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

KVK TIMES

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KVK TIMES
A window to KVKs of ICAR-ATARI Bengaluru

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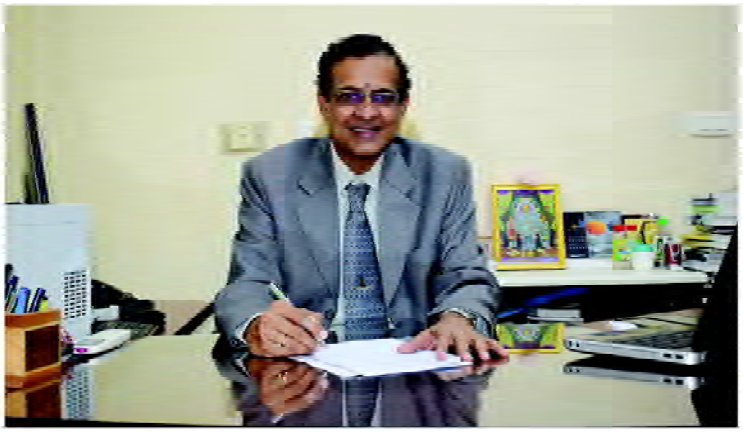

KrishiVigyanKendras are playing pivotal role in handholding of farmers through technological backstopping for enhancing the productivity of crops and enterprise keeping in mind profitability and sustainability. *'Believing through seeing'* and *'Learning by doing'* is most appropriate to the KVKs, as 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, Kozhikode is bringing up the 25thissue of secondvolume of KVK TIMES covering a special note on "Seeds, Planting materials and bio products production" along with the events of first fortnight of July 2024. I congratulate theKVK fraternity of Zone XI specially, Dr. P Ratha Krishnan,Principal Scientist and Head and histeam of ICAR-KVK, Kozhikode for bringing out this unique edition of KVK Times.

(V. Venkatasubramanian)

Bengaluru
12-08-2024

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Message

Agriculture is the backbone of India's economy, driving GDP growth, employment and food security. Over half the population depends on it for livelihoods. Among the diverse crops cultivated, spices have a rich history and significant economic impact. India is the global leader in spice production, consumption, and export, renowned for its wide variety and superior quality. Spices contribute substantially to agricultural income, foreign exchange, and rural employment. Essential to Indian cuisine, they are also highly prized worldwide for their flavour, aroma, and medicinal properties. ICAR-Indian Institute of Spices Research (IISR), Kozhikode, is at the forefront of spice research and development in India. IISR's research has significantly boosted spice production by equipping farmers with advanced technologies and high-yielding varieties.We have successfully commercialized our spice varieties and technologiesthrough licensing agreements with various companies and FPOs and we are the first to host the online portal (www.spiisry.in) for procurement of spices and other related agricultural products online.In 2024 - 25, we will be celebrating our 50th anniversary of serving the farming community.

Krishi Vigyan Kendras are the grassroots level institutions of the ICAR that play a crucial role in bridging the gap between agricultural research and farmers' fields. KVKs are responsible for transferring the latest agricultural technologies developed by research institutions to farmers in a practical and location-specific manner. Our KVK, Kozhikode is working for the betterment of farmers since 1992 and is recognised as one of the best KVKs at zonal level. The centre specializes in boosting farmers' incomes through its flagship programmes like bush pepper cultivation, mushroom farming, beekeeping, ornamental fish culture, backyard poultry rearing, value addition of fruits etc. The Kendra is also producing quality planting materials of major crops, bio-control agents, layer chicks, ornamental fishes etc. The Kendra's impact is evident in the numerous awards won by its supported farmers at district, state, and national levels.

The publication of 'KVK Times' by ATARI, Bengaluru, is a commendable initiative to document and showcase the exceptional work of KVKs of Zone XI. This platform effectively highlights the potential of KVK system as a leading extension agency. I congratulate the KVK Head and team for producing such an informative issue.

Dr. R. Dinesh
Director
IISR, Kozhikode

Message

Krishi Vigyan Kendras (KVKs) are farm science centres operating in each district and serving as first line extension systems of National Agricultural System under the ICAR. They are painstakingly striving to increase farm productivity and farmers' income, attract youth intoagriculture and create self-employment opportunities throughdevelopment of allied enterprises. In addition, KVKs organize andconduct need based skillD capacity building trainings and mass awareness programmes ondiverse scientific aspects of agriculture. Kerala Agricultural University is one of the major technological / knowledge partners of KVKs in Kerala and are very closely associated with all their activities.

KVK times, a novel initiative of ICAR-ATARI, Bengaluru,serves as an effective media to showcase the multifarious activities of KVKs of Zone XI. The present issue ofKVK times,compiled by ICAR, KVK, Kozhikode,emphasizes on Planting materials and Bio-inputs andclearly depicts theimpact of the KVK in the district. Besides, this publicationfunctions as an effectiveplatform for cross learning between KVKs of ATARI Zone XI.

The KVK, Kozhikode team deserves appreciation for their commendable effort. I wish them the very best in all their future endeavours.

Dr. Jacob John
Director of Extension, KAU

Acknowledgement

It gives me extremely proud and privilege to be entrusted with the responsibility to compile and edit the KVK times Vol – 2, Issue no: 25 covering the period 1to 15 July, 2024. I express my sincere gratitude to Dr. V. Venkatasubramanian, Director, ATARI for his guidance and encouragement and Dr. Chandregowda, nodal scientist and all staff of ICAR-ATARI, Zone-XI, Bengaluru for providing us a great opportunity to bring this issue with contribution of all KVKs of this Zone.

It is also my pleasure to express deepest sense of gratitude and heartfelt thanks to Dr. R. Dinesh, Director, IISR, Calicut for the support and care. I am also obliged to Dr.Jacob John, Director of Extension, KAU for his keen interest and their association and contributions. Indeed, it is a memorable period which made all our KVK staff involvement and collect information from all the KVKs located in Kerala, Karnataka and Lakshadweep. This task made opportunity for cross learning and exposed us to the activities of other KVKs. This compilation contains special information about the production of seeds, planting materials, bio-inputs, etc over the past three years (2021 to 23) and seasonal field activities of Karnataka KVKs. Proud to make a compendium for reference with contributions from all the KVKs of this zone. I also wish to thank all my fellow colleagues of KVK family, Zone-XI for sharing the valuable information in time. My heartfelt thanks to my entire team of ICAR - Krishi Vigyan Kendra, Indian Institute of Spices Research, Kozhikode for their continual support and valuable time to collect, compile and draft this Magazine effectively. The efforts by Dr P.S. Manoj and Mr C.K. Jayakumar of this Kendra reserves special thanks.

P. Ratha Krishnan
(Principal Scientist & Head
Krishi Vigyan Kendra, IISR, Kozhikode)

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Spicing Up Homesteads: KVK Calicut's Bush Pepper Initiative

Black pepper, the "King of spices" is a major spice crop cultivated in Kozhikode district. Traditionally cultivated as an intercrop in coconut and arecanut plantations or as a pure crop on various tree standards, its cultivation has been a mainstay for local farmers. Recognizing the space constraints faced by urban and semi-urban dwellers, KVK, IISR, Kozhikode has spearheaded a transformative initiative: promoting bush pepper cultivation. By cultivating pepper in pots without the need for support trees, this innovative approach empowers individuals to harness the potential of this valuable spice even in limited spaces. Through comprehensive training and practical demonstrations, KVK has been at the forefront of fostering black pepper production during the last several years.

To boost awareness and adoption of bush pepper cultivation in Kozhikode and its neighbouring districts, KVK organized 27 comprehensive training programs between 2015 and 2023, reaching 848 farmers. These programs were conducted both on and off-campus to maximize accessibility. Recognizing the burgeoning demand, KVK also ventured into the production and sale of bush pepper plants. A remarkable 32,459 plants were distributed to 7824 farmers, primarily for home gardens. Furthermore, KVK actively promoted potted bush pepper cultivation across various panchayats in the region by providing plants through Krishi Bhavan.

The impact of KVK's training programs is evident in the establishment of approximately 27 nurseries by former trainees. These nurseries generate substantial income, ranging from Rs. 10,000 to a remarkable Rs. 15 lakhs annually. Bush pepper cultivation has flourished in several panchayats across Kozhikode and Malappuram districts, including Velam, Unnikulam, Changaroth, Kayakkodi, Kakkodi, Muthuvalloor, Ponnani, Nediyiruppu, Cherukavu, Kondotty etc.. A significant advantage of this method is its early yield; plants begin producing within six months of cultivation. Mature eight to ten-year-old potted plants can yield an impressive 4 to 4.5 kg of green pepper per year. Bush pepper cultivation emerges as a compelling solution for black pepper production, especially in areas with limited land resources. The technology's rapid proliferation in Kozhikode and surrounding areas is a testament to its success. KVK continues to play a vital role in supporting this initiative through training, demonstrations, and plant production.





ICAR-KVK-Alappuzha

Capacity building programmes on 'Eco-friendly technologies for vegetable production'

Two capacity building programmes on 'Eco-friendly and climate resilient technologies for vegetable cultivation' were organized by the KVK at Kanjikuzhy Panchayath Community Hall and Cherthala South Panchayath Community Hall on 4thJuly and 8th July 2024, respectively. A total of 89 farmers and 6 extension personnel from these two panchayaths attended the programme. Technologies for scientific, eco-friendly and climate resilient production of vegetables were detailed to the participants. The trainees were exposed to new agricultural technologies like foliar nutrition and eco-friendly inputs like dolomite, bio-agents, nutrient mix, and pheromone traps. Smt. Rosmi George and Smt. Milu Herbert, Agricultural Officers also addressed the participants.

At Kanjikuzhy Panchayath Community hall

At Cherthala South Panchayath Community Hall

Internship/Skill training programmes to B. Tech students on 'Agro-processing'

Three students undergoing B Tech (Food Processing) at Saint Gitts College, Kottayam underwent an internship cum skill training programme for five days from 1st to 5th July, 24 at the Agro-Processing Training cum Incubation Centre (APTIC) of the KVK. The students interacted with a group of officers of Dept. of Agriculture from Kanyakumari and Thoothukudi districts of Tamil Nadu who were on an exposure visit to the centre on 2nd July. They could take part a one day training programme on 'Value added products of nutmeg rind' attended by six entrepreneurs from Alappuzha and adjoining districts on 3rd July. The students also participated in a training programme on 'Value added products of vegetables and coconut' organized for a group of visiting farmers from Trivandrum district on 5th July. Excited over the exposure and experience gained, the students exuded confidence in promoting innovative activities in the sector.

Students on internship programme

A. Innovative ways and means followed to enhance KVK- RF

This KVK has been following many innovative approaches to maintain, upgrade and expand the RF activities as per the requirements of the farming community of the district.

- Ensuring the availability of quality inputs throughout the year and the agro-clinic based prescriptions to farmers have helped to achieve the credibility and dependability of farmers and hence the footfall was steadily on the rise.
- QR codes provided on some of the inputs like pheromone traps help the farmers to have a clear and scientific understanding of the use of such inputs in eco-friendly crop production.
- Advance booking facility for inputs like layer chicks and mushroom spawn is available and intimation to them for collection helps the farmers to save their time and resources.
- Customized delivery of inputs especially for implementation of schemes of the Govt. departments attracts them to avail the services of the KVK.
- Paid training programmes conducted by the KVK through the RF are well appreciated and ensured the presence of genuine and enthusiastic participants, who take part in the programmes seriously and follows up with the technical hand holding of the KVK for establishing their units or enterprises for income generation.
- Project works, internships and skill trainings of students are also taken up in a comprehensive, organised and practical mode under RF which attracts a lot of students.
- A full time sales counter is operational in the KVK with facilities of cash and digital payments.
- Helpdesk of the KVK with two land phones, one mobile phone and WhatsApp facility attended throughout office hours also helps the customers to get information on the availability of inputs and services to plan their visit to the KVK.

B. Production of technological inputs (January 2021 to December 2023)

Sl No	Item	Quantity / Number			Income generated (Rs.)			Farmers benefitted (No)		
		2021	2022	2023	2021	2022	2023	2021	2022	2023
1.	**Seeds (vegetable & spices) (q)**	1.52	1.08	1.26	56940	59375	62310	648	692	689
2.	**Planting materials (No.)**	20433	21449	23987	576970	577318	676723	1329	1436	1594
3.	Bio pesticides (ltr)	80.4	152.1	202.4	27970	79610	61060	336	684	793
4.	Traps (No)	631	1207	1838	40430	63585	110710	289	735	822
5.	Bio-agents (q)	10.74	8.98	7.15	101550	80730	69230	1585	1014	1039
6.	Organic	15.45	6.13	6.75	15450	6130	6750	118	54	73

	manure (q)									
7.	Micro nutrients (q)	1.66	1.12	1.41	49650	35310	42210	792	589	694
8.	Mushroom spawn (q)	11.7	10.3	13.2	172635	155160	198000	268	258	321
9.	EM solution (ltr)	651	961	1106	39060	57660	66360	298	389	538
10.	**Animal & Fish Products** i) Layer chicks (No)	8059	6882	2432	1003197	901690	324800	498	403	189
	ii) Cow, Male goat, calves (No)	2	8	3	58650	157650	12500	2	4	2
	iii) Milk (Cow & Goat) (ltr)	2302	3944	355	103575	178482	17178	27	26	8
	iv) Tilapia Fish (kg)	21.3	53.2	32.6	4300	10640	6500	29	33	21
	v)Duck egg (No)	963	788	-	7704	6304	-	23	29	-
11.	**Value added Products**									
	i)VCO (ltr)	55.5	51.3	53.3	41625	48045	48195	73	61	59
	ii)Squash (ltr)	138	146	78	8250	10185	5850	83	92	61
	iii)Jam, Pickle, etc. (Kg)	7.9	5.3	8.1	3986	2438	4305	14	13	18
	iv)Honey (kg)	71	112	87	28540	42200	32470	93	123	119
	v)Turmeric powder (kg)	19.8	12.8	16.8	6930	4473	5880	53	42	44

Entreprenuer collecting mushroom spawn

Plant propagation unit

Kadakknath layer chick production

ICAR-KVK-Bagalkote

With regard to implementation of On Farm testing on assessing the performance of improved backyard poultry, breeds such as Sonali and Kaveri chicks of four week old were distributed to the farmers of Billkerur village of Bagalkote taluk on 09.07.2024.

On 15.07.2024, at Chikkur village of Mudhol taluk 50 plant saplings were planted at Sri Sathya Sai Niketanam school with regard to planting programme. Fifteen varieties of kitchen garden seeds were sowed in the school for the healthy consumption of foods for children

On 15.07.2024, at Hangaragi village nutri-garden seeds, trichoderma was distributed and training was conducted with regard to nutri-garden management for farmers and farm women where 38 farmers were present.

A. Salient achievements in the production of technological inputs (January 2021 to December 2023)

With regard to seed production, in the year 2021, 203.42 quintal seeds were produced amounting to Rs. 16,45,995/- followed by 565 quintal seed production in the year 2022 with income generation of Rs. 18,46,703/- where 680 and 970 farmers were benefitted in the respective years. In the year 2023, seed produced was 508.2 quintal accounting for income of Rs. 14,38,815/- with 756 farmers being benefitted.

In terms of planting materials, in the year 2021, 3601 number of planting materials being produced amounting to rupees 1,09,125/-. In the year 2022, it accounted for production of 2818 planting materials with income being generated for Rs. 107735/-.

With regard to bio-inputs, in the year 2021, 1538 quintal was produced amounting to Rs. 308400/- with 300 farmers being benefitted. In the year 2022, 1258 quintals of bio-inputs were produced with the income generation of Rs. 203370/- with 250 farmers being benefitted. In the year 2023, 0.756 quintals of bio-inputs were produced with the income generation of Rs. 141300/- where 200 farmers were benefitted.

Regarding animal/fish making products, in the year 2021 nine goats were marketed with the income of Rs.33750/- with nine farmers being benefited. In the year 2022, seven goats were marketed with the income of Rs. 35000/- with seven farmers being benefited. Seven goats were marketed with the value of Rs. 3500/- with seven farmers being benefited.

Photographs related to seeds, planting materials and bio products production

B. Production of technological inputs (January 2021 to December, 2023)

Sl. No.	Item	Quantity (q) / Number			Income generated (Rs.)			Farmers benefitted		
		2021	2022	2023	2021	2022	2023	2021	2022	2023
1.	Seeds	203.42	502.8	231.5	1275900	1846703	1438815	680	970	750
2.	Planting materials	3601	2818	2565	109125	107735	108714	260	242	300
3.	Bio products	1538	1258	0.756	308400	203370	141300	300	250	200
4.	Animal/ fish related products	9 (Goats)	7(Goats)	7 (Goats)	33750	35000	35000	9	7	7

ICAR-KVK-Ballari

"Greening Chellagurki: World Environment Day Celebration"

Chellagurki village in Ballari district witnessed an inspiring celebration of World Environment Day, organized by Krishi Vigyan Kendra (KVK) scientists in collaboration with a local NGO. The event, held at the village school, featured a range of activities aimed at promoting environmental awareness and sustainable practices.

The day began with an inaugural ceremony attended by the village Gowdru, Guruji, and other distinguished guests, where the KVK scientists emphasized the importance of environmental conservation and sustainable agricultural practices. The speech highlighted the urgent need for community involvement in protecting the environment and adopting eco-friendly practices.

One of the major highlights of the event was the tree plantation drive. The KVK scientists demonstrated proper planting techniques and the care required for nurturing saplings. A total of 200 saplings were planted, including a variety of native and ecologically beneficial species. The big trees planted were neem, peepal,, mango, tamarind, jackfruit, Indian almond (*Terminalia catappa*), rain tree (*Albiziasaman*), Indian beech (*Pongamiapinnata*), and gulmohar (*Delonix regia*). These saplings were carefully chosen for their ecological benefits, such as providing shade, improving air quality, supporting biodiversity, and enhancing the local environment.

Educational sessions conducted by the KVK scientists covered crucial topics such as biodiversity, the impact of climate change, and the vital role of trees in maintaining ecological balance. The sessions were interactive, encouraging students and community members to ask questions and share their thoughts on environmental issues.

The event successfully raised awareness and instilled a sense of responsibility towards sustainable living among the participants. The organizers expressed their commitment to continue such initiatives, with future plans including follow-up workshops on advanced topics such as water conservation, organic farming, and renewable energy. There will also be regular monitoring of the planted saplings and efforts to encourage greater community involvement in environmental conservation activities.

The World Environment Day celebration in Chellagurki village stands as a testament to the power of community collaboration in fostering environmental stewardship and sustainable development.

ICAR-KVK, Ballari : Supply hub of Rainfed crop seeds to farming community of Ballari and Andhra Pradesh

ICAR-KVK, Ballari an integral part of University of Agricultural Sciences, Raichur, Karnataka having 25 acre dry land area mainly focusing on production of rabi crop seeds production activities. In this connection, the KVK, Ballari is regularly involving in seed production of improved high yielding, disease tolerant varieties of Chickpea (BGD-103, NeBG-47, JG-11), Safflower (PBNS-12) and Foxtail millet (HagariNavane HN-46).

The quantity of seeds produced by KVK, Ballari being marketed at the sale counter of KVK campus as per the UAS, Raichur guidelines to Ballari and Andhra Pradesh farmers

Sl.No	Seed produced	Type of seed produced	Quantity Produced
2021-22			
1	Bengal gram (BGD -103)	Certified seed	47.30
2	Foxtail millet -HN-46	TL seeds	20.25
3	Safflower-PBNS-12	TL seed	12.35
4	Ragi-HR-13 and GPU-67	TL seed	7.50
2022-23			
1	Bengal gram (BGD -103)	Foundation seed	103.40
2	Foxtail millet -HN-46	TL seeds	3.85
3	Safflower-PBNS-12	TL seed	19.50
4	Fodder sorghum (CoFS 31)	TL seeds	3.75
2023-24			
1	Bengal gram (JG-11)	Certified seeds	39.40
2	Safflower-PBNS-12	TL seeds	19.85

Nearly 10,000 ha area of chickpea, 5000 ha area of safflower and 650 ha foxtail millet has been expanded.

ICAR - KVK - Belagavi - I

Fish Net Making Training

KVK Belgavi-1 has conducted 5 days training from 9th to 13th July, 2024 on 'Fish Net Making' sponsored by PM Vishwakarma Scheme. The beneficiaries had undergone pre-training assessment and later five days introductory training with practicals on fish net making. After the training, final day assessment was performed by the external evaluation team. All the twenty trainees were able to pass the exams and obtained the certificates. These certificates play instrumental role in availing the loan from PSU banks for upgrading the profession of 'Fish Net Making.' Adarsha H. S. Scientist (Fisheries) was the organizer of this training in KVK, Belagavi-1.

ICAR-KVK, Belagavi -1

Innovative ways to enhance the KVK revolving fund

Showcase and out let of KVK Products at KVK building premises

All available products from KVK and SHG supported and those products prepared for commercial selling as well as products prepared from the training output is placed in selling counter. Our store is placed in welcome gate and products are packed in beautiful way so it will attract the buyers and visitors to KVK. This showcase is helping about more enquiries about training as well availability of ready product.

A small mobile showcase with office vehicle of KVK

While going to visit a mandated programme of FLDs and OFTs by different scientists., we are carrying a small mobile unit containing important products of our KVK. Also we take the products and informative material so that villagers while approaching to the KVK vehicle they can see the availability and their price for selling. So they book the products or come to purchase at the KVK.

KVK showcase at Reliance mall and super market

The edible and processed products prepared by KVK or SHG promoted by our KVK has been put in the mall as showcase. So the visitor and purchaser have way out see the products and purchase for test trial.

KVK Training and product selling

Likewise, in KVK whatever the training conducted and products prepared and information given to the trainees. Interested customers will purchase from respective departments. Planting material, vermicompost, live worms, fish fingerlings and processed products included.

KVK stall at Village fair and exhibition

It is prime opportunity to KVK to exhibit the work and resources available at KVK during the exhibitions. In this, product display as well as live demos and video playing on screen shows all the activities of KVK. This is very popular method to reach to the common people.

Production of technological inputs (January 2021 to December 2023)

Sl. No	Item	Quantity (q)/Number			Income Generated (Rs)			Farmers Benefited		
		2021	2022	2023	2021	2022	2023	2021	2022	2023
1	Seeds	125.11	45.60	323.73	424970	352140	387514	220	107	242
2	Planting Materials	37,940	19082	1,02,474	2,50,120	113900	214334	113	175	264
3	Bio products	63.6	59.15	41.183	58700	1,63,885	239639	65	147	96
4	Animal/fish related products	4398	22000 & 10.72q	3484	355450	8,87,030	756500	326	322	848
5	Value added products	10	46	55	3500	7000	8500	10	46	25

ICAR - KVK - Belagavi - II

Workshop on Organic Farming in Dry Lands

His Holiness ParamaPujya Shri AdrushyaKadsiddeshwarSwamiji, Shri KshetraSiddhagiri, Kanerimath presided over and delivered key note address on Organic Farming during a 'Workshop on Organic Farming in Dry Lands' organized jointly by ICAR-KLE KVK, Belagavi-II and Shri Siddhagiri Natural & Organic Farming Farmers Group at Marakumbi village, Savadatti taluk, Belagavi district on 10.07.2024. During the inaugural address, Shri MahanteshKoujalgi, Hon'ble MLA Bailhongal& President, KLE Society, Belagavi praised the efforts Pujya Shri Kadasiddeshwarmath for production of organic farming inputs in Maharashtra and Karnataka. He suggested farmers to visit KVK and act as per Scientist's suggestion to mitigate abhorrent weather situation in agriculture sector.Mrs. Sridevi Angadi, Senior Scientist & Head, ICAR-KLE KVK, Belagavi-II explained KVK activities like demonstration on crop cafeteria, horticulture orchards, nursery, protected cultivation natural farming, seed processing unit, dairy farming, etc.

Certificate Course on Soil Health Management

As part of certificate course on Soil Health Management to college students under new education policy, S M Warad, Scientist (Soil Science) delivered and interacted with students on management of salt affected soils and natural farming practices at KLE's Bagewadi College of Arts , Science and Science, Bagewadi on 6th July 2024.

Off campus training programme

Off campus training programme was organized at Neginal village of Bailhongal taluk on 'Integrated Crop Management in Soybean' in collaboration with ADM Agro Industries India Pvt. Ltd., G.B. Vishwanath, Scientist (Agronomy) has explained soybean varieties and their characteristics, seed treatment with chemical and bio-fertilizers, seed rate and spacing.

Anotheroff-campus training programme was organized on 'Integrated Pest and Disease Management in Soybean' at Mutnal village of Belagavi taluk on 08.07.2024. Dr. S.S. Hiremath, Scientist (Plant Protection) highlighted different insects and disease management measures in soybean such as management of stem fly, girdle beetle, blue beetle, Spodoptera, diseases like sclerotium wilt, rust, leaf spot, pod blight, bacterial blight, charcoal rot, yellow mosaic diseases etc.

ICAR-KVK, Belagavi -2 - Mattiikop

KVK is involved in seed production programme of field (cereals, pulses and oilseeds) crops for producing recently released varieties and making it available to the farmers on time during the season. The seed production programme is taken in farmers participatory mode and capacity development programmes are organized for screening off type and nutrient, water and weed management. The recently released varieties are taken up in the seed production programme and same are being supply to the farmers before on-set of the season to keep farmer tension free and to avoid last minute rush for purchase of seeds. The seeds produced by the KVK are popular among the farming community and farmers rush to the KVK for purchase of the seeds. KVK organizes *Kharif* seed mela during the last week of May and *Rabi* seed Mela during the last week of September and make available the varieties of seeds to the farmers with an intention to increase the net income of the farmers as compared to local practices. The literature on package of practices to be followed in the crop growth period is also provided along with seed kit.

There is huge demand for quality planting material of high yielding varieties of various horticulture crops. The plant propagation unit established in the campus is engaged in production of quality planting material of fruit crops like mango, lime, jamun, vegetable and ornamental seedlings. These planting materials are regularly being purchased by the farmers of the region.

The production of fruits, vegetables and other horticultural products under protected cultivation can overcome major constraints such as pests and diseases and biotic stresses and can be managed appropriately. The Krishi Vigyan Kendra identified specific pest and diseases problem in major crops of Belagavi district and special emphasis on integrated pest management was given thrust to minimize the cost of plant protection as well as to minimize/eliminate the pest incidence. Similarly, an integration of different pest management methods is provided as a permanent solution against various pests. For development of model IPM Villages, the KVK selected farmers to adopt IPM in the crop production.

Production of technological inputs (January 2021 to December, 2023)

Sl. No.	Item	Quantity (q) / Number			Income generated (Rs.)			Farmers benefitted		
		2021	2022	2023	2021	2022	2023	2021	2022	2023
1.	Seeds (*Rabi* Jowar, Soybean, etc.)	66.95	3956.23	1110.65	14,72,700	28058950	6342963	505	6,641	4384
2.	Planting materials (Vegetables, Mango, Lime, Coconut)	26071	52267	49657	70813	1,83,157	103035	401	1172	335
	Bio products (*Rhizobium*, PSB, *Azatobacter*, VAM, *etc.)*	4706.2	13308.5	10066	789565	593295	587078	1170	1158	755

ICAR-KVK-Bangalore Rural

Training programme: Importance of Seed treatment and method demonstration under SCSP

ICAR – Krishi Vigyan Kendra, Bengaluru Rural District implemented the Frontline demonstration on Introduction of new finger millet variety(ML-322) for late *Kharif* season under SC-SP programme at Hiremuddenahalli, Doddaballapura taluk as a part of demonstration a training programme was organized on 06.07.2024, entitled "Importance of seed treatment and method demonstration on seed treatment in Ragi" by Dr.Venkategowda, J., Scientist (Agronomy) he explained the importance of seed treatment in finger millet with azospirillum and other cultivation practices to be adopted from sowing to harvesting viz., fertilizer application, varietal selection and crop protection measures to be adopted for getting higher returns. After completion of training and method demonstration Finger millet seeds were distributed to the beneficiary farmers.

"Demonstration of climate resilient practices in pigeon pea" was implanted in the month of July 2024. Dr.Venkate Gowda, J., conducted training programme on Improved cultivation practices of Redgram and importance of Seed treatment with *Rhizobium*. Mrs. Meghana, S.V. has initiated the Demonstration of bio fortified finger millet variety CFMV-1 Indravathi for value addition and distributed the seeds of Finger millet variety CFMV-1. She briefed the nutritive value and importance of value addition millets on 10.07.2024.

Certificate distribution programme to DAESI students.

ICAR – Krishi Vigyan Kendra, Bengaluru Rural District organized the Certificate distribution programe to DAESI candidates for two batches on 05.07.2024. The programme was inaugurated by the Dr. V.L. Madhuprasad, Director of Extension, UAS, Bangalore, Dr. Narayana Reddy, State Nodal Officer (SAMETI), UAS (B), Mr. Yathish, Coordinator, ATMA Project, Dept. of Agriculture, Bengaluru Rural District, GoK. Dr.Hanumantharaya, B.G. Senior Scientist & Head, welcomed the dignitaries, DAESI candidates and all the gathering to the programme. Dr. V.L. Madhuprasad explained the role of input dealers and their responsibilities. The dignitaries distributed the certificates to the input dealers of 7th and 8th batch. Totally, 77 candidates from two batches received the DAESI diploma certificates. All the Scientists and staff of ICAR – Krishi Vigyan Kendra, Bengaluru Rural District were presented in the programme. The complete programmes were coordinated by Dr.Veeranagappa, P., Scientist (Soil Science). The candidates expressed their opinion on DAESI classes and requested to include few practical classes for the benefit of future candidates. The programme ended with vote of thanks.

ICAR-KVK, Bengaluru Rural

As per the mandate of KVK, production of quality seeds, planting materials, bio-products and animal related products for purpose of demonstration and supply to farming community has been taken up on KVK farm in different crops *viz.,* Cereals, Pulses and green manure crops. In cereals mainly ragi and maize seed production is being carried out. In pulses red gram, field bean, cowpea etc. are undertaken. KVK is producing truthfully labelled (TFL) seed to make available to the farmers. The activity is gaining multiplier effect to benefit farmers of the district.

The horticulture nursery was started in the year 2009-10 with a view to produce quality saplings for the diversification of the cropping pattern and for dry land horticulture in the operational area. KVK is producing planting materials of fruits *viz.,* Jamun, Jack, Mango, etc., flowers, plantation crops, vegetables, forest species, ornamental and medicinal plants.

The KVK not only deals with the technology transfer but also provides inputs such as bio-fertilizers and bio-agents to the farmers. The bio-fertilizer mainly vermicompost is a method of making compost using earthworm, which eats biomass and excreta in digested form. It helps to maintain nutrient flow and minimize environmental degradation. KVK also took initiative to promote the vermicompost production as self-employment enterprise.

The KVK is having livestock component includes dairy animals, sheep, goat, piglets and poultry birds. The local people were showing keen interest in purchasing the white Yorkshire piglets and swarnadhara poultry birds. Looking at the demand from the farmers, KVK also took interest and provided the facility to the farmers in getting the piglets and poultry birds at reasonable price.

B. Production of technological inputs (January 2021 to December, 2023)

Sl. No.	Item	Quantity (q) / Number			Income generated (Rs.)			Farmers benefitted		
		2021	2022	2023	2021	2022	2023	2021	2022	2023
1.	Seeds	23.5	3.24	64.7	95,900	32400	302810	378	72	980
2.	Planting materials	2816	2004	3500	175168	154025	242505	797	151	780
3.	Bio products	-	-	340	-	-	34000	-	-	20
4.	Animal/ fish related products	47	39	25	66800	107965	223640	36	30	17
5.	Value added products	-	-	-	-	-	-	-	-	-

Nursery unit

Vermi compost unit

ICAR-KVK-Bidar

Empowering Farmers: A Comprehensive Training on Climate Resilient Agriculture

A one-day training session on **"Climate Resilient Agriculture"** was organized on Friday, July 12, 2024, at 10:30 AM. This event, held in association with Reliance and Pravardha NGOs, took place at the ICAR-KVK, Bidar, near Janwada, Bidar District. The event aimed to equip farmers with the knowledge and techniques necessary to adapt to the evolving climate.

Shri Chandrakatha Patil, a key speaker, emphasized the importance of adopting appropriate farming measures in response to climate changes. He highlighted the commendable efforts of Pravardha and Reliance organizations, as well as the technical support and training provided by Krishi Vigyan Kendra, Bidar.

Dr.Sunilkumar N.M., Head, ICAR-KVK, Bidar, presided over the event. In his address, he elaborated on the various frontline demonstrations conducted by the KVK, Bidar. He encouraged farmers to explore forest farming opportunities. The training commenced with a presentation by Dr. Basavaraj Biradar, a meteorologist at the ARS, Bidar, who detailed the current rainfall patterns.

Dr. Vijaya Mahantesh followed, providing insights into the application of liquid fertilizers. Dr.Ningadalli Mallikarjun, a horticulture expert, shared valuable information on cultivating rainfed fruit trees. Seed scientist Dr.Gnyandev Bulla explained yield-enhancing techniques for key crops, while Dr. Majeed Pasha from Agriculture Diploma College, Bidar, delivered a lecture on soil and water conservation.

During the event, successful farmers who had doubled their income were honoured, showcasing practical success stories. The training concluded with a guided tour of KVK Bidar demonstration sites, where participants received detailed information on various technologies.This collaborative effort underscores the vital role of knowledge and innovation in empowering farmers to tackle climate challenges effectively.

SEEDS, PLANTING MATERIALS AND BIO PRODUCTS PRODUCTION

B. Production of technological inputs (January 2021 to December, 2023)

Sl. No.	Item	Quantity (q) / Number			Income generated (Rs.)			Farmers benefitted		
		2021	2022	2023	2021	2022	2023	2021	2022	2023
1.	Seeds	23.00	1.00	30.00	129000	4000	210000	130	4	246
2.	Planting materials	3550	2700	7000	43500	36500	16000	73	43	102
3.	Bio products	25.00	29.06	11.00	123100	216000	65000	61	78	1350
4.	Animal/ fish related products	18	14	12	69000	51000	48000	10	9	5

ICAR-KVK-Chamarajanagara

Capacity building programme on Agro Ecological Practices for Community Resource Persons (KrishiSakhis) of farm livelihood – Module II

Six days capacity development programmes on **Agro Ecological Practices for Community Resource Persons (Krishi Sakhis) of farm livelihood - Module II** was organized by SANJEEVINI- Karnataka State Rural Livelihood Promotion Society, Department of Skill development, Entrepreneurship and Livelihood, GOK in collaboration with UAS, Bangalore, at **ICAR KVK, Chamarajanagara** from **01.07.2024** to **06.07.2024 and from 08.07.2024 to 13.07.2024** for **33** stakeholders each batch. Different sessions covering the detailed aspects of topics like understanding &analysing rural livelihood, skills of facilitation, agro-ecology, agri-nutri garden, soil health management, crop selection & practices, seed – sources & seed treatment, agronomic practices, IPDM practices for plant protection and assessment & planning were deliberated and practically demonstrated.

Krishisakhis presenting skills of facilitation

Soil sampling by Krishisakhis

Distribution of organic certificates and organic inputs under NABRD funded project "Demonstration of Organic Turmeric Cultivation"

In collaboration with NABARD, ICAR KVK Chamarajanagara organised a capacity building programme on 09.07.2024 at KVK. Hon'ble Vice Chancellor, UAS Bangalore in his speech congratulated the farmers who got certified their lands for a period of two years under technical guidance of KVK and financial support of NABARD. An exhibit of organic and bio inputs was arranged for the stakeholders. DDM NABARD, Director of Education UAS Bangalore, progressive organic farmers, youth farmers, CEO FPO Udigala and KVK scientists participated in the programme

Distribution of organic certificate by Hon'ble Vice Chancellor

Distribution of organic inputs by DDM NABARD

ICAR-KVK Chamarajanagar

Being one of the mandates, production of quality seeds, seedlings and bio products plays a major role in signifying the quality services to farming community in a way towards sustaining production, income and resources. KVK Chamarajanagara has provided quality seeds, seedlings and bio products encompassing irrigated and rainfed farming to more than 10000 farmers and covering major crops of the district. To achieve healthy crop growth and profitable yields, quality seeds and planting materials serve as a basis and they are region suitable and pest & disease free.

For the last three years, the following quantity of seeds, seedlings and bio products have been produced at KVK and provided to farmers of the district.

Sl. No.	Item	Quantity (q) / Number			Income Generated (₹)			Farmers benefitted		
		2021	2022	2023	2021	2022	2023	2021	2022	2023
1	Seeds	31.2 q	23.1 q	24.8 q	1,06,680	50,734	74,040	311	231	247
2	Planting materials	25,387 Nos.	68,101 Nos.	2609 Nos.	1,67,193	1,51,815	1,72,330	1015	2270	105
3	Bio-products	194.87 q 902 L	206.4 q 1102 L	240.7 q 1129 L	14,45,090	16,09,480	17,80,270	2165	2248	2237
4	Animal / fish related products	15 nos.	26 nos.	11 nos.	1,14,210	1,87,000	1,14,500	08	05	03
5	Value added products	0.335 q (Honey) 20 nos. (Cocoon Bouquets)	-	1.01 q	12,060	-	29,440	67	-	51

Improved varieties provided to the farming community through KVK have resulted in increased yield and income especially pulses. Good number of growers in the districts is seed producers of improved varieties of green gram, black gram and turmeric in PPP mode. FPOs are also involved in seed rhizome production of improved turmeric variety Pratibha. These extension activities have resulted in timely supply of quality seeds and planting materials in selected crops to a significant extent. Further, the bio products that are provided to the farmers especially horticulture producers has resulted in a reduction of plant protection chemical sprays by 2 – 3 per acre and 10-15 per cent increase in yield of major crops with additional income. Pesticide consumption has been reduced over three years and has benefited ecosystem services.

Nursery unit. ICAR KVK Chamarajanagara

Turmeric Var: IISR- Pratibha - PPP seed production

ICAR-KVK- Chikkaballapura

ICAR-KVK, Chikkaballapura organized off campus training programme on integrated crop management in castor under cluster front line demonstration programme on 09.07.2024 at Hossuru village of Gouribidanur taluk. Dr. Sandhya Scientist (Soil Science) explained about improved cultivation practices in castor. Dr.Tanweer Ahmed, Scientist (Agricultural Extension) highlighted about importance of oil seed production and cluster front line demonstration. Dr. Swathi Scientist (Plant pathology) explained about management of pest and diseases of castor crop. Further distributed castor seeds under CFLD on oilseeds for 25 beneficiaries.

Off campus training programme on integrated crop management in castor

ICAR-KVK Chikkabellapura

ICAR-Krishi Vigyan Kendra, Chikkaballapura is serving as knowledge centre as well as resource centre in the district by providing the critical inputs like seeds, planting material, bio products etc., for the benefit of the farming community. Improved finger millet seeds like ML-365, MR-1,MR-6, KMR-316, KMR-630, red gram varieties like BGR-1, BRG-3 and BRG-4, field bean varieties like HA-4 and HA-5, improved fodder varieties like CoFS-29 and CoFS-31 and other seeds based on the demand are made available to farmers at KVK. Further planting materials like drumstick, *Coleus aromaticus*, multi vitamin etc., were sold at KVK. Bio products like trichoderma, pseudomonas, waste decomposer, rhizobium, phosphorus solubilizing bacteria etc., were also made available for farmers.

Along with the above inputs, ICAR-KVK, Chikkaballapura has established Agriculture Technology Information centre (ATIC) to provide technology in single window. Micro nutrients like mango special, vegetable special, seeds, microbial consortia, pheromone traps etc. are made available. Also Seed production activity is carried in KVK farm to produce good quality seeds. All these interventions are contributing to the revolving fund of KVK.

Sl. No.	Item	Quantity (q) / Number			Income generated (Rs.)			Farmers benefitted		
		2021	2022	2023	2021	2022	2023	2021	2022	2023
1.	Seeds	24.50	16.30	14.13	85500	58680	58515	490	320	260
2.	Planting materials	1663	3050	1023	186456	36600	12276	11	45	09
3.	Bio products	16.33 + 960 bottles	1.25 Kg	00	205202	1138	00	2045	01	00
4.	Animal/ fish related products	5578 litres 32	6402 litres 21	8486 litres 25	184091	211297	280053	08	15	19

Seed production plot

Sale of improved seeds

ICAR-KVK- Chikkamagaluru

"Integrated Plant Protection Practices in Horticultural Crops" under "Skilling in Agriculture" for Schedules Caste farmers

ICAR, New Delhi, KSNUAHS, Shivamogga, OFRC, Shivamogga and KVK, Mudigere jointly organized three days training programme on Integrated Plant Protection Practices in Horticultural Crops under SCSP scheme from 03.07.2024 till 05.07.2024. The programme was organized at Krishi Vigyan Kendra, Mudigere and coordinated by Dr.Suchithra Kumari, M.H., Scientist (Plant Protection), KVK, Mudigere. The training programme was inaugurated on 03.07.2024. Associate Director of Extension, Dr.Shivaprasad, M., Dr. Srinivas, V., Dean (Hort.), College of Horticulture, Mudigere, Senior Scientist and Head, KVK, Mudigere, Dr. A.T. Krishnamurthy, Taluk KrishikSamaj, Mudigere, President, Mr. D.L. Ashok Kumar presided the inaugural function. Dr.Suchithra Kumari, M.H., welcomed the guests and gave the information on the objective of the training programme.

The training programme was inaugurated by Mr. D.L. Ashok Kumar and said that such programmes are required to uplift SC community by way of enhancing their knowledge to adopt management practices to get good yield. Chief guest Dr. Srinivas, V. said that identification of the pests and diseases is required to adopt right measures at right time for their management. Dr. A.T. Krishnamurthy said that the training programme would be successful when the trainees adopt the practices in an integrated approach. Dr Shivaprasad, M. said that the trainees should make use of this opportunity for their wellbeing.

Thirty five farmers from Chikkamagaluru district participated in the training programme. Both theoretical and practical sessions were covered on identification of pests and diseases in different horticultural crops like fruit crops, flower crops, plantation crops and vegetable crops by Dr.Suchithra Kumari, M.H., Dr. Pallavi, M.S., Asst. Professor of Pathology, ZAHRS, Mudigere and Mr. Syed Imran, Asst. Professor of Entomology, COH, Mudigere. Mr. Gajesh, Entrepreneur from Mudigere taught practical session on use of plant protection appliances. Lecture on Nursery techniques in horticultural crops was delivered by Dr. Suresh Kumara, B., Scientist (Horticulture), KVK, Mudigere, Cropping systems in managing pest and diseases was delivered by Mr. Syed Imran. The lecture on the deficiency symptoms in horticultural crops was delivered by Dr. Prashanth, G.M., Scientist (Soil Science), KVK, Mudigere in order to differentiate between the symptoms caused by pest and disease and deficiency symptoms. Dr. A.T. Krishnamurthy delivered lecture on sources of horticultural crop information and marketing.

On third day, the concluding session was chaired by Associate Director of Extension, Dr.Shivaprasad, M., Senior Scientist and Head, KVK, Mudigere, Dr. A.T. Krishnamurthy, Progressive farmers Mr. Lakshmana Gowda and Mr. Poornesh.

ICAR-KVK, Chikkamagaluru

Sl. No.	Item	Quantity (q) / Number			Income generated (Rs.)			Farmers benefitted		
		2021	2022	2023	2021	2022	2023	2021	2022	2023
1.	Seeds	0.11	-	-	5932.5	-	-	6	-	-
2.	Planting materials	20620	16869	8441	357021	2,76,236	1,32,846	431	377	223
3.	Bio products	1650	799	777	233930	1,23,500	84,050	22	16	13
4.	Animal/ fish related products	10285	2255	2161	607946	3,74,662	2,58,863	406	256	213

ICAR-KVK- Chitradurga

SCSP training programme on integrated management of pest and diseases in Arecanut

A two days training programme on Integrated pest and disease management in Arecanut crop was organized in collaboration with Organic farming research Centre Shivamogga for the farmers selected under SCSP programme from 8th to 9th of July 2024 at KVK, Chitradurga.

Dr. Kumara O., Senior Scientist and Head, KVK, Babbur farm, Hiriyur inaugurated the programme and during his inaugural speech he discussed about various activities carried out by KVK. Mainly the advisory services provided to the farmers on management of pest and diseases in Arecanut, Maize and other crops grown in Chitradurga district. He also discussed about the varied weather parameters such as Rainfall pattern, high temperature etc., that affects the crop growth. He also suggested the farmers to grow vegetables and green leafy crops, which are of short duration and fetch more returns.

Dr. S. Onkarappa, Scientist (Plant Protection), KVK Babbur farm participated in the programme and Welcomed all the guests. Dr. Saraswathi J.M., Scientist (Home Science), extended the vote of Thanks, Mrs. Geetha Kumari B N, Senior technical Officer, KVK hosted the programme.Around 40 farmers and Farm women from various taluks of Chitradurga have participated during the programme.

Event report of Krishi Sakhi Module III training Batch I

A training programme for Krishi sakhis of Chitradurga district on Module III was organized from 8th to 13th July 2024 at KVK Chitradurga in collaboration with NRLM, Zilla panchayath Chitrdadurga. The programme was inaugurated by Dr. Kumara O., Senior Scientist and Head and during his speech he discussed about the importance of role of Krishi sakhis in implementing various schemes of department of Agriculture. He insisted the participants to involve actively in the training programme and ask more questions to the resource persons to get more information regarding the topics and involve actively in the practical sessions and learn the techniques. He also discussed about the advantages of using Jeevamrutha, Ghanajeevamrutha, Beejamrutha etc. Integrated farming can improve the soil health as well as human health. Advised the farmers to minimize the use of chemicals and inorganic fertilizers in agriculture. He also discussed about importance of soil testing and based on the soil test results Soil health cards will be issued to the farmers which contains the detailed analysis report and fertilizers recommendations and management practices.

ICAR-KVK, Chitradurga

Seed Production:

Fodder jowar (CoFS-31) was maintained as demonstration unit cum seed production and produced 151 kg of seeds for the past three years and sold to 130 farmers with a worth of Rs 96,000, while 42 thousand super napier cuttings were sold to 80 farmers with a worth of Rs 58,250. In addition to this production of nearly 2 tons of vermi-compost was every year for the past three years, but same was being utilized for nursery plants at nursery unit and different crop demo units maintained at KVK land.

Under rainfed condition, Breeder seed production of Soybean (JS-331) was taken up during *Kharif* 2022 and 2023 and produced breeder seeds 10.75 quintals and 4.5 quintals respectively and sent to seed unit, KSNUAHS, Shivamogga with a worth of Rs.1,03,000, While during *Rabi* 2022 and 2023 seeds production of Bengal gram was done and sold 21 quintals of certified seeds to KSSC, Sira with a worth of Rs 1,26,000.

Planting Materials:

Regarding production of planting materials at KVK, multiplied 6776 coconut seedlings of Arasikere tall for the past three years (2021-2023) and sold to 301 farmers with a worth of Rs.4,86,855, while 8860 arecanut seedlings of Bheemasamudra local were multiplied and sold to 650 farmers with a worth of Rs 2,13,375, produced 5227 seedlings of Drumstick (Bhagya and PKM-1) and sold to 57 farmers including farmers of NICRA village operated by KVK, Hiriyur, 370 seedlings of curry leaf (Suhasini) with a worth of Rs. 6150, 132 seedlings of grafted Jamun (Boopdal) with a worth of Rs. 6650 and 60 Balaji seedlings of lemon with a worth of Rs.900.

Value added products :

Value added products of millets crops were initiated at ICAR- Krishi Vigyan Kendra, Chitradurga during 2023 by using millets like Finger millet, foxtail millet and little millet for preparation of various value added products like malt, biscuits, laddu and other bakery products generating revolving fund of Rs. 20,000 and reached to 620 consumers.

Bio inputs :

The Start-up "Jeevasudha Greentech Pvt Ltd." in collaboration with Krishi Vigyan Kendra, Chitradurga under ASTIC programme produced bio inputs like *Pseudomonas fluorescence and Trichoderma viride 98.5 q and benefited more than 5000* farmers through the district .

Sl. No.	Item	Quantity (q) / Number			Income generated (Rs.)			Farmers benefitted		
		2021	2022	2023	2021	2022	2023	2021	2022	2023
1.	Seeds									
	Bengal gram	11.40 q	9.6q	--	67,530	57590	--	--	--	--
	Soybean	4.25q	10.75q	--	27,625	69,875	--	--	--	--
	Fodder (COFS-31)	12.5 kg	68.5 kg	70kgs	8,124	44,525	43,575	11	38	19
	Super Napier cuttings number	22525	6550	13775	34950	13100	13775	17	11	7
2.	Planting materials									
	Arecanut	2010	3445	3405	41500	86750	85125	10	13	9
	Coconut	2631	1638	2507	1,84,170	1,14,660	1,88,025	31	22	48
	Drumstick	1419	210	3598	21,285	3,150	53,970	8	8	11
	Curry leaf	58	72	280	870	1080	4200	11	7	2
	Jamun	77	57	---	3850	2800	---	8	12	---
	Lemon	--	60	--	--	900	--	--	1	--
3.	Bio products									
	Pseudomonas	6.0	20.00	22.0	90000	300000	330000	600	1200	2100
	Trichoderma	8.00	16.50	26.0	120000	247500	390000	800	2000	1900
4.	Value added products	-	-	34 kg	-	-	8494	-	-	550

ICAR-KVK- Dakshina Kannada

Interface meeting of ambassador farmers with Honourable Speaker

ICAR-Krishi Vigyan Kendra, DakshinaKannda, Mangaluru in collaboration with NGO-Food Chain, Mangalore organized interface meeting on 26.06.2024 with ambassador farmers of the district under the chairmanship of honourable speaker-Mr.U.T.Khader,Karnataka Legislative Assembly .The purpose of the meeting was to understand the problems of the farmers and provide suitable suggestions.

Jack Fest -2024 by ICAR-KVK, Dakshina Kannada

The ICAR-Krishi Vigyan Kendra (Dakshina Kannada) Mangaluru in collaboration with JCI, Uppinangady has organized a Jackfruit fest on 06-07-2024 at Uppinangady. Honourable Mr. Shashikumar Rai Director, SCDCC Bank inaugurated the Jack fest. Mr. Prasanth Kumar Rai, President, JCI charitable trust on his presidential highlighted that this jack fest platform helps the farmers for direct marketing of their farm produce and getting better income. During the fest felicitated Five progressive farmers of Dakshina Kannada for their contribution to farming community. Dr. Rashmi, R., Scientist (Horticulture) participated as a resource person in technical session and highlighted about advances in production technology, improved varieties, and value addition of Jackfruit. In this programme, more than 25 stalls exhibited value added products, Fruit plants Nurseries and SHG members also participated in the fest. More than 1000 people were benefitted from the programme.

Tri Monthly Horticulture Technical meeting of Dakshina Kannada

The ICAR-Krishi Vigyan Kendra (Dakshina Kannada) Mangaluru in association with ZAHRS, Brahmavara organized Tri Monthly Horticulture Technical meeting of Dakshina Kannada district on 01-07-2024 at KVK, Mangaluru

Dr. K.V. Sudhir Kamath, Principal, Diploma (Agri) College, Brahmavar presided over the meeting. Dr. T.J. Ramesha Senior Scientist & Head, KVK, Dakshina Kannada and Dr. B. Dhananjaya, Senior Scientist & Head, KVK, Udupi coordinated the programme. Mr. Manjunath, Deputy Director of Horticulture, Z.P. Dakshina Kannada, Senior Assistant Directors of Horticulture (SADH), Assistant Director of Horticulture (ADH), Assistant Horticulture Officers (AHO) and Horticulture Assistants (HA) from all the taluks were participated in the trimonthly technical meeting. The topics discussed were prospectus of oil palm cultivation, Leaf spot disease management in Arecanut, Nutritional management in Mangosteen and Pineapple, diagnosis, and management of diseases in Oil palm, role of Micronutrients in Coconut and Arecanut crops and red palm weevil, Rhinoceros beetle and rugose white fly management in Coconut.

ICAR-KVK Dakshina Kannada

Seeds: Paddy is a major staple crop in coastal Karnataka. ICAR-Krishi Vigyan Kendra, DakshinaKannda, Mangalore has been producing flood resistant red rice variety – Sahyadri panchamukhi (Developed by the University-KSNUAHS) at instructional farm and popularising this technology through mandated activities such as FLDs and other extension activities.

Planting materials: Dairy enterprise forms as the economic source for the farmers of the district .Fodder scarcity during rabi season is the major issue for sustenance of the sector. Realising this issue KVK has established fodder bank at instructional farm has supplied 1156 fodderroot slips(Variety-CO4) and cuttings to 19 farmers.

Animal/ fish related products:

Poultry: KVK has introduced Karnataka Veterinary, Animal and Fisheries Sciences University,Bidar developed improved breed of poultry-Swarnadharawhich has high egg production potential along with better growth compared to other local varieties. During the year 2021-23 KVK-DK has supplied 3328 four weeks old swarnadhara chicks to 270 farmers of Dakshinakannada leading into the income generation of Rs. 392114 approximately.

Fisheries: In 2021, 26,340 fish fingerlings belonging to Catla, Rohu, Mrigal, Amur Carp and GIFT Tilapia species were distributed to 47 fish farmers and a revenue of Rs. 2,38,478 was generated. In the year 2022, a total of 12,000 fish fingerlings. and thus horizontal spread of the technology has been achieved. belonging to Catla, Rohu, Mrigal and GIFT Tilapia species were distributed to the fish farmers and a revenue of Rs. 63,600 was generated and 20 fish farmers were benefitted.

Production of technological inputs (January 2021 to December, 2023)

Sl. No.	Item	Quantity (q) / Number			Income generated (Rs.)			Farmers benefitted		
		2021	2022	2023	2021	2022	2023	2021	2022	2023
1.	Seeds	18.23 q.	28.96 q.	10.86 q.	63516	69140	49604	31	56	48
2.	Planting materials	706 No.	450 No.	-	1800	2200	-	8	11	-
3.	Bio products	1.10 q.	15.81q.	7.34 q.	1650	31575	17947	4	70	11
4.	Animal/ fish related products									
a	Poultry	1047 No.	1726 No.	555 No.	104700	213009	74405	114	117	39
b	Fisheries	26340 No.	12000 No.	-	238478	63600	-	47	20	-

ICAR-KVK- Davanagere

Orientation Class on Horticulture for Differently Abled children

Mr. Basavanagowda M.G., Horticulture Scientist gave guest lecture on introduction to Horticulture for the differently abled children at composite Regional Centre for Skill Development, Rehabilitation and Empowerment of persons with disabilities, Voddnahalli, Davanagere district. Practical session on plant propagation and nursery management was conducted with method demonstration of grafting fruit samplings. This is a special training course designed under the Ministry of Social Justice and Empowerment, Government of India.

Integrated Crop Management in Direct Dry Seeded Rice (DSR) technology was introduced in Davangere district by KVK. The demonstrations were implemented in Belludi, Harihara Taluk, Halavarthy and Halebathi of Davanagere taluk, Bistuvahalli, Guttidurga and Medaganakere of Jagalur taluk and Maravanji, Channagiri taluk. Mr. Mallikarjuna B.O., SMS (Agronomy) conducted off campus training program and method demonstration of seed treatment with Bio fertilizers (Azosprillum and PSB @ 200g/ acre of seed) and sowing with seed cum fertilizer drill at the seed rate of 12 kg per acre.

Implementation of Front Line Demonstration in Onion

ICAR-Taralabalu Krishi Vigyan Kendra implemented demonstration on production technology of **Bhima Dark Red Onion** variety at Nibagur village of Jagalurtq. Mr. Basavanagowda M.G., Horticulture Scientist made visit to demonstrated plots and took the observation on germination and other vegetative characters. He advised the Farmer to take up integrated nutrient management practices. Dr.Avinash T.G. gave information on intergrated pest and disease management in onion.

Coconut Seedlings Planted Under TSP Scheme

ICAR-Taralabalu Krishi Vigyan Kendra in collaboration with ICAR-National Bureau of Agricultural Insect Resources, Bengaluru implemented planting of coconut seedlings under Dry Land Horticulture Theme. Mr. Basavanagowda M.G., Horticulture Scientist gave complete details on production technology of coconut to TSP beneficiaries. Dr.Avinash T.G. provided inputs on pest and disease management of major horticulture crops. 20 ST were provided with 40 coconut seedlings under this TSP project.

ICAR-KVK, Davangere

The major planting materials produced in KVK include seedlings of Coconut (Arasikere Tall), Arecanut (Channagiri local), Drumstick (KDM-1 Bhagya), Banana, Mango, Jack and Citrus. Seed materials of green manuring crops such as Dhaincha, Sun hemp, Velvet beans and fodder crops CoFS-31, Lucerne, Hedge Lucerne and Stylosanthes. Further, KVK has also promoted a young farmer to become an entrepreneur and established nursery in Davanagere city in which all kinds of Fruit, Flower and Ornamental saplings are sold to farming community/ general public of the District.

KVK has established lab to produce bio-agents namely *Trichoderma harzianum* which helps in managing soil/seed borne fungal pathogens and *Pseudomonas fluorescens* to manage Bacterial disease of crops and sold through Agri-clinic. Training also 'provided to farmers, Women farmers and Students about the production of quality planting material and bio-agents. KVK has Animal husbandry unit from which we get organic manure for supporting organic farming. In the instructional farm, two fish ponds are maintained for aquaculture demonstration. A separate ornamental fish rearing unit is maintained.

Innovative methodology for marketing of organic products

Value addition of farm produce namely Amla, Hog plum and other farm produce is done and sold in Saturday Bazaar at KVK. Natural farming practices are demonstrated in mixed fruit orchard wherein quality fruits are produced and sold.

Sl. No	Item	Quantity (q)/ Number/Litre			Income generated (Rs)			Farmers benefited		
		2021	2022	2023	2021	2022	2023	2021	2022	2023
1	Seeds	43.71	5.20	31.67	3,79,020	5,03,040	6,38,680	224	281	427
2	Planting material	6,798	10,073	16,983	6,25,860	5,22,055	4,30,265	516	195	206
3	Bio products	5.90	10.27	7.34	1,69,860	2,21,295	1,09,350	47	140	121
4	Animal & Fish related products (Milk & Fingerlings)	2,456	4125	2642	79,710	1,40,233	89,828	96	149	110
5	Value added products	-	1.08	1644	-	10,625	81,780	-	24	30
	Hog Plum pickle		0.35			7000				15
	Lime Pickle		0.23			2025				12
	Millet Biscuits (pkt)			1575			78,750			21
	Ragi flour			0.66			2970			01

ICAR-KVK- Dharwad

Training programme on "Processing and Value addition of Mango"

ICAR-KVK, Dharwad in collaboration with Dept.of B Tech (Food technology), College of Community Science, UAS, Dharwad organized a 3 days training programme on "Processing and Value addition of Mango" from 03.07.2024 to 05.07.2024 at KVK, Dharwad. Mrs. Vidya V. Sangannavar, SMS (Home Science), ICAR-KVK, Dharwad briefed about the importance of processing and present increasing era of demand for value added products. Also she explained the nutritional value and health benefits of mango followed by demonstration of different mango products. Dr.AiradeviAngadi, Scientist (Horticulture), ICAR-KVK, Dharwad explained about the post-harvest technologies and different ripening methods of mango.

Dr. Archana G. Lamdande, Assistant Professor, Dept. of B. Tech (Food tech), College of Community Sciences, UAS, Dharwad demonstrated the mango products and explained about the different machineries at Food Tech Lab. Dr. Ramya H. G. Assistant Professor, Dept. of B. Tech (Food tech), College of Community Sciences, UAS, Dharwad explained the whole process and machineries of mango processing unit established at Bakery unit, UAS, Dharwad. Dr.Hemalatha S, Professor and Head, Assistant Professor, Dept. of B. Tech (Food tech), College of Community Sciences, UAS, Dharwad briefed about the packing, branding, labelling and registration of the products. Dr.ChannappaAngadi, ADA, Dharwad briefed about the Government schemes working for processing and value addition. He stressed upon the present PMFME scheme which is working for micro food processing.

Dr. S. S. Angadi, Directorate of Extension, University of Agricultural Sciences, Dharwad was chief guest to the valedictory programme and addressed the trainees. He explained about the cultivation methods and nutrient management of mango for higher yield and the present demand for mango processing and mango value added products. Total 20 trainees were participated in the training programme and the distribution of certificates to the participants was carried out.

ICAR-KVK, Dharwad

Project on "Creation of Seed Hubs for Increasing Indigenous Production of Pulses in India" has been to enhance the seed production, by which farmers produced about 1152.85 q of seeds from 2016-17 to 2021-22.

Under the supervision of KVK, the seeds of major crops were multiplied in the selected progressive farmers' field enabling wider adoption of the varieties. Under pulses (chickpea, greengram, blackgram) covered an area of 4339.97 ha of worth Rs. 4312381, cereals (Wheat variety DWR-162) has covered around 160.62 ha area of worth Rs. 273346, oilseeds (Soybean variety DSb-21) covered an area of 138.72 ha with a worth of Rs. 628775 and vegetables (Onion variety-Bhima super) has covered an area of 8 ha with an worth of Rs. 45000.

KVK, Dharwad involved in production of quality planting materials on large scale under low cost shade net condition. Planting materials of different horticulture crops *viz*., Coconut (109ha), Mango (96.18 ha), Guava (33.78ha), Tamarind (24.34 ha), Lime (20.9 ha), Sapota (18.06 ha), Curry leaf (4.55 ha), Papaya (3.9 ha), Amla (3.79 ha), Drumstick (3.79 ha) and others (1.8ha) of improved varieties supplied to farmers and other organization which had improved the level of living and helped in sustainable agriculture.

B. Production of technological inputs (January 2021 to December, 2023)

Sl. No.	Item	Quantity (q) / Number			Income generated (Rs.)			Farmers benefitted		
		2021	2022	2023	2021	2022	2023	2021	2022	2023
1.	Seeds	60.08	12.5	38.96	2,33,972	54,190	1,53,473	185	43	130
2.	Planting materials	27549 Nos.	96381 Nos.	44623 Nos.	253695	4,37,375	2,29,130	326	234	422
3.	Bio products	15.30 q, 2083 Nos., 563 ltr.	29.63 q, 1973 Nos., 595 ltr.	19.24 q, 29 Nos.	285823	6,97,610	2,86,080	218	232	159
4.	Animal/ fish related products	2333 Nos.	970 Nos., 163 kg	1235 Nos., 71.25 k	323410	1,13,350	1,62,875	15	8	4

ICAR-KVK- Ernakulam

Students Explore Aquaculture Innovations at KVK's Partner Farmers' Fields

Twenty-one final year BSc. Agriculture students from Kerala Agricultural University participated in an explorative field visit to the KVK partner farmers' fields at Kottappuram near Kodungallur on July 3, 2024. The visit was part of the Experiential Learning Programme organized by the Agricultural Technology Information Centre of ICAR-CMFRI, Kochi.

Dr. P.A. Vikas, Subject Matter Specialist of the KVK, explained the various aquaculture ventures being practiced in the area under KVK's technical guidance. A key highlight was the concept of cage fish culture, where students observed the integration of crab and mussel culture within the same cage system. They were also demonstrated the feeding processes involved in cage aquaculture. Dr. Vikas emphasized various issues pertinent to aquaculture, encouraging students to explore innovative solutions.

KVK's partner farmers, Shri YejuMoothakunnam and Shri Joseph Shibu, shared their invaluable experiences in cage fish farming, discussing both challenges and promising prospects. Dr. Vipin Kumar and Dr. Reshma Gills, Scientists of ICAR-CMFRI, accompanied the students.

BSC Agriculture students visiting KVK partner farmers field

Students visiting KVK partner farmers' fields

ICAR-KVK, Ernakulam

Supply of quality agricultural inputs is a key mandate of Krishi Vigyan Kendras (KVKs). The Ernakulam KVK, located near the Arabian Sea, faces challenges like limited vehicle access, seawater logging, accelerated corrosion, and cyclones. These conditions make the production of seedlings, manures, poultry chicks, etc., unfeasible on the KVK campus. To address this, the KVK established Satellite Production Centres (SPCs) on farmers' fields. These SPCs produce fish fingerlings, organic manures, poultry chicks, vegetable seedlings, fruit grafts, and more under KVK expert guidance. Initially, production involved a buy-back arrangement with KVK for sales through its CMFRI counter. However, due to the closure of these outlets from audit issues, sales now occur mainly at the SPC level, supported by KVK technology and expertise.

Production of technological inputs (January 2021 to December, 2023)

Sl. No.	Item	Quantity (q) / Number			Income generated (Rs.)			Farmers benefitted		
		2021	2022	2023	2021	2022	2023	2021	2022	2023
1.	Seeds Turmeric, ginger		10.25 q	9.85 q	29844	172650	173550	86	362	426
	Yam, cassava stumps	1557 no	1900 no	1800 no						
2.	Planting materials	15500	17000	18500	38750	42500	46250	652	689	726
3.	Bio products									
	A. Fish manure	300kg	200kg	100kg	18000	12000	6000	254	150	50
	B. Soilless medium	500kg	300kg	200kg	67500	40500	27000	50	10	10
4.	Animal/ fish related products	2 lakh	2.2 lakh	1.8 lakh	20 lakh	18 lakh	16 lakh	231	198	176
	A. Pearl spot seed									
	B. Poultry Chicks	1735 nos	600 nos	165 nos	3,05,000	1,16,250	8750	400	95	30

Vegetable seedlings sales at SPC, North paravur

Vegetable seedlings sales at SPC, North paravur

Inauguration of SPC fish sales mela at KAICO

ICAR-KVK- Gadag

Inauguration of Cashew Processing Unit

ICAR-K. H. Patil Krishi Vigyan Kendra, Gadag in collaboration with Zilla Panchayat, Gadag, Gram Panchayat, Hulkoti, Hulkoti Horticulture Farmers' Producers Company Limited, Hulkoti and Karnataka State Department of Horticulture, Gadag organized inaugural programme of Cashew Processing Unit at Hulkoti village on 07-07-2024 established under Shyam Prasad Mukherjee Rurban Project by Zilla Panchayat, Gadag. The Cashew Processing Unit was inaugurated by Shri H.K.Patil ji, Gadag District In charge Minister and Minister of Law, Justice, Human Rights, Parliamentary Affairs and Legislation and Tourism, Government of Karnataka at Hulkoti village. The programme was presided by Shri Basavaraj Bommai ji, Hon'ble Member of Parliament, Govt. of India. With the technical support and facilitation in marketing by the ICAR-KVK, Gadag, the Cashew crop has spread in nearly 1600 acre area in Gadag District and nearly 190 farmers produced 96.50 tons of raw cashew nuts worth of 1.03 Crore in the District till 2023. In order to provide cashew processing facility to farmers in the district, Cashew Processing Unit is established with the technical guidance of ICAR-KVK, Gadag. Now, by processing raw nuts in Gadag itself, the farmers can add value to their yield and earn about Rs.250/kg for their yield, which is more than double of their current earning. It is first of its kind in the state of Karnataka. This processing unit will benefit cashew growers in and around the District in the days to come.

ICAR-KVK, Gadag

Since inception, KVK is involved in production and supply of quality seeds, planting materials and bio-inputs based on the needs of Gadag district farmers. Among them, Green gram is the major important crop in Kharif season and KVK has been promoting and providing DGGV-2 variety which is disease resistant and suitable for mechanical harvesting and in turn it overcomes the labour problem. Further, the seed production of Arka Kalyan and Bheema Super variety of Onion helped the farmers in getting quality bulbs, seeds and there by increased the production and productivity of Onion crop. From KVK, farmers are getting seeds of JAKI-9218 and NBeG-49 variety of Bengal gram which are more suitable to climatic and edaphic factors of Gadag district. The seeds of SPV-2217 variety of Rabi Sorghum for Rabi season have been taken up by KVK in large scale as it is high yielding, resistant to charcoal stem rot disease and lodging. The quality seedlings of horticulture crops like vegetable seedlings & saplings of Mango, Cashew, Tamarind, Jamun, Custard Apple, Citrus etc. are procured and supplied to farmers. Fodder slips of Rhodes, Stylosanthushaemata, Guinea grass, fodder oats etc. supplied to farmers by KVK and KVK trained entrepreneurs which in turn resulted in nutritional security of livestock. Under bio-products production, KVK is producing Azolla, earthworms and vermicompost and outsourcing other bio-inputs such as Rhizobium, PSB, Trichoderma ,Azospirillum etc. and supplying to the farmers. Value added products like Aonla candy, Supari, pickles, powder are sold through Sales outlet of KVK. In a nutshell, ICAR-KVK, Gadag is providing necessary technological inputs in enhancing production, productivity and livelihood of farm families of Gadag district.

Innovative ways and means followed to enhance KVK-RF

- Participatory mode of production of seeds with farmers
- Establishing seed hub
- Seed production activities in larger area
- Establishment of seed banks at institutional and village level to ensure timely availability of quality seeds to farmers
- KVK established oil mil & millet processing units. The produce is being sold through organic sales outlet at KVK campus.

B. Production of technological inputs (January 2021 to December, 2023)

Sl. No.	Item	Quantity (q) / Number			Income generated (Rs.)			Farmers benefitted		
		2021	2022	2023	2021	2022	2023	2021	2022	2023
1.	Seeds	85.14	76.78	61.50	286463	190863	139694	874	680	609
2.	Planting materials	83050	44444	30200	86290	61881	41341	400	379	600
3.	Bio products	150.78	156.88	155.02	29074	24950	21482	409	349	383
4.	Value added products (Amla products & pickles)	3.9	1.4	2.1	20477	9568	17403	850	350	465

Farmers' participatory Onion seed production

Farmers' participatory Onion seed production

Amla processing at KVK processing unit

ICAR-KVK- Hassan

National Fish Farmers' Day

ICAR-KVK, Hassan celebrated the National Fish Farmers' day on 10.07.2024 at KVK Hassan. Mr. Vikas, Assistant director of fisheries, Hassan has inaugurated the programme and during his introductory remarks, he mentioned that on the eve of birth anniversary of Dr.HiralalChoudary who is a father of fish breeding techniques, today whole nation is celebrating the National Fish Farmers' day and he also said that Dr.HiralalChoudary is a first person to do fish fingerlings production by using fish off spring's in stimulated fish production technology so that farmers can get high yield and productivity in fish rearing.

Dr. M. Shivashankar, scientist (Home science) KVK, Hassan chaired the programme and during his presidential remarks he mentioned the different fish rearing techniques for the farmers to get higher profit and also, he emphasized the importance of different fish varieties in composite and mixed fish culture technique to get higher yield and productivity in fish rearing. Dr. Pramod, G., Assistant Professor, College of Agriculture, Hassan has graced the occasion and he highlighted the government efforts in supporting fish farming. Dr.Nagaraja, T., Scientist, KVK Hassan mentioned the different fisheries programmes available for the famers in the department and also highlighted the use of Biofloc technique in Tilapia fish rearing and reuse of water in fish rearing. Further, Dr.Arunkumar, B. R., Dr. Pallavi, N., Dr.Sakamma, S., Scientists of KVK Hassan and farmers across the district were participated in the programme.

National Fish farmers day

ICAR-KVK, Hassan

ICAR-Krishi Vigyan Kendra, Hassan is serving as knowledge centre as well as resource centre in the district by providing the critical inputs like seeds, planting material, bio products etc., for the benefit of the farming community. Improved finger millet seeds like KMR-301, KMR-316, KMR-630, ML-365, KMR-340, rajmudi paddy, red gram varieties like BRG-4 and BRG-5, field bean varieties like HA-4 and HA-5, cowpea varieties like KBC-9, improved fodder varieties like CoFS-31, hedge Lucerne, ARC Potato tubers and other seeds based on the demand are made available to farmers at KVK. Further planting materials like drumstick, papaya, coconut, arecanut, medicinal and aromatic plants, cardamom, dragon fruit, apical potato cuttings, etc., were sold at KVK. Bio products like trichoderma, pseudomonas, AMC, earthworms, compost culture, waste decomposer, rhizobium, phosphorus solubilizing bacteria etc., were also made available for farmers.

Along with the above inputs, ICAR-KVK, Hassan has established Agriculture Technology Information centre (ATIC) to provide technology in single window. Micro nutrients like ginger special, vegetable special, mango special, areca special, neem soap, pheromone traps etc. are made available. Also Seed production activity is carried in KVK farm to produce good quality seeds and since sericulture is one the major subsidiary enterprise in Hassan district the demonstration of improved rearing practices in the KVK to show the increased cocoon yield to the farmers. All these interventions are contributing to the revolving fund of KVK.

B. Production of technological inputs (January 2021 to December, 2023)

Sl. No.	Item	Quantity (q) / Number			Income generated (Rs.)			Farmers benefitted		
		2021	2022	2023	2021	2022	2023	2021	2022	2023
1.	Seeds	24.98 q	70.16 q	38.22	317535	254660	255457	370	259	271
2.	Planting materials	203744	61562	69176	605121	479318	509130	566	433	674
3.	Bio products	25.56 q	23.72 q	47.42	534495	425330	793260	953	1060	1572
4.	Animal/ fish related products	2073	305	2066	277415	167375	293050	125	26	28
		4165 litre milk	4104 litres milk	6211 litres	90859	91637	128810	50	46	37
5.	Value added products	-	1.237 q cocoon	1.255 q cocoon	-	69272	70907	-	3	3

Rajmudi Seed Production Plot at KVK Hassan

Areca Nursery

ICAR-KVK- Haveri

Diagnostic field visit to Betel vine orchard

ICAR-KVK, Haveri (Hanumanamatti) visited problematic to Betel vine orchard at Honnatti village RanebennurTq. Orchard showing yellowing and drying of leaves, and shredding of roots. It was diagnosed as wilt disease and scientists advised the farmers regarding Integrated Management for wilt disease namely Drenching of Carboxin 37.5% + Thirm 37.5% WS at 2 g per litter of water, application of 1% Bordeaux mixture at the time of vine lowering, per plant application of 1 kg FYM + 250 g neem cake + 12.5gm Trichoderma and spot application of carbofuran granules 3% 10gm per plant. Also suggested farmers about proper irrigation and trimming of boarder crops in the orchard. Same massage was conveyed to other famers. About 20 farmers witnessed the event. The technology was disseminated surrounding villages of betel vine farmers through mass media.

ICAR-KVK, Haveri

ICAR-Krishi Vigyan Kendra, Haveri (Hanumanamatti) is serving as knowledge centre as well as resource centre in the district by providing the critical inputs like seeds, planting material, bio products etc., for the benefit of the farming community. Improved millet seeds like foxtail millet (Dhft-109-3), little millet (Dhlm-36-3), Proso millet (DHPm-2769), Barnyard millet (DHB-93-2), *Rabi* Sorghum (SPV-2217), Red gram (BSMR-736) improved fodder variety CoFS-31. Further planting materials like Drumstick (Bhagya), Sapota (DHS-1 & DHS-2), Mango (Kesar), Curry leaf (Suvasini), Coconut (Arasikere Tall), Tamarind (DTS-1) were supplied to farmers from KVK nursery. Apart from this we are supplying milk to campus hostels and staff. Bio product like trichoderma is also available for farmers. All these interventions are contributing to the revolving fund of KVK.

Sl. No.	Item	Quantity (q) / Number			Income generated (Rs.)			Farmers benefitted		
		2021	2022	2023	2021	2022	2023	2021	2022	2023
1.	Seeds	32.57	20.35	51.47	253441	80115	264927	124	56	210
2.	Planting materials (No's)	9321	30743	38476	156600	341105	529890	306	124	1543
3.	Bio products (q)	5.82	7.97	9.56	75660	103610	125450	214	46	488
4.	Animal/ fish related products (Milk)	18431.5 litre	17270 litre	19250.5 litre	488893.6	5,22,143	6,53,910	35	30	40
	No of animals auctioned	12	09	-	180500	135000	-	12	09	-

Horticulture Nursery

Seed production

ICAR-KVK- Idukki

ICAR-Central Tuber Crops Research Institute, Sreekariyamhonoured contact tapioca farmer of KVK Idukki

In a ceremony held in conjunction with the 61st foundation day of ICAR-Central Tuber Crops Research Institute, Sreekariyam, Mr. Thomas KV, a cassava farmer of Adimali Panchayat, was nominated by ICAR-Krishi Vigyan Kendra, Idukki was felicitated by the Honourable Governor of Kerala, Mr. Arif Muhammad Khan with a memento. Shri Thomas KV is one of the contact leader farmers of Krishi Vigyan Kendra, Idukki. This farmer profitably cultivates the cassava variety Sree Pavitra developed by the ICAR-Central Tuber Crops Research Institute over the years, and frequently follows the CTCRI technologies like micronols and customized fertilizers with the technical guidance's of ICAR-Central Tuber Crops Research Institute and ICAR - Krishi Vigyan Kendra, Idukki. He also supplies the stem cuttings of Sree Pavitra variety to a huge number of fellow farmers.

Dr. G. Baiju, The Director, ICAR-Central Tuber Crops Research Institute, Prof. Chandrabhas Narayana, The Director, Rajiv Gandhi Centre for Biotechnology, Dr. R Marimuthu, Senior Scientist and Head and Mrs. Manju Jincy Varghese, SMS Soil Science, ICAR- Krishi Vigyan Kendra, Idukki participated in the programme

ICAR-KVK, Idukki

Small cardamom is the major crop in Idukki District. Pests and diseases are very much prevalent in small cardamom crop. For the effective management of pest and diseases in small cardamom ICAR-Krishi Vigyan Kendra, Idukki produces and distributes different microorganisms such as *Trichoderma viride*, *Trichoderma harzianum*, *Pseudomonas fluorescence and alike* to the farmers. At nominal rates, about 38 organic products are produced and made available to the farmers through an outlet known as Bio Hub. Moreover, as per the needs of farmer, regular trainings and demonstrations are also conducted on bio input production and mass multiplication of bio-agents in farm level. Under the supervision of Indian Institute of Agriculturally Important Insects, Bengaluru, there is also a production unit of Entomo Pathogenic Nematode (EPN) at KVK. EPN has been found to be highly beneficial in controlling root grub a major pest of small cardamom.

Bio hub at ICAR KVK Idukki produces and supplies ICAR-NBAIR-*Pseudomonas*, ICAR-NBAIR –*Trichoderma*, ICAR-NBAIR –Beauveria, ICAR-NBAIR –Metarhizium, EM-Growth Promoter, PPFM-*Methylobacterium*, ICAR-IIHR- Arka Microbial Consortium, ICAR-IIHR-*Paecilomyces,* ICAR-NBAIR-Entomo Pathogenic Nematode, Neem Soap, ICAR-IIHR-Decomposer, Pheromone Traps, Pseudomonas Test tube Culture, Trichoderma Test tube Culture, Beauveria Test tube Culture, Metarhizium Test tube Culture, Azospirillum, Phosphobacteria, Potash bacteria, Neem oil, Microbial Consortium for Small cardamom, Microbial Consortium for Black pepper, Neem cake, Pongamia cake and VAM.

Apart Instructional farm of ICAR- Krishi Vigyan Kendra, BSS, Idukki maintained in 8.6 acres is an integral part of the institution. They produce highly efficient planting materials of small cardamom and Black pepper. The instructional farm demonstrates new agricultural technologies and supplies healthy planting materials to the farmers. Also ICAR-KVK Idukki supplies fish fingerlings and high yielding chicks to farmers

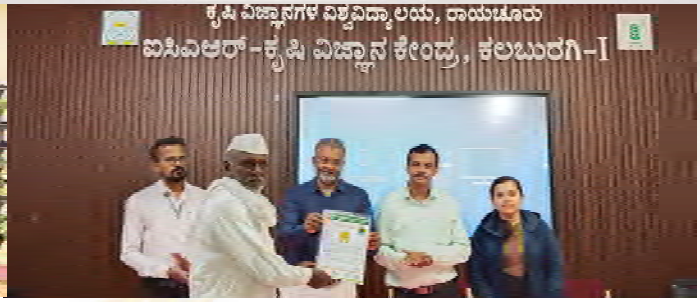
Production of technological inputs (January 2021 to December, 2023)

Sl. No.	Item	Quantity (q) / Number			Income generated (Rs.)			Farmers benefitted		
		2021	2022	2023	2021	2022	2023	2021	2022	2023
1.	Planting materials	31912	9748	10749	84300	184139	273490	783	1389	191
2.	Bio products	32539	38013	34913	6221770	849975	6420420	18518	13643	13113
3.	Animal/ fish related products	54	3530	5000	11460	115760	82500	34	79	40

ICAR - KVK - Kalaburagi - I

Distribution of FELLOW FARMER certificate

ICAR-Krishi Vigyan Kendra, Kalaburagi-I conducted programme on distribution and honored with the recognitation of FELLOW FARMER by ICAR-KVK, Kalaburagi-I for successfully doubling his/her income under the guidance of KVK, Kalaburagi-I during the period 2018-2022 on 05.07.2024. Dr. Raju G. Teggelli, Senior Scientist and Head, ICAR-Krishi Vigyan Kendra, Kalaburagi-I inaugurated the programme and highlighted the purpose of the programme. Dr. Zaheer Ahmed, Scientist (Plant Pathology) enlightened the present situation of agriculture, Dr.Sanmathi Nayak, Scientist (Horticulture) gives details about scope and importance of horticulture in Kalaburagi district.



One day training programme on INM in Soybean and distribution of Critical inputs

ICAR-Krishi Vigyan Kendra, Kalaburagi-I conducted one day programme on Integrated Nutrient management in Soybean to the Frontline demonstration farmers of SuntanurTq. Aland, Kalaburagi dist. on 14.07.2024 at KVK premise. Dr.Shreenivas B V, Scientist (Soil Science) explained about the FLD programme procedure as well as INM technologies in Soybean and Soil health management. Dr. Zaheer Ahmed, Scientist (Pathology) briefed about the integrated pest and disease management in soybean crop. Dr.Yusfali, Scientist (Agronomy) emphasized about the improved agronomical practices of soybean. After the programme critical inputs distributed to the beneficiary farmers.

Orientation cum training programme on Soil health management

ICAR-Krishi Vigyan Kendra, Kalaburagi-I conducted one day Orientation cum training programme on Soil health management at Ekalavya Model Residential School, Konchur, Chittapur Taluka, Kalaburagi district in collaboration with Department of Agriculture, Kalaburagi which is selected by the commissioner of Agriculture department under centre ministry of Agriculture and farmers welfare, Government Of India, New Delhi on 15.07.2024.

Dr.Shreenivas B V, Scientist (Soil Science), ICAR-Krishi Vigyan Kendra, Kalaburagi-I served as a resource person and delivered lecture to the students and teaching staff of the School about the importance of soil testing in Agriculture and well as management of Soil health. Later, method demonstrated about the soil sampling collection for analysis and use of Soil health card and App who were participants in the programme. Further, 50 students from different classes has been allotted targets for collection of soil sample, analysis and generating of soil health cards during the year 2024-25 with the help of KVK and/or KSDA.

ICAR-KVK, Kalaburagi-1

ICAR-Krishi Vigyan Kendra, Kalaburagi-I achievements in the production and sold of various technological inputs like Seeds, Pulse magic, Banana special, Planting materials, Bio products like vermicompost, vermiwash, earth worms, and.From January, 2021 to December, 2023 sold 574.06 quintal seeds of red gram, Bengal gram, green gram and CoFS-29, Rs. 72, 68,441/- (Seventy two lakhs sixty eight thousand and four hundred and forty one only) generated and Bio products like vermicompost, vermiwash and earthworms 1255.35 kg/lit/no. sold and generated 28, 89,143 (Twenty eight lakhs eighty nine thousand and one hundred and forty three only).Animal feed azolla sold 40 kg , 4,100 (Four thousand only), Kitchen garden seed kit under **NammaTotaNammaoota** brand sold 2500 kits and generated 2,50,000 (Two lakhs fifty thousand only) these are all inputs used by the Kalaburagi and neighbouring district farmers of the state.

B. Production of technological inputs (January, 2021 to December, 2023)

Sl. No.	Item	Quantity (q) / Number			Income generated (Rs.)			Farmers benefitted		
		2021	2022	2023	2021	2022	2023	2021	2022	2023
1.	Seeds	108.58	132.70	332.78	12,26,415	14,82,940	45,59,086	1900	2685	3640
2.	Planting materials	-	-	-	-	-	-	-	-	-
3.	Bio products and pulse magic and Banana special	426.40	240.24	588.71	6,83,865	4,98,228	17,07,050	1500	1100	1800
4.	Animal/ fish related products	-	-	0.4	-	-	4,000	-	-	40
5.	(Kitchen Garden kit and Nursery seedlings)	-	-	2500	-	-	2,50,000	-	-	2100

Red gram seed packing and distribution programme during 2023-24 and 2024-25

ICAR - KVK - Kalaburagi - II

Kisan ghosti on Kharif crops

On July 5, 2024, ICAR-KVK, Kalaburagi-II (Raddewadgi) organized a farmers' meeting, known as KisanGhosti, to address the challenges faced during the Kharif crop season. Dr. A. R. Kurubar, the esteemed Associate Director of Extension at UAS, Raichur, graced the occasion as the presiding officer and delivered an insightful presentation on enhancing farmers income through the adoption of innovative technologies. Dr. VasudevNaik, Senior Scientist and Head, warmly welcomed the esteemed guests and farmers to the event and provided a concise overview of KVK's significant contributions to the farming community. Subsequently, Dr. A. H. Yelamani, a progressive farmer from Rasanagi village in Jewargitaluka, shared his valuable insights on the pivotal role of KVK in facilitating the adoption of cutting-edge technologies. The event also featured an interactive session, where scientists engaged in constructive discussions with farmers to identify the specific challenges faced during the Kharif season. KVK scientists, along with the millionaire farmer, Sri. Parashuram, and the esteemed farmers from Jewargi, actively participated in this knowledge-sharing session.

2. Capacity development programme on Kharif crops

In cluster village WasthareTq. Jewargi Dist. Kalaburgi, ICAR-KVK, Kalaburagi-II (Raddewadgi) arranged an off-campus capacity development session for farmers on issues of Kharif crops on July 9, 2024. Dr. VasudevNaik, Senior Scientist and Head, gave a brief explanation of KVK's operations for the farming community at that event. Dr.Chethan, T. Scientist (Horticulture) delivered a talk on improved production technologies in the chilli.Later, Agronomic scientist Dr.Mallappa provided an explanation of integrated crop management for the red gram crop. Dr. Chandrakant, a scientist in soil science, delivered a talk on the value and methodology of evaluating soil and water. About 28 farmers took part in this program, which was an off-campus capacity development initiative. FLD on Red gram was applied in the same hamlet, and associate farmers received inputs from it.

ICAR-KVK, Kalaburagi – II

During 2016 ICAR-KVK, Kalaburgi-II was sanction seed hub to produce and supply the quality and improved varieties seeds to the farming community. From that onwards KVK has been stated to produce improved varieties seeds in large scale and that was process and sold to farmers. So Seed hub became an idiosyncratic to approach to reach the farmers in supplying of quality and improved variety seeds.

B. Production of technological inputs (January 2021 to December, 2023)

Sl. No.	Item	Quantity (q) / Number			Income generated (Rs.)			Farmers benefitted		
		2021	2022	2023	2021	2022	2023	2021	2022	2023
1.	Seeds	174	289	639	14,50,268/-	15,63,880/-	35,07,380/-	973	1427	2703
2.	Planting materials	20000 Number	-	-	20000/-	-	-	-	-	-

- Till today ICAR-KVK, Kalaburgi-II produced 1102 qlts of seeds during 2021 to 2023 from which generated the total income Rs.65,21,528/- this was benefited to 5103 farmers of different districts of the state.
- 20,000/- planting material of fodder slips sold the farmers during 2021. This was benefited to 120 farmers of different districts of state which generate the total income Rs. 20000/-.

ICAR-KVK- Kannur

Training on Value Addition of Prawns

KVK Kannur organized a one day training programme on value addition of prawns on 12th July 2024. Dr. Elizabeth Joseph, Assistant Professor (Home Science), KVK handled a session on processing aspects of prawns. Demonstrations of value added products from fresh prawns and dry prawns were conducted and farmers prepared pickle and chutney powder from prawns.

An interactive discussion on entrepreneurship possibilities of value addition of fish was also conducted after the practical session.

Around fifteen farmers belong to fishermen community attended the training programme. Farmers also shared their experiences in fish farming.

B. Production of technological inputs (January 2021 to December, 2023)

Sl. No.	Item	Quantity (q) / Number			Income generated (Rs.)			Farmers benefitted		
		2021	2022	2023	2021	2022	2023	2021	2022	2023
1.	Seeds	-	-	-	-	-	-	-	-	-
2.	Planting materials	86049 nos.	56266 nos.	64299 nos.	745466	1245115	1091340	3441	3751	4286
3.	Bio products	349.30 q	352.14 q	379.73q	3404812	3617034	4591844	3511	4201	4852
4.	Value added products	527 nos.	658 nos.	1119 nos.	57677	58709	89750	415	551	826

ICAR-KVK- Kasaragod

Income generation through Coconut climbing among SC youths and Vermicomposting under SwatchataPakhwada programme of KVK - Kasaragod

KVK has been instruemental in organizing various skill oriented training programmes under SCSP programme especially for the youth to keep them in activities related to Agriculture and allied fields such as Apiary, backyard poultry and goat rearing. In addition to this activity skill training on Coconut climbing was imparted wherein 20 climbing devices was distributed to 20 identified youths.

More than 70 percent of the youths are regularly employed. With an average charge of Rs 40- 50 per palm the trained youths have a potential of earning around Rs 2000 - Rs 2500 covering 50 palms. With a team work around 100 palms can be covered / day with an average income of Rs 5,000 /day.

Distribution Coconut climbers to SC youths

Organic farm waste is abundantly available in farm and homesteads. With climate changes and heavy rainfall and labour crisis the organic matter deposits accumulated is increasing the incidence of pests/diseases and mosquito breeding with increased incidence of dengue in the area. To curtail the same and to decrease farmers reliability on purchase of organic fertilizers from the market skill oriented training on recycling of organic waste through vermicomposting was conducted with the participation of 15 farmers/farm women.

Recycling of organic waste at household level and through farm wastes was demonstrated with exposure to vermicompost units at CPCRI,Kasaragod with a objective to promote wealth from waste and encourage sustainable production of orgnanic manure to maintain good soil health and food production.

Organic waste management through Vermicomposting

One of the mandates of KVKs is to ensure production and distribution of quality technological products and inputs such as seeds and planting materials of high yielding crop varieties, bio agents, bio pesticides etc. to the farmers of the district. This KVK is fully equipped for the production of technological products and inputs and for this purpose the ICAR has sanctioned Rs. 1,00,000/- as seed money under the Revolving Find (RF) scheme of the council. Initially, KVK has taken up the production of seedlings of arecanut varieties released by the host institute and later on the activity was expanded towards production of seedlings and grafts of other important crops as well as other technological products like bio agents, bio pesticides, mushroom spawn, organic growth stimulants etc.

During this period, Krishi Vigyan Kendra has produced 43,628 numbers of planting materials which include seedlings of arecanut, black pepper, papaya, drum stick, vegetables, fruit crops and fodder grass etc. which benefited 1680 farmers. In addition to this, 542 kg vegetables and cereals seeds and 7 ton coir pith compost were produced and sold benefiting 771 farmers.

Sl. No.	Item	Quantity (q) / Number			Income generated (Rs.)			Farmers benefitted		
		2021	2022	2023	2021	2022	2023	2021	2022	2023
1.	Seeds	29.05	5.12	0.8	12,1190	49000	2420	90	266	32
2.	Planting materials	29361	4792	9475	54,2143	146205	117805	927	494	259
3.	Bio products		6	1		90,000	29,400		230	153

ICAR-KVK- Kodagu

The Graduation Day of Diploma in Agricultural Extension Services for Input Dealers (DAESI) was conducted at ICAR Krishi Vigyan Kendra, Gonikoppal, Kodagu

The Graduation Day of Diploma in Agricultural Extension Services for Input Dealers (DAESI) was conducted at ICAR Krishi Vigyan Kendra, Gonikoppal, Kodagu on 10thJuly 2024. Sri. Riaz Ahemed, Assistant Director of Agriculture (Vigilance), Kodagu was the Chief Guest during the function and distributed the Diploma certificates. The final Diploma certificates were issued from the National Institute for Agricultural Extension Management (MANAGE), Hyderabad. At the start of the programme, Mr. Veerendra Kumar K.V, Subject Matter Specialist (Plant Protection) welcome the gatherings and Akshatha.K. briefed about the programme. Sri. Riaz Ahemed congratulated all the candidates and mentioned that, the responsibility of DAESI trained candidates has increased with this graduation and they should function as positive change agents in the system.

Dr.Rajendiran, Head, CHES, Chettalli in his Chief Guest address emphasised on the importance of technology and the transformation it can bring about in income level of farmers. He told that the DAESI candidates can take a step ahead and become entrepreneurs by implementing new technologies in to his farm and make agriculture is a benefiting farming. Sri. Prabhakara. B, Head,ICAR-KVK, Gonikoppal in his presidential address opined that, this type of programme bridges the gap between farmers and scientists by bringing more extension agents in to the Governments fold. These input dealers can now act as Krishi information centres than merely functioning as agriculture input shops in the rural areas.

The one-year Diploma Course programme was coordinated by Mr. Veerendra Kumar K.V, Subject Matter Specialist (Plant Protection) and Miss. Akshatha.K as Facilitator.

ICAR-KVK, Kodagu

In 2002, ICAR sanctioned seed money of Rs. 50,000, contributions from crop produce such as coffee, black pepper, arecanut, sapota, guava, and tender coconut significantly boosted the growth of the Revolving Fund. As of now, the Revolving Fund stands at Rs. 70 lakhs. A major advancement in recent years has been the development of technological inputs, including the Arka Microbial Consortium—a patented product from IIHR, Bengaluru. This product was evaluated and successfully demonstrated in farmers' fields over 3-4 years and later scaled up with the support of NABARD. The production capacity of this plant growth promoter and disease management tool for black pepper increased from 3 tonnes to 10 tonnes per year.

Recently Mushroom cultivation has emerged as a crucial activity. To addressspawn demand the unit was scaled up with support from the Department of Horticulture under the National Horticulture Mission, receiving an investment of Rs. 15 lakh. This initiative has transformed into a flagship activity for the KVK, which now supplies high-quality mushroom spawn to trainees, rural youths, and aspiring entrepreneurs. Currently, comprehensive support is provided to growers across all aspects of mushroom production technology, including spawn production, fresh mushroom cultivation, value addition, ready-to-fruit bags, and marketing. Additionally, a soil testing laboratory was established under the Revolving Fund. Over the past five years, more than 6,500 soil samples have been analysed, and soil health cards have been issued to over 3,600 farmers.

Single-node method of rooting the black pepper variety Arka Coorg Excelhas increased from an initial 1,500 to up to 30,000 per year, greatly contributing to the growth of the Revolving Fund.

Production of technological inputs (January 2021 to December, 2023)

Sl. No.	Item	Quantity (q) / Number			Income generated (Rs.)			Farmers benefitted		
		2021	2022	2023	2021	2022	2023	2021	2022	2023
1.	Seeds	-	-	-	-	-	-	-	-	-
2.	Planting materials	22190	25610	28775	376100	475000	605000	298	310	567
3.	Bio products	14285	15650	11650	1428000	1565000	1165000	1781	1457	1257
4.	Animal/ fish related products	4850	4215	4568	864336	838864	839250	580	543	602

Arka Coorg Excel Nursery planting material production

Mushroom bag preparation

ICAR-KVK- Kolar

Awareness programme on Natural farming

ICAR-KVK, Kolar organised awareness programme on Natural farming for Sericulture farmers at M Mallandahalli village, Kolar taluk on 05.07.2024. Dr. Shashidhar K R., Scientist (Sericulture) briefed on Seri waste management, Dr Anil kumar S. Scientist (Soil Science) explained Natural farming techniques & their management practices. Dr Manjunath Reddy T.B., Scientist (Plant Protection) enlightened the Role of bio agents in mulberry farming.Sri Bytarayappa, Sericulture Inspector, Sericulture Dept, Kolar & 30 sericulture farmers participated & benefitted from the programme.

Bi-monthly workshop

ICAR-KVK Kolar organized bi-monthly workshop on 06.07.2024 at KVK. Dr. Madhuprasad, Director of Extension, UAS Bengaluru inaugurated the event and briefed on Stress management among employees. Dr. Anand M.R, Professor (Agronomy), UAS, Bengaluru delivered lecture on "Improved cultivation practices in Kharif crops". Dr.Manjunatha Reddy T. B., Scientist (Plant Protection) KVK, Kolar explained about Pest & Disease management in field crops.

Capacity building programes:

Entrepreneurship development through Apiary on 8.7.24

Capacity building program on improved cultivation practices in finger millet variety KMR-360

Capacity building program on the use of Land Resource Inventory soil health cards under the REWARD project

Capacity building training programme on After Harvest Management practices in Mango:

At MDC Hogalagere on 01.07.2024

ICAR-KVK, Kolar

ICAR- KVK, Kolar covering an area of 5 acre is almost occupied with Jack fruit plantation. Within the scanty area available, KVK Kolar is employed with seed production of different crop species within row space as intercrop and growing in other open area. Considering the needs and demand of our esteemed farmers, also keeping in view the resources available in our premises, the annual seed production and planting material production plan was usually being proposed every year under Revolving fund project. Our KVK is accomplished with the seed production of green manure crops like Sun hemp, Mucuna, multicut fodder sorghum varieties and planting material production of Drumstick, Curry leaf, Mulberry, also raising Rootstocks of fruits & plantation crops like Mango, Lime & Jamun, Cashewnut, Coconut seedlings. In accordance to farmer requisite, our KVK is procuring bio agents mainly Waste Decomposer and reselling to the farmers.

Production of technological inputs (January 2021 to December 2023)

Sl. No.	Item	Quantity (q) / Number			Income generated (Rs.)			Farmers benefitted		
		2021	2022	2023	2021	2022	2023	2021	2022	2023
1.	**Seeds (kg)**									
a	Grain Amaranthus seeds	8	-	-	2400	-	-	1	-	-
B	Multicut Fodder sorghum seeds (Variety- CoFS-31)	53.5	13	-	24075	5850	-	17	5	-
C	Sun hemp seeds (Variety-Local)	120	28	10	9600	2240	800	2	5	1
d	Mucuna seeds (Arka- Shubra)	-	17	113	-	1700	11300	-	3	23
2.	**Planting materials (Number)**									
a	Drumstick seedlings (Variety- Bhagya)	31725	20107	15078	330366	241284	180936	141	104	103
b	Curry leaf seedlings (Variety- Suvasini)	2677	4388	614	38250	65820	9210	38	32	31
c	Mulberry seedlings (Variety-V-1)	1694	2360	5400	6776	10440	27000	6	6	19
d	lime seedlings (Variety-Balaji)	-	21	2789	-	420	55780	-	5	26
e	Mango rootstocks	-	2750	-	-	33000	-	-	3	-
F	Cashew rootstocks	-	1200	-	-	24000	-	-	1	-
g	Coconut seedlings (Variety- Arsikere Tall)	-	-	1768	-	-	176800	-	-	52
H	Jamun rootstock	-	-	30	-	-	450	-	-	1
3.	**Bio products (Number)**									
a	Waste decomposer	985	644	703	39400	25760	105450	91	106	154
b	Siddi Zola	10	-	-	1500	-	-	2	-	-

ICAR-KVK- Kollam

World Zoonoses day 2024 celebrations - Public awareness programme for Students

Kerala Known as God's Own Land, is blessed with wetland habitats, numerous water bodies, and the presence of the Western Ghats. These habitats increase the potential for pathogens to be transmitted from wild animals to domestic animals and humans. Habitat loss has forced wild animals like bats and monkeys closer to human residential areas, leading to increased contact with humans and the emergence of zoonotic diseases. 75% of Infectious diseases are zoonotic, affecting those working in Animal Husbandry and Wildlife close to forest regions.

Kerala, currently experienced with wide range of zoonotic diseases like rabies, bird flu, rat fever, monkey fever, Japanese fever, West Nile fever, scrub typhus, swine flu, and even Nipah with in last few years. Zoonotic diseases are a global health concern that requires continuous attention to prevent outbreaks, protect public health, and promote the well-being of both humans and animals. An awareness program on World Zoonose Day was organized by ICAR- Krishi Vigyan Kendra, Kollam on July 6th in 2024 with a theme of preventing the spread of Zoonotic diseases for the students of Government Higher Secondary School Pavithreshwaram, Kollam lead by Dr.Parvathy S. (Animal Husbandry) at seminar hall Krishi Vigyan Kendra. The session dealt with the various zoonotic diseases in Kerala, their ethiology, common signs and symptoms and their chances of spread during various seasons. Also emphasis the safety measures to be followed by livestock farmers and pet owners while handling the dairy and pet animalsduring outbreak and the importance of rabies and its vaccination schedules in animals and humans. Total of 50 students and Teachers participated in this awareness campaign programme.

ICAR-KVK, Kollam

Planting Materials

Quality planting materials are crucial for high yields and sustainable agriculture. In 2021, 83,857 planting materials were produced, generating Rs. 481,542 and benefiting 8,904 farmers. In 2022, production decreased to 76,652, but income rose to Rs. 629,662, benefiting 9,966 farmers. In 2023, production surged to 106,240 planting materials, generating Rs. 815,160 and benefiting 33,719 farmers.

Bio Products

Bio products have shown significant growth over three years. The products included bio fertilizers, bio pesticides, bio fungicides, botanicals, pheromone traps, and micronutrients. In 2021, 185.57 quintals were produced, generating Rs. 1,466,616 and benefiting 11,236 farmers. In 2022, production rose to 313.16 quintals, with income reaching Rs. 2,576,840 and benefiting 16,762 farmers. In 2023, production decreased to 256.49 quintals, but income remained high at Rs. 2,430,566, benefiting 20,668 farmers. This highlights the effectiveness and growing adoption of bio products.

Animal/Fish Related Products

Chicks and goats are major items supplied through the revolving fund at KVK Kollam. In 2021, 724 chicks were produced, generating Rs. 86,880 and benefiting 64 farmers. In 2022, this number soared to 2,980 chicks and goat, with an income of Rs. 372,510 and benefiting 115 farmers. In 2023, production decreased to 1987 chicks, generating Rs. 284,545 and benefiting 80 farmers. This indicates effective outreach and product adoption by farmers.

Value-Added Products

Value-added products, mainly fruit syrups, showed steady growth. In 2021, 277 litres were produced, generating Rs. 41,418 and benefiting 572 farmers. In 2022, this increased to 301 litres, with income rising to Rs. 72,657 and benefiting 560 farmers. In 2023, production rose to 453 litres, generating Rs. 130,256 and benefiting 670 farmers. This trend reflects increasing value addition to agricultural products, enhancing income and farmer livelihoods.

Sl. No.	Item	Quantity (q) / Number			Income generated (Rs.)			Farmers benefitted		
		2021	2022	2023	2021	2022	2023	2021	2022	2023
1.	Planting materials (nos)	83857	76652	106240	481542	629662	815160	8904	9966	33719
2.	Bio products (q)	185.57	313.16	256.49	1466616	2576840	2430566	11236	16762	20668
3.	Animal/ fish related products (nos)	724	2980	1987	86880	372510	284545	64	115	80
4.	Value added products (l)	277	301	453	41418	72657	130256	572	560	670

ICAR-KVK- Koppal

Training programme on nutri garden

Nutri garden play important role in alleviating malnutrition in rural areas. Nutri garden play an important role in human provides fresh fruits and vegetables round the year at our hand along and fulfils the micronutrients requirements of the body. Establishment of nutri garden in rural areas is easy due to availability of space and farm families are already engaged in agriculture practices. Practices of nutri garden have many social benefits such as better health and nutrition, increased income, employment, food security within the household, and enhance community social life. ICAR Krishi Vigyan Kendra Koppal organised training programme on 8.7.2024in Somnal camp village Karatagi taluka. Programme was inaugurated by watering the plant by Dr.Kavitha. Ullikashi Scientist (Home Science) and explained the importance of nutrigarden for management of micronutrient deficiency in children and women. She also narrated about the nutritional importance of vegetables and different low-cost nutritious diet for children.

Training programme on Chemical free paddy production

Paddy is the main crop in Gangavathi and Karatagi talukas of Koppal district. Abundance use chemicals and fertilizer not only increased the chemical residue in the rice but also reduced the fertility od soil and increased the environment pollution. Organic paddy cultivation improves soil and environmental health while providing high quality, safe food. ICAR KVK Koppal in association with keralamanjilla food tech private limited organised one day training programme on chemical free paddy cultivation. The programme was inaugurated by Dr.RaghvendraYaligar inaugurated the programme by lighting the lamp .he explained the importance of organic cultivation in paddy. He also explained the impact of use of chemicals in soil and environment. Dr.ChandrkantNadgoudar ADA, Gangavathi, KSDA explained the benefit of adoption of organic paddy cultivation. Shri Ajithkumar Manager manjilla food tech private limited explained the importance of organic cultivation on human health.

Being one of the mandates, production of quality seeds, seedlings and bio products plays a major role in signifying the quality services to farming community in a way towards sustaining production, income and resources. KVK Koppal has provided quality seeds, seedlings and bio products encompassing irrigated and rainfed farming to more than 5000 farmers and covering major crops of the district. To achieve healthy crop growth and profitable yields, quality seeds and planting materials serve as a basis and they are region suitable and pest & disease free. The improved seeds and planting materials of major crops produced at KVK and provided to farmers of the district are as follows:

Sl. No.	Item	Quantity (q) / Number			Income generated (Rs.)			Farmers benefitted		
		2021	2022	2023	2021	2022	2023	2021	2022	2023
1.	Seeds	392	1161	548.68	323400	1095413	656150	112	938	70
2.	Planting materials	1048	1135	545	333310	15280	13395	31	54	34
3.	Bio products	8.7	174.25	51.573	113700	329000	764628	32	68	76
4.	Animal/ fish related products	1494	1797	1500	59769	71000	61000	25	35	28
5.	Value added products	-	-	-	-	-	-	-	-	-

Improved varieties of paddy such as RNR-1504 which was short duration,, low glycaemic index and BPT- 5204 with good keeping quality provided to the farming community through KVK have resulted in increased yield and income in paddy .

ICAR-KVK - Kottayam

Drone seeding for the first time in Kerala- A milestone by KVK Kottayam

Krishi Vigyan Kendra Kottayam demonstrated sowing of paddy using seed broadcaster attached agricultural drone for the first time in Kerala. This novel technology was demonstrated on 06.07.2024 at the experimental plot of Mr. Johnichan at Champakulam, Kuttanad near MSSRRS, Moncompu. This technique also favours soil acidity management in the Kari soils as acidity is not released from walking in the field like that required during manual sowing. Also, seed is saved from deeper placement which helped in even sowing and crop stand.

KVK Kottayam-Seed broadcasting using Drone

KVK Kottayam-Seed broadcasting using Drone

Capacity building programme on post-harvest processing and value addition of fruit crops

KVK Kottayam-CBP on post-harvest processing and value addition of fruit crops

KVK Kottayam organised an on-campus capacity building training on 'post-harvest processing and value addition of fruit crops' on 05.07.2024 for the members of Kanjiramattom Farmer Producer Company, Pala. Twenty members including the board members participated in the training programme. Technology for minimal and intermediate processing of fruits, storage of fruit pulp, preparation of fruit sip up, fruit beverages (Squash, Syrup, Crush, RTS), concentrated products (Jam, Jelly, Varattu), dehydrated products (Chunks, TuttiFruttii, Bar), pickled products, frozen battered and breaded products (Cutlet, Momos) were demonstrated. Sessions were also conducted on packaging, labelling and branding of products.

Karappuram Vision 2024-25

Karappuram Vision 2024-25 was organized by Krishi Vigyan Kendra Kottayam in association with the Department of Agriculture Development and Farmers' Welfare, Government of Kerala at Pandit Karuppan Memorial Hall, Thannermukkom on 03.07.2024. KVK Kottayam exhibited various bio-inputs. Dr.Jayalekshmi G, Senior Scientist and Head, KVK Kottayam inaugurated the programme. Department officials and public representatives participated in the programme. A seminar on "Cultivation Practices in Marigold" was handled by Dr.Asha.V.Pillai, SMS (Agronomy), KVK Kottayam. Ms.Karolsha Sebastian, SMS (Plant Protection) conducted an awareness session on "Pest and Disease Management in Vegetables". Farmer's market, distribution of planting materials, exchange of indigenous varieties, soil test campaign and agricultural loan insurance campaign were also conducted as part of the programme.

ICAR-KVK, Kottayam

Production of technological inputs (January 2021 to December, 2023)

Sl. No.	Item	Quantity (q) / Number			Income generated (Rs.)			Farmers benefitted		
		2021	2022	2023	2021	2022	2023	2021	2022	2023
1.	Seeds	0.3045 q	0.36 q	0.37	73025/-	75625/-	76235/-	400	520	545
2.	Planting materials	38630 Nos.	26770 Nos.	51180 Nos.	2715835/-	1062000/-	1011600/-	450	545	658
3.	Bio products	106.862 q	382.518q	403.195 q	1006868/-	3562657/-	3451375/-	6825	9658	11025
4.	Animal/ fish related products	14.23 q	16.54 q	17.93 q	45625/-	54850/-	66206.25/-	560	658	725
5.	Value added products	10.7025 q	11.325 q	12.450 q	107165/-	124590/-	134502/-	1220	1416	1496

ICAR-KVK- Kozhikode

KVKs Golden jubilee torch reached KVK Peruvannamuzhi

A year-long celebration of the establishment and existence of KVK system in the country for 50 years is being celebrated by way of various programmes by 731 KVKs in the country. As part of it, a torch is being moved from KVKs of Kerala and Karnataka under ATARI ZONE- XI. In this connection, the golden jubilee torch is being received by KVK, Calicut. The torch was handed over by Dr Deepa S, Head, KVK, Waynad to Dr P. Ratha Krishnan, Head KVK, Calicut. The mega celebration was held along with progressive farmers, the general public and staff of IISR. In continuation, trainings on mushroom cultivation by Dr K.M. Prakash, SMS and Banana Fibre extraction by Ms A. Deepthi was also conducted.

Capacity development programmes organized by KVK:

a) Capacity development programme on Oyster mushroom cultivation

A one day training on Oyster Mushroom Production Technology was organized for farmers and farm women at KVK, Calicut on 11.7.24. Recent production technologies including use of pellet medium was also demonstrated by Dr.K.M.Prakash (SMS, Agronomy).

b) Capacity development programme on bush pepper production technology for extension functionaries

A one day capacity development programme on Bush pepper production technology was organized byDr.P.S.Manoj, SMS for the officials from Vegetable and Fruit Promotion Council, Kerala. In addition to theory and practical sessions on the subject, the officials were also taken to two commercial nurseries engaged in large-scale bush pepper production. Nine officials from different district offices of the institution attended the programme.

c) Training cum exposure visit of students

On 1.7.24, a one day training and exposure visit to KVK Calicut was arranged on Integrated Farming System for students from Uralloor UP School, Arikkulam. A total of 51 students and 4 teachers attended the programme at KVK. The students were also taken to the model homestead garden of KVK for on hand experience in crops and other enterprises practiced in IFS by KVK. The training was led by Dr.K.M.Prakash (SMS, Agronomy).

Unavailability of various technological inputs is a major problem faced by farmers. In order to overcome this issue, various techno inputs like seeds and planting materials, bio products, value added products etc. are produced by KVK and supplied to farmers in a timely manner under KVK revolving fund.

Production of technological inputs (January 2021 to December, 2023)

Sl. No.	Item	Quantity (q) / Number			Income generated (Rs.)			Farmers benefitted		
		2021	2022	2023	2021	2022	2023	2021	2022	2023
1.	Seeds	1.96	2.4	4.04	33,620	56,295	82,835	712	790	776
2.	Planting materials	25937	13,737	28,629	9,65,467	8,60,597	10,03,753	3122	3320	2821
3.	Bio products	11.99	14.16	26	1,78,380	1,56,134	2,56,343	1082	1245	1069
4.	Animal/ fish related products	11679	4386	2939	7,19,052	5,07,272	2,29,189	1642	1048	517
5.	Value added products	-	0.1	0.05	-	5634	1432	-	85	10

Innovative ways followed to enhance KVK RF

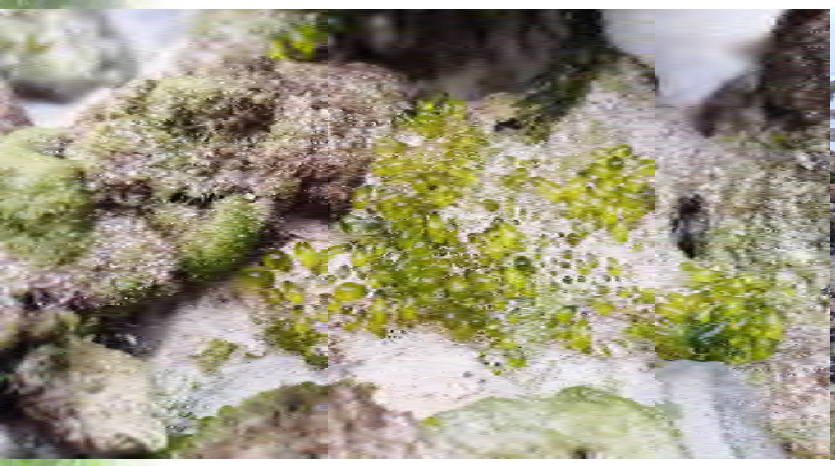
Dearth of skilled personnel for planting material production is a major problem faced by KVK. To enhance production of quality planting materials, KVK conducts hand on training programmes of up to six months duration in Nursery management and successful trainees of such programmes are involved for quality planting material productionin KVK. They are also encouraged to venture into start-ups like commercial plant nurseries with accreditation. Quality planting materials of various crops are procured by KVK from such accredited nurseries of KVK trainees to meet the huge demand of planting material which in turn add to the income of KVK RF.

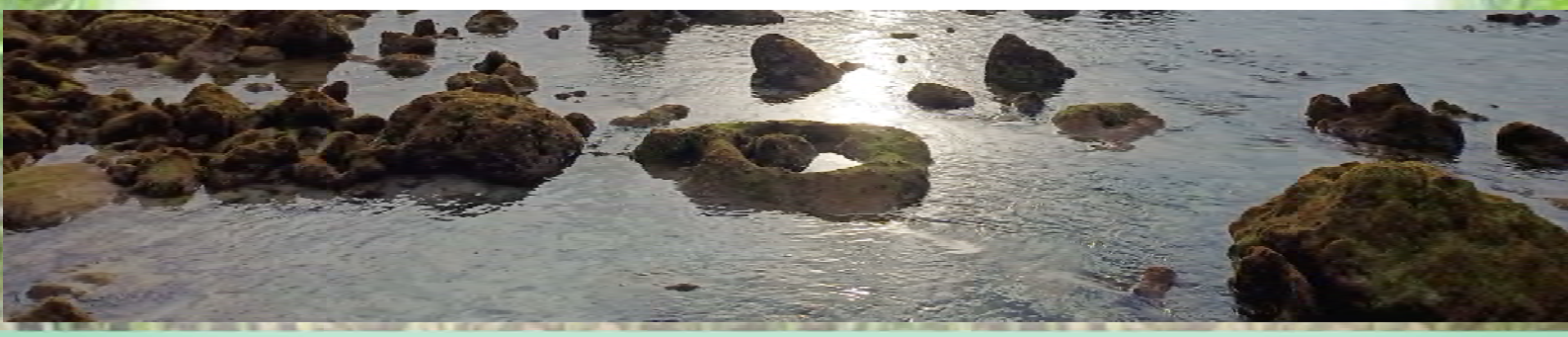
ICAR - KVK - Lakshadweep

Survey of Seaweed Diversity and Distribution for future works of KVK in Lakshadweep Islands

KVK- Lakshadweep organises a baseline survey on the seaweed assemblages along the coastline of Kavaratti Island, Lakshadweep. The aim of the survey is towards working on development interventions on seaweeds fitting into the mandates of KVK. The KVK will develop a repository of the works performed on seaweeds towards identifying potential area of further development works. Lakshadweep's coral reefs, known for their rich marine biodiversity, are closely linked with various macroalgae, commonly referred to as seaweeds. These organisms play a vital role in maintaining reef health, particularly through reef calcification, where calcareous algae contribute significantly to the structural integrity of the reefs. Despite their importance, detailed studies focusing on the seaweed flora of specific islands like Kavaratti have been limited.In July, the newly joined Subject Matter Specialist (Aquaculture) Mr. Sagar Vitthal Shinde of KVK was entrusted to work and generate report under the guidance of Dr. P.N. Ananth, Principal Scientist and Head. This survey is critical in understanding the ecological role of seaweeds within the coral reef ecosystems that characterize this unique region.

Extensive field surveys were conducted to assess the species richness, abundance, and spatial distribution of seaweeds across different habitats on Kavaratti Island. The surveys revealed a thriving seaweed community of various Genera, such as *Caulerpa*, *Halimeda*, *Chaetomorpha*, *Sargassum*, and *Acanthophora*. The data collected through this study offer valuable insights into the diversity and distribution patterns of seaweeds on Kavaratti Island. This baseline information is essential for developing effective conservation and management strategies to preserve Lakshadweep's coral reef ecosystems and to work on intervention in line with the mandates of KVK.





ICAR-KVK, Lakshadweep

Coconut Nursery in Kavaratti Island established by FPO and promoted by KVK

The KVK has been key to establish and promote the first FPO in Lakshadweep islands which has been formed as "FPO as a Cooperative". Kavaratti Island Coconut Farmers Producer Cooperative Society (KICPCoS), Kavaratti is the FPO formed/promoted by KVK. Towards provision of Agricultural Extension Advisory Services (AES) and supply of inputs, the KVK facilitated/linked the FPO and ICAR-CPCRI, Kasaragod. The KVK worked jointly with ICAR-CPCRI on the establishment of a Coconut Nursery with the FPO in promotion of the Hybrid Var. Ganga Bondam under the Tribal Sub Plan (TSP) funds. The variety is suitable to the island as characterised being a dwarf variety of Coconut which starts bearing within four years. The palm grows upto 10 ft which reduces the drudgery in climbing. The acute shortage of climbers in the island can be mitigated by adopting this variety. In the first phase, the FPO has received 100 seed nuts which are at the stage of transplantation. A nursery was established by the FPO in Kavaratti for this purpose and will be a permanent infrastructure for the future activities. Among the planted Ganga bondam coconut seed nuts 80% have sprouted and at present are in the stage of transplantation (between 1-15 July, 2024). The FPO will be receiving the next consignment of 500 seed nuts for this purpose.

In addition to that the KVK has been appointed as the nodal agency towards scheduling the three month Saturation Drive of FPOs in Lakshadweep. The Department of Agriculture has appointed Dr. P. N. Ananth, Principal Scientist and Head, KVK as the Member Secretary, District Level Monitoring Committee for this special drive. The committee is chaired by the District Collector of Lakshadweep. Apart from the special drive Sri. Arjun Mohan, IAS, Collector, Lakshadweep Islands has been keen on supporting the activities of FPOs. The formal licences for different activities of the FPO will be provided under this activity.

ICAR-KVK- Malappuram

Comprehensive Training on Nursery Management for SC Farmers

The KVK conducted a two days practical oriented capacity development program for SC farmers of the district focussing on nursery management techniques. The training held under the SCSP programme, was designed to equip SC farmers with essential skills in budding, grafting, and layering. Dr.Akhilraj, SMS (Horticulture) led the sessions, providing both theoretical knowledge and hands-on experience. The comprehensive approach combining both theoretical learning and hands on practice was well appreciated by the participants having enhanced their horticultural skills, to contribute significantly to their farming practices and overall income. All the participants were also provided with kits containing cultivation inputs, planting materials and essential tools for the routine horticultural interventions.

Distribution of input kits to SC farmers

SCSP training participants with input kits distributed

Equipment distribution Mela in tribal Village

Various agricultural equipment / small machineries, cultivation inputs and implements were distributed to 44 tribal farmers / agricultural labourers for enhancing their livelihood and agricultural practices. The needs of tribal community for agricultural equipment / machineries and implements for reducing drudgery and enhancing income were assessed through local volunteers / panchayath members and agricultural department staff. The demand list was prioritised and items purchased under TSP programme 2023-24 as well as 2024-25. The distribution Mela was arranged at Chokkad Panchayath and the programme was inaugurated by Block Panchayath President. Items such as Brush cutter (15), Coconut climber (8), Chain saw (1), Wheel barrow (20) spade (8) and Nutrigarden input Kits (44) were distributed to 44 tribal people belonging to Chokkad, Kalikavu and Karulai.

ICAR-KVK, Malappuram

The KVK was actively involved in producing and supplying various bio inputs starting from its inception in 2004 as a service to the farming community and major income generating activities. Items of production under RF includes quality seeds and seedlings of various vegetable crops, saplings of fruit and plantation crops, fodder varieties, ornamental plants, medicinal plants etc.

KVK Nursery

Bio control agent mixing and packing in progress

Bio control agents to enhance agricultural Productivity

Various organic cultivation inputs / disease control agents falling under various categories are also being produced in large quantities such as*Pseudomonas, Trichoderma,* Neem Garlic soap, Fish amino acid, *Beauveria bassiana, Lecanicilliumlecani and Metarhiziumanisopliae, etc.* Trichoderma enriched cow dung / compost, Vermi compost, coir pith compost and Tricho cake for the management of Bud rot and stem bleeding in coconut, Para pheromone traps against fruit fly – Methyl eugenol and Cue lure traps, Natural enemies – Trichocards (*Trichogrammachilonis and T. Japonica*) are other major bio-inputs.

Innovative steps of the KVK to enhance RF productivity

1. Production of bio-control agents such as pseudomonas and Trichoderma in a more convenient and cost effective liquid form was one of the innovative step recently introduced by the KVK.
2. Local production of Trichocards setting up a new dedicated laboratory at KVK and also through three satellite units scattered across the district, to meet the demand of the same has been initiated

   Extension approach producing many information boards to cater the huge demands from Agricultural department institutions was another major steps that has contributed to the multiplication of RF income on a larger scale.

Trichocard production lab.

The turn-over of major inputs over the last three years are shown below

Sl. No.	Item	Quantity (q) / Number			Income generated (Rs.)			Farmers benefitted		
		2021	2022	2023	2021	2022	2023	2021	2022	2023
1.	Seeds	5.06	6.16	8.41	1265445	1540225	1960645	1246	1847	2214
2.	Planting materials	94115	114560	108450	256607	315040	244842	784	1454	1257
3.	Bio products	257.2	285.72	495.66	950575	1152167	1257565	914	1142	2145

ICAR-KVK- Mandya

Capacity building programme on Integrated nutrient, pest and disease management in coconut

A capacity building programme was organized by ICAR-Krishi Vigyan Kendra, V.C.Farm, Mandya entitled Integrated nutrient, pest and disease management in coconut on 15.07.2024 in collaboration with Department of Horticulture, Maddur at Budaguppe Village, Maddur Taluk to apprise the farmers about the importance of integrated nutrient management for better management of orchard and methods to be followed such as use of green manures and concentrated cakes once a year which improves soil health and avoids many of pest and diseases. The information with respect to pest and diseases and their management and especially the black headed caterpillar which was a major havoc in the village was provided and subsequently the importance of release of parasitoids*Goniozusnephantidis*, and root feeding methodology demonstration was arranged for the benefit of the farmers in the region.

ICAR-KVK, Mandya

ICAR-KVK, V.C.Farm, Mandya is involving in continuous supply of quality planting material, seeds and other inputs to farmers. Along with planting / seedling material supply farmers are given with technical knowledge on how to grow scientifically.

Through demonstrations (CFLD) approaches farmers are distributed pulses seeds (Black gramGreen gram, Cowpea etc.,) and consultancy has been given by KVK Scientists and produces are purchased by the KVK under seed hub project, thereby encouraging farmers to grow pulses off season paddy.

Ragi being one of the major crops in Mandya district, Home Science department has made effort to create the awareness about nutritional importance of ragi and best way of use it in the form of malt. The ragi seeds are procured by the farmers and malt powder is prepared out of it and makes it available to local people there by encouraging nutritional security among the farmers.

Sericulture is one of the major activities among the farmers of Mandya district. Raising good quality mulberry sapling and supply to the sericulture farmers along with the essential technologies regarding mulberry cultivation helping in increased quality silkworm cocoon production.

The supply of above mentioned technological inputs greatly benefited to farmers of the district which helps to improved production productivity and sustainability in the field of agriculture, contributing to the livelihoods of many farmers in the district.

B. Production of technological inputs

Sl. No.	Item	Quantity (q) / Number			Income generated (Rs.)			Farmers benefitted		
		2021	2022	2023	2021	2022	2023	2021	2022	2023
1.	**Seeds**									
	Paddy(Jaya)	42q			73500			142		
	IR-64	33.2q			61813			130		
	IR-64		64q			132388			238	
	Ragi Indaf-7		3.75q			13500			64	
	Ragi			5.30q			26670			92
	MTU-1001			50.54q			125813			180
	Pulses	96.33 q	56.27q	140.45 q	1204125	759645	2598325	850	450	1060
2.	**Planting materials**									
3.	Coconut Seedlings	2234	1010	3178	223400	101000	317800	55	25	80
4.	Plants / Saplings (Sapota, Mango, Amla Curry leaf, Sibe, Adike, Nerale, Nimbe,	4862	1446	7696	403980	67430	306400	100	30	160
5.	Bio products (Trichoderma + Pseudomonas)	617 Kg	237 kg	846 kg	61700	23700	84600	154	60	170
6.	Animal/ fish related products	-	61Kg	140.5 Kg	-	24400	56200	-	-	-
7.	Value added products	71 Kg	232.5 Kg	222.5 Kg	14200	46500	44500	35	117	112

Quality coconut seedling raised at KVK

Quality coconut seedling raised at KVK

ICAR-KVK- Mysuru

Capacity building programme on scientific cultivation of Banana

ICAR JSS Krishi Vigyan Kendra Suttur Mysore with the collaboration of IAT Mysore organized a capacity building programme on **Scientific cultivation of Banana** inprogressive farmer Kumarswamy fieldat Mosambanahalli Village of Mysore Taluk. The programme was inaugurated and graced by Dr Gnanesh B N KVK Head, Dr Mahantheshappa IAT President, Dr Yogesh DDA Mysore and other KVK staffs and IAT members.

Capacity building programme on scientific cultivation of Banana / NanjangudRasabale

ICAR JSS Krishi Vigyan Kendra Suttur Mysore with the collaboration of Mysore Jilla panchayath, Department of Horticulture, Nanjungud Taluk organized a capacity building programme on **Scientific cultivation of Banana and Nanjungudu**at APMC meeting hall of Nanjangudu. The programme was inaugurated and graced by Nanjangudu MLA Darshan Dhruva Narayan and Dr Gnanesh B N KVK Head.

Capacity building programme on Scientific cultivation of Arecanut

ICAR JSS Krishi Vigyan Kendra Suttur Mysore organized a capacity building programme on **Scientific cultivation of Arecanut** at KVK. The programme was inaugurated and graced by Dr Gnanesh B N KVK Head, Manjunath Bargi and Chandrashekar Progressive farmers.

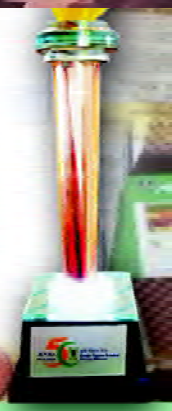
Participation as a resource person in capacity building program under NMEO at DATC Mysuru

ICAR JSS Krishi Vigyan Kendra Suttur, agronomy scientist Shri. Shamaraj participated as a resource person in two days capacity building program on "Oilseed cultivation and its value addition" on 03 July 2024 at District Agriculture Training Centre (DATC) Nagenahalli Mysuru. KVK scientist explained about oilseed scenario in the district, problems and prospectus of oilseed cultivation, improved varieties and package of practices in oilseed cultivation.

ICAR-KVK, Mysuru

Production of Seeds, planting materials, bio products, animal products and value added products during 2021, 2022 & 2023 at ICAR JSS KVK Mysuru

Sl. No	Item	Quantity(q)/Number (No)			Income generated (Rs.)			Farmers benefited (No)		
		2021	2022	2023	2021	2022	2023	2021	2022	2023
1	Seeds	943 q	377 q	273 q	29,99,520	16,37,672	28,83,660	503	2536	613
2	Planting materials	4,52,903	7,19,660	446808	14,69,610	15,34,935	19,33,686	1,264	1,491	1608
3	Bio products	413 q	1414 q	383 q	9,87,600	25,08,600	11,84,240	1047	1302	2625
4	Animal products	21.6 q	55.7 q	50.7 q	71260	1,89,436	1,74,899	265	289	255
5	Value added products	101238	101165	100789	2,42,670	2,36,500	2,29,170	2436	2417	2380



ICAR-KVK- Palakkad

Capacity Building Programme on Enhancing Commercialization of bio fortified sweet potato under NABARD funded project

As part of capacity building programme related to the project funded by NABARD on enhancing sweet potato commercialization in Palakkad district for nutritional security, two sessions on commercial scale cultivation of sweet potato were organized by KVK, Palakkad. The first session was conducted at Tribal Extension Centre, Attappady on July 5th, 2024 and the second session was organized at KVK itself. 26 farmers participated in the capacity building programme at Attappady and 15 farmers participated in the same organized at KVK on July 8th, 2024. Both the sessions were handled by Mr. Arun Thazhath, SMS (Agronomy), KVK, Palakkad. The farmers were familiarized with scientific cultivation practices of sweet potato as well as bio fortified varieties of the crop and their benefits.

ICAR-KVK, Palakkad

KVK Palakkad has made significant strides in the production and distribution of technological inputs over the past three years, contributing greatly to the agricultural development in the region. A total of 5890 Kg of seeds were produced and distributed to farmers. This initiative generated an income of Rs. 8,98,937 and benefitted 2300 farmers. The focus was on high-yielding and disease-resistant varieties to ensure better productivity and resilience in farming. KVK Palakkad produced and distributed 48743 units of planting materials, generating an income of Rs. 12,37,518. This effort benefitted 2300 farmers. The planting materials included a wide range of horticultural crops and improved varieties to enhance crop diversity and resilience. A remarkable achievement was the production of 318380 units of bio products, including bio-fertilizers, bio control agents and organic pesticides. This effort generated an income of Rs. 55,37,890 and reached out to 100000 farmers. The focus was on promoting sustainable agricultural practices and reducing the dependence on chemical inputs. The production of animal and fish-related products, amounting to 8846 units, generated an income of Rs. 8,50,666. This initiative benefitted 1000 farmers and aimed at enhancing livestock and aquaculture productivity through improved feed and healthcare products. The production and distribution of 3206 units of value-added products generated an income of Rs. 1,23,380 and benefitted 700 farmers. These products included processed foods and agro-based products, adding value to the raw agricultural produce and enhancing farmers' income.

Innovative Approaches undertaken by KVK Palakkad

KVK Palakkad adopted several innovative approaches to enhance its impact:

- ✓ Farmer Field Schools and Demonstrations: Conducted hands-on training and demonstrations to showcase the benefits of the technological inputs.
- ✓ Collaborations with Research Institutions: Partnered with research institutions for developing and testing new varieties and bio products.
- ✓ Digital Platforms: Leveraged digital platforms for training and dissemination of information, ensuring a wider reach and timely updates.

Production of technological inputs (2021 to March, 2024)

Sl. No.	Item	Quantity (q) / Number				Income generated (Rs.)				Farmers benefitted			
		2021	2022	2023	2024	2021	2022	2023	2024	2021	2022	2023	2024
1.	Seeds	1106	1533	1163	1163	143032	244300	257083	178818	500	500	300	400
2.	Planting materials	21346	21619	30176	6418	91722	566620	719055	72893	700	700	700	400
3.	Bio products	77807	111861	14764	8629	1668752	1842030	970520	518250	12000	14000	10000	5000
4.	Animal/ fish related products	596	3205	3735	520	59600	340960	305020	88802	200	500	600	100
5.	Value added products	533	274	2588	40	53230	340960	305020	1848	100	50	300	10

ICAR-KVK- Pathanamthitta

WORLD ZONOOSIS DAY 2024

Krishi Vigyan Kendra (KVK), Pathanamthitta celebrated World Zoonosis Day on 8th July 2024 at Chengamon, Eraviperoor Panchayat of the district. The program was inaugurated by Sri. K.B. Sasidharan Pillai, President, EraviperoorGrama Panchayat and presided over by Sri. N.S. Rajeev, Member of Koipuram Block Panchayat. On this occasion, awareness was raised about the currently prevalent zoonotic disease **"bird flu"** in the district. Informative sessions by Dr.Sency Mathew, SMS (Animal Science) provided crucial insights into the disease and its prevention. As part of the SC Sub Plan initiative under ICAR-NBAIR, poultry birds were also distributed to the SC participants. This initiative aims to support and enhance the livelihood of the Scheduled Caste community by providing them with resources to sustain and grow their poultry farming activities. The event aimed to raise awareness about zoonotic diseases and to promote preventive measures among the local community. The celebration included interactive discussions and demonstrations on managing and preventing zoonotic diseases effectively. The dignitaries highlighted the importance of such initiatives in safeguarding public health and emphasized the role of community participation in preventing the spread of zoonotic diseases. The event saw enthusiastic participation from local residents, farmers, and other stakeholders.

KVK PATHANAMTHITTA AND CARD COLLABORATE TO ENHANCE LIVELIHOODS IN TRIBAL HAMLET OF MANJATHODE

As part of the Tribal Sub Plan for 2024-2025, the Krishi Vigyan Kendra (KVK), Pathanamthitta team in collaboration with the team from CARD, the host organization, visited the Manjathode tribal hamlet in the RanniPerunad panchayat of the district. The primary objective was to understand the community's needs and introduce agriculture-based interventions aimed at improving livelihoods and overall well-being. During the assessment, the team thoroughly evaluated various aspects impacting the quality of life for the tribal residents. The initiative focuses on promoting agriculture as a sustainable livelihood option for the community. Furthermore, opportunities in livestock farming and fisheries are being explored to diversify income sources.

Interaction with Tribals of Manjathode Tribal Hamlet

Field Visit(Tribal Hamlet)000

ICAR-KVK, Pathanamthitta

KVK PATHANAMTHITTA ACHIEVES REMARKABLE GROWTH IN AGRICULTURAL PRODUCTION OVER THREE YEARS

KVK has developed a unique farm using an Integrated Farming System (IFS) approach that incorporates crops and livestock. This farm is used for various demonstrations and produces all potential planting materials and technological inputs identified through On-Farm Testing (OFT) and Front Line Demonstrations (FLD). These materials and inputs are then supplied to farmers in the district in a timely manner. KVK has promoted high-yielding varieties of vegetables, spices, tuber crops, and fruit plants, as well as various technological products from ICAR institutes such as IIHR, CTCRI, IISR, CPCRI, and KAU. Additionally, KVK has produced and distributed different varieties of poultry (Gramalakshmi, Gramasree, Aseel, Kadakkanath, Krishi-Bro, BV-380), ducklings (CharaChempalli, Vigova), quails, and goats to the farming community sourced from KAU, DPR Hyderabad, and CPDO Bengaluru. The KVK also engage in the production of a range of value-added products derived from vegetables, fruits, and millets, which are created to enhance the utility and shelf-life of the raw agricultural produce.

S.No	Item	Qty (q) /Number			Income generated (Rs.)			Farmers Benefitted		
		2021	2022	2023	2021	2022	2023	2021	2022	2023
1	Seeds	6.2 q	5.7 q	6.5 q	125517	136209	151433	1775	2716	2555
2	Planting materials	111162	95419	114063	1368407	1481426	1724016	7161	7566	7061
3	Bio products	145.6 q	68.6 q	125.1 q	630651	675633	1180730	2761	2903	3723
4	Animal products	7760	2825	3791	1161910	824604	852021	384	342	343
5	Value added products	11.73 q	27.71 q	31.260q	175896	484907	625136	475	1241	1448

To support the marketing and distribution of these value-added products, KVK has established exclusive counters. These counters serve as dedicated points of sale, allowing consumers direct access to fresh and locally-produced items. This initiative not only encourages the consumption of local produce but also provides farmers with an additional revenue stream. By transforming raw crops into higher-value products, farmers can achieve better market prices and increased profitability. The KVK has an exclusive outlet for Value added products called Entrepreneur Support Centre (ESC).

Sales counter being visited by Director, ICAR-ATARI, Bengaluru along with Director, ICAR-NAARM

KVK, farm

ICAR-KVK- Raichur

Seed treatment - a good agricultural practice for better yields

Seed treatment offers management of target pests and diseases and ensures the establishment of healthy and vigorous crop plants. Their formulations also contribute to improvement in farmers' safety and stewardship of the environment. Today the need of the hour is that the seed must be as pest and disease free as possible and the treatment must provide protection against pests and diseases during germination, emergence and growth of the crop plant. Seed treatment is sometimes the only delivery route for the control of certain seed-borne pathogens. Seed treatment can also deliver high levels of efficacy for the management of early season pests and diseases at a much reduced usage rate compared to many foliar or soil applied alternatives. Seed treatments can be used as a primary tool in a successful integrated pest management program for sustainable agriculture since they target the pests and diseases with smaller amounts of active ingredients per hectare and are not introduced into the atmosphere. In many cases, without the use of seed treatment, growers would have great difficulty in managing certain seed-borne and early season seedling pests and diseases and would have to resort to more expensive and less environment-friendly methods.

Keeping in view the importance of the seed treatment as a pre-sowing practice,ICAR- Krishi Vigyan Kendra, Raichur conducted a method demonstration of Seed-treatment with insecticides/fungicides as well as bio-agents to the farmers. Dr.Shreevani G N, Scientist (Entomology) prior to the demonstration explained about the dosage of the seed treatment chemicals as well as bio-agents to be applied and also quoted the advantages of seed treatment *i.e.,* protection of germinating seeds and seedlings against soil and seed borne pathogens/ insects, seed germination enhancement, early and uniform establishment and growth, enhances nodulation in legume crop, better than soil and foliar application, uniform crop stand and even in adverse conditions (less/high moisture). Dr.Hemalatha K J, Scientist (Horticulture) explained about the role of seed treatment in raising healthy seedlings of important vegetable crops in nursery. The farmers participated in the method demonstration by involving themselves in treating the seeds of various crops with seed treatment chemicals/bio-agents.

Production of technological inputs (January 2021 to December, 2023)

Sl. No.	Item	Quantity (q) / Number			Income generated (Rs.)			Farmers benefitted		
		2021	2022	2023	2021	2022	2023	2021	2022	2023
1.	Seeds	33.2	15.66	3.5	308000	545000	45000	22	12	8
2.	Planting materials	14500	-	-	257000	-	-	736	-	-
3.	Bio products	-	-	-	-	-	-	-	-	-
4.	Animal/ fish related products	-	-	-	-	-	-	-	-	-
5.	Value added products	-	-	-	-	-	-	-	-	-

ICAR-KVK- Ramanagara

ICAR-KVK Ramanagaraorganised "Krishi Sakhi Training Programme"

ICAR-KVK Ramanagara in collaboration with Sanjeevini, NRLM, Ramanagara organised one week capacity building programme for Krishi Sakhi's on Agro-ecological practices, module-1 for 4th batch participants from 08.07.2024 to 13.07.2024. On the first day Dr. Lata R. Kulkarni, Senior Scientist and Head, in her presidential speech explained the roles of Krishi Sakhis and said that this program should be effectively utilized. Dr. Deepa Pujar, Scientist (Horticulture) gave information about ecological farming methods. Dr.Sowjanya, S., Scientist (Agricultural Extension) gave information on the role of women in agriculture and livelihood perspective. Dr. Lata R. Kulkarni, gave information on nutritious food, symptoms and management of malnutrition. On the second day Dr. Rajendra Prasad, B. S. Scientist (Plant Protection) gave information through demonstrations on pest and disease management, insecticides, mode of application of insecticides, identification of pests and preparation of Bordeaux mixture, use of various traps. On the third day of training Dr.Sowjanya, S., Scientist (Agricultural Extension) explained the techniques of livelihood orientation, role of women as mahilakisan and communication skills through practical demonstration and Mrs. Preethu, D.C., Scientist (Soil Science) explained importance of soil, soil testing, method of soil testing on nutrients required for plant growth, and demonstrated method of soil sampling. On the fourth day of training Dr. Dinesh, M.S., Scientist (Agronomy) informed about tillage methods, agronomic practices and water management and Mrs. Uma Rani, K., farm manager explained about seed, seed treatment, and selection of good quality seeds and gave demonstrations on seed treatment and seed germination. On the fifth day of the training, the training participants visited AICRP on agroforestry, Dry land agriculture and Integrated farming system and ATIC institutes of University of Agricultural Sciences, Bangalore. During the last day of training, Dr. Deepa Pujar, Scientist (Horticulture) explained the use and models of nutri-garden and gave demonstrations of nursery and nutri-garden and in the closing ceremony the participated Krishi Sakhi's from different panchayats of different taluks of Ramanagara district were honoured with certificates.

ICAR-KVK, Ramanagara

ICAR-KVK Ramanagara has took an initiative of producing quality seeds of various crops of recently released varieties of UAS Bangalore in seed production block of KVK farm. We have made constant effort to produce the quality seeds of major crops of Ramanagara districts *viz.* Finger millet, Red gram, Cowpea, Sesamum, Field bean and other minor millets (Foxtail millet, Brown top millet, Prosomillet and little millet). Majority of the seeds produced to National Seed Project, UAS Bangalore and received incentive award for seed production during University Foundation Day during 2022. Apart from this KVK Ramanagara serving as one stop service point for fodder needs of Ramanagara district as well as adjoining district. Along with quality seeds of fodder sorghum, fodder Maize, fodder, recently released varieties of Napier grass, Guinea grass, Seteria, Congo signal, Signal, Seteria, Paragrass, Rhodes grass, Chaya etc were also produced.To generate revenue of 31.48 lakhsduring 2021 to 2023. Apart from serving the needs of the fellow farmers in the district we are also serving for institutes like NIANP, NDRI, KMF and sheep and wool board Govt. of Karnataka.

KVK Ramanagara also having Nursery unit established under National Horticulture Mission and we are producing quality planting materials of Coconut, Arecanut, Mango Drumstick, Lemon, Jack, medicinal plants etc., and generated the revenue of 10.34 lakh during 2021 to 2023. Apart from this KVK sale unit also selling bio products (bio fertilizer and bio control agents), micronutrients products (Banana special, Vegetable special, Mango special) and animal and fish related products produced from KVK livestock unit worth of 7.34 lakh during the year 2021 to 2023.

Overall KVK Ramanagara has achieved the turnover of 28.45 lakh during the year 2023 from production and selling of technological products under Revolving Fund which was 131% higher as compared the year 2021(12.30 lakh) and 3357 farmers directly benefited from improved technology products.

Production of technological inputs (January 2021 to December, 2023)

Sl. No.	Item	Quantity (q) / Number			Income generated (Rs.)			Farmers benefitted		
		2021	2022	2023	2021	2022	2023	2021	2022	2023
1.	Seeds produced and sold	26.52	27.62	61.82	93059	115130	355923	376	552	1625
2.	Seed procured and sold	24.27	29.67	40.58	659255	549255	1726750	450	442	568
3.	Nursery seedlings (Nos.)	9423	10634	11363	223620	436310	374308	442	657	168
4.	Fodder crop saplings and cuttings (Nos.)	51957	27002	25825	106150	55730	51650	247	196	137
5.	Bio products	912	867	2371	136140	133620	177000	478	206	834
6.	Animal/ fish related products	1953	1767	1034	12600	115245	160275	24	49	25

NHM activities to provide quality planting material for the farmers

Field bean (HA-5) seed production plot at KVK farm, Magadi

ICAR-KVK- Shivamogga

"Mushroom Cultivation and Processing"

Training on "Mushroom Cultivation and Processing" under SCSP scheme was organized from 18-07-2024 to 20-07-2024 at KVK, Shivamogga. The programme was inaugurated by Dr. R. C. Jagadeesha, Hon'ble Vice-Chancellor, KeladiShivappa Nayaka University of Agricultural and Horticultural Sciences, Shivamogga. In his inaugural remarks, he pointed about self-entrepreneurship development programme, especially for rural youth in want of job opportunities agricultural allied enterprise viz., mushroom cultivation, value addition in agriculture and horticulture crops, bee keeping, dairy, poultry, sheep and goat rearing etc., in skill development programmes. The programme was associated by Dr.Dushyantha Kumar B. M., Director of Research, Dr. Pradeep, S., ADR, and Dr.Hanumanthaswamy B.C., ADE, KeladiShivappa Nayaka University of Agricultural and Horticultural Sciences, Shivamogga.

Dr. G. K. Girijesh, Senior Scientist and Head, KVK, Shivamogga highlighted about the skill training programmes organized by KVK, Shivamogga. A total of 38 participants were get benefited from the programme.

In this programme, mushroom cultivation, spawn production, value added products like mushroom pickle, value added mushroom masala powders etc. were demonstrated to the participants.

ICAR-KVK, Shivamoga

ICAR-Krishi Vigyan Kendra, Shivamogga is a district level Farm Science Centre established and functioning under KeladiShivappa Nayaka University of Agricultural and Horticultural Sciences, Shivamogga. ICAR-KVK, Shivamogga has different demonstration units like Vermicompost, Poultry and Sheep rearing units, Nursery, Kitchen and terrace garden and different crop demo units like Fodder, Agroforestry blocks for the benefit of farmers. Production and supply of good quality planting materials of Arecanut, Coconut, Papaya, drumstick, curry leaves, lime and vegetables. Production of Breeder and certified seeds of Groundnut, Green gram, cowpea and field bean is produced for the benefit of farming community. Under livestock component KVK is providing desi and improved breeds of poultry birds and eggs, fodder root slips, fodder seeds and had sheep demo unit. Through Value addition different type of cookies viz., Millets, Mushroom and butter cookies and ragi, rice and wheat flour were made available at KVK. KVK in association with Organic Farming Research Centre, Shivamogga different bio agents and bio fertilizers are made available to farmers of the district and other districts too.

Innovative ways followed to enhance revolving fund: Year round nursery, vegetables and seed material activities are advertised and marketed through Whatsapp groups, Radio advertisement, Farm fresh outlets, HOPCOMS and melas.

Sl No.	Item	Quantity (q)/ Number			Income generated (Rs.)			Farmers benefitted		
		2021	2022	2023	2021	2022	2023	2021	2022	2023
1.	**Seeds**									
	1. Ragi	8.15	2.85	-	24450	8550	-	163	24	-
	2. Cowpea	2.66	0.66	0.51	5544	3960	7004	15	12	8
	3. Green gram	2.00	3.24	0.30	7200	36000	6923	11	35	10
	4. Groundnut	18.90	18.90	-	145530	145530	-	50	12	-
	5. Velvet Bhendi	0.045	0.14	-	6300	19600	-	12	18	-
	6. Field Bean	-	-	0.37	-	-	9750	-	-	5
2	**Planting Materials**									
	1. Coconut	1340	776	605	93800	58200	56525	65	20	16
	2. Arecanut	5640	3097	2082	141000	77425	52050	29	25	23
	3. Curry Leaves	616	333	49	9240	4995	735	78	26	10
	4. Black pepper	207	76	5	2070	760	50	16	10	1
	5. Cinnamon	27	-	-	405	-	-	5	-	-
	6. Drumstick	5564	6826	2217	83460	102390	33315	169	20	32
	7. Lime	174	242	195	2610	3630	3795	75	12	6
	8. Papaya	6560	2844	4241	131200	56880	84820	167	28	43
	9. Marigold	2800	3300	1987	11200	3300	7448	4	8	08
	10. Chilli	1000	2774	3000	1250	2774	1250	32	7	5
	11. Tomato	1000	3000	3000	1250	3000	1250	32	6	5
	12. Brinjal	500	-	-	625	-	-	32	-	-
3	**Animal/ Fish related products**	2107	6636	6535	12642	31852	35290	122	185	87
	1. Poultry Eggs (No.)	555.5	-	-	16301	-		200	-	-
	2. Milk (Lit)	1650	-		1650	-		5	-	
	3. Napier root slips (No.)	-	0.16		-	10662		-	32	
	4. COFS-31									
4	**Value added products**									
	1. Ragi Flour			230			11500			20
	2. Wheat Flour			9			360			8
	3. Rice Flour			55			2200			12
	4. Millets malts			2			500			40
	5. Foxtail millet cookies			1			300			20
	6. Ragi cookies			6			1800			20
	7. Mushroom cookies			3			900			40
	8. Butter cookies			3			900			28



ICAR-KVK- Thrissur

KVK Thrissur Hosts Engaging Agricultural Sessions for Students

KVK Thrissur recently hosted three enthusiastic groups of students for insightful and hands-on agricultural education sessions. These visits aimed to introduce young minds to the basics of agriculture and vegetable production, fostering a deeper understanding and appreciation for the agricultural sector. The first group, from St. Thomas School for Mentally Challenged, comprised 20 students who participated in tailored sessions designed to cater to their unique learning needs. The interactive and supportive environment helped them engage with the fundamentals of agriculture in a meaningful way.

The second group, consisting of 44 seventh graders from Government High School Thayyur, was introduced to the world of agriculture through both theoretical lessons and practical activities. The students actively participated in vegetable production exercises, gaining hands-on experience that complemented their classroom learning. The third group, from St. Thomas HSS, Thirur, included 150 seventh standard students who visited KVK Thrissur for a comprehensive agricultural education session. These students learned about various aspects of agriculture, from soil preparation to planting and caring for vegetable crops, through engaging and interactive practical sessions.

The sessions included theory components where students were provided with a foundational understanding of agriculture, including topics such as soil health, crop selection, and sustainable farming practices. Hands-on activities such as seed sowing, transplanting, and nurturing vegetable plants were designed to reinforce theoretical knowledge and provide practical skills. The interactive nature of the sessions encouraged students to ask questions and engage in discussions, fostering a dynamic and interactive learning environment.

Feedback from the participants was overwhelmingly positive. The students expressed excitement and curiosity about the agricultural processes they learned, while the accompanying teachers appreciated the practical approach, noting that it significantly enhanced the students' understanding and interest in agriculture. KVK Thrissur remains committed to promoting agricultural education among young learners. By providing engaging and practical sessions, KVK Thrissur aims to inspire the next generation of agriculturists and raise awareness about the importance of agriculture in our daily lives.

ICAR-KVK, Thrissur

The Krishi Vigyan Kendra (KVK) Thrissur has made significant strides in the production and distribution of technological inputs from January 2021 to December 2023. These achievements have greatly contributed to enhancing agricultural productivity and sustainability in the region. The period from January 2021 to December 2023 has been marked by substantial achievements in the production and distribution of technological inputs by KVK Thrissur. The following sections outline the accomplishments across various categories, including seeds, planting materials, bio-products, animal/fish-related products, and value-added products.

Sl. No.	Item	Quantity (q) / Number			Income generated (Rs.)			Farmers benefitted		
		2021	2022	2023	2021	2022	2023	2021	2022	2023
1.	Seeds	4.6	3.38	3.95	537805	630510	748336	650	668	700
2.	Planting materials	27657	30040	25555	1542159.00	2344297	1615090	1350	1500	1320
3.	Bio products	362.48	198.78	217.8	1944995	1385350	1886643	840	420	680
4.	Animal/ fish related products	13434	15612	7497	2160780	2497920	1189125	720	665	480
5.	Value added products	4224	2341	4621	693160	297160	278597	980	450	1040

Innovative Approaches to Enhance KVK-RF

To further bolster the impact of these technological inputs, KVK Thrissur has implemented several innovative approaches:

1. **Integrated Farming Systems**: Promoting the integration of crop, livestock, and fishery enterprises to ensure better resource utilization and higher income for farmers.
2. **Capacity Building**: Conducting regular training programs, workshops, and field demonstrations to educate farmers on the best practices and the effective use of technological inputs.
3. **Collaborative Research and Development**: Partnering with research institutions, agricultural universities, and private sector companies to develop and refine technological inputs that are tailored to local agro-climatic conditions.
4. **Use of Digital Platforms**: Leveraging digital tools and platforms to disseminate information, provide advisory services, and facilitate the timely distribution of inputs.

ICAR - KVK - Thiruvananthapuram

"NjattuvelaChandha" (Seasonal Agricultural Market)

In a vibrant celebration of agricultural innovation and sustainable farming practices, ICAR- KVK Mitraniketan joined hands with Vellanad Krishi Bhavan in organizing *NjattuvelaChandha* at KVK on the 6th of July, 2024 . It was an initiative for enhancing agricultural productivity while ensuring food safety and sustainability. The event highlighted the role of modern techniques and innovations in meeting the growing demand for safe and nutritious food.

The highlight of the event was the exhibition showcasing various aspects of modern farming techniques, with a particular emphasis on safe-to-eat vegetable cultivation. Various progressive farmers from across Vellanad panchayath participated in the exhibition with their agriculture produce and processed products. The NjattuvelaChandha at KVK not only served as a platform for knowledge exchange but also strengthened the bond among the farming community and agricultural experts. It underscored the significance of collaborative efforts in advancing agricultural practices and achieving food security goals.

Additionally, the event featured the distribution of inputs under the scheme for the promotion of vegetable cultivation in earthen pots funded by VellanadGramaPanchayath. Panchayath Vice President Sri VellanadSreekantan, Ward Member Smt. L. P. Mayadevi and Agricultural Officer Sri D UIllas A training on organic vegetable cultivation in homesteads was organized in connection with the event.

Innovative Initiatives by ICAR KVK Mitraniketan to Enhance Revolving Fund

Under the ambit of the KVK revolving fund, a diverse range of agricultural inputs and services are offered. These include the production of seeds & planting materials of high yielding improved crop varieties, bio pesticides such as Nanma, Menma and Shreya, bio control agents such as Pseudomonas, trichoderma talc formulation &trichoderma cake, Mycorhiza, vermi compost, coir pith compost, vermiculture, mechanical traps, pest repellents, and bio formulations for natural farming practices. One of the standout features of KVK Mitraniketan is its plant health clinic & bio pharmacy, which serves as a pivotal advisory hub for farmers. This clinic act as a supporting system for the revolving fund activities by providing crucial guidance on various aspects of crop health, pest & disease management as well as soil fertility management.This emphasis on education not only enhances the farmers' capabilities but also cultivates a spirit of self-reliance and sustainability.

Production of Seeds, Planting Materials and Technological Inputs (January 2021 to December, 2023)

Sl. No.	Item	Quantity (q) / Number			Income generated (Rs.)			Farmers benefitted		
		2021	2022	2023	2021	2022	2023	2021	2022	2023
1.	Bio-pesticide (lit)	823.2	1448.4	789.3	498760	751700	440152.5	3493	917	883
2.	Bio control agents (q)	41.21	42..9	40.62	181804	238700	535190	1704	1591	243
3.	Repellents (q)	0.88	3.5	3.12	29530	78175	136650	510	687	581
4.	Repellents (No.)	511	499	488						
5.	Organic manure (q)	38.6 q	37.67	8.03	65657	71595	28250	103	1445	1350
6.	Growth promoters (L)	89 L	158.73	87.93	35840	66635	57597	145	523	813
7.	Seeds (q)	4.98	5.88	5.107	302000	329000	474000	1252	2082	1064
8.	Planting materials (No.)	22583	27905	17349	108555	1202636	882222	2548	2926	2088

Innovatively, KVK Mitraniketan leverages its revolving fund not only to provide essential agricultural inputs but also to foster a holistic approach towards sustainable farming. By integrating production, advisory services and capacity building initiatives, KVK Mitraniketan ensures that its revolving fund not only sustains itself but also contributes significantly to the overall agricultural development and welfare of the region. Through these innovative approaches, ICAR KVK Mitraniketan exemplifies a model institution committed to enhancing agricultural productivity, promoting sustainable practices, and empowering farming communities for a prosperous future.

Bush pepper nursery

Cassava based bio pesticides

ICAR-KVK- Tumakuru -I

Natural farming training programmes

ICAR-KVK-Tiptur, Tumkur-1 conducted 2 Natural training programmes for KrushiShaki's from 01-07-2024 to 05-07-2024 and 08-07-2024 to 12-07-2024. GovindaGowda,V. Senior Scientist and Head, ICAR-KVK, Tiptur inaugurated the programme and briefed about scope and importance of natural farming. Dr.Shivappa Nayak, Scientist (Animal husbandry) briefed about livestock production. Dr.Keerthishankar, K., Scientist (Horticulture) explained about Different types of farming system and seed treatment. Dr.Tasmiyakousar, Scientist (Agronomy) explained the different types of soil, soil and water analysis and soil health card. Mr. Manoj, Scientist (Plant protection) talked different Biological methods of pest and disease control. Mr. Drashan, M.E., Explained about different teaching methods, Certification and KVK role etc.,

Diagnostic filed visit

ICAR-KVK-Tiptur, Tumkur-1 Horticulture Scientist Dr.Keerthishankar, K., Visited Sigatoka Disease infested Banana filed at Madihalli village of Tiptur Taluk. And suggested integrated disease management diseases management.

ICAR-KVK, Tumkur-1

Production of technological inputs (January 2021 to December, 2023)

Sl. No.	Item	Quantity (q)/Number			Income generated (Rs)			Farmer benefitted		
		2021	2022	2023	2021	2022	2023	2021	2022	2023
01	Seeds	1.2 q	5.94 q	14.45 q	60,000	2,97,000	2,93,000	105	210	853
02	Planting material	925 No	4333 No.	6931 No	2250	1,56,690	2,41,115	521	3456	4968
03	Bio-products	20 q	15 q	22.25 q	1,69,360	1,95,650	2,95,750	1685	1256	2085
04	Value added products	12 kg	42 kg	215 kg	1355	7660	1,23,350	8	39	262
05	Soil analysis	564	261	707	1,69,200	78,300	2,11,200	560	250	705
06	Water analysis	476	132	298	95,200	26,400	59,600	164	126	295
07	Micronutrients	614 kg	78 kg	280 kg	1,16,460	14,980	59,950	528	58	262
08	Honey	160 kg	366 kg	150 kg	43,700	1,09,800	45,000	142	281	325

ICAR-KVK- Tumakuru -II

Workshop on Co-Creating Digital Tech Solutions with FPOs and Innovators

We had an inspiring and productive brainstorming workshop on July 5, 2024, at ICAR-Krishi Vigyan Kendra, Hirehalli, Tumakuru. Our event brought together FPO members and farmers to co-create digital tech solutions, fostering innovation in the agricultural sector.

The welcome address was delivered by Dr. N. Loganandhan, Principal Scientist & Head, ICAR-KVK Hirehalli, Tumakuru. The inaugural address was given by Dr. Lakshmi Jagananthan, CEO, IIIT Bengaluru, who spoke about the linkage between FPOs and innovators in collaboration with ICAR-KVK Hirehalli, Tumakuru, and IIIT Bengaluru. Ms. Keerthi Prabha, DDM, NABARD, Tumakuru, provided an overview of the role of FPOs in agriculture. Special invitees Mr. Prakash, BCIC Chairman, Food and Agro Chemicals, and Mr. JagdeeshSunkad, Consultant, IIM Bengaluru, participated in the interaction sessions. Invited speaker Prof. Ramesh Kestur from the International Institute of Information Technology, Bengaluru, enlightened us on the digitalization in agriculture and how it is revolutionizing the sector through digital innovation.

The workshop featured engaging sessions, lively discussions, and collaborative brainstorming, leading to the collation of valuable problem statements from the FPOs. These insights will guide us in developing innovative digital solutions to enhance agricultural productivity and sustainability. During the program, 40 soursop saplings were distributed to FPO members and farmers.

ICAR-KVK, Tumkur - 2

Seeds and Planting Materials

- **Quality Assurance**: Implementation of stringent quality control measures has ensured the distribution of premium-grade seeds and planting materials, leading to improved crop performance. These efforts have resulted in increased productivity and sustainability for local farmers.

Bio Products

- **Bio fertilizers and Bio pesticides**: Introduction of eco-friendly bio fertilizers and bio pesticides has contributed to sustainable agricultural practices. These products have enhanced soil health and reduced dependency on chemical inputs.
- **Microbial Inoculants**: Development and application of microbial inoculants have improved plant growth and yield, showcasing a positive impact on agricultural productivity.

Value Added Products

- **Food Processing**: Introduction of new techniques in food processing has enabled farmers to add value to their produce. This includes processing of fruits, and grains into market-ready products, thereby increasing their income.
- **Packaging Innovations**: Enhanced packaging solutions have been developed to extend the shelf life of perishable products, ensuring that farmers can access wider markets.

Innovative Approaches to Enhance KVK- RF (Krishi Vigyan Kendra – Revolving Fund)

- **Collaborative Projects**: Partnerships with line departments, and NGO's have led to the co-creation of technologies tailored to local needs. This collaborative approach has accelerated the development and adoption of new technologies.
- **Digital Integration**: Adoption of digital tools and platforms for extension services has improved the reach and efficiency of knowledge dissemination.

Production of technological inputs (2021 to March, 2024)

Sl. No.	Item	Quantity (q) / Number	Income generated (Rs.)	Farmers benefitted
1.	Seeds	213	90,50,250	5,308
	Mushroom Spawn (q)	35.49	2,94,617	328
2.	Planting materials	3,57,340	1,11,38,046	2,989
3.	Bio products	522	83,32,383	8,698
4.	Value added products			
a	Amla Squash (Litres)	664	86,320	535
b	Amla Candy (q)	1.44	43,200	583
c	Ragi malt (q)	2.52	50,390	460

ICAR-KVK- Udupi

Natural Farming Training Program

Natural farming training program for Krishi Sakhis was conducted during the week July 8th to 12th, 2024 at KVK Udupi campus. The program was inaugurated by

Dr. Lakshmana, Associate Director of Research, Zonal Agriculture and Horticulture Research Station, Brahmavara. In his inaugural address he mentioned that Krishi Sakhis are the main link between scientists and farmers. Chief Guest Dr. Sudhir Kamath K. V, Principal, Diploma College of Agriculture, Brahmavara spoke on the importance of Natural Farming.

Mrs. Sowmya Kumari, District co coordinator of National Rural Livelihood Mission spoke on the occasion. Training Manual was released by the chief guest. Dr.Dhananjaya B, Senior Scientist and Head of KVK Udupi presided over the ceremony. He emphasized on the main pillars of natural farming. KVK scientists, Dr. S. M. Jayaprakash and Dr.Sadananda Acharya were present.

Celebration of National Fish Farmers Day

To commemorate the induced breeding success by fisheries scientists, Dr.Hiralal Choudhury and Dr.Alikunhi, July 10th is celebrated as National Fish Farmers Day. The day was celebrated in grand way in KVK Udupi on July 10th 2024. The event was inaugurated by Dr.Dr.RevannaRevannavar, In charge Associate Director of Research, Zonal Agriculture and Horticulture Research Station, Brahmavara. He spoke on the contributions of the fishermen and fish farmers in Indian fish production. The chief guest, Mr. Shankar Kunder, National awardee fish farmer spoke on the various opportunities available for fish culture in coastal area. Other guests, Dr. Sudhir Kamath, Principal, Diploma College of Agriculture, Brahmavara, Mrs. Renita, Asst. Director of Fisheries, Zilla Panchayath, Udupi spoke on the importance of fish farmers day. Dr. Acharya compered the program and rendered vote of thanks

ICAR-KVK, Udupi

ICAR-KVK, Udupi, has always been a bio-resource centre for the local farmers for their agriculture and horticultural needs. The coastal zone of Udupi district in its kharif season demands high quantity of paddy seeds during sowing season. In addition to State Agricultural Department, KVK Udupi also produces large quantity of paddy seeds using farmers participatory mode to sell it through KVK bioresource centre. Additionally, vegetable seeds such as bhindi seeds are in high demand locally during monsoon period. KVK also produces quality white bhindi seeds in its seed production unit to cater to local needs. Planting materials such as seedlings of grafted varieties of mango, sapota, jack; quality seedlings of arecanut, coconut, papaya and banana are routinely marketed from KVK to needy farmers. Arka microbial consortia by name Sahyadri Trishul are produced in KVK labs and marketed as microbial consortia for better soil health management. Additionally, vermicompost and earthworms are produced and marketed under KVK Udupi brands. Among animal components, day old chicks of varieties such as Swarna Dhara are procured and raised to a month old chicks which are in high demand in the region. Udupi being coastal zone, fish culture is practiced as one of the components of integrated farming system. Hence fish fingerlings are also produced to the needy fish farmers.

Table 1. Production of technological inputs (January 2021 to December, 2023)

Sl. No.	Item	Quantity (q) / Number			Income generated (Rs.)			Farmers benefitted		
		2021	2022	2023	2021	2022	2023	2021	2022	2023
1.	Seeds (Quintal)	37.35	30.46	81.70	50865	165229	411336	102	105	81
2.	Planting materials (Nos)	16386	36163	19208	413845	579120	520490	327	723	193
3.	Bio products (Quintal)	12.69	33.69	29.58	95700	268150	201080	126	43	295
4.	Animal/ fish related products Poultry chicks (Nos)	1707	680	1756	187800	74800	193170	42	23	24
5	Fish fingerlings (Nos)	7500	-	46200	15000	-	138640	12	-	8

ICAR-KVK- Uttara Kannada

KrushiVigyanigalaNadeRaithara Kade

ICAR- Krishi Vigyan Kendra Uttara Kannada, Sirsi organised unique and one of the most aspirational programme of Honourable VC UAS Dharwad "Krishi VigyanigalaNadeRaithara Kade" in association with RaithaKalyana FPC, Pala, KSDA Mundagod and Gram Panchayath Pala on 12-07-2024 at Pala village of Mundagod Taluk. Dr. Roopa S. Patil, Senior Scientist and Head, gave preamble and welcome speech.

Dr. P. L. Patil, Vice Chancellor, University of Agriculture sciences, Dharwad inaugurated the programme and highlighted the objectives of the program and advised the farmers to get the soil tested by informing them about significance of soil health in management of crop production. While addressing, briefly introduced about Agriculture and allied agriculture sector courses. Chief guest Dr. S. S. Angadi, Director of Extension explained the role of bio inoculants in maintaining the soil health. He also made special mention about role of krishisakhis in farming community. Another guest, Shri Ramesh Jigaler President Raitha Kalyan FPC mentioned about efforts made FPC in supply of inputs like pesticides, fertilizers to farmers. Also requested university to organize more such programmes at village level. Shri. M. S. Kulkarni ADA KSDA Mundagod and Shri. K. B. Pathan from Horticulture Department explained in detail about schemes available for farmers.

Training programme on "Processing and value addition"

Hands on training programme on "Processing and value addition" was organised at ICAR- Krishi Vigyan Kendra Uttara kannada, Sirsi, under ARYA project on 29/07/2024. Hands on training was imparted covering significance of processing and value to the agriculture and forest produce in order to get higher returns, schemes and projects available to establish processing units, marketing opportunities, packaging, branding, labelling and FSSAI licensing, quality assurance. Hands on training sessions were organized on preparation of Banana, and Jack fruits products like, papad, chips and sukeli. The session was conducted in an interactive mode where each participant was encouraged to share the opinion. The training ended with vote of thanks and distribution of measuring cups, measuring tea spoons, papad moulds and multipurpose chopper and slicers to the 23 participants.

ICAR-KVK, Uttara Kannada

ICAR- KVK Uttara Kannada is involved in supply of quality seeds, planting materials and bio products to the farming community of Uttara Kannada and nearby districts. Various types of seeds in Paddy var. Abhilash, Hemavati, Black gram var. DU-1, planting materials of Arecanut (SAS-1), Black pepper (Panniyur -1), Cardamom (Appangala-2, ICRI-3, Mudigere-1),Coffee (Kaveri, Chandragiri), Cinnamom, Clove, Bush Pepper (Panniyur-1), bio products viz., FYM, Vermicompost are produced in KVK farm. Along with this KVK also run a small dairy with breeds : Jersey HF Cross, Jersey CB, Gir CB. Under CSS-MIDH funds ploy house, shade net house are established for fostering the nursery activities. Apart from this, various other bio products *viz*., Trichoderma, Pseudomonas, Azospirillum, compost culture, VAM, Metarrhizium were made available to the needy farmers from our university. Farmer participatory seed production programmes were also undertaken to strengthen varietal dissemination in case of paddy (PSB-68, Hemavati) suitable for hill region.

Seeds, Planting materials and bio products production

Sl. No.	Item	Quantity (q) / Number			Income generated (Rs.)			Farmers benefitted		
		2021	2022	2023	2021	2022	2023	2021	2022	2023
1.	Seeds	58	29.5	100.6	116000	59000	200800	-	-	-
2.	Planting materials	10644	17016	8924	227825	313300	193070	93	152	55
3.	Bio products (FYM-tons)	24.5	30.0	25.0	61250	75000	62500	-	-	-
4.	Animal (Milk in litres)	8503.5	10836.5	7228	297614	379277	252980	23	18	15
5.	Value added products	-	-	-	-	-	-	-	-	-

Plant nursery

Pepper nursery

ICAR-KVK- Vijayapura - I

Agriculture Scientist and farmers Interaction:

ICAR-KVK Vijayapura organised a unique programme on Agriculture Scientist and farmers Interaction at Kubakaddi village of Kolhar taluka and the programme was inaugurated by Honourable Vice- chancellor UAS,Dharwad Dr.P.L.Patil and in his inaugural address he asked scientist to demonstrate the technologies developed by UAS,Dharwad in villages in large scale and arrange farmer scientist interface.He explained farmers how universities work in Education, Research and Extension and asked farmers to avail 50 per cent seat in UG reserved to farmers son/daughter, Chief guest Director of Extension, UAS,Dharwad, Dr.S.S.Angadi asked farmers not to for monocropping and go for inter and mixed cropping for sustainability. Director of Research Dr.B.D.Biradar explained about seed production programme with participatory approach 107 farmers attained the programme.

Off campus training on importance of millets for the nutritional security.

ICAR-KVK Vijayapura-1 collaboration with Shri Dharmasthal Sangh, Tamba organized one day off campus training programme and exhibition on importance of nutritious diet and role of millets for healthy lifestyle. Smt. Shweta A. Mannikeri., SMS (Home Science) explained about role of nutritious diet in daily life eradicate the macro and micro nutrient deficiencies. Best time and proportion of millet consumption to boost the immune system in the body. Enlighten the opportunities in millet processing and value addition for sustainable livelihood. Dr.Vijaylaxmi I. Mundinamani., SMS(Animal Science) told about the importance of millets straw as a fodder to enhance the nutritional status of livestock. Smt. Jayalaxmi., president of SDM, Sangh, Tamba was the president of the programme and address the farm women “healthiest way is the key to open happy and healthy life so, being health and having healthy diet is our responsibility of our lives. In the programme 98 farm women were participated and exhibited 49 different nutritious and millet value added products.

Pigeon pea and Chickpea are very important pulse crops of Vijayapura district. Pigeon peacrop is being cultivated in Kharif under rainfed and irrigated situations and Chickpea is being cultivated during rabi. The area under Pigeon pea is 4.5 lakh ha and chickpea 1.8 lakh ha respectively. Of this total area nearly 80 per cent is under rainfed. The major constraint in Pigeon pea and chickpea cultivation includes quality seed, moisture stress, pod borer and wilt incidence .Toovercome these constraints, Seed production under KVK activities and Seed hub Programme was initiated from 2016-17 Till 2024-25 a record 1500 quintal seed had been produced by KVK and distributed to farmers under various schemes and openly. With the quality seed and plant production technology from KVK the results were very encouraging and the yield increase was upto 25.0 per cent. This technology has impressed the farmers and occupied an area of **4.5 lakh ha**

Chickpea is a very important rabi pulse crop of Vijayapura district. Earlier A-1 variety was grown in this region and yields were low because of susceptibility to wilt. KVK, Vijayapura introduced new Chick pea variety JG-11 which is resistant to wilt, erect type, high yielding. Seed production and supply increased the area from 20 ha to 1.4 lakh ha JG 11 variety recorded 16 per cent more yield than A-1 variety. The area has spread over an area **of 2.0 lakh ha.**

Vijayapur is known for horticulture crops include grape(25,000 ha), pomegranate (12,000 ha), lime (15,000 ha), and vegetables. KVK Vijayapur is producing quality Kagzi seedling and till today 68,000 seedlings have been produced and distributed to farmers and now it also has GI tag. Pomegranate Kesar seedlings which are free from bacterial blight are also produced and distributed to farmers

B. Production of technological inputs (2021 to March, 2024)

Sl. No.	Item	Quantity (q) / Number	Income generated (Rs.)	Farmers benefitted
1.	Seeds	a. Sorghum (50 q)	47500	518
		b. Chickpea (400 q)	256000	1500
		c. Pigeon pea (600 q)	551072	2500
2.	Planting materials	a. Lemon (20000 No.)	400000	512
		b. Pomegranate (10000 No.)	250000	215
		c. Guava (5000 No.)	200000	152
3.	Bio products	a. Vermicompost (100q)	40000	56
		b. Vermi wash (500 litres)	100000	25
		c. Earthworm (30 kg)	15000	20
		Grand Total Rs.	**1859572**	**5498**

ICAR-KVK- Vijayapura - II

Workshop on lime crop for lime growers

A workshop on lime crop for lime growers organized at ICAR KVK Indi (Vijayapura-II) on 09.08.2024 sponsored by department of horticulture. The Programme was inaugurated by Honourable MLA Shri Yeshwantrayagouda ji. Sri. Abid Gadyal, Assistant Commissioner, Indi division was the chief guest. Dr.Bhavidoddi Deputy Director of horticulture, Horticulture department, Dr. Chandrakant Pawar, Deputry Director Agriculture, Dr.Shivashenkaramurthy M, Senior Scientist and Head, ICAR KVK Indi were invited as guest. SmtHeena M.S. Scientist (Horticulture), ICAR, KVK Indi delivered lecture on Bahar Management in Lime. Afterwards, a discussion with lime growers held and all the scientist and department official involved. In this programme around 95 farmers benefited

ICAR-KVK, Vijayapura-II

ICAR Krishi Vigyan Kendra, Vijayapura-II (Indi) involved in the quality seed production of redgram (TS-3R), Chickpea (BGD-111-1) and Sorghum (M35-1 and CSV-29R) activities. The quality seeds material were supplied to farming community to produce good yield. The KVK, Indi is involved in production of quality lime, pomegranate and dragonfruit seedling and KVK Indi is also involved in the production of Arka Citrus Special and providing to farming community to enhance the yield of lime. Recently started the production of bio agents like Trichoderma, Metarhizium and pseudomonas, PSB, KSB in both powder and liquid form and providing to farming community.

B. Production of technological inputs (2021 to March, 2024)

Sl. No.	Item	Quantity (q) / Number	Income generated (Rs.)	Farmers benefitted
1.	Seeds	180.27	18,82,500	1252
2.	Planting materials	2540	1,10,250	182
3.	Bio products	348.76	335980	202
4.	Animal/ fish related products	150 no	46,813	49
5.	Value added products	-	-	-

ICAR-KVK- Wayanad

Skill development training on Vermicomposting and its marketing

KVK Wayanad conducted a one-day training programme on vermicomposting for 15 farmers from Swayam SikshanPrayog (SSP), a FPO of Kottathara village at KVK.Ms. Athira K.V., Assistant Professor, (Agronomy)took classes on topics like vermicompost preparation, factors affecting vermi-compost, vermiculture, vermiwash and different marketing techniques.

Training on Seed treatment of different crops

The Kendra conducted a one-day training programme on "Seed treatment of different crops" for 20 farmers from KudumbasreeJilla mission, Wayanad at KVK. Theory and practical sessions were handled by Smt. Sruthi Krishnan K.V, Research Assistant, KVK Wayanad, on the topics – bio-control agents used for seed treatment, methods of treatment and the advantages of seed treatment etc.

Demonstration of various implements under NICRA project

As a part of the NICRA project, implements such as Mini rice mill, Chaff cutter and Drum seeder were distributed as part of mechanization in the field and a hands-on practical session was provided to the beneficiary farmers in operating these equipments. The programme was led by Dr. Deepa Surendran, Programme coordinator, KVK Wayanad and practical session was handled by Sri. Aravind V.A, Research Assistant and Ms. Sumi P., SRF, NICRA, KVK. Around 15 members actively participated and got benefitted from the event.

ICAR, KVK Wayanad

Nursery unit

The nursery plays a crucial role in supporting local agriculture by providing quality planting materials and promotion of sustainable practices. The various functions of nursery are production of high-quality seedlings and saplings of various horticultural and forestry crops; employing advanced propagation techniques such as grafting, budding; ensuring the availability of disease-free and true to type planting materials and providing hands-on training on the use of new technologies in nursery management. By focusing on propagation, training and research, KVK Wayanad has significantly contributed to enhancing crop productivity, increasing farmers' income and training programs have equipped farmers with the knowledge and skill needed to manage nurseries and propagate plants effectively.

Bio-control unit

It is the first unit that started functioning from 2003 in partnership mode by training and employing the tribal lady youth; which earned much appreciation and admiration from the ICAR and the University.

Common Facilitation Centre and Processing unit

One of the significant components of KVK is the processing lab, which focuses on processing, value additionand post-harvest management of agricultural produce, since 2014. A common facilitation centre (CFC) is functioning under this KVK since 2017. This performs a variety of functions which can be broadly categorized into product development and processing, training and capacity building,entrepreneurship support and promotion, research and development etc.

Animal Husbandry unit

The AH unit consists of a goat breeding unit and egger nursery unit, Itcaters to the requirements of the farmers by providing inputs such as 6 week old vaccinated layer chicks, goat kids, eggs and goat milk.

Sl. No.	Item	Quantity (q / No.)			Income generated (Rs.)			Farmers benefitted (No.)		
		2021	2022	2023	2021	2022	2023	2021	2022	2023
1.	Planting materials (No)	466241	536938	326913	3655952	68,71,558	64,69,703	~171670	~483400	~413828
2.	Bio products	12965 kg, 304No.	37464 kg 326 L 9570 No.	46340 kg 848 L 44284 No.	1197305	3079596	2853903	13161	24167	44625
3.	Animal Husbandry unit	4044 Chicks 382.4 (kg goat) 5.5 milk(L)	5503 Chicks 687.4 (kg goat) 1.3 Milk (L) 1251 Eggs	5891 Chicks 1111.07(kg goat) 83.5 Milk (L) 2641 Eggs	930725	1128559	1534982	~ 3500	~ 5000	~5300
4.	Value added products & Common Facilitation Centre	5211.905 kg 1226.6 L	2144.95 kg 1239.3 L 6446 no.	12090.275 kg 1334.4 L 4925 no.	370251	1023126	825447	~690	~ 770	~875
5.	Others (Sampoorna Ayar, EKA Kit, Soil testing, Water testing)	1410.5 kg 583 no.	2116.5 kg 999 no.	8896 kg 1321 no.	465144	845182	1414640	~ 1400	~2100	~8890
	GRAND TOTAL				6619377	12948021	13098675			

ICAR-KVK- Yadgir

Cotton Pneumatic plant demonstration at Pagalapur and Koyilur villages

Demonstration on cotton Pneumatic planter under Special project on cotton wasconducted on 01-07-2024 at farmer fields of Pagalapur and Koyilur villages. The program was inaugurated by Dr. Jaiprakash Narayan SS&H KVK, Yadgir, Agriuculture officer Ayyanna and staffs. Dr. Jaiprakash Narayan, SS&H explained the significance and advantages of cotton Pneumatic planter to the farmers. The advantages of adopting HDPS Technology in cotton was explained to farmerrs. The farmersparticipated and benefited by the demonstrationprogram.

Pashusakhi training program

Pashusakhi training program was conducted from 08.07.2024 to 13.07.2024 at ICAR-KVK, Yadgir. The program was inaugurated by Dr. Jaiprakash Narayan SS&H KVK, Yadgir, Dr. Suresh, Assistant Director of Veterinary, Shorapur and andDr.Khaji, Assistant Director of Veterinary, HunasigiDr.Deshmuk, Dr. Omprakash, Dr. Prajwal, Dr.Ravi,. All the veterinary doctors engaged classes to the Pashusakhis regarding animal health care, different breeds and their characteristics, diagnosis of diseases and management.

ICAR-KVK, Yadgir

In ICAR- KVK ,Yadgir have mother block of Mango ,Guava, Acid Lime, Ber ,Coconut, Curry leaf and Drumstick crops. Hence ICAR- KVK ,Yadgir has involved in production of good quality and genuine horticulture planting materials and seed production particularly red gram and groundnut to meet the needs of the farming community. We are also producing red gram and ground nut seeds in KVK farm and also participatory method of seed production in farmer's field involving farmers at village level. ICAR- KVK ,Yadgir has organised four training programme to enhance the seed production of agricultural crops. At present during 2024-2025 ICAR- KVK, Yadgir had planned 265 Acres of Red gram certified seed production and110 Acres of Ground nutseed production with a target of 1000 quintals based on the huge demand from farming community. ICAR- KVK ,Yadgir also signed an MOU with Rajankolur Progressive Farmer producer company to achieve the target of seed production. In addition skill development training programme on Garden keeper and different methods of plant propagationis organised to rural youth to produce large quantity of quality planting materials locally in horticulture crops and provide employment opportunities at rural area. Two trained persons had established nursery at village level and providing good services to farmers.

Production of technological inputs (January 2021 to December, 2023)

Sl. No.	Item	Quantity (q) / Number			Income generated (Rs.)			Farmers benefitted		
		2021	2022	2023	2021	2022	2023	2021	2022	2023
1.	Seeds	62.00	91.00	105.00	816500	1135600	1258000	865	1228	1485
2.	Planting materials(No.)	5600	4165	6750	350500	281000	564800	119	89	195

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