

KVK TIMES

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

Vol 2 Issue 01 1-15 July 2023



ICAR - Krishi Vigyan Kendra - Alappuzha

ICAR-CPCRI, RS, Kayamkulam



ICAR - Agricultural Technology Application Research Institute

Zone - XI, MRS, HA Farm Post, Bengaluru





Patrons

Dr. V.Venkatasubramanian
Director, ICAR-ATARI, Bengaluru

Dr. K. Balachandra Hebbar
Director, ICAR-CPCRI, Kasaragod

Compilation & Editing

Dr. P.Muralidharan
Principal Scientist and Head

Sri. Rajeev M.S.
SMS (Agronomy)

Sri. K.M. Ansary
Program Assistant (Computer)
ICAR-KVK-Alappuzha

Published by

ICAR-KVK-Alappuzha
on behalf of
ICAR-ATARI Zone - XI, Bengaluru



हर कदम, हर उगर
किसानों का हमसफर
भारतीय कृषि अनुसंधान परिषद

*Agri*search with a human touch



MESSAGE



Phone (Off) : 04994 - 232333
Fax : 04994 - 232322
EPABX : 04994 - 232893 - 95
04994 - 232090; 04994 - 232996

भाकृअनुप - केन्द्रीय रोपण फसल अनुसंधान संस्थान
कासरगोड़, केरल - 671 124 भारत

ICAR - Central Plantation Crops Research Institute

Kasaragod - 671 124, Kerala, India
(An ISO 9001:2015 Certified Institution)



E-mail : director.cpcri@icar.gov.in
directorepcri@gmail.com
Website : <https://cpcri.icar.gov.in>



डॉ. के. बालचंद्र हेब्बार
निदेशक

Dr. K. Balachandra Hebbar
Director

I feel proud and immensely happy to congratulate the ICAR-KVK-Alappuzha, for taking on the responsibility of publishing this edition of KVK Times on behalf of the Zone-XI of 48 KVKs.

Dissemination of modern agricultural knowledge and technologies, especially those foreseeing climate change aspects and linking the farming community and agricultural scientists to improve crop productivity, is important. In the peninsular and island regions, where agriculture plays a significant role in the livelihoods of large masses of people, extension services are crucial for ensuring sustainable agricultural development and rural prosperity. By providing timely technical assistance, training, and access to the latest technologies to these farmers, such support not only leads to increased agricultural productivity, better income for farmers, and improved food security, but also nutritional security for future generations.

KVK- Alappuzha, in collaboration with the Local Self-Government and the Agricultural Department of Kerala, is deeply penetrating the farmyards of rural communities. They were successful in changing the average mindset to adopt new technologies and increase livelihoods, doubling income levels. The glory of the Best KVK Award of 2016-17 kept them continuously shining and convincing the stakeholders throughout. Dr. P. Muralidharan and his team, as well as the scientists of CPCRI, Regional Station, Kayamkulam, are deserving of appreciation in this regard.

As per the recently held meeting of the G20 nations in Hyderabad, it is our commitment to global citizens to ensure food and nutritional security by adopting a climate-smart approach for the production of food grains and millets. Thus, the efforts of KVKs highlighted in the pages of this e-publication depict the grass-roots-level activities of the member KVKs in this line. It is more so in view of unexpected natural calamities like rain and floods as well as droughts because of changing climates.

Dr. V. Venkatasubramanian, Director, ATARI, Zone-XI, is the man supporting planning and targeting focused farm science outreach and research by taking region-specific issues into action. His backing of KVK ventures is pivotal, leading to success. Therefore, the credit, including this team effort of bringing out the fortnightly newsletter, also goes to him. I wish each and every KVK in the Zone to reflect this attitude to boost the morale of their staff and help them take action among the farming communities to bring about progress in the country.

K. Balachandra Hebbar
Director, ICAR-CPCRI



MESSAGE



ICAR-Agricultural Technology Application Research Institute, Zone XI

भा.क.अनु.प.- कृषितकनीकीअनुप्रयोगअनुसंधानसंस्थान, जोन XI

MRS, HA Farm Post, Hebbal, Bengaluru 560 024

एम.आर.एस, एच.ए. फार्मपोस्ट, हेब्बाल, बेंगलुरु ५६० ०२४

Fax: +91-80-23410615

Email: director.ataribl@icar.gov.in

Dr. V. Venkatasubramanian

डॉ।वी।वेंकटसुब्रमण्यन

Director

निदेशक

KrishiVigyanKendras are playing pivotal role in handholding of farmers through technological backstopping for enhancing the productivity of crops and enterprise keeping in mind profitability and sustainability. 'Believing through seeing' and 'Learning by doing' is most appropriate to the KVKs, as the Scientists and farmers are jointly involved in implementing KVK mandated activities to reach the mission of enhancing the farmers income. KVKs are expanding the horizon from elite extension to innovation, market linkage, FPOs, processing and value addition. 48 KVK's in Zone XI of ATARI placed in states of Kerala, Karnataka and Lakshadweep Union Territory has immensely contributed in enhancing agriculture productivity and farmer income thus ensuring sustainable social and livelihood security of farm families.

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

I am happy that KVK-Alappuzha is bringing up the first issue of second volume of KVK TIMES covering the first fortnight of July, 2023. I congratulate the KVK fraternity of Zone XI specially Dr.P.Muralidharan, Principal Scientist and Head and his team of KVK-Alappuzha for bringing out this unique edition of KVK Times.

Bengaluru

14.07.23


(V Venkatasubramanian)





आज़ादी का
अमृत महोत्सव

भा.कृ.अनु.प. - कृषि विज्ञान केन्द्र - आलप्पुझा
भा.कृ.अनु.प. - केन्द्रीय रोपण फसल अनुसंधान संस्थान
प्रादेशिक केन्द्र, कृष्णपुरम (डाक), कायमकुलम,
केरल 690 533, भारत



आज़ादी का
अमृत महोत्सव



ICAR-KRISHI VIGYAN KENDRA - ALAPPUZHA
ICAR-CENTRAL PLANTATION CROPS RESEARCH INSTITUTE
REGIONAL STATION, KRISHNAPURAM P.O., KAYAMKULAM-690533, KERALA, INDIA

Email: kvk.Alappuzha@icar.gov.in, kvkalapuzha@gmail.com

Tel.: 0479-2449268, 2959268, 9447790268 Website: <http://www.kvkalappuzha.icar.gov.in>



DR. P.MURALIDHARAN
Principal Scientist and Head



ACKNOWLEDGEMENT

It gives me immense pleasure to bring out the first issue of the Vol. II of the KVK Times, a fortnightly e-publication covering the salient activities and achievements of the KVKs of Zone XI, under the dynamic leadership of the Director, ICAR-ATARI, Bengaluru. We were fortunate enough to publish the first ever issue of this prestigious compilation in July, 2021 with the tagline, "A window to KVKs of Zone XI, ICAR-ATARI, Bengaluru" which has drawn the attention and appreciation of many including the authorities of ICAR. This e-publication, while documenting the spectacular activities and innovations of all the 48 KVKs in the Zone, provides an excellent opportunity for cross learning among them.

We would like to place on record our wholehearted gratitude to Dr. V. Venkatasubramanian, Director, ICAR-Agricultural Technology Application Research Institute, Bengaluru for his idea and vision of this publication and the constant motivation and encouragement to the KVKs for achieving newer heights.

The support and care provided by Dr. K. Balachandra Hebbar, Director, ICAR-Central Plantation Crops Research Institute, Kasaragod as the leader of our host organization inspires and empowers us to perform better to attain his vision of serving the farming community and bringing prosperity to the nation.

I would like to acknowledge with gratitude all the KVKs of Zone XI who shared their activities for including in this publication. Our heartfelt thanks extended to Dr. D. V. S. Reddy, Nodal Officer of this KVK for his guidance. All members of the Team-KVK-Alappuzha deserve appreciation for their involvement and contribution to compile and bring out this issue within the time frame.

Hope this endeavor would serve the purpose intended

P.Muralidharan



CONTENTS

1	ALAPPUZHA	5	31	MANDYA	30
2	BAGALKOTE	7	32	MYSURU	31
3	BALLARI	8	33	PALAKKAD	32
4	BELAGAVI-I	8	34	PATHANAMTHITTA	32
5	BELAGAVI-II	9	35	RAMANAGARA	33
6	BANGALURU RURAL	10	36	THRISSUR	34
7	BIDAR	11	37	THIRUVANANTHAPURAM	34
8	CHAMARAJANAGAR	12	38	TUMAKURU-I	35
9	CHIKKABALLAPURA	12	39	TUMAKURU-II	36
10	CHIKKAMAGALURU	13	40	UDUPI	37
11	CHITRADURGA	14	41	UTTARA KANNADA	38
12	DAKSHINA KANNADA	15	42	VIJAYAPURA-I	39
13	DAVANAGERE	16	43	WAYANAD	40
14	DHARWAD	17			
15	ERNAKULAM	18			
16	GADAG	18			
17	HASSAN	19			
18	HAVERI	20			
19	IDUKKI	20			
20	KALABURGI-I	21			
21	KALABURGI-II	23			
22	KANNUR	23			
23	KASARGOD	24			
24	KODAGU	24			
25	KOLAR	25			
26	KOLLAM	26			
27	KOPPAL	26			
28	KOTTAYAM	27			
29	KOZHIKODE	28			
30	MALAPPURAM	29			



ALAPPUZHA

Agro Processing Training cum Incubation Centre (APTIC) of the KVK creating impact

The Agro Processing Training cum Incubation Centre (APTIC) functioning at KVK-Alappuzha since 2019 is creating significant impact among the entrepreneurs, farmers and rural youth especially women, who could pragmatise their ideas in processing of agro-produce and value addition for setting up enterprises, directly and indirectly benefiting the farming community. The facilities were established and developed with the financial support from Government of Kerala, projects like i-STED and SMAM, and revolving fund activities of the KVK. The centre has machineries and facilities like Retort, Hot air drier, Pulveriser, Pasta Extruder, Dough Mixer, Pulper, Fruit pulper, Sautiner, Vegetable cutter, Rice huller, band sealer, Deep freezer, RO water unit, Multipurpose drier and a separate Coconut processing unit with all the equipments for coconut processing viz., Coconut de-sheller, Coconut testa remover, scraper, Wet pulveriser, VCO cooker, stainless steel screw press, Uruli roaster, and Coconut milk extractor. Hands-on-Trainings in processing and value addition of various produces like coconut, jackfruit, papaya, pineapple, banana, vegetables, millets etc were extended to 548 men and 571 women in the centre for the last 4 years (2019-22) and the outcome is as follows:

Sl. No	Produce	No. of programmes	Duration (days)	Participants		Total	No. of units established
				Men	Women		
1.	Coconut	18	2-3	250	152	402	20 VCO units
2.	Papaya	6	2-3	51	69	120	10
3.	Jackfruit	16	1-4	116	218	334	32
4.	Sesamum	1	1	1	18	19	-
5.	Rice	2	1-2	21	14	35	18
6.	Banana	6	1-2	84	58	142	15
7.	Garcinea	1	1	9	18	27	1
8.	Millets	2	1	15	19	34	4
9.	Passion fruit	1	1	1	5	6	1
Total		53		548	571	1119	101



This APTIC functions as a nodal training centre for Department of Agriculture and Farmers Welfare, State Industries department, VFPC, Kerala State Poverty Eradication Mission (Kudumbasree), NGOs, and Farmer Producer Organisations (FPOs). This centre has facilitated students of Food processing and Food industry for taking up their project work and dissertations. The centre attracts farmers and entrepreneurs not only from Kerala but from other states also. Every year one or two batches of tribal volunteers from Odisha attend capacity building programmes in the centre with the support of NGOs, NABARD, and State Government.

Incubation facilities were also extended to the partners on their first step in the processing industry. The centre provides support in the form of technical guidance in preparation of project proposals, and to obtain FSSAI registration and legal metrology licences. The incubation facilities were utilised by more than 45 farmers so far, preparing products worth Rs.16.025 lakhs. The details of products prepared from the facilities of APTIC are as follows:



Crop/Produce	Products prepared	Quantity (kg)	Value of products (Rs, Lakhs)
Coconut	Virgin coconut oil	250 L	2.50
	Chutney powder, Instant curry mix	350	1.40
	Copra dried	300	0.27
Garcinia	Garcinia pulp	300	0.60
	Jackfruit	500	1.25
Jack Fruit	Jackfruit pulp	500	1.25
	Jackfruit dried	600	3.00
Banana	Banana dried	400	1.60
	Ripened banana dried	150	0.45
Vegetables	Vegetable dried	95	0.38
Fruits	Different fruit juices	2500 L	3.75
	Different fruit jam	125	0.375
Ready to eat	Payasam retorted	150	0.45
Total			16.025

Thus the APTIC in KVK–Alappuzha functions as a knowledge, resource, and skill training centre in the true sense and supports the livelihood and economic improvement of thousands of farm families. The trust and enthusiasm of farmers inspires the KVK to take successful journey forward.

(Jissy George, SMS (HS) and P. Muralidharan, Head)

Climate resilient shelters for goats and poultry getting widely adopted in Kuttanad

Kuttanad region, which geographically lies below Mean Sea Level (MSL), experiences water logging in the monsoon seasons for almost four to six months every year. This creates severe setback for the animal husbandry sector in the region as the farmers are forced to sell their goats and poultry to avoid loss due to flood water, and buy back after the water level recedes. This creates a panic situation every year in turn affecting the financial status of the farmers. Since 2011 as part of the “National Innovations in Climate Resilient Agriculture (NICRA)” project implemented by KVK-Alappuzha in Kuttanad region, several technologies were demonstrated to address the issues on feed, breed, disease and shelter management of livestock and poultry. Of this, climate resilient elevated goat sheds, poultry cages and floating duck shelters were extremely useful for the farmers to tide over the situation.



A custom designed goat shed of 6 m² floor area to accommodate 10 goats, fixed at 4 feet height from the ground level which was fabricated with materials like PVC pipes, square tubes, chain links and shade net, was ideal as a household unit. The average cost of fabricating this structure was Rs.30000/- which could easily be recovered in a year time with 10 goats. The average net income from this unit of 10 goats was worked out to be Rs.35000/- annually on account of the reduced mortality and better growth of the animals. The cages even withstood the infamous flood in 2018 and now getting very popular among the farmers. When about 90 such goat sheds were demonstrated in three panchayaths as part of the NICRA project during the last decade, another 150 similar cages were constructed by farmers themselves.

Floating duck shelter was another innovation widely adopted by the farmers of Kuttanad region. This shelter made up of PVC pipes and GI pipes and fixed over the air tightened plastic barrels, floats on water bodies and thus protects the birds from flood. This structure, tethered on the shore using a rope, can be pulled

near the bund for feeding and watering and then can be let floating free in the water bodies. This system of management not only protects the birds from flood but from predators also. Shelter of 8 x 5 x 7 feet size is good enough for housing 40 birds. The droppings from the floating cages enrich the pond for the growth of plankton and in turn reduce the feed cost of fishes by 50%. About 10 such floating duck shelters were demonstrated as part of the project but another 15 were done by farmers themselves.



Similarly climate resilient elevated poultry cages to accommodate 20-25 birds were demonstrated at homesteads which could overcome the water logging and mortality due to diseases and inadequate aeration compared to the conventional cages. With these cages costing around Rs.15,000/-, housewives could maintain their birds throughout the year and earn a reasonable income on a daily basis. About 150 such cages were demonstrated in different locations but double the numbers of cages are established in households of the region.

Thus the climate resilient cages for goats and poultry are getting popular in Kuttanad region which are replicated by the farmers in other parts of the district also.



(S.Ravi, SMS (AH) and P. Muralidharan, Head)

BAGALKOTE

Awareness Programme on Weather based Agriculture



An awareness programme was conducted on 01.07.2023 to Farmers of Bagalkote district at KVK Bagalkote. A total of 31 members participated and got benefit of this programme. Mr. Basavaraj Nagaleekar (SMS Agrometeorology) explained about objectives of GKMS project, details about DAMU and weather based agro-advisories. Also explained importance of automated weather station in agriculture and weather related mobile applications like Meghdhoot, Damini and Mausam.

Programme on National Mega Conclave for FPO Cooperatives – "Strengthening PACS through FPOs"

National Cooperative Development Corporation (NCDC) organized one-day programme on National Mega Conclave for FPO Cooperatives – "Strengthening PACS through FPOs" on 14.07.2023 (Friday) at International Exhibition and Convention Hall, Pragati Maidan, New Delhi. The programme was inaugurated by Shri Amit Shah, Hon'ble Union Minister of Home Affairs & Cooperation, Government of India. The programme was organized at Pragati maidan, New Delhi.

Mr. Sunil Lamani (Agromet observer), KVK Bagalkote participated in the programme at New Delhi and got benefitted from this programme. More than 500 members from different CBBOs and FPOs across the country participated in this programme.



Live telecast of National Mega Conclave for FPO Cooperatives – "Strengthening PACS through FPOs" was also organized at KVK Bagalkote for FPO members and farmers. The programme was coordinated by Dr. Siddappa C Angadi, Sr. Technical Officer and Mr. Basavaraj Nagaleekar (SMS Agrometeorology). More than 15 farmers and farm women from Shri Renuka FPO, Bagalkote participated and got benefitted from this programme.



BELLARI

Celebrated IYOM 2023 by organising millet recipe contest

Thirty farmwomen participated in a millet recipes contest organised by the ICAR-KVK, Ballari at Belagal village of Ballari taluk on 12.07.2023 as part of the International Year of Millets.

A six-member panel, comprising ICDS Supervisor Smt. Sumangalamma, President of Gram Panchayat, Shri Palakshi gouda, Panchayat Development Officer, Sri Prabhu, Head master of Primary school Shri Anjineya and Rangamma an old lady from the village and Scientist (Home Science) Dr. Shilpa H judged the contest, which featured recipes such as bajra tambittu, ragi masala roti, little millet khichdi, foxtail millet bisibele bath etc. Based on scoring of judges on different parameters, winners were selected and awarded with prizes and certificates.

During the programme Senior Scientist and Head of KVK Dr. Govindappa MR, highlighted the importance and impact of millet cultivation on environment. Dr. Ravi S, Scientist (Soil

Science) addressed the farmers on high yielding millet varieties available in the University. Dr. Shilpa H highlighted the importance of millets in the daily diet. Dr. Amit, SMS (Meteorology) gave lecture on the importance of weather forecasting and Damini app. Along with the millet recipe contestants 50 millet growing farmers also took part and got benefitted from the programme.



BELAGAVI - I

Agri-Skill Council of India sponsored training on 'Fresh Water Aquaculture Farmer'



ICAR-BIRDS Krishi Vigyan Kendra, Belagavi-1 has conducted 5 days training programme on 'Freshwater Aquaculture Farmer' for 30 Scheduled Caste and Tribe participants from 10th to 14th July, 2023. The programme was inaugurated by KVK Chairman Sri. R. M. Patil and in his presidential address quoted that young farmer must think of adapting new technologies in aquaculture.

Dr. Dattu Mehre, Senior Scientist & Head of the KVK had addressed the participants and requested participants to use the KVK expertise and infrastructure for the betterment. Mr. Adarsha. H. S, Fisheries Scientist has briefed about the structure of training programme and assessment process. Trainees have undergone pre-assessment.



During the 2nd Day training programme, farmers were trained different freshwater aquaculture species and their culture aspects were also delt. Third day of training programme was dedicated to practical learnings of fish seed production, grow out production and fish retailing at KVK campus. Fourth day of the training programme was given importance to preparation for

the assessment. Meanwhile, Biofloc and RAS method of fish farming were dealt for the benefit of KVK. The final day of training, Assessors from Agriculture Skill Council of India have conducted assessment. Both theory and practical assessment were carried out. Thus five day training programme concluded and awaiting for the results.

BELAGAVI - II

Exposure visit of DAESI dealers

An exposure visit to Kittur Rani Channamma College of Horticulture, Arabhavi organic farming unit at Kallolli and integrated farming system unit at Pamaladinni was organized to Diploma in Agricultural Extension Services for Input dealers (DAESI – 4th batch) on 6 July 2023.

During the exposure visit, DAESI participants visited the commercial ornamental and floriculture blocks developed in the campus of Kittur Rani Channamma College of Horticulture and Dr. Pallavi G., Assistant Professor interacted with DAESI students and highlighted techniques of seedling raising, production technology and precautionary measures to be taken in production/ cultivation techniques of different ornamental/ floriculture crops. The team then visited organic farming field developed by Shri Ramesh Khanagoudar a progressive farmer

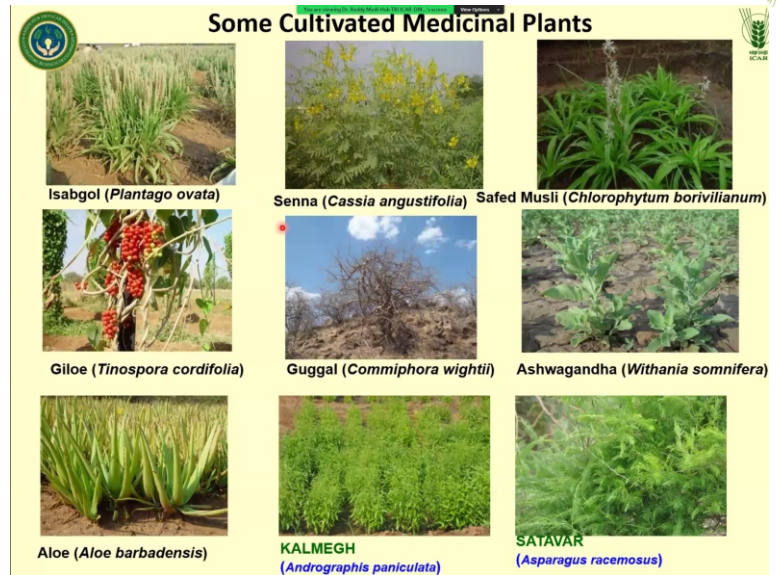
and Krishi Pandit awardee. The farmer briefed the visitors on importance of organic farming and his experiences in cultivation of crops under organic farming. He shared methods of preparation of vermicompost using farm waste, development and use of bio-digester unit, compost preparation and use of bio-fertilizers. He also explained chemical free cultivation practices of turmeric, sugarcane, chilli, palak, their marketing and economics.

The team further visited Integrated Farming System field of Shri Sannayamunappa Rajapure at Pamaladinni. The farmer briefed on cultivation of millet, oil palm and fodder crops besides development of goat farming unit and economical benefits from these units. Smt. Suneeta Patil, Facilitator lead DAESI team during one day exposure visit.



Online training programme on Medicinal and aromatic

Praveen Yadahalli, Scientist (Horticulture) attended 10 days online training on “Entrepreneurship Orientation Programme in Medicinal and Aromatic Plants” organized by Medi-Hub, Technology Business Incubator, ICAR-Director of Medicinal and Aromatic Plants Research, Anand, Gujarat. The training focused on Good Agricultural and Collection Practices (GACP) for Medicinal & Aromatic Plants, scenario of medicinal and aromatic plants in India, prospectus of business development, pitching for funding, soil less cultivation, value addition, post harvest management, nano technology, quality testing, invitro production, use of ICT and packaging materials used in business development of medicinal and aromatic plants.



BENGALURU RURAL

Training programme on FLD-Redgram

ICAR-Krishi Vigyan Kendra, Bengaluru Rural District organized training programme on Integrated crop management in Redgram on 05.07.2023 at Jakkannahalli village of Nelamangala taluk.

Dr. J. Venkate Gowda, Scientist (Agronomy) explained the integrated crop management practices in Redgram and advised the farmers to use wilt and sterility mosaic disease resistant variety BRG-3 and conducted method demonstration on Seed treatment with Rhizobium (400 g) and Trichoderma (400 g). Further, he explained the importance of nipping method in redgram at 60 days after sowing to get good number of branches and yield. He suggested to spray pulse magic (10 g/l) at the time of flowering and pod bearing stage to reduce the flower drop and use pheromone traps (10/acre) and spinosad (0.25 ml/l) to



control the pod borer problem.

Dr. Hanumantharaya, B.G., Senior Scientist & Head, Dr. Ramegowda, H.V., Dr. Dharshini. Mrs. Meghana, Scientists, KVK, Bengaluru Rural and 45 farmers and farm women participated and benefitted from the programme.

Technical information on Finger millet and Redgram

ICAR-Krishi Vigyan Kendra, Bengaluru Rural District organized a training programme on new technologies in Finger millet and Redgram on 07.07.2023 at Doddarayappanahalli, adoptive village of KVK, Bengaluru Rural District.

Dr. Hanumantharaya, B.G., Senior Scientist and Head, KVK, Bengaluru rural explained the different developmental programmes planned to be organized at adopted village and also suggested to the farmers for the adoption of climate resilient technologies in their fields.

Dr. Venkate Gowda, J., Scientist (Agronomy) advised to use blast and drought tolerant variety ML-365 in Ragi and sterility mosaic disease resistant variety BRG-5 in Redgram and demonstrated 'Seed treatment' with Azospirillum (400 g) in Ragi and with Rizobium, Trichoderma (400 g) in Redgram and he suggested to follow line sowing for getting good yield and for easy inter-cultivation operations.

Dr. Dharshini, G.M., Scientist (Plant Protection) explained the Integrated pest and disease management in Finger millet and

Redgram. Spray of Trisyclozal (1 g/l) to control the blast disease in Ragi and spray of spinosad (0.25 ml/l) or Rinaksifor (0.3 ml/l) to control the wilt in Redgram.

Finger millet (10 Kg) and Redgram (1 kg) were distributed to 110 farmers and farmwomen under village adoption programme. Scientists and staff of KVK and 110 farmers/farm women were participated and benefitted from the programme.



BIDAR

Joining hands to forest department for greenary

In Bidar district, Forest department is aimed to plant 5 lakhs saplings to expand the forest area of the district during current year. ICAR-KVK Bidar had joined hands with the forest department for planting various saplings during first fortnight of July 2023. To support the programme, a team of scientists have participated in the programmes organized at Schools & Farmers groups in different villages of the district. The farmers and students were briefed about the scientific planting, biodiversity, management & maintenance of various saplings. In some of the schools and colleges involving students 2500 seed balls were prepared during the occasion. The prepared seed balls will be spread in roadside and barren lands around their villages during the rainy days.



CHAMARAJANAGAR

Digital Agriculture- A small step towards Sustainable Agriculture

A farmer awareness programme was conducted by DAMU, ICAR KVK Chamarajanagara in collaboration with Weather Risk Management Services (WRMS) private limited on 07.07.2023 at Vyasamplaya village in Hanuru taluk. Mr. Vishwanath, President of Muttettaraya Farmers Producer Organization inaugurated the programme. Mr. Rangaswamy, CEO, Muttettaraya Farmers Producer Organisation highlighted the significance of weather based agro advisories in crop management, different activities carried out by the FPO and future vision of FPO for the betterment of farming community. Mr. Rajath H. P. SMS (Agromet) briefed about the activities of District Agro Met Units (DAMUs) in Krishi Vigyan Kendra, measures to be carried out to minimize the weather impact, agricultural practices to be followed & adopted timely owing to the weather conditions to avoid damage by pests and diseases in different crops such as banana, onion, and turmeric.

Mr. Karthik Kumar, Senior Manager, WRMS explained about the automatic weather station installed in the farmer's field, applications of plot level weather forecasts, weather based agro-advisories provided through the SecuFarm app and

demonstrated the same. Mr. Siddesh, Extension Officer, WRMS explained the procedure of soil sampling, GPS location linkage to the farmer's field and suggested application of fertilizers based on the soil test report to various agricultural and horticultural crops. Mr. Adarsh N., Agromet Observer, enlightened the importance of Meghdoot and Damini applications through a demonstration. Ms. Shruthi, Field officer, WRMS, extended vote of thanks to all the participants during the programme. In total, 38 farmer and farm women participated in the programme.



CHIKKABALLAPURA

Method demonstration of seed treatment with bio fertilizers was carried out by KVK, Chikkaballapura at Kamaganahalli village of Gouribidanur taluk on 01.07.2023. Dr. Vishwanath, Scientist (Agronomy) explained about the importance of seed treatment with bio fertilizers. Dr. Sandhya K, Scientist (Soil Science) demonstrated the seed treatment procedure.

Certificate distribution programme for Diploma in Agricultural Extension Services for input Dealers (DAESI) was organized by ICAR-Krishi Vigyan Kendra, Chikkaballapura in collaboration with College of Sericulture, Chintamani on 04.07.2023. Dr. V.L. Madhu Prasad, Director of Extension, UAS, Bangalore, Dr. Nanja Reddy, Dean of Student Welfare, UAS, Bangalore, Dr. P. Venkataravana, Dean, College of Sericulture, Chintamani along with other dignitaries inaugurated the programme. Dr. V.L. Madhuprasad emphasized on role of input dealers in dissemination of technologies. Dr. Papireddy, Senior Scientist and Head addressed the DAESI candidates and insisted for regular visits to farmers' fields and contacting the scientists for technical guidance. Certificates were distributed for three DAESI batches.

Scientists of KVK, Chikkaballapura along with agriculture department officials visited the maize fields infested with fall army worm at Hanumantapura village of Gudibande taluk on 05.07.2023. Dr. Papireddy, Senior Scientist and Head explained about incidence of fall army worm. Dr. Swathi, Scientist (Plant pathology) explained about symptoms and integrated management practices of fall army worm in maize.

Off campus training on use of waste decomposer in management of sericulture waste was carried out by KVK, Chikkaballapura on 07.07.2023 at Appegowdanahalli village of Sidlaghatta taluk. Dr. Tanweer Ahmed, Scientist (Agricultural Extension) explained about the importance of waste decomposer in seri waste management.



CHIKKAMANGALURU

Jackfruit Mela-2023

ICAR Krishi Vigyan Kendra, Chikkamagaluru has organized two days Jack Mela-2023 on 08.07.2023 and 09.07.2023 at Chikkamagaluru taluk and district.

Dr. Krishnamurthy, A. T., Senior Scientist and Head, Krishi Vigyan Kendra, Chikkamagaluru, in his introductory speech said that Jack Mela-2023 was organized in collaboration with the development departments. Jackfruit, a fruit that was grown in the forest for centuries, was brought from the forest to the field. Further, enlightened that, more than 72 types of jackfruit varieties are there in Chikkamagaluru district but their conservation is not being done and advised the farmers to make utilize of this Jack Mela.

Sri. Thammaiah, Member of Legislative Assembly, Chikkamagaluru, has inaugurated the programme by lightning the lamp and encouraged the farmers to grow jackfruit as a main crop and advised to make utilize of this Jack mela-2023 by adopting new developed technologies and varieties.

Dr. Hemla Naik, Director of Research, KSNUAHS, Shivamogga briefed about importance of jack fruit in worldwide and enlightened the participants to make use of this mela to enhance the knowledge about Jack varieties. Further, advised the farmers for organic and natural farming to minimize the production cost and nowadays soil fertility is declining as a result of this productivity is also reducing and advised the farmers to follow climate smart agriculture.

Dr. K.T. Gurumurthy, Director of Extension, KSNUAHS, Shivamogga, in his Presidential remarks said that, Jackfruit cultivation is beneficial for economic development. Many varieties of jackfruit products are available in the market. Further, they advised the farmers to give more importance on value-added products of jackfruit from this farmer can gain additional income, which also benefits the farming community in general and the nation as whole.

On this occasion Dr. Hemla Naik, Director of Research, KSNUAHS, Shivamogga and Dr. K.T. Gurumurthy, Director of Extension, KSNUAHS, Shivamogga has released the technical folders related to Jackfruit cultivation practices and Jackfruit

value added products.

Dr. Shivaprasad, ADE, ZAHRS, Mudigere, Narayan. S. Mavarkar, Dean, COH, Mudigere, Dr. K. Yathiraj, Deputy Director of Horticulture, Chikkamagaluru, Sri. Sachchinanda, Technical advisor, Jackfruit Growers Association, Sakkarayapatna, Sri. Kumaraswamy, Progressive Farmer, Kunnalu, Kadur taluk and Sri. Balakrishna Gowda, President, Planters Association, Mudigere were also participated as chief guests in the programme.

In Technical sessions, Dr. Shyamamma, Head, Department of Biotechnology, GKVK delivered the lecture on scientific cultivation practices, newly developed technologies and varieties of Jackfruit like, Swarna, Bhairachandra and showed demo in grafting, Jackfruit nursery, fertilizer recommendation, irrigation scheduling and nutritional importance of jackfruit.

Sri. Sachchidananda, Technical Advisor, Jackfruit Growers Association, Sakkarayapatna, delivered lecture on Cluster and Farmers producers' organization (FPO) formation and value-added products of Jack fruit and their demand in marketing.

Second day on 09.07.2023 there were two technical sessions were organized. Sri. Shivanna, President, Parivarthana NGO, Sakarayapatna, delivered the lecture on importance and scope of jackfruit in worldwide and briefed about value added products their packaging materials and shelf lives and their marketing strategies.

Dr. Kantharaj. Y. Assistant professor, College of Horticulture, Mudigere, briefed about nutritional importance of jackfruit, scope of jack in other countries, marketing strategies and explained about the preparation of value-added products like, Jam, Cake, sweets and Biscuits.

In the exhibition fruit products like Biscuits, Jams, chips and other jackfruit dishes at the mela were displayed in the exhibition and the different varieties of jackfruits plants and value-added products of jackfruits were marketed.

Around 3000 farmers were participated on two days programme and got benefit out of this.



CHITHRADURGA

Farmers- Scientist interaction meeting

An interaction meeting of Farmers and Scientists was organized at Kaluvehally village of Challakere taluk on 01-07-2023 to discuss about the status of various Kharif crops. Representatives of various line departments like, Krishi Vigyan Kendra, Department of Agriculture, Department of Horticulture, Department of Sericulture, Department of Social forestry were involved in the programme

The programme was inaugurated by Mr. Raghuramurthy.T., Hon'ble MLA, Challakere. During his inaugural speech he discussed about the problems in releasing the crop insurance amount to the farmers account. He also suggested the officials of department of Agriculture, Chitradurga to look into the issue and make the payments at the earliest.

Mrs. Divya Prabhu, The Deputy Commissioner, Chitradurga district was participated as Chief guest, during her interaction with the farmers she promised to solve the problem of crop insurance by constituting a committee to rectify the various issues related to release of crop insurance amount.

Dr. O. Kumara, Sr. Scientist and Head, KVK discussed about various cultivation aspects of groundnut crop such as suitable

varieties, time of sowing, seed rate, seed treatment, spacing, intercultural operations, weeding and harvesting, yield, post-harvest management practices. He also briefed about the importance of gypsum application in groundnut to increase the yield levels and to boost the productivity.

Dr. S. Onkarappa, Scientist (Plant protection), discussed about the integrated management of pest and diseases of ground nut crop such as thrips, aphids, root grub, leaf minor, leaf eating caterpillars etc.

Around 300 farmers from various villages of Challakere taluk have participated in the programme.



National Fish Farmers day-2023

In order to celebrate "National Fish Farmers day-2023" and to honour industry professional and other state holders, ICAR-Krishi Vijyan Kendra, Chitradurga in collaboration with Fisheries department, Chitradurga organized a programme at its premises on 10-07-2023.

Initially the Programme was started with invocation and National Anthem further, all the dignitaries on the dias inaugurated the programme by releasing/leaving fingerlings in

to the aquarium. Mr. Kumaraswamy, Dupty Director, Fishery Department, Chitradurga in his keynote, addressed about the origin of world fisheries day which basically emphasized on sustainable development of fisheries. He also stressed on recent trends on aquaculture, water management and fish foods.

Dr. Suresh Ekabote, Assistant Director of Research, ZAHRS, Hiriyur in his inaugural speech briefed about the importance of fish oil to human health as it contains omega-3 fatty acid. Fish still remains the biggest source of omega 3 fatty acids which is very beneficial to the human heart and brain. Omega 3 is not produced in the human body and it can only be gotten from an external source. Fish is a great and healthy source of nutrients.

Dr. O. Kumara, Senior Scientist and Head, ICAR-KVK Chitradurga, addressed the gathering about practicing Fish farming as subsidiary occupation along with agriculture. With proper planning and good management fish farming could be a good profit to farmers.



DAKSHINA KANNADA

Orientation Programme for Extension Workers

ICAR- KVK,Dakshina Kannada organised an orientation programme for the extension workers of the reputed NGO, SKDRDP, Dharmasthala at centre for rural excellence, Laila, Belthangady on 06.07.2023. Dr. T. J. Ramesha, Senior Scientist and Head briefed in his deliberation covered aspects about ethics in extension, concept of extension education and its importance in agriculture development, extension, methods, role of extension workers and mandated activities of KVK. Dr. Ravindragouda Patil, Scientist (Fisheries Science) briefed about history of fish culture, importance of fish as food, induced breeding of fish, fish culture methods and integrated aquaculture. Dr. Shivakumar, R., Scientist (Animal Science), enlightened about basics of animal husbandry practices,

livestock dependent integrated agriculture, dairy farming and clean milk production, Integrated dairy management, poultry farming and piggery.



Celebration of National Fish Farmers' Day

ICAR- KVK,Dakshina Kannada organised a Field day on the occasion of Fish Farmers' Day celebration on 10.07.2023 at Shri Rajesh Kotian's fish farm based at Panapila village, Moodubidre Tq., Dakshina Kannada. About 50 farmers participated in the occasion. The programme was inaugurated by Shri Devaraj Kottian, Progressive fish farmer. Shri Muniraj Hegde, former Vice-President and present member of Daregudde Gram Panchayat suggested to effectively implement government schemes for socio-economic improvement. Shri Vinodar Poojary, President, Milk Producers' Co- operative Society, Daregudde and Shri Laxman Suvarna, ex- President, Shirtadi

Gram Panchayat were present on the occasion. Dr. Ravindragouda Patil, Scientist (Fisheries) highlighted about assistance available under PMMSY Scheme. Dr. T. J. Ramesha, Senior Scientist and Head enlightened about major breakthrough achieved in carp seed production through induced breeding techniques and integrated farming system for higher economic returns. Fish varieties of Pangasius, Catla, Rohu, Amur Common Carp and Murrel were harvested from the ponds and sold on the occasion. The programme was covered by local media.



DAVANGERE

Best poster Award at ISEE National Seminar -2023

Mr. Mallikarjuna B.O., SMS (Agronomy) won the 2nd BEST POSTER AWARD at National seminar 2023 organized by Indian Society of Extension Education held at UAS, Bengaluru. The ISEE National seminar -2023 on "Evolving Extension Science towards Secondary Agriculture for Sustainable development" during the period 22nd-25th June, 2023. Poster presented on the FPO activities conducted by ICAR-Taralabalu KVK in Davangere, Chitradurga and Haveri district. The title of the poster was Farmer Producer Organizations (FPOs)- Boon to the Small and Marginal farming community.



Training for the Input Dealers

Mr. Mallikarjuna B.O., SMS (Agronomy) delivered lecture on the importance of the millets which are the future food and the varieties which are suited for the climate smart agriculture should be grown. The millets should be processed and value added which would be preferred by the new generation. Provided the information on the production technology of oilseeds due to delayed monsoon for the input dealers from the Davangere district. The program was organized by the department of agriculture and IAT chapter Davangere on 10.7.2023.



Celebration of National Fish Farmers Day

ICAR-Taralabalu KVK in collaboration with Dept. of Fisheries Davangere celebrated "National Fish Farmers Day" (July 10) at Shantisagara Fish Fingerling rearing centre of Channagiri Taluk. The program was inaugurated by Dr. Devaraja T. N. Senior Scientist and Head, in his inaugural words explained about significance of the day and suggested farmers to select good fingerlings for fish production and adopt scientific way of fish production techniques to get good return. Dr. Pradeep Doddamani Asst. Professor Fisheries opined that because of non-scientific way of fish production farmers are producing less quantity of fish intern getting less profit. Deputy Director of Fisheries, Davangere Mr. Annappaswamy in his presidential remarks explained about available Dept. schemes for fishermen and suggested farmers to enrol for insurance policies.

Dr. Umesh, Asst. Director of Fisheries, Mr. Raghuraja J SMS (Extension), Dr. Avinash T.G. SMS (Plant Protection) and 62 Fish Farmers participated in the program.



DHARWAD

Visit to Integrated Farming System fields, coco peat and vermicompost production unit

Scientists of ICAR-KVK, Dharwad and Dr. Shripad Kulkarni, Nodal Officer (KVKs), UAS, Dharwad along with Shri Mayur Kamble, District Development Manager of NABARD, Dharwad visited farm pond of Shri Veeresh Dharwad of Honnapur village of Alnavar taluka on 13.07.2023 wherein fish harvesting from farm pond was witnessed. Dr. Jayashree Pattar, Scientist (Animal Science) explained about the different criteria to be followed during fish harvest. Scientists visited OFT fields of Shri Veeresh, Dr. Airadevi P. Angadi, Scientist (Horticulture) interacted with farmer and suggested fertilizer application for turmeric varieties grow as intercrop in mango orchard.

Scientists also visited field of progressive farmer Shri. Ramappa Nandanawadi of Honnapur village and explained about vermicomposting and protection of worms from ants and rodents. Dr. Airadevi P. Angadi, Scientist (Horticulture) of ICAR-KVK, Dharwad visited coco peat and vermicompost production unit at Kelageri village of Dharwad taluka on 10.07.2023. Scientist explained about importance of removal of tannins for good quality coco peat production and also suggested for proper moisture maintenance in vermicompost pits.



Millet recipe contest

ICAR-KVK, Dharwad organized millet recipe contest on 08.07.2023 in Madaramaddi and Sutagatti villages of Dharwad taluka in collaboration with SKDRDP, Dharwad. Dr. Shweta Biradar, Scientist (Home Science) explained about the importance of millet and bio-diversity in the meal. About 60 millet based recipes were prepared by members of different SHGs. Five winners were selected in each village and were

identified as “Millet Ambassadors” by presenting certificate and prize. Dr. Vinuta Muktamath, Scientist, AICRP on WIA, UAS, Dharwad and Dr. Airadevi P. Angadi, Scientist (Horticulture) of ICAR-KVK, Dharwad judged the competition. About 73 members of different SHGs and staff of SKDRDP, Dharwad were present in the event.



ERNAKULAM

Surf field mastitis test (SFMT) to detect Subclinical mastitis demonstrated

Mastitis is one of the common diseases in dairy animals causing reduced yield and poor milk quality leading to economic losses. Majority of affected animals suffer from subclinical (hidden) form of mastitis initially in which the external manifestations are usually not seen. Early diagnosis is useful to prevent damage to the udder and prevent transmission of disease to other animals. California mastitis test (CMT) is a popular test for detection of subclinical mastitis that requires a reagent. Most of the farmers are not doing this test due to local unavailability of the reagent and also it's high cost. A low cost technology was tested by Karnataka Veterinary, Animal and Fisheries Sciences University, Bidar wherein 3 per cent solution of a house-hold detergent was used in place of CMT reagent and found that this test was 98 per cent sensitive. The detergent powder being available in every households, the test is very inexpensive and the

farmers are able to do weekly testing. This test is known as Surf field mastitis test (SFMT). The Ernakulam KVK demonstrated SFMT test among dairy farmers, produced a short film and circulated in social media platforms to popularize this test. The cost of SFMT per test is only Rs.2, whereas the cost of CMT is Rs.10.50 per test. The reduced cost and local availability of reagent prompts farmers to do testing frequently thereby detecting mastitis early to initiate treatment in advance.



GADAG

Sahakar Radio, Gadag

With help of Host Institution Agricultural Science Foundation, ICAR-KVK, Gadag established Community Radio Station named as Sahakar Radio, Gadag at 89.6 Megha Hz-FM on 2nd October, 2022 at its Campus.

The main motive of Community Radio Station is to broadcast the agriculture, health, cultural etc., aspects to the district people. Along with this, various programmes related to overall development of women and children are being broadcasted for the benefit of society.



Apart from this, the awareness about traditional culture, art, foods, rituals, festivals etc., is the need of the day as the people about need to know about local tradition. In addition, the Sahakar Radio is a platform to share the facilities and programmes of Government Departments, such as crop insurance, various subsidy schemes, the availability of seeds, fertilizers, machineries, etc. The success stories of progressive

farmers, entrepreneurs, business people, FPOs are also being shared through Sahakar Radio.

Moral Stories and Ethics, value based education programmes were also broadcasted through Sahakar Radio for the healthy development of Society.

KVK Scientists provide the information on importance of soil

and water testing, natural farming, seed treatment, availability of seeds, pest and disease and their control measures, post harvest technologies, scientific dairy farming, control of various diseases, value addition of locally grown crops, daily weather information, agri. market price, etc., were provided to farmers.

The Sahakar Radio programmes can be listened daily from 07:00 am to 09:00 am and repeat telecast from 06:00 pm to 08:00 pm through 89.6 FM MHz or one can download "Sahakar Radio" App from Google Play Store.



(Dr.Sudha V. Mankani, SMS, Home Science)

Participation in KVK annual zonal workshop & ISEE national seminar

ICAR-KVK, Gadag participated in 2 days Annual Zonal Workshop followed by 3 days ISEE National Seminar on Evolving Extension Science towards Secondary Agriculture for Sustainable Development from 20th to 24th June, 2023 at UAS Bangalore. The Research Paper on Solar drying of red chillies was presented as oral presentation by Dr.Vinayaka Niranjana, SMS (Ag. Engg.) in the technical session of the seminar.

Various secondary agricultural products namely millet muruku, millet cookies, millet kodubale, millet vermicelli, value added products of Aonla and Chilli prepared by KVK as well as KVK trainee entrepreneurs were exhibited in the exhibition stall of NGO KVK's of Karnataka. Many distinguished personalities

visited the stall and expressed their good wishes for KVK's work in promoting secondary agriculture. The stall was adjudged as "The Best Exhibition Stall" during the event.

(Dr.Vinayaka Niranjana, SMS, Agri. Engg.)



HASSAN

Mushroom Skill Training Programme

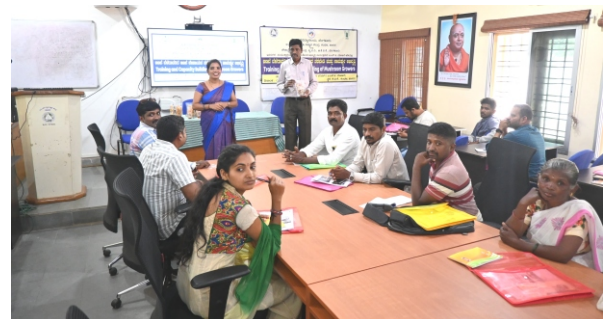
ICAR-Krishi Vigyan Kendra, Kandali, Hassan in collaboration with Skill Development Centre, university of agricultural science, GKVK, Bangalore has organized the two days training programme on "Training and Capacity Building of Mushroom Growers" at KVK, Kandali, Hassan from 03-07-2023 to 04-07-2023. The programme was organized under the Entrepreneurship Development Program of Tribal sub Plan programme (TSP) of ICAR, Newdelhi.

The programme director and home scientist of KVK, Hassan Dr. Shivshankar, M. is inaugurated the programme and during his inaugural address he said that this program is important in teaching the skills of mushroom cultivation, value addition and marketing of mushroom by skilled subject experts. Further, He explained the farmers about the subsidies, schemes and incentives available from the departments and the government for mushroom cultivation.

Mrs. Tushara, Mushroom grower and entrepreneur, Palali Village, Dakshina Kannada district has participated as resource person and while delivering her lecture she briefed the mushroom cultivation, processing, value addition and marketing of mushrooms. Further she explained the process of producing mushroom pickles, papad, chips, chakkuli, etc., to the participants and also she showed the value added products to the participants.

Mr. Manjunath, Mushroom grower Hassan has informed the trainees that besides getting technical information in mushroom cultivation, the growers should form mushroom growers group and grow mushroom according to the market demand and to get more profit. Further, he demonstrated the mushroom production technology to the gathering.

Dr. Sanket, C. V., Scientist (Agricultural Extension), KVK, Hassan during his introductory remarks he mentioned the status and statistics of mushroom cultivation in the state and Hassan district and also explained the shortcomings and problems faced by the mushroom growers, sellers and buyers and 25 farmers and farmer women from different parts of the district were participated in the programme.



HAVERI

Training programme on Nutrition Garden

KVK Haveri organized an off campus training programme on nutrition garden and provision of vegetables seeds and seedlings at Lakmapur village of Hangal Taluk on 11.07.2023. Dr. Santosh H M, Scientist (Horticulture) briefed out the methods of soil bedding for different vegetables, maintenance of annual /perennial plants and establishment of nutri garden through organic practices by utilizing the kitchen trash, backyard poultry and dairy for soil nutrition enrichment. Dr. Mahesh Kadagi, Scientist (Animal Husbandry) briefed out the training programme and the importance of animal health and milk consumption. Mrs. Vidya V Sangannavar, Scientist (Home Science) highlighted the health benefits of nutri garden and it

aids in increasing the nutritional diversity at the household level to improve the intake of vegetables and fruits in the daily diet.



IDUKKI

Implementation of projects under TSP and SCSP schemes at Chinnakanal cluster village

ICAR- Krishi Vigyan Kendra Idukki in collaboration with Chinnakanal Grama Panchayat organized a special Programme on Tribal Sub Plan 2023 and SCSP 2023 at Chinnakanal. Ms. Preethu K Paul, SMS Agricultural Extension, KVK Idukki welcomed the tribal farmers and Local Leaders. Mr. Vijaykumar, Wrad Member IV, Chinnakanal Grama Panchayat, inaugurated the function. Mr. Sudhakar Soundarajan, SMS (Plant Protection) briefed the project and handled sessions on IPM in Black Pepper and Management of wild elephants raiding crops using Krishirakshak LED lights. All

Package of Practices in black pepper to ensure healthy Black pepper nursery were also discussed. 1500 Black Pepper cuttings of Panniyoor -5 Variety, VAM, Coirpith Compost nad trichoderma inputs were distributed to the Scheduled caste farmers and Krishirakshak LED lights were distributed to the Scheduled Tribe farmers of Singukandam area in Chinnakanal Grama Panchayat. Programme was feliciated y the SC and ST promoters in Singukandam area.

(Ms. Preethu K Paul, SMS, Agricultural Extension)



KALABURGI-I

Solid Waste Management training

Farmwomen are from Vahini NGO, Hosapete, Vijayanagara District visited to ICAR-Krishi Vigyan Kendra, Kalaburagi-I on 07.07.2023 under the five days training programme on Solid Waste Management. Dr. Zaheer Ahamed, Scientist (Pathology) gathered and welcomed the participants and farmwomen's play a significant role in Agriculture and solid waste management in this way to protect our environment from various pollutants and maintain the environment clean and healthy. Dr. Shreenivas B V, Scientist (Soil Science) emphasised about the importance of soil and water testing and soil and water conservation in Agriculture also visited to the laboratory and

explained about the soil health management. Dr. Yusufali Nimbaragi, Scientist (Agronomy) said that the nature and extent of women involvement in agriculture and environment 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 and seed production. Mr. Ramesh, Project Assistant, NRLM, Hosapete and 30 farm women of Kalaburagi district were participated and got benefitted from the programme.

Pashu Sakhi' exposer visit to KVK

'Pashu Sakhi's XII batch farmwomen exposer visited to Krishi Vigyan Kendra, Kalaburagi-I on 08.07.2023. Women play a significant and crucial role in agricultural development and allied fields.

Dr. Manjunath Patil, Scientist (Animal Science) gathered and welcomed to the participants and explained through power point presentation on scientific dairy farming as well as growing of fodder crops for fodder seed production, azolla as a supplementary feed for livestock, ensilage in poly ethylene bags, hydroponics etc. Later conducted exposure visit were arranged to demonstration units like Indigenous dairy cow farm, poultry farm, azolla, hydroponics, museum, vermi compost unit etc. Dr.

Shreenivas B V, Scientist (Soil Science) explained about the importance of Soil and Water test in Agriculture also visited to the laboratory and emphasised about the soil health management. 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, Animal Husbandry department Kalaburagi and 40 farm women of Kalaburagi district were participated and benefitted.

Progressive woman farmer: Smt. Sujata Sharanabasappa Patil

Success Story

Smt. Sujata Patil w/o Sharanabasappa Patil is a 44 years old enthusiastic woman farmer from Kamalapur taluka, Kalaburagi district and her main occupation is agriculture and allied activities. After completed of education and helped her husband to raise income. She owning 11 acres of land situated on Bidar-Srirangapattana National Highway-218 main road between Mahagaon and Kamalapur towns in which 9 acres has well fertile land and other 02 acre has medium to low fertile land. She was having many components like field crops, horticulture crops, dairy unit etc but the overall income was poor as the holding was not properly utilized scientifically and the units

were not integrated. She came in contact of ICAR-Krishi Vigyan Kendra, Kalaburagi-I scientists and progressive farmers and also in touch of Agriculture department for inputs and information. Scientists guided here for adopting technologies for the best production



As a result now she grow field crops like redgram, soybean, green gram, black gram, wheat, maize, ground nut, sesame, sugarcane and different horticultural crops like Thai lime, lemon, Jamun, different varieties of guava, mango, jamun, custard apple, sapota, water melon, red banana, papaya, noni, citrus, curry leaf and drumstick, vegetables like tomato, brinjal, chilli, onion, bottle guard, ridge guard, cucumber, cluster bean etc. grown as a sole crop as well as intercrop and flowers like sugandh raj, rose, marigold, jasmine and millets and 200 teak on bunds. She is also having modern farm implements like mini tractor, Rotovator, plough, tillers, bed maker, trolley, ridge and furrow maker, drip pipeline, sprinklers, sprayers, venchuri and filter, high tech stall fed goat farming and dairy unit, vermicompost unit, nursery sheds, open well, farm pond, mini check dam and bore well



recharge points. She also rears 10 cows, 15 buffalos, 100 desi poultry birds, fishery, 10 bee keeping boxes, 05 sheeps, 100 goats, horse, Mudhol and Dauber breed dogs as well.

Training and support : Smt. Sujata Patil besides family support, her interest, dedication and technical guidance and various training was taken from the KVK scientists and experts from Agriculture Department motivated her and she adopted new technologies and implement them in her fields this led to success.

She gained the knowledge about agriculture and enhanced her technical knowledge regarding cultivation of different types of crops, soil testing, vermicomposting, dairy etc. she implemented components like dairy, goatry, poultry, fishery, field and horticulture crops and used new technologies viz. sub surface drainage in field, spraying mango special in mango, high density planting in guava, solar fencing, alerting alarm new technologies in red gram like used improved varieties, seed treatment,

nipping, usage of pulse magic, integrated pest and disease management, usage of pheromone traps yellow sticky traps, solar light traps, processing unit, value addition, branding and direct marketing etc. and also adopted application of nutrients based on soil test results, use of green manure, farmyard manure, compost, vermicompost, liquid fertilizers and bio fertilizers for enhancing soil health.

Importance for Farmers : She is earning an income of approximately Rs. 15 to 16 lakhs per annum from all the sources. She was also grading and producing value added products like Jave Godi, uppit rawa, huggi rawa from wheat, mango and lemon pickles etc., under her “Rangamma Farms” also production and sale of breeds of dogs & goats and get more profits adopted all new scientific technologies and succeed. Influenced by her nearly 45 farmers of neighbouring villages have been converted in to Integrated Farming System and attracted surrounding farmers in adopting new technologies.

Achievements: Recently she had been honoured by Government of Karnataka prestigious “Krishi Pandit award” during 2022-23 under farm women category, “Best Horticulture farm women” during 2021-22 from University of Horticultural Sciences Bagalkote under Horticulture: women empowerment theme, she was received “Best farm women-2020-21” state level award and leading newspaper Vijaya Karnataka daily's 'Best farmers Award' held at Bengaluru, Karnataka on January-2021 and she was recognised as district level with 'Best farm women' by the Vijaya Karnataka daily and “Krishi Ratna” award from District Krishik Samaja, Kalaburagi on the occasion of farmer's day respectively.



KALABURGI-II

Capacity development programme for SC farmer of S.N. Hipparga village

ICAR-Krishi Vigyan Kendra, Kalaburgi-II (Raddewadgi) in collaboration with AICRP, Dry land Agriculture, Bijapur, UAS, Dhaward jointly organized capacity development programme to SC farmer / Farm women of S.N. Hipparga village, Tq. Jewargi under SCSP programme on "Poultry rearing and up keeping of poultry" on 10-07-2023 at Kalaburgi-II (Raddewadgi). During the event Dr. M.P. Poddar, Chief Scientist, AICRP on Dry land Agriculture, Bijapur highlighted the importance of SCSP Project on livelihood improvement of SC farmers. Dr. R.A. Nandagavi, Agronomist, AICRP, Dry land Agriculture, Bijapur highlighted the contingent crop plan.

Dr. Mahanthes M.T., Scientist (Animal Science) explained about nutrition of the poultry and also highlighted and advised incubation of eggs with newly developed incubator on community basis. Chicks will be priced more and as it will increase the income of the farmers. More than 50 farmer and farm women benefited the program and distributed chicks to farmers also.



KANNUR

Establishment of an implements and equipments utility centre at Pattuvam Panchayath under Schedules Caste Sub-Plan (SCSP)

An utility centre for farm implements and equipments was established at Panchayath for the SC farmers group "Udaya Swayam Shahaya Sangham" under SCSP programme entitled "SC Farmers implements and equipments utility centre at KVK's" funded by ICAR, ATARI, Bengaluru. IIPR Mini Dal Mill was installed at the utility centre and the demonstration on the operation of dall mill was also given to the members. IIPR Mini Dal Mill is a combination of cleaner-cum grader, emery roller, rubber steel disk mechanism and cyclone separator. Graded grains are passed through emery roller, for pitting or scratching prior to commonly adopted pre-treatments with oil application. Conditioning for several hours followed by prolong sun drying for several days, loosens the husk. Thus, treated

grains are passed through rubber-steel disk vertical chakki for dehusking and splitting. Soft dehusking minimizes the powdering loss. Emery roller helps in better dehusking of pulses. Driven by 2.0 hp single phase motor the mill gives capacity of 75-125 kg/h for different pulses.



Participatory mode seed production programme

Unavailability of quality seeds during the cropping season is one of the major problems of Agriculture. In initial years vegetatively propagated seedlings, tubers and self pollinated vegetable seed production can be taken through this participatory mode, to meet the requirement of quality seeds and seedlings. As a part of Participatory seed production programme a farmer Mr. Shaji Sebastian is cultivating the crops like turmeric (Kedaram, Prathibha, Sudarshana), Amorphophallus



(Gajendra), Ginger (Varada) adopting the scientific cultivation practices and with all the technological support from KVK Kannur. Frequent visit are conducted to the plots selected for the seed production programme to assure the performance of the varieties in the field. The field was inspected by Dr. Jayaraj P, Programme co-ordinator KVK Kannur, and Renisha Mannambeth, Assistant Professor (Horticulture).

KASARAGOD

Skill training cum demonstration of motorized carbon fiber pole sprayer cum harvester

ICAR-KVK, CPCRI, Kasaragod conducted a field demonstration on “Motorized carbon fibre pole sprayer cum harvester” at Kubanoor Village, Mangalpady Panchayath on 3rd July 2023 under the SCSP programme. Eight SC unemployed youth were identified from the region and imparted training on operation and maintenance of the spraying equipment. The field demonstration was carried out in the arecanut garden of Shri. Ashok Holla, Progressive farmer. Motorized carbon fibre pole sprayer cum harvester is provided to these selected Scheduled Caste unemployed youth on custom hiring basis in

coordination with Tulusiri FPO, Manajeshwar for generating self-employment. The programme was attended by 46 progressive farmers.



Training on value added products from millets

The ICAR-Krishi Vigyan Kendra, CPCRI, Kasaragod organised two EDP training programmes on “Preparation of millet based biscuits” from 11th 14th July 2023. Thirty nine Kudumbashree entrepreneurs from Waynadu district attended the programme. The programme was organised for imparting training on the production of biscuits and cookies for providing to the children under SC/ ST project in Wyanad district. Low cost nutritious biscuits and cookies were demonstrated which provide 1190 calories and 18g protein per 100gm.



KODAGU

Exposure visit of college of forestry students to KVK Kodagu farm

An extension learning programme was arranged for the 3rd year 2nd semester students of College of Forestry, UAHS, Ponnampet, Kodagu, Karnataka on 05th July 2023. Smt. Lakshmi R, Farm manager welcomed the students and explained about the ongoing activities of KVK Farm at Athur. She spoke on the prospects of coffee based integrated farming system for enhanced and sustainable income. She also explained about the propagation of pepper trellis (mother plants) and production of single node pepper cuttings process and the maintenance of pepper nursery and Arecanut nursery. Later a tour to piggery unit, dairy unit, goatary unit, poultry unit, vermicompost unit and farm implements and equipment room

was arranged for the 40 students. It was a very fruitful session for the students and they got exposure to the various farming activities of KVK Kodagu.



KOLAR

Consultative group meeting on tomato to address the burning issues in tomato crop

KVK Kolar organized Consultative group meeting on tomato at KVK Kolar on 04.07.2023 to address the burning issues in tomato crop. Joint Director of Horticulture Dr. Vishvanath, Dr. Shivaramu, H.S, Dean, COH, Kolar, Dr. Shivanand V. Hongal, Senior Scientist & Head, KVK, Kolar, DDH, Kolar, DDH, Chikkaballapur, Scientists from KVK and College of Horticulture, APMC Secretary, and all the Horticulture officers from Kolar and Chikkaballapur district were participated. All the experts who participated in the meeting discussed the causes

of the white flies and leaf curl disease which is a serious problem for the tomato growers of the district and management practices. The major discussion went on the wide spread infestation of Tomato leaf curl viral disease in the district. The root cause for the issue and suitable management practices to be taken care of has been discussed and set of measures has been formulated to distribute among the farmers to take care of their crop from the disease causing vector and disease



Awareness Campaign on "Broad mites management in mulberry"

ICAR-KVK, Kolar organized Awareness Campaign on "Broad mites management in mulberry" at Beechagondanahalli and Ammanalluru villages of Kolar taluk on 13.07.2023. Dr. Shashidhar K. R. Scientist (Sericulture) briefed on Management practices of broad mites in mulberry, visited severely affected mulberry gardens and suggested suitable management practices. Shri T.M. Kalappa, Deputy Director of Sericulture, Kolar, Shri Byregowda, ADS, Kolar and Patil, SEO, Vemagal were participated in the campaign. Around 60

sericulture farmers participated and benefitted in the programme.



A team of scientists visited the tomato leaf curl virus infected fields

A team comprising of KVK-Kolar Scientists, Dr. Shivanand V. Hongal, SS&H, Dr. Sadanand K. Mushrif, Scientist (PP) Scientists from COH, Kolar K. Thulasiram, Associate Professor (Entomology) and COH, Bangalore along with the officials from KSDH, Mulbagal visited the tomato leaf curl virus infected fields in Khadripura village of Mulbagal Taluk on 13.07.2023 to assess severity of tomato leaf curl virus. Assessed the disease condition. A detailed discussion was made regarding the various factors contributing to the disease severity by taking the inputs

from the farmers. In addition, the white flies- the vectors for Tomato leaf curl virus and virus infected leaf samples were collected for further studies.



KOLLAM

Kisan Drones - for drudgery reduction in Agriculture

Kisan Drone is one of the most innovative technologies to reduce drudgery in agriculture especially for surveillance, foliar nutrition and plant protection operations. In view of this Government of India has launched a pilot Agri Drone project "Drone Technology Demonstration" through all KVKs across the country during 2022-23. Under this project KVK, Kollam has purchased an Agribot Drone and conducted demonstration in different crops like Rice and Pulse for micronutrient application and for spraying of biocontrol agents. The programme was inaugurated by the Honb'l MLA of Chavara block Dr. Sujith Vijayanpillai and in the inaugural speech he pointed out the importance of advanced technology like kisan drone and this will greatly help in increasing the area under

cultivation and reduce the cost of cultivation and save time. KVK has conducted demonstration using micronutrient, KAU Sampoorna multimix in rice @ 2kg/acre during the vegetative stages i.e., at 30, 45 and 60 days after transplanting at different blocks of Kollam district Kerala viz., Kaipuzhappadashekharam of Chavara block and Karippukalayikonampadashekharam of Eravipuram block during the third crop. We have also demonstrated the micronutrient spraying using drone in pulse in our cluster FLD plots using KAU Sampoorna multimix @2kg/acre. This demonstration is a novel technology for the farmers and was well appreciated by the local self-government authorities. In pulse the demo was conducted in cowpea, green gram and black gram during vegetative and reproductive stage.



KOPPAL

Training on cultivation of foxtail millet HN-46 variety and its value addition

Millets are one of the oldest foods, these are the small-seeded hardy crops which can grow well in dry zones or rain-fed areas under marginal conditions of soil fertility and moisture. Millets can not only grow in poor climatic or soil conditions and provide nutritious grain as well as fodder, but these can also very well fit into multiple cropping systems under irrigation as well as dryland farming due to their short growing season. Foxtail millet variety HN-46 has higher and fodder yield. ICAR KVK Koppal in collaboration with Dharani FPO, Kukanoor organised training programme on cultivation practices of foxtail millet HN-46 variety and its value addition in Kuderemoti on 4-7-2023. Programme was inaugurated by watering a plant by FPO president Sri Shankar Tallur. He explained the importance of millet and its cultivation. Dr. Radha, J Scientist (seed science and technology) explained in detail about foxtail millet variety

characteristics, production and seed treatment. Dr. Kavitha, Y. Ullikashi Scientist explained about millet processing, milling and value addition. Smt Yashodamma field officer, ICICI foundation explained about use of millets in daily diet. More than 40 farmers benefited the programme.



KOTTAYAM

Capacity Building Programme on 'Value Addition Of Nutmeg Rind'

KVK Kottayam organised two days capacity building training on 'value addition of nutmeg rind' for two batches. Technology on preparation of squash, syrup, sip up, crush, jam, jelly, chunks, tutti fruttii, tea bag, sauce, chutney powder, rasam powder, preserve, arishtam, pickle and bar from nutmeg rind were demonstrated. Sessions were also conducted on packaging, labelling and branding of products. More than 50 participants from within and nearby districts participated in each batch. Participants included women entrepreneurs, rural youth, nutmeg farmers and SHGs.



Interdepartmental Team Visit



KVK Kottayam headed an interdepartmental convergence team to address problems faced by farmers in the high range regions of the district. Following the instructions from the district collector Kottayam Dr. V.Vigneshwari, a team was constituted including KVK, agriculture department, Local self-government representatives, revenue department and local primary co-operative bank. Team visited Koottickal panchayath, which was severely affected by floods and landslides. Decisions were taken and detailed action plan is under processing for the protection of river banks.

National Fish Farmers Day Celebration

KVK Kottayam in collaboration with Department of Fisheries conducted a seminar on the auspicious occasion of National Fish Farmers day on July 10, 2023. The progressive men and women fish farmers of the district were honoured in the function by the honourable MLA of the Vaikom constituency, Smt. C. K. Asha. A seminar on "Prospects of aquaculture in Kerala" was organized for the fish farmers at Vaikom Satyagraha Hall. Dr. Navya R., SMS (Fisheries) handled the sessions in the seminar.



KOZHIKODE

Training programme for school students

A one day training programme for students from Kannoth UP, Keezhariyoor, Kozhikode on “Basics of Plant Propagation” was conducted at KVK, Calicut on 12.7.2023. The training programme was conducted as part of school curriculum of seventh standard students. In addition to theoretical aspects, a through practical training was imparted to students on aspects such as preparation of potting mixture, seed propagation, rooting of cuttings, grafting, budding, layering etc. Students were given publications on plant propagation techniques also. As part of the training session, students were also taken to polyhouse nursery, sales unit and various demo units of KVK. A total of 73 students and four teaching staff attended the programme.



National Fish Farmers' Day celebrated

The National fish farmers' day was celebrated by ICAR- IISR- Krishi Vigyan Kendra Kozhikode at KVK Peruvannamuzhi on 10th July 2023. The programme was inaugurated by Dr. P Ratha Krishnan, Principal Scientist and Head KVK. A capacity building programme on “Breeding and culture of freshwater



ornamental fishes” was organised, which was led by Dr. Pradeep, B. Subject Matter Specialist- Fisheries of the Kendra. Various breeding and culture techniques including, induced breeding of ornamental fishes, water quality analysis and live feed culture were demonstrated to farmers. Twenty-five farmers from Kozhikode district participated in the programme. The farmers shared their experiences with others and they procured inputs from KVK for starting and expanding their units. In a separate programme organized by College of Fisheries Payyanur and KUFOS Regional Centre Kannur on 3rd July 2023, Dr. Pradeep B delivered lecture on the topic “Aquaculture principle and practices”. He also interacted with farmers of Kannur district, extension functionaries and students of Fisheries College in during the programme.

Training on Scientific production technology of black pepper and grafted pepper

KVK conducted a training on Scientific production technology of Black pepper and grafted pepper on 14.7.2023. Fifteen farmers from various parts of the district attended the training. The trainees gained hands on experience in preparation of bordeaux mixture, natural farming, manurial preparations like Jeevamrutham and nursery practices of black pepper including grafting, serpentine and column methods of black pepper.



MALAPPURAM

Practical solution for stray dog Menace

Dr. C. Ibraheem Kutty, SMS (Animal Science) was invited to present the novel approach suggested by him for the effective control of stray dog menace, at the state level work shop organized by Indian Veterinary Association, Kerala at Kozhikode. The work shop was attended by experts from various domains, including LSGD s, Health services, Animal Husbandry officers, Scientists from KVASU and Animal science experts from KAU, Animal welfare activists, personnel in charge of ABC activities in various districts and media personnel to discuss the challenges posed by dog menace and explore effective measures for rabies prevention, in the context of increasing dog bite cases and human deaths in the recent past.

The alternate approach of vasectomizing maximum male dogs, without any intervention on the female side was suggested by Dr. Ibraheem Kutty as the only practical solution for the effective control of stray dog population. Whereas catching large proportion of stray dogs forms one of the major hurdles hindering the effectiveness of ongoing birth control measures, the new approach works based on the philosophy of bringing biological control of dogs themselves utilizing the behavioral features of canine species with a minimal intervention of non scalpel vasectomy together with facilitating dominance of vasectomized dogs through adequate health boost up treatments one time at the time of catching and release in their own habitat.



MIDH-NHM programme on spices

Demonstration of micro-rhizome technology as a measure to combat seed shortage woes in ginger has been conducted. Fields of five ginger farmers from malappuram district were planted with micro-rhizome raised seedlings after solarising the plot for two months. The plots established a uniform plant stand and good growth rate after completing one month in field compared to the scattered and stunted plants of conventional seed grown plots. The plots were inspected by a team from Directorate of arecanut and spices development to report the status of crop on field.



MANDYA

Training cum Input Distribution under SCSP programme



ICAR-Krishi Vighan Kendra, V.C. Farm, Mandya in collaboration with ICAR-National Bureau of Agricultural Insect Resources, Bengaluru and Department of Horticulture, Mandya organized Training cum Input Distribution programme under SCSP on 10.07.2023. Dr. Naresh, N.T., Senior Scientist and Head, KVK, V.C. Farm Mandya welcome all the dignitaries present in the programme. In his introductory speech he mentioned about the importance of coconut cultivation, disease and pest management and profitability from coconut cultivation. Dr. Shivalingaswamy, Chief Scientist and Head, ICAR-National Bureau of Agricultural Insect Resources, Bengaluru addressed the gathering as a chief guest and in his speech he emphasized on scheduled caste coconut growers livelihood development and management of black headed cater pillar, Rogus spiraling white fly and red palm weevil of coconut. The programme was presided by Dr.S.S.Prakash, Dean (Agri.), College of Agriculture, V.C. Farm, Mandya and he suggested that scheduled caste coconut growers will be benefited from this programme and cultivate coconut as per the recent technologies released by the farm universities.

Sri. D. Manjunath, Deputy Director, Dept. of Horticulture, Government of Karnataka gave the information on drip irrigation in coconut and pest and disease management by adopting biological methods. During the programme

Dr.N.Shivakumar, Associate Director of Research and Dr.D.Raghupathi, Associate Director of Extension, Zonal Agricultural Research Station, V.C. Farm, Mandya, Dr.A.N.Shilesh, Principal Scientist, ICAR-National Bureau of Agricultural Insect Resources, Bengaluru, Dr.K.Selvaraj, Senior Scientist (Entomology), Dr.D.Gundappa, Senior Scientist (Entomology), ICAR-NBAIR, Bengaluru were present during the programme.

Farmer Scientist interaction was also conducted during the training programme and critical inputs viz., coconut seedlings, sprayer, neem soap, trichoderma and vegetable special which are required for coconut cultivation were distributed to 60 SC farmers. All the KVK Scientist and staff witness the programme.



MYSURU

Participation in field day program on “DSR method in paddy”

ICAR JSS Krishi Vigyan Kendra Suttur, Agronomy scientist Shri. Shamaraj participated as a resource person in field day program on “DSR method in paddy” on 1st July 2023 at Hulimavu village Nanjanagud taluk Mysuru organized by Myrada Nanjanagud. KVK Scientist briefed about different methods of paddy cultivation to address labor problems and reduce cost of production in paddy cultivation and also explained about integrated management of weeds, pest and diseases in paddy. Myrada CEO Mr. Shefulla, retired IAS officer and CEO of Myrada addressed about FPO formation and benefits of FPO to farmers at hulimavu village.



Field day on DSR method of paddy cultivation at Hulimavu

Participated as a Resource Person in Nanjungudu Rasbale and Mysuru Mallige field day



Department of Horticulture, T N Pura, organized field day on Nanjungudu Rasabale and Mysuru Mallige at Buthagahalli village T N Pura Taluk on 5th July 2023 . In the programme KVK Horticulture scientist delivered lecture on Importance of GI crops viz. Nanjungudu Rasabale and Mysuru Mallige along with the recent advance production technologies. In the programme more than 50 farmers participated and got benefited from the programme.

Training programme on Drip irrigation and Fertigation technologies in Horticultural crops

ICAR JSS KVK Suttur Mysuru organized one day on campus training programme on 15.07.2023. Drip irrigation and Fertigation technologies in Horticultural crops. Dr Vinay G M Scientist Horticulture share the importance of drip irrigation and Fertigation importance to farmers and objective of the training programme. Then Divya HV, senior scientist and head given information on KVK activities and importance of trainings to farming community. Vereesh Isha FPO explained the importance of water soluble fertilizers in Horticulture crops

to farmers. Later Resource person from Extension Education Unit, Nagenahalli, Mysuru, Horticulture Assistant professor Rahul Das explained History of Drip irrigation, importance and methods of installation of drip irrigation in Horticulture crops, water soluble fertilizers and use in Fertigation in the horticulture crops, micronutrients usage in crops, bio fungicides and pesticides importance in the crops. In this training programme total of 40 farmers participated from Chamarajnagara and Mysuru and got benefitted from the programme.



PALAKKAD

Capacity building Programme for Extension functionaries

KVK Palakkad in association with ATMA Palakkad conducted capacity building programme on Scientific paddy cultivation for extension functionaries of Pattambi block on 14.07.2023. The programme was attended by Agricultural Officers, Agricultural Assistants, pest scouts and field assistants under LEADS project. Classes were handled by Dr. K Karthikeyan, Professor (Entomology), RARS Pattambi and Dr. Sreelakshmi K, Assistant Professor (Agronomy), KVK Palakkad. 16 officials attended the programme.



Sowing of millet seeds at Attappady under tribal extension centre



Tribal extension Centre Attappady under KVK Palakkad, initiated On-farm trial for assessment of ragi varieties at Kathalakandy, Attappady. The programme was done in collaboration with NSS unit of Sholayur Govt. Higher Secondary School as a part of Anna poshan project of the Government of Kerala. The programme was inaugurated by Smt. Latha Sharma, Assistant Director of Agriculture Attapady, Tribal extension centre official Smt. Asma, farmers, teachers and

PATHANAMTHITTA

World zoonosis day 2023

ICAR-Krishi Vigyan Kendra, Pathanamthitta celebrated World Zoonosis Day on 10th July 2023 in collaboration with Government Govt. Model New LPS, Anjilithanam at Kunnanthanam Panchayat, Mallapally block. The program was inaugurated by Smt. Bindu Chandra Mohan, President, Mallapally block. Key note address on the theme "One World, One Health: "Prevent Zoonosis, stop the spread" was delivered by Dr. C.P Robert, Senior Scientist and Head, ICAR- KVK, Pathanamthitta. Smt. Sridevi Satish Babu, President, Kunnanthanam Gramapanchayat, Prof. M. K Madhusudhanan Nair, Vice President, Kunnanthanam Gramapanchayat. Mr. Mathew and Sri C N Mohanan, Member, Mallapally block panchayat and Dr. Shana Harshan, SMS, ICAR- KVK, Pathanamthitta rendered felicitations for the

programme. IEC Kits for spreading awareness on zoonotic diseases and its prevention was distributed among the students. As part of the celebration an awareness program for the school children on "Zoonotic diseases and human health" lead by Dr. Sency Mathew, Subject Matter Specialist (Animal Science), ICAR-KVK, Pathanamthitta was conducted where in film shows on the spread of rabies and care to be taken to prevent rabies were shown to the school students



Skill development training in mushroom cultivation

ICAR -KrishiVigyan Kendra, Pathanamthitta organized 5 day 'Skill Development Training in Mushroom cultivation' exclusively for SC community as part of the SCSP programme from 11th 15th July 2023. The training was funded by ICAR-National Academy of Agricultural Research Management (NAARM). The training concentrated on different aspects of developing skill in mushroom cultivation to set up an enterprise as income source. The 5 days training focused on Mushroom cultivation, Mushroom spawn production (Milky and Oyster), Pest and disease management in mushroom cultivation, Harvesting, Packing and Marketing, Mushroom processing and value addition, Oyster and milky mushroom bed preparation, Project formulation, Finance & banking. Technical sessions were handled by Dr. A V Mathew, Prof. Plant Pathology

(Retired), Kerala Agricultural University, Mr. Aswin, Assistant Manager, SBI, Kozhenchery, Dr. Shana Harshan, SMS (Home Science), KVK, Pathanamthitta and Sri. Alex John, SMS (Plant Pathology), KVK, Pathanamthitta. The training was attended by forty persons. As part of the training, exposure visit to 'Vijay Mushroom' Mavelikkara was also organized.



RAMANGARA

Celebration of National Fish Farmer's Day-2023

ICAR-Krishi Vigyan Kendra Ramanagara in collaboration with Department of Fisheries Ramanagara celebrated "National Fish Farmer's day - 2023" on 10.07.2023 at Kanva Reservoir, Channapatna (T), Ramanagara (D). Dr. Sowjanya, S., Scientists (Agricultural Extension) briefed the significance of celebrating fish farmer's day, importance of inland fisheries in integrated farming system, importance of soil and water testing, fish related capacity building programmes available at KVK Ramanagara and informed about Front line demonstration activities taken up by KVK in fisheries specially about Gift tilapia fish, Composite fish cultivation and also highlighted about the other activities of KVK. Mrs. Shanta Balagond, Subject matter specialist (DAMU) emphasized about the weather based advisories and weather based changing pattern in food habits of fishes. Mr. Shanti Priya, Deputy Director of Fisheries, Department of Fisheries, Ramanagara highlighted about the important schemes and facilities available at Fishery Department. More than 50 participants participated in this special occasion and were benefited.



THRISSUR

Diagnostic field visit to cowpea plots of vegetable clusters at Chelakkara Grama Panchayat of Thrissur district

A multidisciplinary diagnostic field visit was conducted to assess the critical problems in the affected cowpea plots of Chelakkara Grama Panchayat along with Department officials. The condition of the crop was very much devastating and was found detected with multitude of factors including pests, diseases, soil, adverse weather condition etc. Delayed monsoon spells worsened the crop situation. Though the soil health cards were already issued to the farmers, appropriate soil management measures were not adopted. Along with thrips attack and mosaic symptom, the condition was aggravated due to high acidity and deficiency of calcium, magnesium and boron. An integrated management approach was recommended for the sustained yield of the crop. The insecticide, thiomethoxam @2g per litre was recommended to combat thrips attack. Since the farmers started harvesting the crop, a spray of *Pseudomonas fluorescens* 2% was recommended three days after the insecticide spray to improve the reduced yield due to mosaic disease. In order to improve the soil health, lime application along with Magnesium sulphate @ 320g per cent and Borax @ 40g per cent were also recommended.



THIRUVANANTHAPURAM

Visit of Director, ATARI on 07th July, 2023

Krishi Vigyan Kendras should have unique concepts and need to strengthen in diversified areas so as to make it more resource centric for the visiting farmers. Dr. V. Venkatasubramanian, Director, ATARI, Bengaluru, on his visit to ICAR KVK, Mitraniketan, Thiruvananthapuram on 07th July, 2023 urged for more concerted efforts for attaining the deliverance of KVK mandates to the fullest. He was welcomed by Dr. Reghu Rama Das, Joint Director, Mitraniketan along with other KVK staff.

In his address, Director, ATARI, categorically insisted to give more thrust to medicinal and aromatic plants and its processing aspects. Secondary agriculture is the need of the hour and KVKs should impart more thrust towards processing and value addition. Exotic fruit plants and new systems of cultivation in vegetable and high value crops also need consideration.

The renovated infrastructural facilities of ICAR – KVK, Mitraniketan were also inspected by the Director and appreciated the works. Joint Director, Mitraniketan handed over a compendium on the renovation works carried out at the KVK during 2022-23 and thanked the Director, ATARI, for his all round support and guidance for the same.

Director, ATARI later visited the SCSP Custom Hiring Centre, Technology Hub, Renovated Seminar Hall and Executive Dining Room and expressed his appreciation. He opined that the bio-inputs and other bio-formulations available at KVK are of definite help for enhancing the productivity of farming situation in Thiruvananthapuram district. He was also kind enough to inaugurate the harvest of this year's crop of dragon fruit in its demonstration area.

Team ICAR- KVK, Mitraniketan, Vellanad, Thiruvananthapuram places on record our sincere gratitude to Dr. V. Venkatasubramanian, Director, ATARI, Bengaluru, for his timely visit to our KVK and the constructive interventions for making this KVK more resource centric and farmer oriented.



TUMAKURU - I

Diagnostic field visits by KVK Scientist

Mr. Darshan, Scientist (Agricultural Extension) Visited FLD plot visit on Demonstration of Finger millet var. KMR-316 under double cropping system (Cowpea – Finger millet) to take observation at Bhandrehalli, C. N. Halli on 05th July 2023. He identifies aphids infestation in the cowpea plot and recommended management practices for pest control as per recommendations of UAS, Bangalore package of practice

Demonstration of Red Gram (BRG-3) + Foxtail millet (DHFT-109-3) under rainfed situation

Red gram is the major pulse crop in Tumkur district where farmers practicing mono cropping using severe wilt and SMV susceptible varieties (BRG-1). BRG-3 variety which is high yielding, wilt & SMV resistant, suitable for dual purpose. Practicing intercropping with millets increases productivity i.e., better utilization of resources, minimizes the risks, reduces weed competition and stabilizes the yield with this rationale ICAR Krishi Vigyan Kendra Tumkur-I initiated FLD on Demonstration of Red Gram (BRG-3) + Foxtail millet (DHFT-109-3) under rainfed situation at Ippadi, Kunigal on 15th July 2023. Mr. Darshan, Scientist (Agricultural Extension) gave information regarding production technologies in red gram and foxtail millets. Dr. Keerthishankar, Scientist (Horticulture) explains the nutrient management in red gram and foxtail millets. Mr. Manoj, H., Scientist (Plant Protection), delivered the lecture on IPM practices in Redgram. On this occasion Redgram and foxtail millets seeds, biofertilizers were distributed to beneficiary farmers.

Radio Talk by KVK Scientists

The provision of information and skills has gained popularity in the quest to empower communities with Community Radio as

a unique and effective tool. With this backdrop ICAR Krishi Vigyan Kendra delivered the talk at Radio Siddhartha 90.8 FM during the programme 'Krishi Kanaja' on July 7th, 2023. Mr. Darshan, Scientist (Agricultural Extension) delivered the talk regarding KVK genesis, origin, mandates, activities and benefits to be available for farmers from KVK. Dr. Padmanabhan, SMS (Agro. Materiology), explained the climate smart agricultural technique in agriculture. Dr. Keerthishankar, Scientist (Horticulture) delivered the talk on production technologies to be practiced during coconut farming. Dr. Nithyashree, K., Scientist (Home Science) explain the role of value addition in doubling the farmers income using coconut. The programme was hosted by Ms. Sulochana and assisted by Ms. Sandhya.

Demonstration of Integrated Crop Management in Banana (Var. Yelelakki)

Poor suckers and nutrient management, incidence of Panama wilt and Rhizome weevil leads to low yield in banana. With this background ICAR-KVK, Tumkur-1 initiated FLD on Demonstration of Integrated Crop Management in Banana (Var. Yelelakki) at Bommarasanahalli village, Gubbi taluk, Tumkur District on July 7th, 2023. Mr. Darshan, Scientist (Agricultural Extension) gave information regarding importance of FLD and its uses to farming community. Dr. Keerthishankar K., Scientist (Horticulture) gave the information regarding production technologies banana, sucker and nutritional management, special horticulture practices like Denovelling, propping, bunch covering, etc., in banana and explain the importance and uses of banana special. Dr. Nithya shree K., Scientist (Home science) gave the detailed information on value added product in banana.



TUMAKURU -II

ICAR-IIHR Organized a Capacity Building Programme on 'Bee Keeping' for the Tribal Women Shareholders of FPOs at Tumakuru District

ICAR-Indian Institute of Horticultural Research (IIHR) organized a special capacity building programme for the tribal women shareholders of the Arunodhaya Mahila Kazhangium Okkootta® FPO formed by DHAN Foundation exclusively for 'bee keeping' in South India, on 4.7.2023, in collaboration with ICAR-KVK, Hirehalli of ICAR-IIHR and DHAN Foundation at Gulur village of Tumakuru district. The main purpose of the programme is to build the capacity of the women shareholders, so that they indulge in income generation activity, through 'bee keeping'.

Mr. KN Jagadish, SMS (Agrl. Extension), KVK, Hirehalli, welcomed the participants and Dr Loganandhan, Principal Scientist and Head, KVK, Hirehalli, gave introduction about benefits of bee keeping, initiatives of DHAN foundation in establishing the FPO exclusively for bee keeping with all women shareholders and role of KVK, Hirehalli in that noble cause.

Prof. Sanjay Kumar Singh, Director, ICAR-Indian Institute of Horticultural Research (IIHR), while speaking about the benefits of bee keeping advised the FPO to go for marketing of not only the honey but also the wax and the venom of honey bees, which very valuable products for cosmetic and pharmaceutical industry. He suggested the DHAN foundation to establish a small museum of bee keeping activities, so that that will motivate the shareholders of the FPOs to involve with enthusiasm in bee keeping activities and also to go for crop-based bee keeping activity and scheduling of bee activity, so that

the marketing of honey from specific sources will be easy for the FPO.

Dr R Venkattakumar, Principal Scientist and Nodal Officer, TSP spoke about ICAR-IIHR TSP activities. Dr PVR Reddy, Principal Scientist and Head, Plant Protection spoke about practices of bee keeping and the benefits of bee keeping. This session was followed by that of Mr. Vasantha Kumar, Regional Director, DHAN Foundation, who spoke about the significance of women shareholders who constitute the FPO and need to vibrantly do the honey production and marketing. Then, Mr. Jagadish from Department of Horticulture, Tumakuru gave skill training on scientific bee keeping to the women farmers. The programme came to an end with a formal vote of thanks proposed by Dr. Bhagyashree, Scientist, Crop Protection, who has coordinated the programme in association with Dr. N. Loganandhan, Head, Mr. KN Jagadish and Mr. KS Shashidhar, KVK, Hirehalli.

118 women shareholders of the FPO participated in the programme and benefitted. These TSP beneficiaries were distributed with bee hives worth of more than 5 lakhs. They felt satisfied with the programme and opined that visits by the scientists to the fields are required to guide them towards good practices of scientific bee keeping. After the programme, there was a field visit by the scientists to the bee keeping plots maintained by the TSP Beneficiaries in order to guide them about best practices of bee keeping.



UDUPI

Vanamahotsava

A Vanamahotsava programme was organized at Shri Vani higher primary school, Nadoor on 14.07.2023. Students were made aware of Environmental conservation, effect of global warming on environment, Endangered medicinal plants and social responsibility of individuals. Students were guided about taking courses in Agricultural Universities as career option after completion of PUC. Students celebrated vanamahotsava by planting different fruit trees. Dr Dhananjaya B Senior Scientist

& Head KVK Brahmavara and Dr Raviraja Shetty G, Scientist (Horticulture), KVK Brahmavara were served as Resource persons.

Head teacher Ashok Shetty, preceeding Head teacher Vishwanath Shetty were present, Science teacher Shashikala anchored the programme. Social teacher Suguna gave vote of thanks.



Drone Technology in the Modern Agriculture

On 16.07.2023 (Sunday) in view of 95th ICAR-New Delhi foundation day. A 5 days of Agriculture Technology programme has been arranged at ICAR KVK Udupi for the Extension workers/Rural youths/ farm women/ farmers of the district from 16.07.2023 to 20.07.2023.

Dr. Lakshmana Assistant Director of Research, ZAHRS Brahmavar inaugurated the programme & in his inaugural address he mentioned ICAR and KVK's importance and their role in farming community and he appraised the work KVK in the district.

Dr . Dhananjaya B, Senior Scientist & Head , KVK Brahmavara who presided the programme in his presidential remarks he mention the foot

prints of ICAR in 95 years and technology given by these council for the farming community is remarkable.

Dr Naveen N. E , Scientist(Agronomy) KVK Brahmavara resource person for the training programme, highlighted the Role of Drone in Modern agriculture & its usage in Agriculture after the training he gave the method demonstration of Drone Flying in Agriculture crop.

Dr Ravi Raja Shetty G, Scientist (Horticulture), KVK Brahmavara, Dr. Jayaprakash R Scientist (Soil Science), KVK Brahmavara, Dr Sadananda Acharya B, Scientist (Fisheries Science), KVK Brahmavara, Mr. Ranjan Shetty, co-ordinator of DAESI were present in the programme.



UTTARA KANNADA

Diagnostic visit to Problematic Paddy fields

Paddy is the major cereal food crop of Uttara Kannada district, Karnataka cultivated in an area of 45000 ha as rainfed crop either drill sown or as transplanted. Due to the delayed monsoon in June 2023, majority of the paddy area is under drill sown. In Yellapur taluk, 20 to 25 days old drill sown paddy seedlings shown drying symptoms and severe infection of blast disease. Around 20 ha of paddy area in Kalsuru, Madnur, Heggapur was affected by this. In this regard, diagnostic visit



were made to blast affected areas along with KSDA and ATMA staff on 6.7.2023. Due to intermittent drizzling rains and sunshine infection of blast disease was rampant, suggested foliar spray of Tricyclazole 0.6 g or Propiconazole 1.0 ml or

Tebuconazole 1.0 ml per liter of water. Two hundred liters of spray solution was recommended per acre, delay the application of nitrogenous fertilizer and spray should be avoided during rainy hours.

Training and method demonstration to manage low milk SNF, fat and prevent mastitis

The programme was organized by ICAR- Krishi Vigyan Kendra, Uttara Kannada, to primary milk producer co-operative society members of Ajjibala, Siddapur Taluk. The dairy farmers were thought about the reasons for low milk SNF, fat and mastitis and given different tips improve the low milk SNF, fat and reduce the incidence of mastitis. Which include, complete mixed ration preparation, feeding methods, frequency of feeding, inclusion of multivitamins and mineral mix in feed, supplementation of UMB blocks,



regulating the rumen pH, supplementation of rumen specific pre and probiotics, udder immunomodulators, application of pre and post milking teat dips and clean milk production practices. The farmers were also demonstrated with bulk milk

screening to identify the sub-clinical mastitis by CMT kit method. In the programme 24 farmers were participated and provided kits to improve the low milk SNF, fat and reducing the incidences of mastitis to 14 beneficiaries.

VIJAYAPURA -I

Establishment of Drumstick orchard

All staff of KVK Vijaypur-1 was involved in establishing Drumstick orchard in the KVK premises. Nearly 70-80 seedlings of drumstick variety - Bhagya were planted in the field. The farm Manager Mr. Mallappa and SMS (Horticulture), Dr. Kiran Sagar D were taken lead in lay out of the plot and bringing the seedlings and establishment of the unit. During the programme, SMS (Horticulture) highlighted the importance and special characters of Bhagya variety of drumstick to Diploma (Agri) students and staff.

(Kiran Sagar, SMS(Horticulture) & Mallappa.B, Technical officer(Farm))



Processing and Value Addition of Proso Millet

Krishi Vigyan Kendra Vijayapura I conducted method demonstration on proso millet value added products like Proso Millets Masala Dosa, Proso Millet Payasa, Proso Millet Kodabhale and health drink to SHGs members at Daddamatti village. Smt. Shweta A Mannikeri SMS (Home Science) explained about importance of millet consumption in daily life. Need for Processing, value addition, branding labeling and

marketing linkages to SHG group members. Dr. Sangeeta Jadhav Scientist (Animal Science) explained about importance millet based fodder to livestock's. A total 15 Women from Shri Dharmastala SHGs group were participated in method demonstration.

(Shweta A Mannikeri and Dr. Sangeeta

Television programme

A television programme on the topic ICAR KVK Vijayapur activities and their mandates was telecasted on 9th July 2023 in FARM TV Bengaluru. The Scientist (Entomology), Prakash H.T, briefed about the KVK Vijayapur structure and function in collaboration with ICAR and UAS, Dharwad. He narrated the different activities of KVK Vijayapur with respect to diagnostic field visits, Instructional farm management, demonstration units, Soil and water testing facilities, Dairy science, Home

science, Plant protection science etc. He also highlighted different crops and their technologies of Vijayapur district. In this programme even scientist discussed about contingency crop plan under delayed monsoon condition. Totally this programme may helpful to farming community to understand the role of KVK in transfer of technologies.

(Prakash H.T, Scientist, Entomology)

Animal Health cam

Dr. Sangeeta Jadhav, Scientist (Animal science), ICAR-KVK Vijayapura 1 has participated in animal health camp organized by Department of Agriculture in co-ordination with Dept. of Animal husbandry in Kummatagi and Kaggod villages of Vijayapura taluka. In the camp mainly the problems related to reproductive issues such as delayed heat, anoestrus condition, Retention of placenta etc were addressed and accordingly treatments were given. Around 68 animals were given with the deworming and suggestions given for including the multivitamins, mineral mixtures in the daily ration.

(Dr. Sangeeta Jadhav, Scientist (Animal science))



WAYANAD

Training on Value addition of mushroom

Training on Value addition of mushroom was conducted in association with ATMA for farmers from Thooneri block, Kozhikode. Theory class on “Nutritive importance and value addition of mushroom” was dealt by Dr. Safia N.E, Senior Scientist and Head, KVK Wayanad. Practical session on preparation of Mushroom cutlet, Mushroom pickle, Mushroom pakavada and Mushroom bajji were also included in the training. Dr. Arularasan G.S, SMS, KVK Wayanad, welcomed the gathering. A total of 18 participants registered for the training and took active participation in the preparations.



Awareness on Importance of Organic Farming in Coffee

One day awareness programme on “Organic Farming in Coffee” was organized by KVK Wayanad at Nandankavala, Kumbleri, Ambalavayal as part of Cheengeri Scheduled Tribal Development Scheme. Smt. Hafsath C.K, Ambalavayal Grama Panchayath President inaugurated the programme. Presidential address was given by Smt. Jisha Vadakkumparambil, AGM, NABARD. The classes were dealt by Dr. Arularasan G.S, SMS, KVK Wayanad. A total of 46 participants took active participation in the training.



Compiled by

ICAR - Krishi Vigyan Kendra-Alappuzha
ICAR - CPCRI, Regional Station
Kayamkulam, Krishpuram Post
Alappuzha, Kerala Pin : 690 533
Tel : 0479 2449268, 2959268, 9447790268
Email: kvk.alappuzha@icar.gov.in
www : kvk.alappuzha.icar.gov.in



Boat Race



House Boat



Sea Bridge



Scenic Beauty of Alappuzha