

KRISHI VIGYAN KENDRA, DAKSHINA KANNADA

ANNUAL REPORT- 2022

(FOR THE PERIOD FROM 01 January, 2022 TO 31 December, 2022 along with good action oriented photographs in jpeg format for all activities of KVK with size of more than 2 MB need to be separately ATTACHED with CAPTION in the file name)

ICAR –KRISHI VIGYAN KENDRA, DAKSHINA KANNADA

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GENERAL INSTRUCTIONS

Please read the following instructions very carefully before starting preparation of the report.

- Annual report is the most important document for the KVK and it directly reflects the overall achievements pertaining to the reported period. Hence due care needs to be given by each KVK while preparing the report.
- Period of Report is from 01 January, 2022 to 31 December, 2022.
- Action photographs with relevant captions covering all OFTS/FLDS/TRAINING/EXTENSION activities of the KVK in High resolution should be submitted separately in a CD/DVD along with this report. A part from this, soft copy of the activity wise photos may be submitted in JPEG format.
- Prepare Summary tables carefully tallying with the relevant portions of the main report on all aspects.
- Retain the blank column and rows as such and do not merge the cells. Please specify NIL, wherever not applicable or details are not available.
- Check the names of varieties and hybrids and specify in the report.
- Check the units and totals of each data table.
- Extension activity under celebrations for each important day, please insert separate rows and give appropriate data separately. Clubbing of data should be avoided.
- Success stories/case studies should be supported with data tables and graphs. Without photos success stories will not be considered for inclusion in Annual Report of ATARI.

PART I – GENERAL INFORMATION ABOUT THE KVK

1.1. Name and address of KVK with phone, fax and e-mail

KVK Address	Telephone		E mail	Web Address
	Office	Fax		
ICAR-Krishi Vigyan Kendra (D.K.), Kankanady, Mangaluru- 575002.	0824- 2431872	-	Kvk.DakshinaKannada@icar.gov.in , kvkdmlr@gmail.com kvkdk@rediffmail.com	www.kvkdk.org

1.2. Name and address of host organization with phone, fax and e-mail

Address	Telephone		E mail	Web Address
	Office	Fax		
Vice-Chancellor Karnataka Veterinary Animal & Fisheries Sciences University Nandinagar, P.B.No.- 6, Bidar -585 401	08482- 245264	08482- 245107	vckvafsub@gmail.com vckvafsu@yahoo.co.in dekvafsu@gmail.com	www.kvafsu.kar.nic.in

1.3. Name of the Senior Scientist and Head with phone & mobile No.

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. T.J. Ramesha	-	8794706468	drtjramesha1970@gmail.com

1.4. Year of sanction: 12.08.2004

1.5. Staff position as on 31 December 2022

Sl. No.	Sanctioned post	Name of the incumbent	Designation	M/F	Discipline	Highest Qualification (for PC, SMS and Prog. Asstt.)	Pay Scale	Basic pay	Date of joining KVK	Permanent /Temporary	Category (SC/ST/OBC/ Others)
1	Head/Senior Scientist	Dr. T.J. Ramesha	Senior Scientist & Head	M	Fisheries	Ph.D., Aquaculture	131400-211500	147900	29.06.2019	Permanent	OBC
2	Scientist/SMS	Dr. Shivakumar R	Scientist	M	Veterinary	M.V.Sc. Ph.D., (Veterinary)	68900-205500	75200	21.10.2021	Permanent	SC
3	Scientist/SMS	Dr. Chethan N.	Scientist	M	Fisheries	Ph.D., Aquatic Environment Management	57700-182400	75200	01.06.2019	Permanent	OBC
4	Scientist/SMS	Dr. Kedarnath	Scientist	M	Plant Protection and Entomology	Ph.D., Plant Pathology	57700-182400	75200	03.06.2019	Permanent	General
5	Scientist/SMS	Dr. Naveen Kumar B.T.	Scientist	M	Agronomy	Ph.D., Agronomy	57700-182400	75200	03.06.2019	Permanent	ST
6	Scientist/SMS	Dr. Mallikarjun L.	Scientist	M	Soil Science	Ph.D., Soil Science	57700-182400	75200	06.06.2019	Permanent	OBC
7	Scientist/SMS	Dr. Rashmi R.	Scientist	F	Horticulture	Ph.D., Horticulture	57700-182400	75200	06.06.2019	Permanent	OBC
8	Programme Assistant (Lab Tech.)	- Vacant-	Programme Assistant	-	-	-	-	-	-	-	-
9	Programme Assistant (Computer)	Mr. Sathisha Naik K.	Programme Assistant	M	Computer	M.Com. ADCST (Comp.)	44900-142400	55200	24.01.2011	Permanent	ST
10	Programme Assistant/ Farm Manager	- Vacant-	Programme Assistant	-	-	-	-	-	-	-	-
11	Assistant	Ms. Yashashree	Assistant	F	Account	-	-	30250/- Consolidated	01.04.2022	Temporary	OBC
12	Jr. Stenographer	Mrs. Deepa	Computer Operator	F	-	-	-	30250/- Consolidated	02.11.2011	Temporary	OBC
13	Driver - 1	Mr.Somashekh araiiah S.M.	Driver-1 (Tractor)	M	-	-	-	27550/- Consolidated	26.09.2014	Temporary	OBC
14	Driver - 2	Mr. Keshava	Driver-2 (Jeep)	M	-	-	-	21300/- Consolidated	25.05.2010	Temporary	OBC
15	SS-1	Mr. Ashwith Kumar	SS-1 Cook cum caretaker	M	-	-	-	21300/- Consolidated	21.10.2011	Temporary	OBC
16	SS-2	Mrs. Vidyavathi	SS-2 Messenger	F	-	-	-	16900/- Consolidated	25.04.2012	Temporary	SC

1.6. Total land with KVK (in ha): 25.99ha

S. No.	Item	Area (ha)
1	Under Buildings	2.00
2.	Under Demonstration Units	0.11
3.	Under Crops	6.89
4.	Orchard/Agro-forestry	-
5.	Others	16.99
	Total	25.99

1.7. Infrastructural Development:**A) Buildings**

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR	24.11.2007	550	42,25,000.00	-	-	-
2.	Farmers Hostel	ICAR	24.11.2007	300	35,72,000.00	-	-	-
3.	Staff Quarters	ICAR	24.11.2007	400	32,35,000.00	-	-	-
	1	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-
	5	-	-	-	-	-	-	-
	6	-	-	-	-	-	-	-
4.	Demonstration Units							
	1.Fish Nursery Unit	ICAR	20.02.2007	80	1,75,000.00	-	-	-
	2.Polyhouse	ICAR	12.05.2008	260	2,00,000.00	-	-	-
	3	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-
5	Fencing	-	-	-	-	-	-	-
6	Rain Water harvesting system	-	-	-	-	-	-	-
7	Threshing floor	-	-	-	-	-	-	-
8	Farm godown	-	-	-	-	-	-	-
9		-	-	-	-	-	-	-
10		-	-	-	-	-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
M.F. Tractor 1035	2005	5,00,000	287 hrs.	Not in working condition
Hero Honda (Bike)	2006	40,000	41245 kms	Good condition
Aviator	2009	50,000	33356 kms	Good condition
Tractor John Deere-5045D	2016	6,84,324	492.40 hrs.	Good condition
Bolero Power plus	2019	8,00,000	56528 kms	Good condition

C) Lab equipment & AV aids

Name of the equipment	Year of purchase	Quantity (No.)	Cost (Rs.)	Present status
Lab equipment				
Mini Soil Test Kit	2016	1	86000.00	Not in working condition
Oxygen Gas cylinder(10 Ltr C)	2016	1	4748.00	Good
Microwave oven	2016	1	14800.00	Good
AV aids				
Xerox Machine	2006	1	75,000.00	Not in working condition
Computer & Accessories	2006-07	3	98,890.00	Not in working condition
Generator	2011	1	99,955.00	Good
EPBX	2011	1	49,455.00	Not in working condition
Digital Camera	2006	1	20,000.00	Not in working condition
Magnetic White Board	2008	1	3,800.00	Good
Desktop HP-Pavilion 6710in INTEL DUAL CORE	2011	1	30,900.00	Good
LAPTOP HP PAVILION DV6-3120TX	2011		37500.00	Good
UPS Frontech 800 Va.	2011	1	3000.00	Not in working condition
APC Backup 800 Va.	2013	1	1700.00	Not in working condition
Epson Data Projector EB-X02	2014	1	37940.00	Good
Mike set-AHUJA	2014	1	36317.00	Good
Nesara 500 ltr Fpcsolar water Heater	2014	1	72650.00	Good
12 V/110 Tubular Battery with Trolley	2014	1	26793.00	Good
1.4 VA/24V Emeric make UPS	2014	1	7407.00	Good
Panasonic 2.0 Ton Split AC CS CU- UC24QKY2 2* & V-Guard VG 500 5 KVA Voltage Stabilizer	2014	1	141000	Good
LG LED T.V. Model 32LB550A-ATR	2014	1	21500.00	Good
Camera DS 200 Nikon	2016	1	28000.00	Good
Benro Tripod (R-T 600 EX) Camera stand	2016	1	2500.00	Good

Sub woofer Mitashi 2.0 C.H. TNR 60 Fur	2016	1	7490.00	Good
LENOVO DESKTOP-G Lenovo Idea Center-3	2021	5	243000.00	Good
DELL Desktop-G DELL INSPIRON 3891 Desk Top Intel Core I5-10400/Windows 10/MS Office	2021	1	43644.00	Good
Dell Desktop-G, DELL -3668, Desktop/10 th Gen/Core-i3	2021	1	31779.00	Good
FRONTECH UPS-G	2021	1	847.00	Good

D) Farm equipment and implements

Name of the equipment/implement	Year of purchase	Quantity (No.)	Cost (Rs.)	Present status
Sprayers	2005	1	2,640.00	Good
Power sprayer	2008	1	4,800.00	Good
Drum Seeder & Cono weeder	2005	2	2,600.00	Good
Paddy Planting Marker	2005	1	1,350.00	Good
Weed cutter	2008	1	13,000.00	Good
Power tiller	2011	1	1,50,000.00	Good
Milking Machine	2012	1	24961.00	Good
Plough	2017	1	35000.00	Good
Drilling Machine	2016	1	1150.00	Good
Terrier Blade	2017	1	45250.00	Good
STD Rotary Tiller RT/ID15 5SG	2017	1	96000.00	Good
Full Kagi Wheel for Tractor	2017	1	35840.00	Good
Fish Solar Dryer	2020	1	-	Good (Provided under TSP programme of ICAR-CIFT, Cochin)

1.8. Details of SAC meeting organized

Date	Number of Participants	Salient Recommendations	Action taken	Remarks, if any
31.01.2022	64	Dr V. Venkatasubramanian, Director, ATARI		-
		Strengthening of farmers through producing quality seeds and planting materials based on demand driven and consumer preference.	<ul style="list-style-type: none"> KVK has provided 7.86 qtl MO-4 and 2.72 qtl. Kempumukthi paddy seeds to 45 farmers. 400 fodder cuttings were provided to six farmers under SCSP programme of ICAR-CPCRI, Kasargod. <p>Vegetable seeds were distributed to 114 farmers of Moodabidre and daregudde, panapila, hirebandadi villages of Puttur taluk on</p>	-

			09.09.2022 and 12.09.2022 respectively.	
		Create employment to rural youths by providing skill development programmes as R G Hegde and Shri Padre providing training for harvesting and spraying of Arecanut through Telescopic Carbon Fiber Dhoti.	<ul style="list-style-type: none"> On 06.12.2022 and 01.02.2023 training programmes were organized at karambaru and mundur villages of Puttur taluk. On 1.02.2023 training programme was organized at kashibettu village of Belthangady taluk. Totally 152 farmers and three extension officers were participated. 	-
		To initiate IFS based interventions promotion of composts using waste plates from temple and other urban wastes.	<ul style="list-style-type: none"> On 17.03.2022 method demonstration on pipe composting was organized for suterpet residents of Mangaluru Taluk in the presence of MLA and Mayor of Mangalore City Corporation. The 40 farmers participated and also provided on campus training for women SHG's. 	-
		Fish waste management using CIBA, CIFT and other technologies.	Awareness and capacity development programmes were organized for 25 farmers and 45 internship students on preparation of manure from fish waste and also organized two method demonstration programmes	-
		To fill up the vacant sanctioned posts of KVK on priority.	Notification is under process for vacant position of the university	-
		To communicate benefits of the Government schemes related to agriculture and allied sectors.	<p>Poshan Abhiyan Programme:</p> <ul style="list-style-type: none"> On 17.09.2022 Mr. Lathis, Financial Literacy Officer, Lead Bank provided information on Govt. schemes for farmers and extension officers and also provided vegetable seeds and papaya saplings to 142 farmers. <p>Coconut Development Board:</p> <ul style="list-style-type: none"> Two taluk level and one district level seminar were organized. 193 farmers participated. Already four palm climbing training has been sponsored and two programmes have been completed benefiting 40 rural youths. Three field days and three zonal level seminar has been sanctioned from coconut development board, Bengaluru. 	-

			DAESI Diploma <ul style="list-style-type: none"> Information has been provided to 80 students of 2 batches of DAESI programmes. 	
		Shri. H.R.Naik, Deputy Director, Horticulture		
		Provide technical assistance for effective management of African Giant Snails and Yellow leaf disease.	African Snails Management <ul style="list-style-type: none"> Horticulture department in collaboration with Horticulture Farmers Producer Company, Kalleri organized five training programme benefiting 162 farmers. Front Line Demonstration <ul style="list-style-type: none"> Critical inputs (Metaldehyde) was provided to 44 farmers at Tekaru cluster based village. Two agro-advisory services have been provided Yellow leaf diseases management: <ul style="list-style-type: none"> On 28.12.2022 training was provided to ubaradka (Sullia Taluk) and mundur (Puttur Taluk) villages benefiting 178 farmers. 	-
		More number of training programmes on Beekeeping, Mushroom cultivations need to be organized for doubling the farmers income.	<ul style="list-style-type: none"> In order to doubling the farmers income on 20.05.2022 world honey bee day was celebrated at KVK benefitting 37 farmers .On 26.08.2022 method demonstration about Mushroom production was organized benefitting 88 farmers. 	-
		Mr. Praveen M. P. LDM, CANARA BANK, Mangaluru		
		Through KVK more number of awareness programmes needs to be organized on credit loan, schemes and ODOP schemes, FPO promotion activities.	<ul style="list-style-type: none"> At KVK awareness programmes on financial schemes of the Govt. was organized. Mr. Lathish, Finance Literacy Officer participated as resource person benefitting 322 farmers. On 21.10.2022 and 19.11.2022 information on agriculture has been provided to 71 farmers. On 01.02.2023 and 03.02.2023 information on agro forestry has been given to 76 farmers. On 18.01.2022 and 04.06.2022 information about schemes of horticulture department has been provided to 31 farmers. 	-
		Dr. Prasanna Kumar T. G., DD AH&VS, Mangaluru		
		Dairy is treated as secondary or tertiary enterprise in Agriculture. Now a days its	<ul style="list-style-type: none"> From 26.03.2022 to 29.03.2022 information about scientific dairy farming has been provided to 50 farmers 	-

		management has become costly due to hike in labour charges. Awareness programmes on mechanization in dairy need to be intensified to adopt usage of milking machine, Rubber floor etc.	and farm women.	
		Popularization of fodder varieties is required to increase profit in Dairy. Usage of mineral mixture to supply micro nutrients has to be promoted.	<ul style="list-style-type: none"> In all the farmers orientated programmes information about mineral mixture has been provided at Permude village of Mangaluru taluk. Under Front Line Demonstration information about probiotics use for higher milk yield has been provided for 10 farmers and farm women. Also provided capacity development programme. Under Front Line Demonstration programme fodder root slips were provided to 10 farmers of Kinnigoli village. 	-
		To undertake more trainings on Goat farming as there is reduction in Beef market.	<ul style="list-style-type: none"> From 21.05.2022 to 23.03.2022 three days training programme on scientific goat and sheep were organized at Bettampadi village of Puttur Taluk. 45 farmers and farm women were participated. To promote goat farming at Kajoor village of Belthangady Taluk, capacity development programme on small ruminant mineral mixture has been provided to 10 farmers under Frontline Demonstration . 	-
		Mrs. Prema Kamble, Assistant Director of Agriculture, Department of Agriculture		
		Paddy cultivation area is declining in the district and it is neglected crops as it is grown only for domestic consumption purpose and its productivity need to be enhanced.	<p>Farmers to farmers paddy seeds distribution</p> <ul style="list-style-type: none"> Sahyadri Panchamukthi Paddy - Seeds: 290q. Area Coverage: 450 ha., Farmers Covered: 1145 Nos. Sahyadri Kempumukthi Paddy - Seeds: 2.50q. Area Coverage: 04 ha., Farmers Covered: 10 Nos. 	-
		Dr. Raviraj Shetty, G., Associate Professor and Head, AHRS, Ullal, Mangaluru		
		Value addition and nursery development skills needs to be promoted among farmers to reduce cost of production	<ul style="list-style-type: none"> On 24.09.2022 method demonstration on preparation of value added products from tomato and papapya was provided to 38 farmers. Three awareness programmes on preparation of value added products from fish organised at two villages, 	-

			<p>benefitting 67 farmers.</p> <ul style="list-style-type: none"> • KVK in collaboration with taluk panchyath organized training programme for Sanjeevini society members on fruit plant nursery and nursery management benefitting 20 farm women. 	
		Cashew productivity is low as it is considered as neglected crop, production and area expansion aspects has to be given priority in the district.	<ul style="list-style-type: none"> • KVK in collaboration with Mundur Primary Agriculture Cooperative Society organized training programme on 12.12.2022 benefitting 73 farmers. <p>Cluster front line demonstration at Mundur village</p> <ul style="list-style-type: none"> • Three problematic field visit, 45 farmers benefited • One method demonstration, 24 farmers benefited • Integrated crop management in cashew and value addition programme was organized from 10.11.2022 to 30.11.2022 benefitting 72 farmers. 	-
		Mr. Rajaverma Bailangady, Progressive Farmer, Daregudde, Moodabidre Taluk.		
		Number of soil and water testing activities need to be increased with promotion of organic farming.	<ul style="list-style-type: none"> • From KVK 167 soil and 58 water sample have been analysed. Twenty five days skill oriented training programme has been organized for two staff of South Canara Coconut Producer Company, Vittla. Also provided technical support to establish soil lab. 	-
		Repeat breeding after artificial insemination is the common problem in dairy cattle. Insisted to undertake suitable remedial measures to make dairy profitable.	<ul style="list-style-type: none"> • Repeated breeding is a complex issues and front line demonstration has been taken up on artificial insemination using hormonal treatment. 	-
		Mrs. Sukanya, Progressive Farmer, Aladangady, Belthangady Taluk.		
		Insisted to make chicks available during January to May to the needy farmers.	<ul style="list-style-type: none"> • On demand basis 1746 Nos. of one day old poultry chicks procured form poultry division, veterinary college, hebbal, bengaluru reared for 21 days has been provided to 88 farmers. 	-
		Mr. B. K. Parameshwar Rao, Progressive Paddy Farmer, Belthangady Taluk.		
		Top soil is more productive so it has to be conserved with proper soil and water conservation techniques. Cultivation of paddy in two seasons helps to ground water	<ul style="list-style-type: none"> • On 21.12.2022 KVK organized training programme on soil and water conservation methods benefitting 49 farmers. Save soil campaign has been organized at on campus and well as off campus. 	-

		recharge and river flow for long period.		
		Mr. Manoj Menezes, Regional Director, SKDRDP, Dharmasthala, Belthangady Taluk.		
		Promotion of green manure crops are required to maintain soil health.	<ul style="list-style-type: none"> To maintain soil health KVK has provided seeds of green manure crops such as Sunheamp-9kg. and Daincha-3 Kgs to farmers. KVK with the support of institution provided 450 Kgs of green manure crops eeds to farmers of Mudabidre, Belthangady taluk. 	-
		Mr. Lavakumar, Agri Project Officer SKDRDP, Dharmasthala, Belthangady Taluk.		
		To undertake more number of skill-based trainings on Coconut and Areca nut tree climbing.	<ul style="list-style-type: none"> KVK under the sponsorship of the Coconut Development Board organized training for 20 farmers from 10.01.2022 to 15.01.2022. During 2022-23 four programmes have been sponsored from Coconut Development Board, Bangaluru and two programmes have been implemented banefitting 40 rural youths. 	-
		Mrs. Sujatha Rai, Progressive Farm Women, Tekkaru, Belthangady Taluk.		
		Lack of awareness among farmers on advances in agriculture. Insisted to undertake training programmes at Gram Panchayath level to provide agricultural information to farmers.	<ul style="list-style-type: none"> At gram panchayath level information on agriculture has been provided to 3190 farmers through 57 training programme. 	-

PART II - DETAILS OF DISTRICT

2.1 Major farming systems/enterprises (based on the analysis made by the KVK)

S. No		Farming system/enterprise
1	Cereals	Paddy
2	Pulses	Black gram, Green gram, Cowpea and Horse gram

3	Oil Seeds	Sesamum
4	Vegetables	Brinjal, Bhendi, cowpea, Ash gourd, Amaranths, litlegourd, Ridge gourd, Pumpkin, Cucumber, Tapioca, Basella, Amorpophallus, Sweet potato and other vegetables
5	Fruits	Banana, Pineapple, Sapota, Jackfruit and Mango
6	Plantation Crops	Arecanut, Coconut, Cashew, Pepper, Rubber, Vanilla and Cocoa
7	Flower Crops	Jasmine and Crossandra
8	Animal Husbandry	Dairy, Piggery, Poultry and Fisheries

2.2 Description of Agro-climatic Zone & major agro ecological situations (based on soil and topography)

S. No	Agro-climatic Zone	Characteristics
1	Coastal Zone, Zone 10	ICAR- Krishi Vigyan Kendra, Dakshina Kannada, Kankanady, Mangaluru is situated in the Coastal Zone No-10 with an operational area of five Taluks viz., Mangaluru, Bantwal, Belthangady, Puttur and Sullia. The total Geographical area of the district is 4770 sq. km. The district has 130833 ha of net cultivable area mainly dependent on rainfall. The Normal rainfall is 4040 mm. The annual average rainfall received during the period January-2022 to December 2022 is 3531.2 mm. This district receives heavy rainfall during the months of June to September. Maximum temperature of 33.84°C was recorded in the month of March-2022 and minimum temperature of 17.20°C was recorded during the month of January-2022. The Average relative humidity was recorded 87.41 during the reporting year. The soil in the major portions of the district consists of three types, viz. coastal sandy, alluvial, laterite and red loamy soil. Apart from this, coastal saline soil is also noticed in some parts of the district owing to the proximity to sea or backwater. Soils are low in CEC and acidic in condition. The pH of the soil ranges from 5.3 to 5.8 with low soluble salt content. The major nutrient status of the soil is varying from medium to low. The major food crop grown in the district is Paddy. The Plantation crops are Arecanut, Coconut, Cashew, Rubber, Pepper, Cocoa and Banana. In some parts of the district, pulses like Black gram, Green gram, Horse gram and cowpea are grown in rabi and summer in paddy fallows. Sesamum is the oil seed crop and vegetables like cucumber, Bhendi, Chilli, Brinjal Bitter gourd, Ash gourd and Little gourd are grown during Rabi/ Summer season.

S. No	Agro ecological situation	Characteristics
1	AES1-Coastal belt	This covers the taluks of Bantwal and Mangalore. The soils of this AES are red lateritic mixed with alluvial soil. Bore well tube wells and tanks are the major source of irrigation. Major crops include paddy, arecanut, coconut, cashew pulse crops and other vegetable crops.
2	AES-2 Malnad region	This covers the taluks of Belthangady Puttur and Sullia. Predominant by western ghat sections. The soils are red sandy loamy and poor in soil fertility, Tanks are major irrigation source. Less emphasis on sericulture. Major crops are plantation crops and Rubber

2.3 Soil type/s

S. No	Soil type	Characteristics	Area in ha
1.	Coastal sands, Alluvial, Laterite and Red loamy soil	The soils are mainly red lateritic soil and acidic in nature. Around 95% of soils are red and only 5% are black alluvium. Nearly 60% of the soils are red lateritic in nature. The soil depth is moderately deep (25 cm) to deep (100 cm) in nature. Soils are low in CEC. The pH of the soil ranges from 4.6 to 5.8 with low soluble salt content. The major nutrient status of the soils is varying from low to medium.	129371

2.4. Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area (ha)	Production (Metric tons)	Productivity (kg /ha)
1	Paddy	48689.00	140827.00	2735.00
2	Arecanut	35409.00	53076.60	1500.00
3	Coconut	18467	1975.83 (Lakh nuts)	0.11 (Lakh nuts)
4	Sesamum	483.00	164.00	339.00
5	Leafy Vegetables	594.00	10020.00	16870.00
6	Brinjal	55.00	1318.50	23970.00
7	Bhendi	176.00	1352.60	7690.00
8	Green chilli	137.00	849.80	6200.00
9	Watermelon	214.00	7473.70	34920.00
10	Horsegram	190.00	49.00	372.00
11	Cowpea	543.00	182.00	325.00
12	Pepper	2736.00	596.75	220.00
13	Cashew	33111.00	47816.45	1440.00
14	Jasmine	101.00	587.52	5820.00
15	Other vegetable	40.00	561.90	14050.00

* Sources: Statistical Department Dakshina Kannada (Year 2020-21)

2.5. Weather data

Month	Rainfall (mm)	Temperature ⁰ C		Relative Humidity (%)
		Maximum	Minimum	
January-22	-	32.71	17.20	60.15
February-22	-	33.14	19.11	66.86

March-22	45.2	33.84	21.68	73.29
April-22	132.9	33.30	22.90	71.70
May-22	304.9	31.13	25.26	75.37
June-22	558.3	29.53	23.33	78.56
July-22	1411.8	27.77	22.03	84.35
August-22	643.2	28.42	24.09	81.82
September-22	328.8	29.56	20.6	81.68
October-22	32.2	31.0	21.19	158.87
November-22	62.4	31.93	20.90	147.07
December-22	11.5	31.45	20.29	69.32
	3531.2	373.78	258.58	1049.04

* Source : AHRS, Ullala, Mangaluru

2.6. Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle			
<i>Crossbred</i>	139968	-	-
<i>Indigenous</i>	113747	-	-
Buffalo	3700	-	-
Sheep			
<i>Crossbred</i>	23	-	-
<i>Indigenous</i>	242	-	-
Goats	32215	-	-
Pigs			
<i>Crossbred</i>	4793	-	-
<i>Indigenous</i>	1493	-	-
Rabbits	1166	-	-
Poultry			
Hens	1721908	-	-
<i>Desi</i>	-	-	-
<i>Improved</i>	-	-	-
Ducks	-	-	-
Turkey and others	-	-	-
Category	Area	Production	Productivity
Fish	-	-	-
<i>Marine</i>	-	-	-
<i>Inland</i>	-	-	-
Prawn	-	-	-

Scampi	-	-	-
Shrimp	-	-	-

* Sources. Statistical Department, Dakshina Kannada (Year: 2020-21)

2.7 District profile maintained in the KVK has been **Updated** for 2022: Yes / No: Yes

2.8 Details of Operational area / Villages

Sl.No.	Taluk	Name of the block	Name of the village	How long the village is covered under operational area of the KVK (specify the years)	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Mangaluru	Mangaluru	Kilenjaru	1 Year	Paddy	Non availability of suitable red rice variety for midlands (Majalu), low yield due to local and low yielding variety (Kajejaya)	Demonstration of Sahyadri Kempumukthi red rice variety for midlands of Dakshina Kannada
2	Mangaluru	Kinigoli	Naalade	1 Year	Fodder	Shortage of green fodder during summer season and high cost of concentrates	Demonstration of African tall maize intercropped with fodder cowpea
3	Mangaluru	Mangaluru taluk	Permude, Mangaluru Taluk	1 Year	Milk	Reduced milk yield, lower SNF and fat percentage due improper digestion and absorption of nutrients	Demonstration on the use of probiotics to enhance SNF and milk yield
4	Mangaluru	Mangaluru,	Belvayi, MangaluruTq	1 Year	Fisheries	Slow growth by conventional feeds and wastage of feed due to quick sinking	Feed based carp culture in farm ponds to enhance production
5	Belthangady	Belthangady	Badagakaranduru Belthangady	2 Year	Paddy	Deficiency of magnesium and sulfur in the soil causes reduction in photosynthetic activity leading to the low yield	OFT-Effect of Magnesium sulfate on growth and yield of coastal Paddy

6	Belthangady	Belthangady	Balanja & Guruvayanakere	1 Year	Arecanut	Low yield due to high incidence of inflorescence die back & button shedding disease (upto 60%)	OFT-Assessment of Inflorescence die back and button shedding management in arecanut
7	Belthangady	Belthangady	Kajoor	1 Year	Goats	Reduced growth rate in small ruminants due to non availability of important minerals	FLD- Demonstration of small ruminant mineral mixture on production performance in goats of coastal region
8	Belthangady	Belthangady	Belthangady	1 Year	Arecanut	High soil acidity, unavailability of applied nutrients, phosphate fixation in soils	OFT-Effect of Dolomite soil conditioner on arecanut yield and soil acidity in coastal soils of Dakshina Kannada
9	Belthangady	Belthangady	Hosangady, Belthangady	1 Year	Yard Long Bean	Low yield with existing local variety	Demonstration of high yielding yard long bean variety Arka Mangala
10	Belthangady	Belthangady	Hosangady, Belthangady	1 Year	Ridge gourd	Low yield with existing local variety	Demonstration of ridge gourd variety Arka Prasanna
11	Puttur	Puttur	Herebandady	2 Year	Paddy	Losses of nutrients due to excess rainfall, nutrients deficiency due to acidic soil pH	Potassium management in coastal Paddy
12	Puttur	Puttur	Kavu	2 Year	Arecanut	Premature nut fall, nut cracking due to Potassium and Boron deficiency in the soils	Management of nut cracking and premature nut fall in Areca nut
13	Puttur	Puttur	Perne, Panapila, Kodi	1 Year	Fisheries	Slow growth by conventional feeds and wastage of feed due to quick sinking	Feed based carp culture in farm ponds to enhance production
14	Puttur	Puttur	Mundoor	2 Year	Cashew	High Incidence of stem and root borer (upto 40% infestation)	Integrated management of stem and root borer in cashew
15	Puttur	Uppinagadi	Ichlampadi	1 Year	Paddy	Poor yield due to high incidence of blast and brown leaf spot disease(Incidence of disease is 30-35 %)	Integrated disease management in Paddy

16	Bantwala	Bantwala	Kanyana , Bantwala	3 Year	Udupi Jasmine	Pruning techniques not followed low yield during off season and high incidence of sucking pests	OFT-Assessment of pruning time in Udupi Jasmine
17	Bantwala	Vitla	Purlappady	1 Year	Compost culture	Non availability of suitable aerobic compost culture for decomposing the farm wastes and bulky organic wastes	Demonstration of KSNUAHS compost culture for compost preparation
18	Bantwal(T)	Bantwal(T)	Vagga, Kavalapaduru	3 Year	Paddy	Non availability of suitable red rice variety for flood in lowlands	Demonstration of Sahyadri Panchamukhi red rice variety for lowlands in Dakshina Kannada
19	Bantwal	Bantwal	Barimaru Bantwal	3 Year	Arecanut	Reduced growth due to high incidence of spindle bug during early growth stage of the crop (below 4 year old plants) and 20- 24% spindle bug incidence	Integrated management of spindle bug in arecanut
20	Moodibidre	Moodibidre	Kottaribettu, Amugrah, Panapila, Moodibidre	1 Year	Fisheries	Slow growth of locally available species and non-availability of high valued species, fast growing species which can fetch high price in the local market	OFT-Assessment of growth performance of Murrels in coastal farm ponds
21	Moodibidre	Moodibidre	Sampige, Moodibidre	1 Year	Okra	Low yield due to improper nutrient management Yield loss up to 50% due to high incidence of Yellow Vein Mosaic	Integrated crop management in Okra
22	Kadaba	Kadaba	Guttugaru, Maddapady, Santhoor	1 Year	Fisheries	Less production with local strain, early maturity and breeding. Less marketable size impact on price and production	FLD-Production improvement by GIFT tilapia culture

2.9 Priority thrust areas

S. No	Thrust area
1	Integrated crop management
2	Introduction of HYV
3	Mechanization in paddy
4	Integrated pest and disease management
5	Integrated farming systems
6	Acid soil management
7	Scientific animal husbandry practices
8	Inland fish culture
9	Income generation activities like backyard poultry rearing, vermicomposting, apiary, piggery
10	Value addition

PART III - TECHNICAL ACHIEVEMENTS

3.A. Target and Achievements of mandatory activities

OFT				FLD			
1				2			
OFTs (No.)		Farmers (No.)		FLDs (No.)		Farmers (No.)	
Target	Achievement	Target	Achievement	Target	Achievement	Target	Achievement
7	5	44	31	18	16	191	171
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

Training (Farmers/farm women)				Training (Rural youth)			
3				4			
Courses (No.)		Participants (No.)		Programmes (No.)		Participants (No.)	
Target	Achievement	Target	Achievement	Target	Achievement	Target	Achievement
150	136	5500	5217	5	1	60	56
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

Training (Extension personnel)				Training (sponsored)			
5				6			
Courses (No.)		Participants (No.)		Programmes (No.)		Participants (No.)	
Target	Achievement	Target	Achievement	Target	Achievement	Target	Achievement
5	3	200	182	20	18	800	771
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

Training (Vocational)				Extension Programmes			
7				8			
Courses (No.)		Participants (No.)		Programmes (No.)		Participants (No.)	
Target	Achievement	Target	Achievement	Target	Achievement	Target	Achievement
1	25	-	-	3100	3068	28000	27518
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

Seed Production (Q)		Planting material (Nos.)	
9		10	
Target	Achievement	Target	Achievement

Paddy-32 q.	28.46 q.	Fodder cutings-1000	400
Pulses-1.0	0.37	Jasmine Seedlings: 1000	-
Bhendi Seeds: 0.05	Bhendi 0.5kg	Drumsticks: 1000	-
		Papaya: 1000	50
		Coconut: 500	-
		Jackfruit:100	-

Livestock, poultry strains and fingerlings (No.)				Bio-products (Kg)			
11				12			
Target		Achievement		Target		Achievement	
Swarnadhara poultry chicks: 5000		1726 No.		Earth worms: 50 Kg.		0.340 Kg.	
Piggery: 40		-		Vermi Compost : 1600 Kg.		1577 Kg.	
Piglets: 40		-		-		-	
Fish seeds: 200000		12000 No.		-		-	
Ornamental fish: 5000		-		-		-	
-		-		-		-	
-		-		-		-	
-		-		-		-	
-		-		-		-	
Soil, water, plant and manure analysis (including mobile kits)				Mobile agro advisories provided			
13				14			
Samples (No.)		Farmers (No.)		Messages including text, voice (No.)		Farmers (No.)	
Target	Achievement	Target	Achievement	Target	Achievement	Target	Achievement
Soil-500	168	500	133	100	95	5000	5500
Water-250	58	250	58				
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

3.B1. Abstract of interventions undertaken

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions										
				Title of OFT if any	Title of FLD if any	Number of Training (farmers)	Number of Training (Youths)	Number of Training (extension personnel)	Extension activities (No.)	Supply of seeds (Qtl.)	Supply of planting materials (No.)	Supply of livestock (No.)	Supply of bio products	
1	ICM	Paddy	Deficiency of magnesium and sulfur in the soil causes reduction in photosynthetic activity leading to the low yield	Effect of Magnesium sulfate on growth and yield of coastal Paddy	-	05	-	-	Field Visit: 02 Training:1	-	-	-	-	-
2	ICM	Areca nut	High soil acidity, unavailability of applied nutrients, phosphate fixation in soils	Effect of dolomite soil conditioner on areca nut yield and soil acidity in coastal soils of Dakshina Kannada	-	08	02	-	Field Visit:02 Training:01	-	-	-	-	-
3	ICM	Udupi Jasmine	Pruning techniques not followed low yield during off season and high incidence of sucking pests	Assessment of pruning time in Udupi Jasmine	-	02	-	-	Field Visit: 02 Training:01	Under progress				
4	IPM	Areca nut	Low yield due to high incidence of inflorescence die back & button shedding disease (upto 60%)	Assessment of Inflorescence die back and button shedding management in areca nut	-	01	-	-	Field Visit:03 Training:01	-	-	-	-	-

5	Fisheries	Fisheries	Slow growth of locally available species and non availability of high value, fast growing species which can fetch high price in the local market	-	Assessment of growth performance of Murrels in coastal farm ponds				Field Visit: 4 Training: 2	6000	-	-	-	-
6	ICM	Paddy	Non availability of suitable red rice variety for flood in lowlands	-	Demonstration of Sahyadri Panchamukhi red rice variety for lowlands in Dakshina Kannada	1	-	-	Field Visit:3 Training:1	625	-	-	-	-
7	ICM	Paddy	Non availability of suitable red rice variety for midlands (Majalu),low yield due to local and Low yielding variety (Kajejaya)	-	Demonstration of Sahyadri Kempumukhi red rice variety for midlands of Dakshina Kannada	1	-	-	Field Visit:3 Training:1	250	-	-	-	-
8	Compost culture	Compost culture	Non availability of suitable aerobic compost culture for decomposing the farm wastes and bulky organic wastes	-	Demonstration of KSNUAHS compost culture for compost preparation	1	-	-	Field Visit:1 Training:1	50	-	-	-	50

9	ICM	Fodder cowpea	Shortage of green fodder during summer season and high cost of concentrates	-	Demonstration of African tall maize intercropped with fodder cowpea	1			Field Visit:1 Training:1	200				
10	ICM	Areca nut	Premature nut fall, nut cracking due to Potassium and Boron deficiency in the soils	-	Management of nut cracking and premature nut fall in Areca nut	07	03	01	Field Visit:02 Training:01	-	-	-	2	4 kg
11	ICM	Paddy	Losses of nutrients due to excess rainfall, nutrients deficiency due to acidic soil pH	-	Potassium management in coastal Paddy	07	03	01	Field Visit:02 Training:01	-	-	-	2	2 kg
12	ICM	Okra	Low yield due to improper nutrient management Yield loss up to 50% due to high incidence of Yellow Vein Mosaic	-	Integrated crop management in Okra	01	-	-	Field Visit:01 Training:01	Under progress				
13	ICM	Ridge gourd	Low yield with existing local variety	-	Demonstration of Ridge gourd variety Arka Prasanna	01	-	-	Field Visit:01 Training:01	Under progress				

14	ICM	Yard Long Bean	Low yield with existing local variety	-	Demonstration of high yielding Yard Long Bean variety Arka Mangala				Field Visit:01 Training:01	Under progress				
15	IPM	Paddy	Poor yield due to high incidence of blast and brown leaf spot disease (Incidence of disease is 30-35 %)	-	Integrated disease management in Paddy	01	-	01	Field Visit:03 Training:01 Field Day: 01	-	-	-	-	-
16	IPM	Arecanut	Reduced growth due to high incidence of spindle bug during early growth stage of the crop (below 4 year old plants) 20-24% spindle bug incidence	-	Integrated management of spindle bug in arecanut	01	-	-	Field Visit:03 Training:01	-	-	-	-	-
17	IPDM	Cashew	High incidence of stem and root borer (upto 40% infestation)	-	Integrated management of stem and root borer in cashew	01	-	-	Field Visit:04 Training:01	-	-	-	-	-

1	Effect of Magnesium sulfate on growth and yield of coastal Paddy	KSNUAHS, Shivamogga	Paddy	1	-	01	-
2	Effect of dolomite soil conditioner on arecanut yield and soil acidity in coastal soils of Dakshina Kannada	KSNUAHS, Shivamogga	Arecanut	1	-	01	-
3	Assessment of pruning time in Udupi Jasmine	TNAU Coimbatore, ICAR-IIHR, Bengaluru, UHS Bhagalkot	Udupi Jasmine	1	-	-	-
4	Assessment of inflorescence die back and button shedding management in arecanut	CPCRI Kasaragod and KSNUAHS Shivamogga	Arecanut	1	-	1	-
5	Assessment of growth performance of Murrels in coastal farm ponds	CIFA and CIFRI	Fisheries	1	-	-	-
6	Demonstration of Sahyadri Panchamukhi red rice variety for lowlands in Dakshina Kannada	KSNUAHS, Shivamogga	Paddy	-	1	1	-
7	Demonstration of Sahyadri Kempumukthi red rice variety for midlands of Dakshina Kannada	KSNUAHS, Shivamogga	Paddy	-	1	1	-
8	Demonstration of KSNUAHS compost culture for compost preparation	KSNUAHS, Shivamogga	Compost culture	-	1	-	-
9	Demonstration of African tall maize intercropped with fodder cowpea	UAS, Bengaluru	Fodder cowpea	-	1	1	-
10	Management of nut cracking and premature nut fall in Areca nut	CPCRI, Kasargod	Areca nut	-	1	01	-
11	Potassium management in coastal Paddy	KSNUAHS, Shivamogga	Paddy	-	1	01	
12	Integrated crop management in Okra	ICAR-IIHR, Bengaluru	Okra	-	1	01	Under progress
13	Demonstration of Ridge gourd variety Arka Prasanna	ICAR-IIHR, Bengaluru	Ridge gourd	-	1	01	
14	Demonstration of high yielding yard long bean variety Arka Mangala	ICAR-IIHR, Bengaluru	Yard long bean	-	1	01	

15	Integrated disease management in Paddy	UAS GKVK Bengaluru	Paddy	-	1	01	-
16	Integrated management of spindle bug in arecanut	CPCRI Kasaragod	Arecanut	-	1	01	-
17	Integrated management of stem and root borer in cashew	DCR Puttur	Cashew	-	1	01	-
18	Demonstration of the use of probiotics to enhance SNF and milk yield	ICAR-NIANP	Milk	-	1	2	Under progress
19	Demonstration of small ruminant mineral mixture on production performance in goats in coastal region	TANUVAS, ICAR-NIANP, Bengaluru	Goats	-	1	2	Under progress
20	Feed based carp culture in farm ponds to enhance production	CIFA, Bhubaneswar	Fisheries	-	1	-	-
21	Production improvement by GIFT tilapia culture	RGCA, Tamil Nadu	Fisheries	-	1	-	-

3.B2 contd..

No. of farmers covered															
OFT				FLD				Training				Others (Specify)			
General		SC/ST		General		SC/ST		General		SC/ST		General		SC/ST	
M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
04	01	-	-	-	-	-	-	17	03	-	-	-	-	-	-
09	01	-	-	-	-	-	-	13	01	-	-	-	-	-	-
05	-	-	-	-	-	-	-	20	10	-	-	-	-	-	-
04	01	-	-	-	-	-	-	13	01	-	-	-	-	-	-
03	02	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	20	5	-	-	20	5	-	-	-	-	-	-
-	-	-	-	9	1	-	-	9	1	-	-	-	-	-	-
-	-	-	-	16	9	-	-	16	9	-	-	-	-	-	-
-	-	-	-	25	0	-	-	25	-	-	-	-	-	-	-
-	-	-	-	03	01	05	01	07	08	10	03	-	-	-	-
-	-	-	-	08	02	-	-	14	09	-	05	-	-	-	-
-	-	-	-	10	-	-	-	15	12	-	-	-	-	-	-
-	-	-	-	10	-	-	-	16	15	-	-	-	-	-	-
-	-	-	-	10	-	-	-	13	9	-	-	-	-	-	-
-	-	-	-	09	01	-	-	11	01	-	-	-	-	-	-

-	-	-	-	08	02	-	-	11	02	-	-	-	-	-	-
-	-	-	-	07	03	-	-	61	13	-	-	-	-	-	-
-	-	-	-	2	8	-	-	2	33	-	2	-	-	-	-
-	-	-	-	8	2	0	0	16	4	-	-	-	-	-	-
-	-	-	-	-	10	-	-	02	25	-	-	16	01	-	-
-	-	-	-	-	10	-	-	02	25	-	-	-	-	-	-

4.A3. Abstract on the number of technologies assessed in respect of livestock

Thematic areas	Cattle	Poultry	Piggery	Rabbit	Fisheries	TOTAL
Evaluation of Breeds	-	-	-	-	-	-
Nutrition Management	-	-	-	-	-	-
Disease of Management	-	-	-	-	-	-
Value Addition	-	-	-	-	-	-
Production and Management	-	-	-	-	1	1
Feed and Fodder	-	-	-	-	-	-
Small Scale income generating enterprises	-	-	-	-	-	-
Dairy	-	-	-	-	-	-
Others (Pl. specify)	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-

4.A4. Abstract on the number of technologies refined in respect of livestock

Thematic areas	Cattle	Poultry	Piggery	Rabbit	Fisheries	TOTAL
Evaluation of Breeds	-	-	-	-	-	-
Nutrition Management	-	-	-	-	-	-
Disease of Management	-	-	-	-	-	-
Value Addition	-	-	-	-	-	-
Production and Management	-	-	-	-	-	-
Feed and Fodder	-	-	-	-	-	-
Small Scale income generating enterprises	-	-	-	-	-	-
Dairy	-	-	-	-	-	-
Others (Pl. specify)	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-

4.B. Achievements on technologies Assessed and Refined

4.B.1. Technologies Assessed under various Crops

Thematic areas	Crop	Name of the technologies	No. of trials	Number of farmers / locations	Area in ha (Per trial covering all Technological Options in a farm)
Integrated Nutrient Management	-	-	-	-	-
	-	-	-	-	-
Varietal Evaluation	-	-	-	-	-
	-	-	-	-	-
Integrated Pest Management	-	-	-	-	-

	-	-	-	-	-
Integrated Crop Management	-	-	-	-	-
	-	-	-	-	-
Integrated Disease Management	-	-	-	-	-
	-	-	-	-	-
Small Scale Income Generation Enterprises	-	-	-	-	-
	-	-	-	-	-
Weed Management	-	-	-	-	-
	-	-	-	-	-
Resource Conservation Technology	-	-	-	-	-
	-	-	-	-	-
Farm Machineries	-	-	-	-	-
	-	-	-	-	-
Integrated Farming System	-	-	-	-	-
	-	-	-	-	-
Seed / Plant production	-	-	-	-	-
	-	-	-	-	-
Value addition	-	-	-	-	-
	-	-	-	-	-
Drudgery Reduction	-	-	-	-	-
	-	-	-	-	-
Storage Technique	-	-	-	-	-
	-	-	-	-	-
Mushroom cultivation	-	-	-	-	-
	-	-	-	-	-
Total	-	-	-	-	-

4.B.2. Technologies Refined under various Crops

Thematic areas	Crop	Name of the technologies	No. of trials	Number of farmers/locations	Area in ha (Per trial covering all Technological Options in a farm)
Integrated Nutrient Management	-	-	-	-	-
	-	-	-	-	-
Varietal Evaluation	-	-	-	-	-
	-	-	-	-	-

Integrated Pest Management	-	-	-	-	-
	-	-	-	-	-
Integrated Crop Management	-	-	-	-	-
	-	-	-	-	-
Integrated Disease Management	-	-	-	-	-
	-	-	-	-	-
Small Scale Income Generation Enterprises	-	-	-	-	-
	-	-	-	-	-
Weed Management	-	-	-	-	-
	-	-	-	-	-
Resource Conservation Technology	-	-	-	-	-
	-	-	-	-	-
Farm Machineries	-	-	-	-	-
	-	-	-	-	-
Integrated Farming System	-	-	-	-	-
	-	-	-	-	-
Seed / Plant production	-	-	-	-	-
	-	-	-	-	-
Post Harvest Technology/Value addition	-	-	-	-	-
	-	-	-	-	-
Drudgery Reduction	-	-	-	-	-
	-	-	-	-	-
Storage Technique	-	-	-	-	-
	-	-	-	-	-
Mushroom cultivation	-	-	-	-	-
	-	-	-	-	-
Cropping Systems	-	-	-	-	-
Farm Mechanization	-	-	-	-	-
Others, Pl specify	-	-	-	-	-
Total	-	-	-	-	-

4.B.3. Technologies assessed under Livestock

Thematic areas	Name of the livestock	Name of the technologies	No. of trials	No. of farmers/locations
Evaluation of breeds	-	-	-	-
Nutrition management	-	-	-	-
Disease management	-	-	-	-
Processing and Value addition	-	-	-	-
Production and management	-	-	-	-
Feed and fodder management	-	-	-	-
Small scale income generating enterprises	-	-	-	-
Others, pl. specify	-	-	-	-
Total				

4.B.4. Technologies Refined under Livestock and other enterprises

Thematic areas	Name of the livestock	Name of the technologies	No. of trials	No. of farmers/locations
Evaluation of breeds	-	-	-	-
Nutrition management	-	-	-	-
Disease management	-	-	-	-
Processing and Value addition	-	-	-	-
Production and management	-	-	-	-
Feed and fodder management	-	-	-	-
Small scale income generating enterprises	-	-	-	-
Others, pl. specify	-	-	-	-
Total	-	-	-	-

4.B.5. Technologies assessed under various enterprises by KVKs : Nil

Sl.	Thematic areas	Name of the enterprise	Name of technology(s)	No. of trials	No. of locations
1	Drudgery reduction	-	-	-	-
2	Entrepreneurship Development	-	-	-	-
3	Health and nutrition	-	-	-	-
4	Processing and value addition	-	-	-	-

5	Energy conservation	-	-	-	-
6	Small-scale income generation	-	-	-	-
7	Storage techniques	-	-	-	-
8	Household food security	-	-	-	-
9	Organic farming	-	-	-	-
10	Agroforestry management	-	-	-	-
11	Mechanization	-	-	-	-
12	Resource conservation technology	-	-	-	-
13	Value Addition	-	-	-	-
14	Others, pl. specify	-	-	-	-

4.B.6. Technologies assessed under various enterprises for women empowerment :- Nil-

	Thematic areas	Name of enterprise	Name of technology(s)	No. of trials	No. of locations
1	Drudgery Reduction	-	-	-	-
2	Entrepreneurship Development	-	-	-	-
3	Health and Nutrition	-	-	-	-
4	Value Addition	-	-	-	-
5	Women Empowerment	-	-	-	-
6	Others, pl. specify	-	-	-	-
		-	-	-	-

4.C1. Results of Technologies Assessed

Crop/enterprise	Farmin g situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Source of technology	Yield	Unit of yield	Observations other than yield	Gross Return Rs. / unit	Net Return Rs. / unit	BC Ratio (Gross income/ Gross Cost)
1	2	3	4	5	6	7	8	9	10	11	12	13
Paddy	Kharif	Deficiency of magnesium and sulfur in the soil causes reduction in photosynthetic activity leading to the low yield	Effect of Magnesium sulfate on growth and yield of coastal Paddy	5	T.O.1 : Application of FACTAMFOS (20:20:0:13) @ 2 bag/acre, top dressing of DAP @ 1 bag/acre, no application of MgSO4	Farmers Practice	31.8	Qtl	Plant height :97.3 cm	84,222	58,802	2.31
					T.O.2: POP:100% NPK (60:30:60kg/ha) (K nutrition 2 equal split application. One at planting, Second at 55-60DAT,+ZnSO4(20kg/ha)+ soil test based Lime application	UAS, Bangalore	43.8	Qtl.	Plant height :108.1 cm	1,15,502	85,112	2.80
					T.O.3 : 100% NPK (60:30:60kg/ha) (K nutrition 3 equal split application. One at planting, Second at 25-30 DAT, Third at 55-60DAT+ZnSO4(20kg/ha)+ soil test based Lime application + MgSO4 (30 kg/ ha)	KSNUAHS, Shivamogga	49.6	Qtl.	Plant height :108.8 cm	1,30,384	98,224	3.05
Arecanut	Rabi	High soil acidity, unavailability of applied nutrients, phosphate fixation in soils	Effect of dolomite soil conditioner on arecanut yield and soil acidity in coastal soils of Dakshina Kannada	10	T.O.1 : Application of FACTAMFOS (20:20:0:13) or Sufala @ 200-400gm/ palm during June & September	Farmers Practice	-	-	-	-	-	-
					T.O.2 : RDF:100:40:140NPKg/ palm (50%RDF each in June & September), Boron @ 2g/ land FYM-12 kg/palm during August-September, soil test based lime application.	CPCRI	-	-	-	-	-	-
					T.O.3 : RDF: 100:40:140 NPK g/palm (50% RDF each in June & September), Boron @2g/ l, Dolomite @ 500g/ palm and FYM-12 kg / palm during August–September.	KSNUAHS, Shivamogga	-	-	-	-	-	-
Udupi Jasmine	Rabi	Pruning techniques not followed low yield during off season and high incidence of sucking pests	Assessment of pruning time in Udupi Jasmine	05	T.O.1 : Pruning of dead and diseased branches only, INM: Use of ground nut cake and FYM 10 to 20 kg per plant.	Farmers Practice			Under progress			
					T.O.2 : Time of Pruning : November at a height of 50 cm from ground level, INM: (FYM10kg/plant), RDF 120:240:240 N:P2O5:K2O g/ plant in two splits, Foliar spray of micronutrient ZnSO4.25% + MgSO40.5% + FeSO 40.5%	TNAU, Coimbatore						
					T.O.3 : Time of Pruning: Mid December, at a height	ICAR-IIHR, Bengaluru						

					of 90 cm from ground level INM:(FYM10kg/plant) RDF100:150:100N:P2O5:K2Og/plant in 3 split doses		
					T.O.4 : Time of Pruning: January at a height of 60cm from ground level INM:(FYM20kg/plant) RDF 120:240:240 N: P2O5:K2Og/ plant in six splits	UHS, Bagalkot	
Arecanut	Rabi	Low yield due to high incidence of inflorescence die back & button shedding disease (upto 60%)	Assessment of inflorescence die back and button shedding management in arecanut	5	T.O.1 : Untimely and injudicious use of non-recommended fungicides	Farmers Practice	Under progress
					T.O.2 : Application of Carbendazim 63 % +Mancozeb 12% 75WP @ 2g/L-1 of water after opening of female flowers and second spray at 30 days after 1 st spray	KSNUAHS	
					T.O.3 : *Removal and destroying of fully affected inflorescence •Application of propiconazole 25% EC@ 1mlL-1 after opening of female flowers and second spray at 30 days after 1 st spray	CPCRI Kasaragod	
Fisheries		Slow growth of locally available species and non availability of high value, fast growing species which can fetch high price in the local market	Assessment of growth performance of Murrels in coastal farm ponds	6	•Farming Carps: Duration-1 year •Manuring: Std. Protocol •Stocking: @ 1 fish seed/m2 •Feed: Ricebranand GOC@4% of body weight	Farmers practice	Under Progress
					•Farming Carps: Duration-1 year •Manuring: Std. Protocol •Stocking: @ 1 fish seed/m2 •Feed: Rice bran and GOC@4% of body weight	CIFA, Bhubaneshwar	
					•Giant Murrel (Channa marulius) * Duration-1 year •Pond: Earthen and cement cistern •Stocking: @ 1 fish seed/m2 •Feed: Pelleted feed @ 5% of body weight	CIFRI, Barackpore	

4. C2. Feedback on technologies assessed

Name of technology assessed	Useful characters as well as constraints of technology	Socio-economic as well as administrative constraints for its adoption
-	-	-

4.C3. Details of Successfully completed / concluded technology assessment (support with necessary summary of data and photographs)

1. Title of Technology Assessed
2. Performance of the Technology on specific indicators
3. Specific Feedback from farmers
4. Specific Feedback from Extension personnel and other stakeholders
5. Feedback to Research System based on results and feedback received
6. Feedback on usefulness and constraints of technology

4.D1. Results of Technologies Refined : -Nil-

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Refined	Source of technology	Yield	Unit of yield	Observations other than yield	Gross Return Rs. / unit	Net Return Rs. / unit	BC Ratio (Gross income/ Gross Cost)
1	2	3	4	5	6	7	8	9	10	11	12	13
					T.O.1 (Farmers practice)							
					T.O.2							
					T.O.3							

4. D2. Feedback on technologies refined : -Nil-

Name of technology refined	Useful characters as well as constraints of technology	Socio-economic as well as administrative constraints for its adoption

4.D.2. Details of Technologies refined: - Nil-

1. Title of Technology Refined
2. Performance of the Technology on specific indicators
3. Specific Feedback from farmers
4. Specific Feedback from Extension personnel and other stakeholders
5. Feedback to Research System based on results/feedback received
6. Feedback on usefulness and constraints of technology

PART V - FRONTLINE DEMONSTRATIONS

5.A. Summary of FLDs implemented

Sl. No.	Category	Farming Situation	Season	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Area (ha)		Farmers (No.)		Farmers (No.)	
									Proposed	Actual	SC/ST	Others	Small/Marginal	Others
1	Oilseeds	-	-	-	-	-	-	-	-	-	-	-	-	-
2	Pulses	-	-	-	-	-	-	-	-	-	-	-	-	-
3	Cereals	Rainfed	Kharif	Paddy	Sahyadri Panchamukhi	-	Crop Production	Demonstration of Sahyadri Panchamukhi red rice variety for lowlands in Dakshina Kannada	10	10	0	25	20	5
		Rainfed	Kharif	Paddy	Sahyadri Kempumukthi	-	Crop Production	Demonstration of Sahyadri Kempumukthi red rice variety for midlands of Dakshina Kannada	4	4	0	10	10	0
		Rainfed	Kharif	Paddy	-	-	INM	Potassium management in coastal Paddy	2	2	06	04	10	-
		Rainfed	Kharif	Paddy	MO-4	-	IPM	Integrated disease management in Paddy	2	2	-	10	10	-
4	Millets	-	-	-	-	-	-	-	--	-	-	-	-	-
5	Vegetables	Rainfed	Rabi	Okra	Halu Bhendi		ICM	Integrated crop management in Okra	2	2	-	-	10	0
		Rainfed	Rabi	Ridge gourd	Arka Prasanna		ICM	Demonstration of Ridge gourd variety Arka Prasanna	2	2	-	-	10	0
		Rainfed	Rabi	Yard Long bean	Arka Mangala		ICM	Demonstration of high yielding Yard Long Bean	2	2	-	-	10	0

26	Vermicompost	-	-	-	-	-	-	-	-	-	-	-	-	-
27	Sericulture	-	-	-	-	-	-	-	-	-	-	-	-	-
28	Apiculture	-	-	-	-	-	-	-	-	-	-	-	-	-
29	Implements	-	-	-	-	-	-	-	-	-	-	-	-	-
30	Others (specify)	Irrigated	Rabi	Compost	-	-	Organic farming	Demonstration of KSNUAHS compost culture for compost preparation	-	-	0	25	25	0

5.A. 1. Soil fertility status of FLDs plots, if analysed

Sl. No.	Category	Farming Situation	Season and Year	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Season and year	Status of soil			Previous crop grown
										N	P	K	
1	Oilseeds	-	-	-	-	-	-	-	-	-	-	-	-
2	Pulses	-	-	-	-	-	-	-	-	-	-	-	-
3	Cereals	Rainfed	Kharif	Paddy	Sahyadri Panchamukhi	-	Crop Production	Demonstration of Sahyadri Panchamukhi red rice variety for lowlands in Dakshina Kannada	Kharif-2022-23	-	-	-	Fallow land
		Rainfed	Kharif	Paddy	Sahyadri Kempumukt	-	Crop Production	Demonstration of Sahyadri Kempumukthi red rice variety for	Kharif-2022-23				Fallow land

9	Commercial	-	-	-	-	-	-	-	-	-	-	-	-
10	Medicinal and aromatic	-	-	-	-	-	-	-	-	-	-	-	-
11	Fodder	Rainfed	Rabi	Fodder cowpea	African tall and Fodder cowpea		Crop Production	Demonstration of African tall maize intercropped with fodder cowpea	4	0	25	25	0
12	Plantation	Rainfed	Rabi	Areca nut			INM	Management of nut cracking and premature nut fall in Areca nut	Rabi-2022-23	-	-	-	Areca nut
		Rainfed	Rabi	Areca nut			IPM	Integrated management of spindle bug in arecanut	-	-	-	-	Areca nut
		Rainfed	Rabi	Cashew			IPM	Integrated management of stem and root borer in cashew	-	-	-	-	Areca nut
									-				
13	Fibre	-	-	-	-	-	-	-	-	-	-	-	-

5.B. Results of FLDs

5.B.1. Crops

Fruit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Spices and condiments	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Commercial	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fibre crops like cotton	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Medicinal and aromatic	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fodder	Demonstration of African tall maize intercropped with fodder cowpea	-	-	-	20	2	Under progress										
Plantation	Management of nut cracking and premature nut fall in Areca nut	-	-	-	10	2	-	-	-	-	-	-	-	-	-	-	-
	Integrated management of spindle bug in arecanut	-	-	-	10	1	-	-	-	-	-	-	-	-	-	-	-
	Integrated management of stem and root borer in cashew	-	-	-	10	2	-	-	-	-	-	-	-	-	-	-	-
Fibre	Demonstration of KSNUAHS compost culture for compost preparation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Others (Compost Preparation)	Demonstration of KSNUAHS compost culture for compost preparation	-	-	-	25	-	Under progress										

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST

H – Highest Yield, L – Lowest Yield A – Average Yield

Oyster mushroom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Button mushroom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vermicompost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sericulture	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Apiculture	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.

** BCR= Gross Return/Gross Cost

H-High L-Low, A-Average

Data on additional parameters other than yield (viz., additional income realized, employment generation, quantum of farm resources recycled etc.) : Nil

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Local
-	-	-

5. B8. Feedback on enterprises demonstrated: -Nil-

Name of enterprise demonstrated	Useful characters as well as constraints of technology	Socio-economic as well as administrative constraints for its adoption

5.B.9. Farm implements and machinery : -Nil-

Name of the implement	Cost of the implement in Rs.	Name of the technology demonstrated	No. of Demo	Area covered under demo in ha	Name of the operation with unit	Labour requirement in Mandays		% save	Savings in labour (Rs./ha)	*Economics of demonstration (Rs./ha)			*Economics of check (Rs./ha)			
						Demo	Check			Gross Return	Net Return	** BCR	Gross Return	Net Return	** BCR	

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.

** BCR= Gross Return/Gross Cost

Data on additional parameters other than labour saved (viz., reduction in drudgery, time etc.)

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Local

5. B10. Feedback on farm implements demonstrated : Nil

Name of farm implement demonstrated	Useful characters as well as constraints of technology	Socio-economic as well as administrative constraints for its adoption
-	-	-
-	-	-

5.B.6.Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organised	Number of participants	Remarks
1	Field days			
	Agronomy	3	105	-
	Soil Science	-	-	-
	Horticulture	-	-	
	Plant Protection	1	14	Lowest disease incidence with increased yield observed in the demo plots
	Veterinary Science	-	-	-
	Fisheries	2	38	1. Amur field day 2. Pangasius composite culture
		6	157	
2	Farmers Training			
	Agronomy	4	89	-
	Soil Science	02	56	-
	Horticulture	21	1986	CDP programmes
	Plant Protection	03	98	CDP programmes
	Veterinary Science	4	55	-
	Fisheries	09	252	CDP programmes
		43	2536	
3	Media coverage			
	Agronomy	4	-	-
	Soil Science	2	-	-
	Horticulture	2	-	-
	Plant Protection	5	-	-
	Veterinary Science	0	-	-
	Fisheries	2	-	-
		15		
4	Training for extension functionaries			
	Agronomy	-	-	-
	Soil Science	-	-	-
	Horticulture	03	209	

Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vegetable crops	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bottle gourd	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Capsicum	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cucumber	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tomato	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Brinjal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Okra	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potato	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field bean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Commercial crops	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sugarcane	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Coconut	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fodder crops	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maize (Fodder)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sorghum (Fodder)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

H-High L-Low, A-Average

*Please ensure that the name of the hybrid is correct pertaining to the crop specified

Feedback on crop hybrids demonstrated

Name of crop hybrid demonstrated	Useful characters as well as constraints of technology	Socio-economic as well as administrative constraints for its adoption
-	-	-
-	-	-

PART VII. TRAINING

7.A.. Training of Farmers and Farm Women including sponsored training programmes (On campus)

Area of training	No. of	No. of Participants
------------------	--------	---------------------

Entrepreneurial development of farmers/youths	-	-	-	-	-	-	-	-	-	-
Others (pl.specify) Inter institutional Internship training programme (Alva's college)	1	25	14	39	7	2	9	32	16	48
Agro-forestry	-	-	-	-	-	-	-	-	-	-
Production technologies	-	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-	-
Integrated Farming Systems	-	-	-	-	-	-	-	-	-	-
Others (Pl. specify)	1	25	13	38	6	7	13	31	20	51
TOTAL	78	1985	1189	3174	177	125	302	2162	1324	3486

Processing and cooking	-	-	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-
Storage loss minimization techniques	-	-	-	-	-	-	-	-	-	-
Value addition	1	0	40	40	3	7	10	3	47	50
Women empowerment	-	-	-	-	-	-	-	-	-	-
Location specific drudgery production	-	-	-	-	-	-	-	-	-	-
Rural Crafts	-	-	-	-	-	-	-	-	-	-
Women and child care	-	-	-	-	-	-	-	-	-	-
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-
Agril. Engineering	-	-	-	-	-	-	-	-	-	-
Farm machinery and its maintenance	-	-	-	-	-	-	-	-	-	-
Installation and maintenance of micro irrigation systems	-	-	-	-	-	-	-	-	-	-
Use of Plastics in farming practices	-	-	-	-	-	-	-	-	-	-
Production of small tools and implements	-	-	-	-	-	-	-	-	-	-
Repair and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-
Small scale processing and value addition	-	-	-	-	-	-	-	-	-	-
Post Harvest Technology	-	-	-	-	-	-	-	-	-	-
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-
Plant Protection	-	-	-	-	-	-	-	-	-	-
Integrated Pest Management	6	129	21	150	6	-	6	135	21	156
Integrated Disease Management	1	12	-	12	-	-	-	12	-	12
Bio-control of pests and diseases	1	42	13	55	-	-	-	42	13	55
Production of bio control agents and bio pesticides	-	-	-	-	-	-	-	-	-	-
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-
Fisheries	-	-	-	-	-	-	-	-	-	-
Integrated fish farming	-	-	-	-	-	-	-	-	-	-
Carp breeding and hatchery management	-	-	-	-	-	-	-	-	-	-
Carp fry and fingerling rearing	-	-	-	-	-	-	-	-	-	-
Composite fish culture	1	10	0	10	2	0	2	12	0	12

Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-
Mobilization of social capital	-	-	-	-	-	-	-	-	-	-
Entrepreneurial development of farmers/youths	-	-	-	-	-	-	-	-	-	-
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-
Agro-forestry	-	-	-	-	-	-	-	-	-	-
Production technologies	-	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-	-
Integrated Farming Systems	-	-	-	-	-	-	-	-	-	-
Others (Pl. specify)	-	-	-	-	-	-	-	-	-	-
TOTAL	55	1100	461	1561	120	50	170	1220	511	1731

Ornamental fisheries	-	-	-	-	-	-	-	-	-	-
Composite fish culture	-	-	-	-	-	-	-	-	-	-
Freshwater prawn culture	-	-	-	-	-	-	-	-	-	-
Shrimp farming	-	-	-	-	-	-	-	-	-	-
Pearl culture	-	-	-	-	-	-	-	-	-	-
Cold water fisheries	-	-	-	-	-	-	-	-	-	-
Fish harvest and processing technology	-	-	-	-	-	-	-	-	-	-
Fry and fingerling rearing	-	-	-	-	-	-	-	-	-	-
Any other (Nutri garden)	1	1	2	3	18	35	53	19	37	56
TOTAL	1	1	2	3	18	35	53	19	37	56

7.E.Training programmes for Extension Personnel including sponsored training programmes (on campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops	1	9	-	9	-	-	-	9	-	9
Integrated Pest Management	-	-	-	-	-	-	-	-	-	-
Integrated Nutrient management	-	-	-	-	-	-	-	-	-	-
Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-
Protected cultivation technology	-	-	-	-	-	-	-	-	-	-
Production and use of organic inputs	-	-	-	-	-	-	-	-	-	-
Care and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-
Women and Child care	-	-	-	-	-	-	-	-	-	-
Low cost and nutrient efficient diet designing	-	-	-	-	-	-	-	-	-	-
Group Dynamics and farmers organization	-	-	-	-	-	-	-	-	-	-
Information networking among farmers	-	-	-	-	-	-	-	-	-	-
Capacity building for ICT application	1	63	14	77	16	10	26	79	24	103
Management in farm animals	-	-	-	-	-	-	-	-	-	-
Livestock feed and fodder production	-	-	-	-	-	-	-	-	-	-
Household food security	-	-	-	-	-	-	-	-	-	-
Any other (DOF-Sagar Miras)	1	32	18	50	15	5	20	47	23	70
Total	3	104	32	136	31	15	46	135	47	182

7.F. Training programmes for Extension Personnel including sponsored training programmes (off campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops	-	-	-	-	-	-	-	-	-	-
Integrated Pest Management	-	-	-	-	-	-	-	-	-	-
Integrated Nutrient management	-	-	-	-	-	-	-	-	-	-
Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-
Protected cultivation technology	1	32	156	188	-	-	-	32	156	188
Production and use of organic inputs	-	-	-	-	-	-	-	-	-	-
Care and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-
Women and Child care	-	-	-	-	-	-	-	-	-	-
Low cost and nutrient efficient diet designing	-	-	-	-	-	-	-	-	-	-
Group Dynamics and farmers organization	-	-	-	-	-	-	-	-	-	-
Information networking among farmers	-	-	-	-	-	-	-	-	-	-
Capacity building for ICT application	-	-	-	-	-	-	-	-	-	-
Management in farm animals	-	-	-	-	-	-	-	-	-	-
Livestock feed and fodder production	-	-	-	-	-	-	-	-	-	-
Household food security	-	-	-	-	-	-	-	-	-	-
Any other (pl.specify)	-	-	-	-	-	-	-	-	-	-
Total	1	32	156	188	-	-	-	32	156	188

7.G. Sponsored training programmes conducted

S.No.	Area of training	No. of Courses	No. of Participants									
			General			SC/ST			Grand Total			
			Male	Female	Total	Male	Female	Total	Male	Female	Total	
1	Crop production and management											
1.a.	Increasing production and productivity of crops (FPO, CDB)	11	269	110	379	16	10	26	285	120	405	
1.b.	Commercial production of vegetables	-	-	-	-	-	-	-	-	-	-	
2	Production and value addition											
2.a.	Fruit Plants	-	-	-	-	-	-	-	-	-	-	
2.b.	Ornamental plants	-	-	-	-	-	-	-	-	-	-	
2.c.	Spices crops	-	-	-	-	-	-	-	-	-	-	
3.	Soil health and fertility management											
4	Production of Inputs at site											
5	Methods of protective cultivation											
6	Others (pl.specify)											
7	Post harvest technology and value addition											
7.a.	Processing and value addition-ICM In coconut (CDB)	1	1	2	3	18	35	53	19	37	56	
7.b.	Others (pl.specify)	-	-	-	-	-	-	-	-	-	-	
8	Farm machinery											
8.a.	Farm machinery, tools and implements	-	-	-	-	-	-	-	-	-	-	
8.b.	Others (pl.specify)	-	-	-	-	-	-	-	-	-	-	
9.	Livestock and fisheries (Sagar Mithras)	1	32	18	50	16	5	21	48	23	71	
10	Livestock production and management	4	130	44	174	35	12	47	165	56	221	
10.a.	Animal Nutrition Management	-	-	-	-	-	-	-	-	-	-	
10.b.	Animal Disease Management	-	-	-	-	-	-	-	-	-	-	
10.c.	Fisheries Nutrition	-	-	-	-	-	-	-	-	-	-	
10.d.	Fisheries Management	-	-	-	-	-	-	-	-	-	-	
10.e.	Others (pl.specify)	-	-	-	-	-	-	-	-	-	-	
11.	Home Science											
11.a.	Household nutritional security	-	-	-	-	-	-	-	-	-	-	
11.b.	Economic empowerment of women	-	-	-	-	-	-	-	-	-	-	
11.c.	Drudgery reduction of women	-	-	-	-	-	-	-	-	-	-	
11.d.	Others (pl.specify)	-	-	-	-	-	-	-	-	-	-	
12	Agricultural Extension											
12.a.	Capacity Building and Group Dynamics FOCT –Palm climbing training programme	1	14	0	14	3	1	4	17	1	18	
12.b.	Others (pl.specify)	-	-	-	-	-	-	-	-	-	-	
	Total	18	446	174	620	88	63	151	534	237	771	

Details of sponsoring agencies involved

1. FPO (Sponsored by Department of Horticulture)
2. Department of Fisheries, Govt. of Karnataka
3. Ministry of Fisheries & Dairying

PART VIII – EXTENSION ACTIVITIES**8.1. Extension Programmes (including extension activities undertaken in FLD programmes)**

Nature of Extension Programme	No. of Programmes	No. of Participants (General)			No. of Participants SC / ST			No. of extension personnel		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Advisory services	1062	673	170	843	102	68	170	30	19	49
Farmers visit to KVKs	1326	927	89	1016	175	65	240	55	15	70
Lectures delivered as resource persons	133	4578	906	5484	450	146	596	630	264	894
Diagnostic Visits	70	148	70	210	75	15	90	30	14	44
Field Days	7	190	40	230	23	17	40	28	7	35
Group discussions/ meetings	71	1304	532	1836	25	10	35	220	81	301
Kisan Gosthies	1	15	3	18	4	2	6	6	2	8
Film Shows	15	300	150	450	-	-	-	30	20	50
Self help group meetings	-	-	-	-	-	-	-	-	-	-
Mahila mandals meetings	-	-	-	-	-	-	-	-	-	-
Kisan Melas	10	4503	794	5297	22	15	37	40	20	60
Exhibitions	7	1768	442	2210	54	14	68	35	28	66
Scientist visit to farmers fields	251	1002	130	1132	24	8	32	35	17	52
Soil health camps	-	-	-	-	-	-	-	-	-	-
Animal health camps	2	10	3	13	-	-	-	3	-	3
Plant health camps	-	-	-	-	-	-	-	-	-	-
Farm Science Club meetings	7	589	105	694	-	-	-	90	50	140
Ex-trainees Sammelans	-	-	-	-	-	-	-	-	-	-
Farmers seminars	-	-	-	-	-	-	-	-	-	-
Workshops	5	166	96	262	10	9	19	40	30	70
Method Demonstrations	62	1576	60	1636	150	90	240	35	10	45
Celebration of important days	6	298	4	302	4	-	4	10	4	14
Special day celebrations	14	778	157	935	15	8	23	200	24	224
Exposure visits	5	143	61	204	-	-	-	5	3	8
Others, Please specify										
Awareness programmes	11	450	109	559	-	-	-	150	40	190
Live telecast programmes facilitated to farmers	3	199	25	222	-	-	-	36	6	42
Total	3068	19617	3946	23553	1133	467	1600	1708	654	2365

8.2 Other extension activities like print and electronic media etc.

Sl. No.	Type of media/activity	Number of activities/Number
1	Popular articles	5
2	Newspaper coverage	37
3	Extension Literature	8
4	Radio Talks	6
5	TV Talks	6
6	CD/DVD/Video clips	3
7	Animal health camps (no. of animal treated)	2 (75)
8	Others, please specify	-
	Total	61(75)

PART IX – PRODUCTION OF SEED, PLANT AND LIVESTOCK MATERIAL

9.A. Production of seeds by the KVKs

Crop category	Name of the crop	Name of the Variety	Quantity of seed (q)	Value (Rs)	Number of farmers to whom provided
Cereals (crop wise)	Paddy	MO4	7.86	31440.00	33
	Paddy (Bulk)	MO4 + Kempu Mukthi	20.60	33630.00	-
	Greengram	-	0.37	4070.00	1
Oilseeds	-	-	-	-	-
Pulses	-	-	-	-	-
Commercial crops	-	-	-	-	-
Vegetables	Bhendi	Local	0.003	360.00	
Flower crops	-	-	-	-	-
Spices	-	-	-	-	-
Fodder crop seeds	-	-	-	-	-
Fiber crops	-	-	-	-	-
Forest Species	-	-	-	-	-
Others (specify)	Green Manure	Sunhemp Seeds	0.09	720.00	5
		Dhaincha Seeds	0.03	240.00	2
Total				69140.00	56

9.B. Production of hybrid seeds by the KVKs : Nil

Crop category	Name of crop	Name of the hybrid	Quantity of seed (q)	Value (Rs)	Number of farmers to whom provided
-	-	-	-	-	-
-	-	-	-	-	-
Total	-	-	-	-	-

9.C. Production of planting material by the KVKs

Crop category	Name of the crop	Variety	Number	Value (Rs.)	Number of farmers to whom provided
Commercial	-	-	-	-	-
Vegetable seedlings	-	-	-	-	-
Fruits	Papaya	Arka Prabhat	50	1000	5
Ornamental plants	-	-	-	-	-
Medicinal and Aromatic	-	-	-	-	-
Plantation	-	-	-	-	-
Spices	-	-	-	-	-
Tuber	-	-	-	-	-
Fodder crop saplings	Fodder cuttings	CO-4	400	1200	6
Forest Species	-	-	-	-	-
Others(specify)	-	-	-	-	-
Total	-		450	2200	

9.D. Production of hybrid planting materials by the KVKs : - Nil-

Crop category	Name of crop	Name of the hybrid	Quantity of seed (q)	Value (Rs)	Number of farmers to whom provided
-	-	-	-	-	-
-	-	-	-	-	-
Total	-	-	-	-	-

9.C. Production of Bio-Products

	Name of the bio-product	Quantity (q)	Value (Rs.)	Number of farmers to whom provided
Bio Products				
Bio Fertilizers	-	-	-	-
Bio-pesticide	-	-	-	-
Bio-fungicide	-	-	-	-
Bio Agents	-	-	-	-
Others (specify)	Earth worms	0.0340	2210.00	6
	Vermi Compost	15.77	29365.00	64
	FYM	89 CFT	6675.00	5
Total			38250.00	75

9.D. Production of livestock

Particulars of Livestock	Name of the breed	Number	Value (Rs.)	Number of farmers to whom provided
Dairy animals				
Cows	-	-	-	-
Buffaloes	-	-	-	-
Calves	-	-	-	-
Others (Pl. specify)	-	-	-	-
Poultry	Swarnadhar Poultry	1726	213009.00	117
Broilers	-	-	-	-
Layers	-	-	-	-
Duals (broiler and layer)	-	-	-	-
Japanese Quail	-	-	-	-
Turkey	-	-	-	-
Emu	-	-	-	-
Ducks	-	-	-	-
Others (Pl. specify)	-	-	-	-
Piggery	-	-	-	-
Piglet	-	-	-	-
Others (Pl. specify)	-	-	-	-
Fisheries	-	-	-	-
Fingerlings	-	-	-	-
Others (Pl. specify)	-	-	-	-
Total				

PART X – PUBLICATIONS, SUCCESS STORY, INNOVATIVE METHODOLOGY, ITK, TECHNOLOGY WEEK

10. A. Literature Developed/Published (with full title, author & reference)

(i) KVK Newsletter: 3

Date of start: January 2022 to June 2022 English & Kannada Version Periodicity: 40 Copies printed in each issue:1

Date of start: July 2022 to September 2022 English & Kannada Version Periodicity: 40 Copies printed in each issue:2

Date of start: October 2022 to December 2022 English & Kannada Version Periodicity: 40 Copies printed in each issue:3

(ii) Summary of Literature developed/published

Item	Number
Research papers- International	-
Research papers- National	2
Technical reports	10
Technical bulletins	-
Popular articles - English	-
Popular articles – Local language	4
Extension literature	4
Others if any	-

(iii) Details of Literature developed/published

Please provide the details of above publication in the following format:

1. Research articles in journals: Complete citation indicating authors, year of publication, title of publication, journal name, volume and page number in sequence.

Example:

Dagar J C, Tomar O S, Minhas P S and Kumar M, (2013) Lemon grass productivity as affected by salinity of irrigation water, planting methods and fertilizer doses on a calcareous soil in a semi-arid region of northwest India. *Indian Journal of Agricultural Sciences*, 83(7): 734-738.

2. Technical Reports/ bulletins: Authors name, Title of the technical report, name of publishing KVK, number of pages.

Example:

Abrol I P, Dargan K S and Bhumbla D R, (1973) Reclaiming Alkali Soils, Bulletin No. 2, Central Soil Salinity Research Institute, Karnal, 58p.

3. Popular articles: Authors name, Title of the article, date of publication, Name of the newspaper/magazine, page no.

Example:

Santhosh H M and Ashok P, (2021) Drip irrigation system and its management, *Krishi Kamadenu*,14(2):35-39.

Authors Name	Title of the article	Date of Publication	Name of the Newspaper/Magazine	Page no.
Dr. Naveen Kumar B.T., Dr. T.J. Ramesha, Dr. Mallikarjuna	Sahyadri Panchamukhi Bhatthda Taliya Bhageratha-Dayananda Kulal, Delantha Bettu	June 2023	Krishi Vigyan, UAS Bengaluru	No. 46/29-31,2
Dr. Rashmi R, Dr. T.J. Ramesha	Krishiyalli Raithopayogi Apps	June 2022	Krishi Bhimbha	21(5):20-22
Dr. Kedarnath	Importance of Trichoderma for Disease Management	December-2022	Krishi & Aahara	04(12) 462-463
Dr. Kedarnath	Leaf spot management in Arecanut	December-2022	Krishi & Aahara	04(12) 462-463

4. Extension literature; Authors name, month and year of publication, Title of extension literature like folders, pamphlets etc., name of publishing KVK, number of pages.

Example:

Ravi K and Shankar R, (2021) Sodic soil reclamation, No. 20, KVK Koppel, 4p.

Authors name	Month and year of publication	Title of extension literature like folders	Pamphlets etc	Name of publishing KVK	Number of pages
Dr. Kedarnath, Dr. T.J. Ramesha, Dr. Rashmi R.,& Dr. Mallikarjuna L.	10.01.2022	ICM in Coconut	-	KVK, Dakshina Kannada	4
Dr. Rashmi R., Dr. T.J. Ramesha, Dr. Kedarnath, Dr. Chethan N.,Dr. Naveen Kumar B.T., Dr. Mallikarjuna L.,	30.04.2022	Vyijanika tegina krishiya tantrajyanagalu	-	KVK, Dakshina Kannada	4
Dr. Kedarnath, Dr. T.J. Ramesha	19.07.2022	African Basavan huluvina nervahane	-	KVK, Dakshina Kannada	4
Dr. Kedarnath, Dr. T.J. Ramesha,	26.09.2022	Bhathadalli kolave huluvina Samagara nervahane	-	KVK, Dakshina Kannada	4
Dr. Kedarnath, Dr. T.J. Ramesha,	27.09.2022	Bhathdalli tene tiganne huluvina nervane	-	KVK, Dakshina Kannada	4
Dr. Kedarnath, Dr. T.J. Ramesha, Dr. Rashmi R.,& Dr. Veveke Uppara, Dr. Sidhike, Shri Shesheer	01.11.2022	Adikeyalli Kole roga mattu ele chukke rogada nervajane	-	KVK, Dakshina Kannada	4

10.B. Details of Electronic Media Produced

S. No.	Type of media	Title	Details
1	CD / DVD	-	
2	Mobile Apps	-	
3	Social media groups with KVK as Admin	1. KVK Dakshina Kannada Raithabandu 2. Fish farmers United 3. Kalyana foundation 4. Mangaluru krishika samaja 5. Plant protection 6. Krishika samaja 7. ICM in pepper 8. INT crop management in pepper 9. African snail management 10. DAESI-III 11. DAESI-IV 12. DAESI-V 13. Navachetana FPo 14. Pingara FPO 15. Aladanangadi FPO 16. Raitha janya FPO 17. ICM Bhendi	Farming community is linked through whatsapp groups with routine sharing of information by the farmers and scientific guidance by scientists of KVK.
4	Facebook account name	kvkdakshinakannada	Farming community is linked through Facebook groups with routine sharing of information by the farmers and scientific guidance by scientists of KVK.
5	Instagram account name	-	-
6	Others if any- Youtube	kvkdakshinakannada	-

10.C. Success Stories / Case studies, if any (two/three-pages write-up on each case with suitable action photographs. The Success Stories / Case Studies need not be restricted to the reporting period).

This will be considered only with suitable photos for further reporting/reference.

Success Stories-1

Impact of Flood Resistant Red Rice Variety – Sahyadri Panchamukhi on Socio-Economic status of Coastal Farmers of Karnataka

Background:

In Dakshina Kannada, paddy is a major staple food crop mainly grown during kharif in medium and low laying fields. Area under paddy cultivation in the district has gone up by 8-10 % during this kharif season due to some farmers who had left their paddy fields fallow returning to farming and some youths who were working in cities and towns elsewhere returning to the roots of their family farming due to the COVID-19 situation. During 2021-22 the area under paddy shot up by 10000 hectares to 12000 hectares in Dakshina Kannada. In coastal Karnataka more priority has been paid towards cultivation of indigenous red paddy varieties. But these varieties are tall with lodging problem, does not respond to fertilizer and provide lesser yields. Generally, paddy varieties such as MO4 and indigenous variety-Kajejaya have been cultivated in large area even with a weeklong flood situation resulting in less production. During July to October paddy growers in coastal Karnataka (Dakshina Kannada) face frequently more number of floods and out of 12248 ha total paddy area, more than 1500 ha of paddy land that inundates with flood for long duration creating unfavourable situation for paddy cultivation and resulting in low production.

Intervention:

ICAR-Krishi Vigyan Kendra, Dakshina Kannada has introduced flood resistant red rice variety-Sahyadri Panchamukhi released by ZAHRS, Brahmavar during 2019. The variety has features like high yielding potential with cultivation period of 130-135 days and can withstand flood for 10-12 days with tolerance to blast disease and gall midge insect pest, biotic and abiotic stress and high consumer preference due to better taste and aroma as well as high palatability of fodder.

Process:

Frontline demonstrations (FLDs) were conducted for 3 consecutive years during kharif season 2020-21 to 2022-23 at farmer's fields of Dakshina Kannada districts to validate impact of FLD on flood resistant red rice variety – Sahyadri Panchamukhi for low lands across the district. 3 FLDs were taken at randomly selected farmer's fields in Mangaluru, Bantawala, Mulki-Moodabidre taluks. Each demonstration size was 0.40 ha, 12 capacity building programmes were organized at different villages of Dakshina Kannada benefiting 267 farmers and 6.25 quintals of truthful labelled paddy seed as critical input was provided to motivate the farmers for adoption of new variety covering an area of 25 acre. The activities were also covered in Medias such as DD Chandana TV channel, All India Radio, local newspapers, folders, popular article for popularization of the variety.

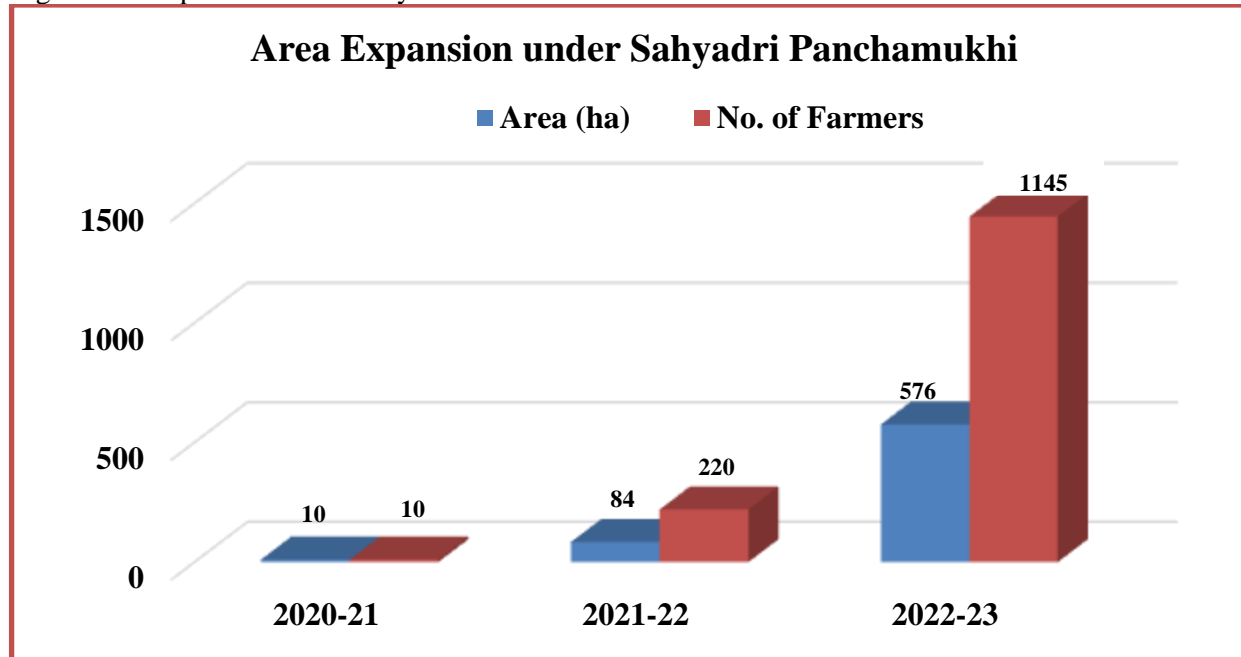
Technology:

The farmers are trained skill and knowledge on improved production technologies of paddy such as Nursery Management, INM, IPDM, seed production and marketing skills.

Impact:

During the period from 2020 to 2022, KVK organized 3 FLDs, 2 seed production activity and seed source (290 quintals) link connection to different line departments, NGOs, farmers group resulted an area expansion of 576 ha across the district with a production of 28800 quintals and increase in productivity from 18 to 20%. The total additional returns gained in the district is Rs. 891 Lakhs due to varietal replacement (Fig 1).

Fig 1: Area expansion under Sahyadri Panchamukhi in the district



Economic gains:

Front Line Demonstrations on flood resistant red rice variety Sahyadri Panchamukhi contributed 36.84 % higher yield and 45.63 % higher net returns than farmer's practice.

Photos



Capacity development programme for farmers



Field visit to FLD demo plot on Sahyadri Panchamukhi for flood prone paddy field



Celebration of Field Day on Sahyadri Panchamukhi red rice variety

Success Stories-2

Impact of Friends of Coconut Tree (FoCT) training

Background:

Majority of the coconut growers in the Dakshina Kannada district were facing the problems of shortage of skilled labour for coconut harvesting. Also, growers were losing good quality nuts and price in the market. The traditional method of harvesting the nuts i.e., physically climbing the tall trees is quite risky and accident prone. Now days, tree climbers were a rarity in coconut growing states of Kerala, Karnataka, Tamil Nadu, and Andhra Pradesh and very few are taking it as the traditional profession. The consistent supply of raw nuts for the market as well as for the processing sector could be ensured by regular harvesting schedule. In many areas, farmers were forced to take the help from floating labourers, who charged higher cost, despite not being familiar with the art of coconut climbing. The security of labour disrupts harvesting cycle's, thus causing loss of income to the growers.

Intervention:

ICAR-Krishi Vigyan Kendra, Dakshina Kannada has conducted skill training Programme on Friends of CoconutTree (FOCT) in collaboration with Coconut Development Board. This training was conducted to a group of unemployed youths in developing their technical skills for harvesting of coconuts, to mitigate the problem of non-availability of coconut tree climbers for coconut harvesting.

Process:

The traditional method of harvesting the nuts i.e., climbing the tall trees was quite risky and accident prone, farmers were forced to take the help from floating labourers, who charge higher cost. To overcome this problem, Krishi Vigyan Kendra, Dakshina Kannada has conducted skill training Programme on FoCT. Total 08 training programmes were conducted for 160 rural youths.

Technology:

The trainees gained skill and knowledge on Coconut production technologies i.e., Tree climbing, Planting methods, Nursery Management, Cultivation practices, INM, IPDM, Pre and Post-Harvest technologies, Value addition, marketing, Safety measures, First AID and Insurance schemes.

Impact:**Horizontal spread:**

The technology used by the farmers worked well with the guidance of ICAR-KVK Dakshina Kannada. KVK has trained 160 rural youths under FoCT skill training programs, after acquiring the skills from training Programme, like minded trainees formed groups and totally engaged in harvesting the nuts through coconut climber in the neighbouring fields and villages. More than 50 number of trainee's have taken coconut climbing activity as their source of income. Hence earning Rs. 19000 to 24000 per month/person. They have also trained more than 560 rural youths.

Economic gains:

In many areas, farmers are forced to seek help from migrant labourers, who charge exorbitant amounts, despite not being familiar with the art of coconut climbing. The scarcity of labour disrupts harvesting cycle's thus causing loss of income to the growers. As against the general norm of harvesting cycles of 45-60 days, farmers are currently able to harvest only once in three to four months. The quality of nuts was reducing to 20-30 % due to improper harvesting. After obtaining training, rural youths for climbing and harvesting nuts for each coconut tree they are charging Rs.35/- per tree and on an average, they climbs about 50-80 trees in a day earning Rs. 1750-2800 per day. Likewise in a month around 20 days they are involved in coconut tree climbing activity. and Earn Rs. 35,000 to 98,000 per month (Table 1.).

This was mainly due to use of advanced method of climber leads easy to climb the tree, without any life accidental risk by using coconut climber over other method of harvesting of coconuts, whereas, manually climbing the tall trees, experienced body pain, muscles catch and with lot of risk while climbing and very difficult to meet out financial needs of a family with meager earnings. 50-60 per cent increase in income with an average of Rs.4.8 to 6.0 lakhs per year with advanced method and Rs.1.6 to 2.5 lakhs per year with traditional method.

Employment Generation:

Six rural youths have become Master trainers and entrepreneur with a happy family. In addition, they started teaching persons rural youths who are engaged in coconut harvesting activities and have succeeded in turning 10-15 rural youths into professional coconut climbers. Life story of coconut climbers has inspired many youths within the district. They dealt their life in a challenging manner from being a rural unemployed youths. They hire youths to work with them and teaches whatever skills they have learned from KVK Dakshina Kannada. Many youths became a bread earner in the family under their influence. They became a role model for youths within Mangalore areas. Success story was broadcasted in many TV programmes. As a result of this mass awareness has been created among the rural youths and at present they are approaching KVK for enrolment to the skilled training programme as it is promised for sustainable livelihood.

Table 1: Average number of nuts/tree harvested and income generation by different methods

With traditional method	With advanced method	Traditional method i.e., physical tree climbing (Rs/year)	Advanced method (Rs/year)
No. of trees / day	No. of trees / day		
20-30	50-80	168000-252000	420000-6,72000

Photos**FoCT skill training programs**

Success Stories-3

Eco-Friendly Pest Management in Organic Paddy at Dakshina Kannada

Background:

Rice is the most significant *Kharif* crop of Dakshina Kannada district of Karnataka State, cultivated over an area of 12,628 ha with an average production of 35,612 tonnes during 2020-21. The cultivation of paddy organically was very limited and was confined only to the few hectares in the district due to high incidence of pest and diseases and causes reduction in yield loss up to 25- 30% per cent. Organic farming is one of the several approaches found to meet the objectives of sustainable agriculture.

Intervention by KVK Dakshina Kannada:

For the purpose of enhancing the productivity of paddy under organic farming, Krishi Vigyan Kendra-Dakshina Kannada conducted frontline demonstrations under action plan 2019-20 to 2021-22 in the district. In these demonstrations, the recommended production technologies of this area with more emphasis was given to proper seed rate, spacing, application farm yard manures @ 4 tonnes during land preparation, seed treatment with *Pseudomonas fluorescens* @ 10 g kg⁻¹ followed by foliar application of *P. fluorescens* @ 5 gram L⁻¹ at 21 days after transplanting, clipping of seedling tips before transplanting to eliminate egg masses of yellow stem borer and thrips, release of *Trichogramma japonicum* egg cards thrice on 37, 44 and 51 DAT @ 1,25,000 egg parasitoides ha⁻¹, need based application of neem oil, installation of pheromone trap @ 10-12 per acre to monitor the yellow stem borer infestation and need based application of neem oil 5 ml L⁻¹. To enhance the skills of the farmers organised capacity development programme on nursery management, integrated nutrient management, integrated pest and diseases management and also on marketing of the produce and extension literature was extensively distributed for the benefit of the farming community.

Output: KVK Dakshina Kannada has given major thrust on organic farming by continuously increasing area under frontline demonstrations. The area for conducting frontline demonstrations on eco-friendly pest management in paddy has increased from 5 acres in 2019-20 to 20 acres in 2021-22. In 2019 only 5 farmers were covered under frontline demonstrations but in the subsequent years their number rose to 20 till 2021-22. This increase in area as well as farmers' coverage triggered the further dissemination of the technology in the district. The performance of technology demonstrated was in comparison to traditional management practices for rice cultivation is presented in the table 1.

Table. 1: Performance of eco-friendly pest management technologies in yield of paddy

Parameter	2019-20		2020-21		2021-22	
	Demo	Check	Demo	Check	Demo	Check
Grain Yield (q ha⁻¹)	42.22	37.10	42.58	33.86	51.00	44.00
Net Returns (Rs ha⁻¹)	58613	49107	59285	43055	61502	50756
B: C Ratio	2.41	2.01	2.44	1.77	2.97	2.55

Field days on ecofriendly pest management in paddy were organized at the harvesting stage of the crop. In field days, farmers of the village where demonstration was laid as well as the neighbouring villages participated. Follow up of the activities revealed that not only farmers of the villages where FLDs were laid are adopting the technologies, but the farmers of the surrounding villages of demonstration area have also adopted the technology. This was further proved from the fact that KVK scientists received numerous Kissan calls from farmers about eco-friendly pest management practices suitable for their area.

Outcome:

The area under eco-friendly pest management has been increased from 5 to 20 acres from 2019 to 2021. Eco-friendly pest management practices enhanced the yield in demo plots by 18.12 % over farmers practices and also reduced the overall pest incidence by 54.63 per cent as compared to traditional methods practiced by the farmers. Also got an additional income of 25.52 per cent as a net profit from the technology demonstrated.

Impact:

The efforts of the KVK helped the organic paddy growers of Dakshina Kannada district to realize more yield per unit area. The average productivity increased from 38.32 q ha⁻¹ to 45.26 q ha⁻¹. The additional yield of 6.94 q ha⁻¹ helped the farmers to gain Rs.12161 ha⁻¹.

Success Stories-4

Composite fish culture in farm ponds- a new dimension for inland aquaculture in the coastal district

Background:

Dakshina Kannada is predominantly a marine fish production district with annual production of 1.8 lakh metric ton. Majority of the population in the district are marine fish consumers due to its easy availability. Due to which the interest towards the freshwater aquaculture was minimal. Mr. Devaraj Kotian, a small farmer from the remote village, Panipila, Mudabidri, Dakshina Kannada, a coastal district of Karnataka. He is an active grower of arecanut and paddy cultivation with 2.2 acres of agricultural land and a small farm pond of 500m² area to support the cultivation. Mr. Devaraj Kotian and family being the regular marine fish consumers, the availability of freshwater fish in the vicinity was observed and had a zeal to culture the fish in his farm pond. Catla and Common carp fry was procured from the nearby district seed production centre and stocked. The lack of knowledge on the fish farming with scientific stocking density, feeding rate, pond preparation etc. resulted the yield of 1.26 tonnes/acre, which is below the profitable economic gain. But the increased zeal for improving and correcting the mistakes made the farmer to reach Krishi Vigyan Kendra, Dakshina Kannada.

Intervention:

Mr. Devaraj Kotian got trained at KVK, Dakshina Kannada gained more knowledge and interest on freshwater aquaculture and sought the KVK intervention. Dr. Chethan N., Fisheries Scientist analysed the problems faced during the culture and awareness on scientific farming was created in the village with group discussions and village level capacity development programmes. Majority of the farm ponds in the district are plastic lined as the water retention by the soil in this locality is very poor. The addition of soil to the bottom, securing the pond with fence, covering the pond with nets to avoid birds etc. were adopted. Majority of the farm pond owners of the village expressed the interest in fish farming. Hence, a Frontline demonstration on “*Composite fish culture of carps with Pungasius*” was carried out in his farm pond in the year 2020. Pungasius is a fast growing, hardy and bottom feeder which will reduce the organic load at the bottom. Pond preparation, liming, fertilizing the pond water was demonstrated prior to stocking of quality fish fingerlings. A standard ratio 2:2:1:5 of Catla, Rohu, Common carp and Pungasius respectively was followed. Conventional feeding was used in this demonstration comprising 1:1 wheat or rice bran and groundnut oil cake @ 5% of the bodyweight for the initial month and reduced to 4% of the body weight from the 2nd month onwards.

Impact:

After the 10 months of the culture duration, Mr. Devaraj Kotian harvested the fish with a yield of 3.35 tonnes/ acre with a net income of 1.96 lakhs/ acre. The *pungasius* fish grew to a size range of 1.4 to 2.9 kgs. The carps- catla, rohu and common carp had a mean growth of 0.84 kg. The subsequent year, 2021-22 also resulted a good yield of 3.67 tonnes/ acre with a net income of 2.13 lakhs/ acre. The scientific farming practices like water quality maintenance, proper feeding rate, water exchange, chemical free culture, disease management and most importantly stocking density and stocking size of the fish fingerlings resulted in the success of the farming. Innovative marketing strategy was used with advertisements in the social media about fresh, live and chemical free fish for sale on site. Apart from locals, people from nearby towns visited the site to get the freshwater live fish, which made the demand for the fish and the price go high.

The success was published in various media and press resulted in visit by many farmers in and around the district. Farmers with practical exposure to the site adopted the technology from 2021 and the interest for fresh water aquaculture in farm ponds is increasing over the period. Apart from arecanut, paddy and fish farming, Mr. Devaraj Kotian started the back yard poultry rearing with Swarnadhara birds (Developed by KVAFSU, Bidar). The marketing of fish and poultry is birds are coincided and the demand for the both is increasing. 187 number of farmers visited the demonstration site in 2020-21 and 134 in 2021-22. KVK is demonstrating the similar technologies in various parts of the district to increase the sustainable use of farm ponds and to increase the inland freshwater fish farming. Youth in the Mudabidri taluka after the capacity development programmes by the KVK are increasing the farm ponds in the available land for fish farming and now the lack of availability of freshwater fish in the vicinity has been eradicated by the increasing culture systems in the district. Mr. Devaraj Kotian and his two sons are now inclined more towards the fish farming with the success rate and have created fish ponds in the available land for increasing the production and experimenting the new species under the guidance of KVK, Dakshina Kannada.



Live fish marketing by Mr. Devaraj Kotian at farm

10.D. Give details of Innovative Methodology or Innovative Approach of Transfer of Technology developed and used during the year

10.E. Give details of Indigenous Technical Knowledge practiced by the farmers in the KVK operational area which can be considered for technology development (in detail with suitable photographs)

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK	Scientific Rationale
1	Paddy	Spray of 50 kgs ash for 1 acre paddy field	Leaf worm control	-
2		Filling up of nekkare plant leaf to the hole of paddy bund	Monitoring of crab menace	-
Arecanut		Spray of 5ml of neem oil to plant	Yellow leaf management	-
4		Application of 0.5 kgs salt to the crown part of the plant	Management of Mundusiri Disease and Suli insect	-
5		Application of 200 litre bordaeux mixture with 200 grams snakes residing place mud	-	-
6	Coconut	Spray of 1 ltr cow urine and application of 1 kg ash	Management of Koleroga	-
7		Application of 150 grams of salt and 200 grams of sand to affected suli part	For emerging of new leaves	-
8	Cashew	Lime application around the stem of plant	Control the disease of stem	-
9	Rubber	Apply 100 grams clay soil as band	To avoid drying of coconut band during summer	-

10		Mixing of 50-100grams of snake resident soil and apply below the band of coconut	To overcome the injury of damage during tapping and provide cooling effect to tapping part during summer.	-
11		Application of paste Ingredients Custard apple leaf,Neem leaf,Jeerige pepper Preparation of paste Grind custard leaf,ekka male,neem leaf and jeerige pepper and soak in water for 7 days and apply 200 grams and tie white cloth over it	.To receive milk	-
12	Jasmine	Addition of 250 grams of tobacco leaves to 1 litre water and leave for 1 day	To control worm menace	-
13	Vegetable	Spray of mixture prepared from 4 litre of cow urine , 200 grams of turmeric	Control of leaf eater insect	-
14		Broadcasting of 300 grams of ash over vegetables	Bambuchchi Control	-
15		Soak 25 grams of garlic in 1 ltr of water for a day and spray	Worms control	-
16		Releasing of 15 ants to cowpea	Louse control in cowpea	-
17	Cow	Mix turmeric with honey bee and prepare 200 grams paste and apply to udder	Management of Kechchalu Baavu	-
18		Apply 50 grams of aloe vera juice to udder	-	-
19		Spray 6 buckets water to udder	-	-
20		Preparing paste through adding of 6 tea spoon gingely oil with 50 grams turmeric Boil and apply the paste on udder.	-	-
21		Mix 25 grams pepper powder with 4 tea spoon honey bee and feed the animal	Cold and Fever	-
22		Feeding the calf with 5-6 tulsi leaves and pinch of salt in emty stomach	Worms control in calves	-
23		Mixing ginger,garlic,salt and pepper and feeding 50 grams to the cattle	Cough and Fever	-
24	Poultry	Feeding the crushed garlic to poultry	Cough control	-
25	Goat	Feeding 100ml of ajwain leaves	Stomach swelling and control of stool	-

10 F. Technology Week celebration:

Period of observing Technology Week: From _____ to _____
 Total number of farmers visited : _____
 Total number of agencies involved : _____
 Number of demonstrations visited by the farmers within KVK campus : _____

Other Details

Types of Activities	No. of Activities	Number of Farmers	Related crop/livestock technology
Gosthies	-	-	-
Lectures organized	-	-	-
Exhibition	-	-	-
Film show	-	-	-
Fair	-	-	-
Farm Visit	-	-	-
Diagnostic Practicals	-	-	-
Supply of Literature (No.)	-	-	-
Supply of Seed (q)	-	-	-
Supply of Planting materials (No.)	-	-	-
Bio Product supply (Kg)	-	-	-
Bio Fertilizers (q)	-	-	-
Supply of fingerlings	-	-	-
Supply of Livestock specimen (No.)	-	-	-
Total number of farmers visited the technology week	-	-	-

10 E. Recognition and Awards: Please give details about National and State level recognition and awards : **Nil**

PART XI – SOIL AND WATER TEST

11.1 Soil and Water Testing Laboratory

A. Status of establishment of Lab :

1. Year of establishment :2011
2. List of equipments purchased with amount : No. Equipment Purchased during reporting period

Sl. No	Name of the Equipment	Qty.	Cost	Status
1	-	-	-	-

2	-	-	-	-
3	-	-	-	-
Total				

B. Details of samples analyzed since establishment of SWTL:

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)
Soil Samples	1562	1528	635	312400.00
Water Samples	746	746	294	37300.00
Plant samples	-	-	-	-
Manure samples	-	-	-	-
Others (specify)	-	-	-	-
Total	2308	2274	929	349700.00

C. Details of samples analyzed:

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)
Soil Samples	167	133	133	33400.00
Water Samples	58	58	58	2900.00
Plant samples	-	-	-	-
Manure samples	-	-	-	-
Others (specify)	-	-	-	-
Total	225	191	191	36300.00

11.2 Mobile Soil Testing Kit

A. Date of purchase and current status

Mobile Kits	Date of purchase	Current status
1.	01.03.2017	The reagents of Mridaparikshak are exhausted, trying to refill the reagents of Mridaparikshak but currently they are not available
2.	25.05.2019	The reagents of Mridaparikshak are exhausted, trying to refill the reagents of Mridaparikshak but currently they are not available

B. Details of soil samples analyzed and since establishment with Mobile Soil Testing Kit:

	During 2021	During 2022	Cumulative progress (Total)
Samples analyzed (No.)	-	-	-
Farmers benefited (No.)	-	-	-
Villages covered (No.)	-	-	-

11.3 Details of soil health cards issued based on SWTL & Mobile Soil Testing Kit: Nil

Particulars	Date (s)	Villages (No.)	Farmers (No.)	Samples analyzed (No.)	Soil health cards issued (No.)
SWTL	-	-	-	-	-
Mobile Soil Testing Kit	-	-	-	-	-

11.4 World Soil Health Day celebration

Sl. No.	Farmers participated (No.)	Soil health cards issued (No.)	VIPs (MP/ Minister/MLA attended (No.)	Other Public Representatives participated	Officials participated (No.)	Media coverage (No.)
1	448	-			3	

PART XII. IMPACT

12.A. Impact of KVK activities (Not restricted for reporting period).

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
Vermicompost	130	20	120000	225000
Flood resistant paddy (Var- Sahyadri Panchamukhi)	162	3	33074	62382
Coconut climbing	260	60	-	760000
Inland Fisheries	1096	41	250000/ha	492000
Value addition	245	8.57	--	102935/3 Groups/8 Months

NB: Should be based on actual study, questionnaire/group discussion etc. with ex-participants.

12.B. Cases of large scale adoption (Please furnish detailed information for each case with suitable photographs): Nil

12.C. Details of impact analysis of KVK activities carried out during the reporting period

PART XIII - LINKAGES

13A. Functional linkage with different organizations

Name of organization	Nature of linkage
Agricultural Technology Application Research Institute, Bengaluru (ATARI)	Technical and Financial Support
Karnataka Veterinary, Animal and Fisheries University, Bidar	Technical and Administrative Support
Indian Council of Agricultural Research (ICAR)	Financial Support
ICAR - Director of Cashew Research, Puttur	Joint Implementation
ICAR-Central Institute of Fisheries Technology, Cochin	Joint Implementation
CPCRI, Kasaragod	Joint Implementation
Deputy Commissioner's office Dakshina Kannada Dakshina Kannada Zilla Panchayath	Participation in meeting Participation in meeting
Development Departments Department of Agriculture, Department of Horticulture, Department of Animal Husbandry and Veterinary services, Department of Fisheries, Department of Forest Department Department of Women & Child welfare Development,	<ul style="list-style-type: none"> ➤ Participation in trainings as resource persons ➤ Participation in meeting ➤ Providing technical information for the Extension functionaries during bi-monthly workshops ➤ Joint Diagnostic Field Visits to problematic areas and crops in the District. ➤ Participation in Kissan Melas, Krishi Utsav ➤ Participation in Krishi Abhiyana
Non-Governmental Organizations Shree Kshetra Dharmasthala Rural Development Project (SKDRDP), Dharmasthala Vijaya Rural Developmental Foundation (VRDF) Bharatiya Vikas Trust, Manipal	<ul style="list-style-type: none"> ➤ Participation in agricultural seminars as resources persons. ➤ Participation in Krishimelas and Krishi Ustavs. ➤ Participation in trainings for farmers as resource persons
NABARD, Banks, Co-operative Agriculture Banks, Cooperative Societies	<ul style="list-style-type: none"> ➤ Participation in farmers training programmes as resource persons ➤ Providing of critical inputs for OFT, FLD programmes implementation
All India Radio	<ul style="list-style-type: none"> ➤ Dissemination of technologies through radio talks, ➤ Announcing of messages to the farmers and KVK training program schedules. ➤ Schedule of Agricultural Operations

NB The nature of linkage should be indicated in terms of joint diagnostic survey, joint implementation, participation in meeting, contribution received for infrastructural development, conducting training programmes and demonstration or any other

13B. Details of linkage with ATMA

Coordination activities between KVK and ATMA

S. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK	Other remarks (if any)
01	Meetings	-	-	-	-
02	Research projects	-	-	-	-
03	Training programmes	-	-	-	-

04	Demonstrations	-	-	-	-
05	Extension Programmes	-	-	-	-
	Kisan Mela	-	-	-	-
	Technology Week	-	-	-	-
	Exposure visit	-	-	-	-
	Exhibition	-	-	-	-
	Soil health camps	-	-	-	-
	Animal Health Campaigns	-	-	-	-
	Others (Pl. specify)	-	-	-	-
06	Publications	-	-	-	-
	Video Films	-	-	-	-
	Books	-	-	-	-
	Extension Literature	-	-	-	-
	Pamphlets	-	-	-	-
	Others (Pl. specify)	-	-	-	-
07	Other Activities (Pl. specify) Farmers Scientist Interaction	Farmers Scientist Interaction	1	-	

13C. List of special programmes undertaken by the KVK which have been financed by State Government/National Horticultural Mission/ RKVY/ National Fisheries Development Board/Other Agencies

S. No.	Programme	Nature of linkage	Funds received in Rs.	Expenditure during the reporting period in Rs.	Remarks
1	Natural Farming Project	ICAR-New Delhi	14,100.00	14091.00	-
2	Natural Farming Project	ICAR-New Delhi	2,63,500.00	32,632.00	-
3	Skill Development Training Programme on Scientific Beekeeping for SC Farmers	ICAR-National Academy of Agricultural Research Manangement, Rajendranagar, Hyderabad	1,31,500.00	34048.00	-
4	Skill Training on Vermicompost Production for SC Farmers	(ICAR-ATARI, Bengaluru)	2,33,000.00	0.00	-
5	SCSP Programme	ICAR-New Delhi	2,65,000.00	0.00	-

6	IPM Orientation training programme	Directorate of Plant Protection Quarantine and storage Faridabad, Ministry of Agriculture and Farmers welfare	49,700.00	40120.00	-
7	Aquaculture of Scheduled Caste Fishermen Farmers, Youth and Women	MANAGE, Hyderabad Central Govt.	25,000.00	25000.00	-
8	Block Level Seminar under a special drive extension activities for SC/ST	Coconut Development Board, Ministry of Agriculture and Farmers Welfare, Govt. of India	40,000.00	27389.00	-
9	Friends of Coconut Tree (FOCT) Palm climbing Training Programme and Farmers Field Day	Coconut Development Board, Regional Office Bengaluru, Ministry of Agriculture and Farmers Welfare, Govt. of India	67,000.00	67,000.00	-
10	Friends of Coconut Tree (FOCT) Palm climbing Training Programme	Coconut Development Board, Regional Office Bengaluru, Ministry of Agriculture and Farmers Welfare, Govt of India	1,69,500.00	167983.00	-
11	Block Level Seminar	Coconut Development Board, Regional Office Bengaluru, Ministry of Agriculture and Farmers Welfare, Govt of India	60,000.00	-	-
12	Module training programme for Krishi Sakhi selected by Sanjeevini-KSRLPS	Sanjeevini-Karnataka State Rural Livelihood Promotion Society, Bangaluru	5,26,500.00	-	-
13	Awareness and capacity building programme on aquaculture to scheduled Caste Fishermen, Farmers, Youth and Women	Manage, Hyderabad Central Govt.	2,00,000.00	1,99,999.00	
14	Diploma in Agricultural Extension Services for Input Dealers Programme-IV	MANAGE, Hyderabad, Central Govt.	7,60,000.00		
15	Diploma in Agricultural Extension Services for Input Dealers Programme-V	MANAGE, Hyderabad, Central Govt.	7,60,000.00		
16	Technological dissemination on fish post harvest management and value addition of fish development	ICAR – Central Institute of Fisheries Technology, Cochin, Central Govt.	2,00,000.00	0.00	-
17	Aquaculture of Scheduled Caste Fishermen Farmers, Youth and Women	MANAGE, Hyderabad, Govt. of India	1,53,000.00	0.00	-

13D. Kisan Mobile Advisory Services

Month	No of	No. of	No. of	SMS/voice calls sent (No.)	Total	Farmers
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Spices & Plantation crops									
Floriculture	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	--	-	-	-	--	-
Vegetables	-	-	-	-	-	-	-	-	-
Others (specify)									

14C. Performance of production Units (bio-agents / bio pesticides/ bio fertilizers etc.,)

Sl. No.	Name of the Product	Qty	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	
-	-	-	-	-	-

14D. Performance of instructional farm (livestock and fisheries production)

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	
1	Poultry	Swarnadhara	Chicks	1746	143150	69859	-
2	Fish	Fish	Seed	12000	54600	9000	-
	Milk Production	-	Milk Production	12796 Ltr.	399657	90616.00	

14E. Utilization of hostel facilities

Accommodation available (No. of beds)

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
January	2	10	-
February	24	2	-
March	118	6	-

April	254	5	-
May	195	13	-
June	18	32	-
July	8	17	-
August	30	29	-
September	37	16	-
October	157	26	-
November	119	22	-
December	93	25	-
Total	1055	203	-

14F. Database management

S.No	Database target	Database created
1	OFT	All data are uploaded in OLRs & MPR and AE-MPR in Farmers Portal
2	FLD	
3	Training	
4	Farmers visited to KVK	
5	Extension Activities	
6	Field Visit	
7	Farmers(SC,ST differently abled,Physically Challenged,FPOs ,Fisherfolks)	

14G. Details on Rain Water Harvesting Structure and micro-irrigation system

(a) Rain Water Harvesting Structure : -Nil-

Amount sanction (Rs.)	Expenditure (Rs.)	Details of infrastructure created / micro irrigation system etc.	Activities conducted					Quantity of water harvested in '000 litres	Area irrigated / utilization pattern
			No. of Training programmes	No. of Demonstrations	No. of plant materials produced	Visit by farmers (No.)	Visit by officials (No.)		
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-

(b) Micro-irrigation systems : Nil

PART XV – SPECIAL PROGRAMMES

15.1 Paramparagath Krishi Vikas Yojana (PKVY) : Nil

Sl No.	Name of cluster village	Initial soil fertility status (Average of cluster village)				Facilities created for organic source of manure	Name of Crops cultivated	Variety	Organic inputs applied including bio-agents and botanicals treatment	Yield (q/ha)	Economics	
		Aval. N	Aval. P	Aval. K	OC %						Cost of cultivation (Rs/ha)	Net returns (Rs/ha)
1	1.											
	2.											
2	1.											
	2.											

15.2 District Agriculture Meteorological Unit (DAMU): Nil

	Agro advisories			Farmers awareness programmes	
Sl No.	No of Agro advisories generated	No of farmers registered for agro advisories	No of farmers benefitted	No of programmes	No of farmers benefitted
1	-	-	-	-	-
2	-	-	-	-	-

15.3 Fertilizer awareness programme organized : Nil

State	Name of KVK	Details of Activities/programme Organised	Number of Chief Guests	No. of Farmers attended program	Total participants

15.11 NARI : NIL

Activity	Achievement	
	Number of activity	No. of farmers/ beneficiaries
OFTs – Nutritional Garden (activity in no. of Unit)	-	-
OFTs – Bio-fortified Crops (activity in no. of Unit)	-	-
OFTs – Value addition (activity in no. of Unit/Enterprise)	-	-
OFTs - Other Enterprises (activity in no. of Unit/Enterprise) (activity in no. of Unit/Enterprise)	-	-
FLDs – Nutritional Garden (activity in no. of Unit)	-	-
FLDs – Bio-fortified Crops (activity in no. of Unit)	-	-
FLDs – Value addition (activity in no. of Unit/Enterprise)	-	-
FLD- Other Enterprises (activity in no. of Unit/Enterprise) (activity in no. of Unit/Enterprise)	-	-
Trainings	-	-
Extension Activities	-	-

15.12 KVK Portal

No. of Events added by KVKs	No. of Facilities added by KVKs	Filled Report on Package of Practices (Y/N)				Filled Profile Report (Y/N)							
		Crop	Livestock	Fisheries	Horticulture	Employees	Posts	Finance	Soil Health Cards	Appliances	Crops	Resources	Fish
567	17	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

15.13 KSHAMTA : Nil

Number of Adopted Villages	No. of Activities		No. of farmers benefited	
	Demo	Training	Demo	Training
-	-	-	-	-

15.14 DFI : NIL

Sl	District	Taluks	Villages	Farmers (No.)	Average Benchmark Income (Rs/year)	Crops/ enterprises	KVK Interventions	Additional Net Income generated due to KVK interventions (Rs/year)	Total income of farmer (Rs/year)
-	-	-	-	-	-	-	-	-	-

PART XVI - FARMERS FEEDBACK ON ASSESSED/DEMONSTRATED TECHNOLOGIES OF CROPS / LIVESTOCK**16.1 Farmers feedback on performance of crop varieties/hybrids**

Sl. No.	Crop varieties/hybrids assessed/ demonstrated	Farmer's feedback
1	Paddy – Sahyadri Panchamukhi	Suitable for flood area with higher yield
2	Paddy – Sahyadri Kempumukthi	Best variety for yield and fodder under midlands, No insect pest and disease incidence occurrence.

16.2 Farmers feedback on performance of agronomic practices

Sl. No.	Agronomic practices	Farmer's feedback
-	-	-

16.3 Farmers feedback on performance of pest and disease management in crops

Sl. No.	Pest and disease management in crops	Farmer's feedback
-	-	-

16.4 Farmers feedback on performance of farm machinery technologies

Sl. No.	Farm machinery technologies	Farmer's feedback
-	-	-

16.5 Farmers feedback on performance of livestock and fisheries technologies

Sl. No.	Livestock/fisheries technologies	Farmer's feedback
01	Pangasius composite culture	<ol style="list-style-type: none"> 1. Pangasius can withstand low level of dissolved oxygen and can be used in high density culture 2. Growth is good compared to native species 3. Good market value
02	Amur common carp	<ol style="list-style-type: none"> 1. Faster growth 2. Good for composite farming too 3. Market acceptability is good

PART XVII - FINANCIAL PERFORMANCE

17A. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Branch code	Account Name	Account Number	MICR Number	IFSC Number
With Host Institute	Canara Bank	Nandinagar Branch, KVAFSU, Bidar 585401	-	SB	3158101000005	585015104	CNRB 0003158
With KVK	Canara Bank	Fisheries College Branch, Mangaluru-575002	B0008520	SB	8520101100857 (General) 8520101100918 (RF)	2011MCSB	CNRB0008520

17B. Utilization of KVK funds during the year 2021-22 (Rs. in lakh)

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances	155.14	155.14	131.06715
2	Traveling allowances	1.00	1.00	1.64571
3	Contingencies			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	3.00	3.00	2.98803
B	POL, repair of vehicles, tractor and equipments	2.00	2.00	1.96805
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	0.94	0.94	0.90546
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	0.46	0.46	0.41992
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	2.80	2.80	2.77927
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	0.90	0.90	0.83526
G	Training of extension functionaries	0.11	0.11	0.11452
H	Maintenance of buildings	-	-	-
I	Establishment of Soil, Plant & Water Testing Laboratory	0.50	0.50	0.11443
J	Library	0.08	0.08	0.06772
K	Extension Activities	1.11	1.11	1.10996
L	EDP/Innovative Activities	0.35	0.35	0.35000
	TOTAL (A)			
B. Non-Recurring Contingencies				
1	Works	-	-	-
2	Equipment including SWTL & Furniture	6.00	6.00	6.00
3	Vehicle (Four wheeler/Two wheeler, please specify)	-	-	-
4	Library (Purchase of assets like books & journals)	-	-	-
	TOTAL (B)	6.00	6.00	6.00
C. REVOLVING FUND				
		-	-	-
GRAND TOTAL (A+B+C)		174.39	174.39	150.36548

17C. Status of revolving fund (Rs. in lakh) for the last three years

Year	Opening balance as on 1 st January	Income during the year	Expenditure during the year	Net balance in hand as on 31 st December of each year
January to December 2020	1.02	12.06	12.09	0.99
January to December 2021	0.99	12.13	12.35	0.77
January to December 2022	0.77	13.30	13.20	0.87

18. Details of HRD activities attended by KVK staff

Name of the staff	Designation	Title of the training programme	Institute where attended	Dates
Scientist (Agronomy)				
Dr. Naveen Kumar B.T.	Scientist (Agronomy)	Natural farming	ICAR-ATARI Bengaluru	3.12.2022
Dr. Naveen Kumar B.T.	Scientist (Agronomy)	Natural farming	ICAR-ATARI Bengaluru	5.12.2022 to 6.12.2022
Scientist (Soil Science)				
Dr. Mallikarjuna L.	Scientist (Soil Science)	ICT for Agricultural Extension its Advance and trends	KSNUAHS Shivamogga, MANAGE Hyderabad	14-18 th June 2022
Dr. Mallikarjuna L.	Scientist (Soil Science)	Statistical & Socio-economic methods and impact assessment for technology refinement in Agriculture	CPCRI-Kasargod	11-12 August 2022
Dr. Mallikarjuna L.	Scientist (Soil Science)	CSR for Sustainable Agriculture and Climate Change Adaptation for better future" (Online)	MANAGE, Hyderabad	22-23. 11.2022
Scientist (Horticulture)				
Dr. Rashmi R.	Scientist (Horticulture)	Entrepreneurship Development for Women Officers of Agri. and Allied Sectors	Extension Education Institute, (Southern Region) Dept. of Agriculture, Cooperation & Farmers Welfare Ministry of Agriculture & Farmers Welfare, Govt. of India, PJTSAU, Rajendranagar, Hyderabad	14- 18 June, 2022
Dr. Rashmi R.	Scientist (Horticulture)	Online Training Program on Building Resilience of Farmers towards Climate Change Risks – Roles of FPOs	MANAGE, Hyderabad	23 – 24 June, 2022
Scientist (Plant Protection)				
Dr. Kedarnath	Scientist (Plant Protection)	Role of extension in dissemination of integrated pest management in the country	ICAR-NCIPM, New Dehli	26.02.2022
Dr. Kedarnath	Scientist (Plant Protection)	Pesticides application techniques and safety measure	NIPHM Hyderabad	December 2022

Scientist (Veterinary)				
Dr. Shivakumar R.	Scientist (Veterinary)	FDP on competency enhancement in agriculture research and education	ICAR-NAARM	17.05.2022
Dr. Shivakumar R.	Scientist (Veterinary)	ICT for agriculture extension Advances and trends	KNUAHS and MANAGE	14.06.2022 to 18.06.2022
Dr. Shivakumar R.	Scientist (Veterinary)	Innovations in Dairy management	KNUAHS and MANAGE	28.06.2022 to 30.06.2022
Dr. Shivakumar R.	Scientist (Veterinary)	National webinar on Advances of veterinary sciences during 75 th years of Indian Independence	Veterinary college, KVAFSU, Bangalore and Dr. C.M. Singh endowment trust, UP	29.08.2022
Dr. Shivakumar R.	Scientist (Veterinary)	Online participation of inauguration program of World Dairy summit	International dairy federation	12.09.2022
Dr. Shivakumar R.	Scientist (Veterinary)	Save soil campaign	KVK-DK	15.09.2022
Dr. Shivakumar R.	Scientist (Veterinary)	e-Samarth training program	College of fisheries mangalore	17.09.2022
Dr. Shivakumar R.	Scientist (Veterinary)	Bombay veterinary college	National webinar on rabies in livestock- growing threat	27.09.2022
Dr. Shivakumar R.	Scientist (Veterinary)	Karnataka veterinary council, Dept. of AH&VS and KVAFSU	Online participation in 'World Rabies day'	28.09.2022
Dr. Shivakumar R.	Scientist (Veterinary)	Online participation in PM KISSAN SAMMELAN	KVK-DK	17.10.2022
Dr. Shivakumar R.	Scientist (Veterinary)	Online participation of foundation day lecturer on Agriculture Extension Innovations- International Experiences	ICAR	28.10.2022
Scientist (Fisheries)				
Dr. Chethan N	Scientist (Fisheries)	"ICTs for agricultural Extension Advances and Trends"	MANAGE, Hyderabad	14.06.2022 to 18.06.2022
Dr. Chethan N	Scientist (Fisheries)	Recent Development in Integrated Fish Farming	FRIC, Bijapur and MANAGE Hyderabad	13.09.2022 to 15.09.2022
Dr. Chethan N	Scientist (Fisheries)	Middle level Fisheries Extension officers on New Dimensions in Extension Management	MANAGE-Hyderabad	14.11.2022 to 16.11.2022

Dr. Chethan N	Scientist (Fisheries)	Agripreneurship Development	KSTA, Bengaluru & MANAGE, Hyderabad	12.12.2022 to 14.12.2022
Dr. Chethan N	Scientist (Fisheries)	Breeding, seed production and health management of peninsular carps	CIFA, Bengaluru	13.12.2022 to 15.12.2022

19. Please include any other important and relevant information which has not been reflected above (write in detail).

5.B.3. Fisheries (2021-22)

Type of Breed	Name of the technology demonstrated	Breed	No. of Demo	Units/ Area (m ²)	Name of the parameter with unit	Yield (q/ha)			Check if any	% Increase	*Economics of demonstration (Rs./unit)			*Economics of check (Rs./unit)		
						Demo					Gross Return	Net Return	** BCR	Gross Return	Net Return	** BCR
						H	L	A								
Common carps	Composite Fish Culture of Catla, Rohu, Common Carp and <i>Pangasius sutchi</i>	Catla, Rohu, Common carp and <i>Pangasius sutchi</i>	03	3000 sq.mtr.	Growth (kg) Yield (q/ha) and BCR	90.24	64.74	80.18	56.96	40.75691394	851533	505383	2.46	512683	271183	2.12
	Monoculture of Amur Common Carp in Farm Ponds	Amur Common Carp	03	1500 sq.mtr.	Growth (kg) Yield (q/ha) and BCR	62.58	57.10	60.10	49.65	21.05	601008	356508	2.46	372360	201310	2.18
Mussels	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ornamental fishes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST

H-High L-Low, A-Average

SD/-
Senior Scientist and Head
ICAR-KVK, Dakshina Kannada
Mangaluru