant Professor, Dr. Rajesh. G. K. from KCAET, Tavanur, took a class on value added products from jackfruit, their packing and machinery. Also imparted practical training on the preparation of squash, jam, advanced methods for dehydrating jackfruit, and the production of pasta and candy from jackfruit.

ICAR-KVK Pathanamthitta

OPEN PRECISION FARMING IN VEGETABLE CULTIVATION



With a view to increase the production and productivity of vegetables, KVK Pathanamthitta set up demonstration units on open precision farming which comprised of fertigation and mulching with scheduled dosages of fertilizers. Th demonstration was organized as part of the Vegetable Development Programme of the Department of Agricultural Development and farmers' welfare, Govt. of Kerala. Demonstration units of Yard long bean, Okra, Bitter gourd, brinjal, Snake Gourd and Bush cowpea were set up in Ranny, Koipuram, and Pulikeezhu blocks of the district. The demonstration units recorded an average production of 32.5 t/ha in Tomato, 30 t/ha in chilli, 20.8 t/ha in Yard Long Bean, 18.3t/ha in Okra, 23.6t/ha in Bitter gourd, 23.5t/ha in brinjal, 39.5t/ha in snake gourd and 12.6t/ha in Bush cowpea. Field days were also organized in the demonstration units.







ICAR-KVK Ramanagara

Online capacity building Programme on Importance of south west monsoon and weather forecasting in agriculture

ICAR- Krishi Vigyan Kendra Ramanagara organized online capacity building programme on "Importance of south west monsoon and weather forecasting in agriculture" on 8.05.2023. Due to the

impact of climate change, we can see huge differences in rainfall distribution and also variation in the seasonal rainfall distribution which will affect the crop production. So, KVK Ramanagara addressed this issue by organizing online capacity building programme where Mrs. Shanta Balagond, Subject matter specialist (Agro meteorology) explained about the importance of weather forecast in agriculture, rainfall distribution pattern in the Ramanagara district, importance of agro advisories to the farmers, pest and disease management and application of chemicals and fertilizers based on weather forecast. She also explained about how to make use of weather forecast which will be given twice a week to district and block level by District agro met unit Project established in ICAR-Krishi Vigyan Kendra Ramanagara in collaboration with Indian meteorological department and Indian Council of Agricultural Research. She also briefed about different apps regarding weather forecast mainly Meghdoot, Damini, Mousam etc. During the programme 24 participants participated in the programme and were benefitted.




ICAR-KVK Trissur

Thrissur Pooram Exhibition

Thrissur Pooram, the colourful pageant, shrouded in devotion and set on the backdrop of Lord Vadakkumnathan (Lord Shiva) temple is one of the most extravagantly celebrated temple festivals of Kerala. Millions of devotees world over come together to celebrate this mass congregation irrespective of caste, creed or religion always strengthening the cultural fabric of the state.

The Pooram exhibition which is held every year as a prelude to the Pooram festival showcases cultural heritage, indigenous knowledge and developmental initiatives of Kerala. The exhibition comprises more than 200 stalls and many pavilions of different segments of the society. Products belonging to various fields like agriculture, industry, food processing, environment, medicine, electronics, space science, fashion, crafts, and even robotics find a place in this grand show.

The Kerala Agricultural University Pavilion was inaugurated by the Honourable Vice Chancellor Dr B Ashok, IAS on 19th April, 2023. Director of Research Dr. Madhu Subramaniyan and Director of Extension, Dr. Jacob John also graced the occasion. KrishiVigyan Kendra, Thrissur has set up a stall In the Pavilion of the Kerala Agricultural University under the focal theme " Rice , millets and Value addition ". More than hundred varieties of Rice -traditional as well as those released by KAU- have been displayed along with clear descriptions of their origin and management practices. Live plants of major and minor millets along with their grains arouse curiosity and interest among the public . The information boards depicting the health and nutritional benefits of millets are also quite impressive. Value added products like Mango RTS drink, crush, dehydrated fruits, Black pepper, Coconut oil, bioinputs, vegetable seeds etc are ready for sale in the stall.





ICAR-KVK Trivandrum

Soil Moisture Indicator Hand Tool for Efficient Water Utilization

KVK conducted front-line demonstration on Irrigation scheduling using soil moisture indicator tool for the year 2022-2023 in Thiruvananthapuram district, covering 12 farmers' fields in 4 panchayats. Soil moisture indicator measures the volumetric water content of the soil. Farmers by conventional methods irrigate the crops which consumes a high amount of water. However, during irrigation by conventional means, the water use efficiency is low. Farmers will not be in a position to quantify the amount of water to be applied for irrigation. Though there are water flow measuring devices, like sensors, which are costly and not economical to small and marginal farmers. SMI is handy and low-cost; measures water quantity, indicates the available moisture in the soil, and shows the measured water level by lighting of suitable LED lights mounted on it.

It is used to measure the rise and fall of the amount (or percentage) of moisture in the soil. This is an ideal and low-cost agricultural tool for farmers that help to keep their plants healthier. It helps farmers with irrigation scheduling as soil moisture status can be measured instantly. Hence, for effective irrigation management the soil moisture level data is essential. There was 44.8% labour savings in irrigation compared to conventional practices. The quantity water required for irrigating vegetable was found to be 2ltr/day while for conventional method was 4 ltr/day. Farmers found it very useful. Thus SMI helped in saving water and reduced labour needed for irrigation. The yield increased multi fold compared to the conventional method. The equipment was found suitable for different types of crops.





ICAR-KVK Tumkur -1

Farmers interaction and filed visits in adopted village

ICAR KVK Tumkur 1 conducted Farmers interaction and filed visits in adopted village Tadasuru tiptur taluk on 12-05-2023 and KVK Scientist had a interaction with farmers regarding pre monsoon preparion, monsoon crop cultivation, nutrigarden, mushroom production, Production and value addtion of Banana, Mango, coconut and Arecanut crops and Importance of milletes etc.,and discussed the action plan/activities to be carried out during the year 2023-24.





ICAR-KVK Tumakur-II

Success story of Mushroom grower

Mrs. Renukadevi, 35 years old graduate woman is involved in mushroom production from last one year. She resides at Arakere village of Tumakuru taluk in Tumakuru district. Before starting mushroom cultivation, she used to prepare and sell paper bags, plastic wall hangings and garlands. But she was not happy with that due to low income and marketing problem. Then she thought of doing something new independently. After getting one day training at Krishi Vigyan Kendra, Hirehalli, Tumakuru, she established her mushroom production unit in her residence. Initially, she started producing oyster mushroom cultivation in small scale by getting spawn from KVK. .Later she attended a 25 days skill training programme on Mushroom grower under ASCI (Agriculture Skill Council of India) programme during 2019-20 at KVK. Then she established this mushroom production unit in a bigger way.

Initially she used to prepare 20-30 kg of mushroom per month. After training and guidance from our KVK, she is now producing 130-140 kg of mushroom per month. Now she is selling fresh mushroom both locally and sending to Bengaluru with the brand name of "White pearl". She is also producing oyster mushroom on buy back basis with the suppliers from Bengaluru.

Now she started to sell fresh mushroom in different melas organized by Government Organizations and NGO's. She started to give trainings to different SHG's members. After getting training from her, 3-4 members started producing mushroom in a small scale.

By selling mushroom monthly she is getting an income of Rs 18,000 - 20,000/-. She also created employment opportunity to two members. In future, she is planning to start value addition in terms of dried mushroom powder and other value added products. After several failures in mushroom cultivation, now she has become entrepreneur and mushroom production is the main source of income to her family.

Table 1: Production and Income details Before and After ASCI training programme

Mushroom Production (kg)		Annual Income (Rs.)		% increase
Before	After	Before	After	366.66
30	140	54,000	2,52,000	





ICAR-KVK Udupi

Honey Bee Farmer inaugural function

Keladi Shivappa Nayaka University of Agricultural and Horticultural Sciences, Shivamogga; Indian Council of Agricultural Research - Krishi Vigyana Kendra, Brahmavara, Udupi District; Agriculture Skill Council of India, New Delhi and Zonal Agriculture and Horticultural Research Station, Brahmavara jointly

organized a 25 days skill development training program on "Honey Bee Farming". The program was inaugurated on 27th March 2023 at ICAR - Krishi Vigyana Kendra, Brahmavara, Udupi District by Dr. Lakshmana, Associate Director of Research, Zonal Agricultural and Horticultural Research Station, Brahmavara. In his inaugural address he emphasized that, bee keeping is a good employment opportunity in rural areas of the district. Dr. Dhananjaya, B., Senior Scientist and Head, Indian Council of Agricultural Research - Krishi Vigyana Kendra, Brahmavara, Udupi Presiding over the session, presented overall information on importance of honey bee and bee keeping. Explaining the medicinal values of honey, the Principal of Diploma College of Agriculture, Brahmavara, Dr. K. V. Sudhir Kamath mentioned that the demand for honey is projected to be high in the future. Mr. Suresh Karkera, a progressive bee farmer, gave brief information on bee keeping practices. Dr. Sachin U. S. (Scientist, Plant Protection), Krishi Vigyana Kendra, Brahmavara, with an introductory talk welcomed the guests and trainees, while Remedia Presca D'Costa (Research Associate - Agriculture Entomology - Natural Farming), Zonal Agriculture and Horticultural Research Station, Brahmavara delivered vote of thanks.





ICAR-KVK Uttar Kannada

Diagnostic visit to improve productivity of a Farmer Dairy



Visited dairy farm of Mr. S H Hegade at Terakanahalli village Sirsi taluk to address the production and reproductive related issues. Comprehensive analysis of history on feeding, management practices and examination of animals, it revealed that excess feeding of concentrate, subclinical ruminal acidosis, lack of exercise and mineral and vitamins supplementation resulted in fattening anestrous and increased incidence of subclinal mastitis in the herd. Anestrous animals were treated using intra vaginal application of progesterone implants and timed AI. Suggested production requirements based feeding of TMR, inclusion of rumen buffers and probiotics to correct subclinical ruminal acidosis. Further, incorporation of multimineral vitamin mix @50-60 g and Trisodium citrate @20 g per animal and exercise to improve immunity and udder health.

ICAR-KVK Vijayapura-I

Training on importance of millets and value added products

ICAR-KVK-Vijayapur I organized one day on campus training programme on importance of millets and value added products of millets on 11.05.2023. Dr. Shilpa V. Chogatapur delivered the lecture on nutritional importance of millets in present scenario of food habits and also given information about different value added products of millets. Around 24 farmers from different Taluka of Vijayapura district were participated in the training programme.




A Scientist from KVK Vijayapur- 1 organized a DAESI class on 03.05.2023 on the topic, Ill effects of pesticides and their Safe use in Agriculture IAT Vijayapur. In this class Dr. Prakash H.T, Scientist (Entomology), highlighted the importance of IPM and misuse of pesticides and their ill effects on environment. In this class nearly 40 Agro input dealers were participated and got benefited. Scientist also highlighted the safe use of pesticides and Role of IPM practices to reduce the environmental pollution etc.




ICAR-KVK Vijayapura-II

Field Day on Pomegranate



A Field Day on Pomegranate (Demonstration of novel microorganism (Penicillium pinophilum) for nutrient management in Pomegranate) was organized in the orchard of Sri. Anil Pujari a progressive farmer from Tadavalaga village of Indi taluka. In Tadavalaga village 02 demonstrations were taken up SONAAR biomixture appliciaton which is worlds first time bio-formulation of Penicillium pinophilum developed by National Research Centre-Pomegranate, Solapur. Frontline demonstration conducted by Dr. Savita B. Scientist (Soil Science) in the month of November-2022 and demonstrated this technology by mixing of 3 kg Sonaar with 148 kg well decomposed FYM (maintain 60% moisture). After 10 days of inoculum apply 500g of mixture to each plant of Pomegranate as a soil application and provide sufficient irrigation and application should be two times in crop season, one during release of stress and another 3kg Sonaar mixture at 120 days after first application thus it helped in reduction of flower drops and increase in fruit size and gain weight of pomegranate. Sri. Anil Pujari, farmer expressed that by using Sonaar biomixture this time enhanced fruit setting in Sonaar applied plot compared to non application of Sonaar biomixture. In this field day around 33 farmers and 4 women farmers were benefitted by the programme.

ICAR-KVK Waynad

Initialising Sunflower cultivation in Wayanad

Skill Development Programme for leading integrated farmers in Wayanad district was implemented in KVK Wayanad with the financial help of NABARD. Master trainers group were formed by selecting 5 farmers each from Ambalavayal, Nenmeni, Moopainad and Muttil panchayats as suggested by the Department of Agriculture and ATMA. In the first phase of the project,master trainers were trained on various need based trainings like beekeeping, mushroom farming, animal husbandry, fisheries, feeder farming, sunflower farming, ginger and pepper- scientific farming techniques. Also distributed organic pesticides for farming, secondary micro element mix, mushroom spawn, BV380 chickens, sunflower seed, maize, fodder seeds and dragon fruit seedlings.

Seeing the interest of farmers in sunflower farming, sunflower seeds were given to farmers in Muttil Pozhuthana Krishi Bhavan under Kalpetta AKC and Panamaram AKC. As the farmers took up the forefront of sunflower farming, a huge breakthrough was made in sunflower cultivation in Wayanad. Many tourists visited these farmers fields to learn about sunflower farming and enjoyed the beauty of sunflower fields which opened possibility of agrotourism in the coming years for the farmers. KVK Wayanad congratulated each frontline farmers who worked hard to make the sunflower cultivation a success conducted on an experimental basis.





Helping hands to SC population under SCSP Project



KVK Wayanad conducted one day training and awareness programme on poultry rearing to SC farmers as part of SCSP programme.The programme aims on technological intervention to strengthen food, nutrition and livelihood security to scheduled caste beneficiaries through Integrated Farming approach. Dr. Deepa Rani C.V welcomed the gathering. Presidential address was delivered by Smt. Jayalalitha Vijayan, Ward 8 member, Nenmeni panchayath. Senior Scientist and Head, Dr. Safia N.E explained the aim of the project.The programme was inaugurated by Smt. Sheela Punchavayal Nenmeni Grama Panchayath President at Chittorkunnu belonging to Nenmeni panchayath. Classes on poultry rearing and its disease management was dealt by Dr. Deepa Surendran, SMS,KVK Wayanad. Distribution of BV-380 chicks were also done to the selected SC beneficiaries.Vote of thanks was delivered by Smt. Ashitha M. R, SMS, KVK, Wayanad.

ICAR-KVK Yadgir

ICAR – KVK, Yadgir organized 28 days Agriculture Skill training programme on garden keeping and management. 25 youths of Yadgir district actively participated and learnt the techniques of garden keeping. Hands on training on different propagation methods and different activities were given in nursery of ARS, Kawadimatti.





ICAR-KVK Raichur

MAITRI TRAINING PROGRAMME HELD AT RAICHUR

Under the RASHITRIYA GOKUL MISSION SCHEME, with supervision of Karnataka livestock development association with the support of BFIL-CSR ,MYRADA RAICHUR ,ICAR-KVK RAICHUR with all support of them inauguration programme has been started on 27th April 2023

Inauguration programme started on 27/4/23 at krishi vignan Kendra raichur

From 27/4/23 to 24/5/23 MAITRI are trained at in classroom by various veterinary doctors, scholars, and scientist of various departments ,In the MAÎTRE training classes mainly focus on about artificial insemination like History of AI, importance of AI, measures to be taken while doing AI ,how to do successful al ,male and female reproductive tract ,Exposure of female reproductive tract in live class

They also multipurpose workers along with AI so they take up Veterinary First Aid, Vaccinations, Agents For Livestock Insurance, Ration Balancing, Milk Recording, Data Entry In National Data Base, Exposure of Fodders and Seeds, Knowledge of Breeds of Cattle, Goats, Sheep, Pigs & Poultry. There will be total 23 days training programme has taken(115 theory classes) by the well knowledge on veterinary doctors, scholars ,and scientist, there also provided with smart class training showing of pictures ,videos, and presentations. MAITRI candidates taken for the exposure, at fodder fields agricultural university raichur and polyclinic raichur

Along with classes we conduct extracurricular activities for MAITRI like poster making on awareness of AI and vaccination for farmers, fun activities, explore the skill of MAITRI candidates. MYRADA Staff also took classes on COMMUNICATION SKILL AND PERSONALITY DEVELOPMENT. All candidates trained under uniform training module

After the completion of training evaluation test has been conducted for the MAITRI candidates to monitor the progress. At the end of training programme they provided with the CERTIFICATES and

UNIQUE IDENTIFICATION NUMBER are issued by the animal husbandry department and medicine kit provided by the BFIL-CSR MYRADA RAICHUR .Later they sent for the 2 months practical field exposure at their nearest places.





ICAR-KVK Shivamogga

Farm Mechanization and ICM in Ginger

ICAR – Krishi Vigyan Kendra, Shivamogga organized a capacity development programme on Farm Mechanization and Integrated Crop Management in Ginger crop on 14th of May 2023 for Agriculture input dealers of Shivamogga district. During the programme, Dr. Basavaraja, Scientist, Agronomy briefed the participants on the scope and importance of farm mechanization. Utility of various farm implements and machineries in Agriculture and Horticulture crops were also explained for saving labour, time, seed and fertilizer cost thereby to reduce the cost of cultivation.

Dr. Bharathkumar, Scientist (Horticulture) delivered a lecture on Integrated Crop Management in Ginger crop that included the importance, varieties, cultivation practices, nutrient management and management of major disease pests. Information on organic cultivation of the Ginger was also provided in the programme. Totally, 48 input dealers of Shivamogga districts benefitted from the programme regarding benefits of farm implements and machines in agriculture, judicious farm practices and use of chemicals in the cultivation of Ginger crop.



Historical Places in Vijayapura



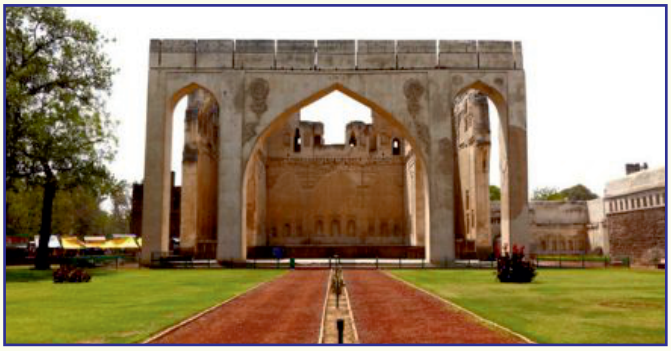
Almatti Dam



Asharmahal



Golgumbaz



Gaganmahal



Barakaman



Shivagiri



Uppaliburaz



Ibrahim Roza

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