ICAR-KRISHI VIGYAN KENDRA
Shivamogga

ANNUAL REPORT-2021

(FOR THE PERIOD FROM

01 January, 2021 to 31 December, 2021)

ICAR-Krishi Vigyan Kendra
Savalanga Road, Shivamogga-577 204,
Karnataka, India. Tel. : 08182-267017,
E-mail : kvk.shivamogga@icar.gov.in, shimogakvk@gmail.com
Keladi Shivappa Nayaka University of Agricultural and Horticultural Sciences,
Savalanga Road, Navule, Shivamogga -577 204

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, Savalanga Road, Navule, Shivamogga - 577 204. Karnataka	08182-267017	-	kvk.shivamogga@icar.gov.in shimogakvk@gmail.com	https://kvksh.uahs.edu.in

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

Address	Telephone		E mail	Web Address
	Office	Fax		
Keladi Shivappa Nayaka University of Agricultural and Horticultural Sciences, Savalanga Road, Navule, Shivamogga	08182-267011	08182-298008	vcuahss2014 @gmail.com	www.uahs.in

1.3. Name of the Programme Coordinator with phone & mobile No.

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. B. C. Hanumanthaswamy	9448255252	9480838976	bchswamy@gmail.com

1.4. Year of sanction: 2000

1.5. Staff position as on 31 December 2021

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. B.C.Hanumanthaswamy	Senior Scientist and Head	M	Agril. Entomology	M.Sc.,(Agri. Entomology) Ph.D., PGDBA, PGDPP, PGDAEM	144200-218200	162300	22-12-2011	Permanent	OBC
2.	Scientist / SMS	Mr. M. Basavaraja	Scientist (Agronomy)	M	Agronomy	M.Sc.(Agri.) (Agronomy)	131400-217100	156900	01-04-2018	Permanent	ST
3.	Scientist / SMS	Dr. Jyoti M. Rathod	Scientist (Home Science)	F	Home Science	M.H.Sc. (Food and Nutrition), Ph.D, PGDAEM	79800-211500	104100	18-05-2007	Permanent	SC
4.	Scientist / SMS	Dr. M. Ashok	Scientist (Animal Science)	M	Animal Science	M.VSc., Ph.D. PGDAEM	79800-211500	104100	18-05-2007	Permanent	OBC
5.	Scientist / SMS	Dr. Sahana. S	Scientist (Agril. Extension)	F	Agril. Extension	M.Sc., (Agril. Extension), Ph.D., PGDAEM	79800-211500	107200	01-04-2018	Permanent	OBC
6.	Scientist / SMS	Dr. Sarvajna B. Salimath	Scientist (Soil Science)	M	Soil Science	M.Sc., (Soil Science & Agricultural. Chemistry), Ph.D., (Agriculture Physics), PGDAEM	79800-211500	101100	01-04-2018	Permanent	OBC
7.	Scientist / SMS	Dr. Nagarajappa Adivappar	Scientist (Horticulture)	M	Horticulture	M.Sc.(Horticulture), Ph.D.(Horticulture), PGDIPR, PGDAEM	79800-211500	101100	01-04-2018	Permanent	OBC
8.	Programme Assistant (Lab Tech.)	Dr. Nagaraja R.	Programme Assistant (Lab)	M	Programme Assistant (Lab)	M.Sc.(Agri.) in Agricultural Microbiology, Ph.D. PGDAEM	44900-142400	53600	23-10-2010	Permanent	OBC
9.	Programme Assistant (Computer)	Mrs. B. S. Geetha	Programme Assistant (Computer)	F	Programme Assistant (Computer)	M.Com., PGDCA, PGDHR, PGDAEM	44900-142400	53600	22-01-2011	Permanent	Others
10.	Farm Manager	Dr. Niranjana K.S.	Farm Manager	M	Farm Manager	M.Sc. (Agri), Ph.D., PGDNR, PGDRM, PGDHR, PGDAEM	44900-142400	52000	17-11-2011	Permanent	Others
11.	Assistant	Mrs. Jyothi H.	Assistant	F	Assistant	B.A.	30350 - 58250	34300	01-04-2018	Permanent	SC
12.	**Jr. Stenographer**	**VACANT**									
13.	Driver - 1	Mr. N. Gopala	Lab Assistant	M	Driver (Jeep)	SSLC	21400-42000	32600	16-08-2012	Permanent	OBC
14.	Driver - 2	Mr. K. H. Mohan	Driver (Tractor)	M	Driver (Tractor)	7th Standard	27650-52650	36000	20-10-2008	Permanent	OBC
15.	**SS-1**	**VACANT**									
16.	SS-2	Mr. T. Chikkaiah	Assistant Cook cum caretaker	M	Assistant Cook cum care taker	SSLC	18600-32600	24600	22-11-2018	Permanent	OBC

1.6. Total land with KVK (in ha): 4.30 ha

S. No.	Item	Area (ha)
1.	Under Buildings	0.60
2.	Under Demonstration Units	0.20
3.	Under Crops	3.10
4.	Orchard/Agro-forestry	0.40
5.	Others	-

1.7. Infrastructural Development:

A) Buildings

Sl. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs. In lakh)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	**Administrative Building**	ICAR	Oct. 2009	550	55	-	-	Completed
2.	**Farmers Hostel**	ICAR	Sept. 2012	305	33.33	-	-	Completed
3.	**Staff Quarters**	-	-	-	-	-	-	-
	1.							
	2.							
	3.							
4.	**Demonstration Units**							
	1. Vermi Compost Unit	NCOF Ghaziabad	2008	-	1.25	-	-	Completed
	2. Poultry Unit	RKVY	2012	100	1.20	-	-	Completed
	3. Stall feeding system of Ruminents	Revolving fund	November, 2020	20	0.98	-	-	Completed
	4. Cage system of layer poultry unit	Revolving fund	January, 2021	100 birds capacity	0.49	-	-	Completed
5	**Fencing**							
6	**Rain Water harvesting system**	-	-	-	-	-	-	-
7	**Threshing floor**	-	-	-	-	-	-	-
8	**Farm godown**	-	-	-	-	-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor with Trailer	2001	3,71,892.00	4863	Good condition
Jeep (Mahindra Bolero)	2017	8,00,000.00	81552	Good condition
Hero Honda Splendour+	2009	39,350.00	64603	Good condition
Honda Activa	2009	46,102.00	33479	Good condition

C) Equipment & AV aids

Sl. No	Name of the material	Year of purchase	Quantity (No.)	Cost (Rs.)	Present status
1.	Portable genset (Honda make)	29.09.2009	1 No.	49100	Good condition
2.	Lacer pointer	26.07.2018	1 No.	1800	Good condition
3.	Telephone Instruments	18.07.2002	1 No.	590	Good condition
4.	Nine tined spring loaded cultivator	04.03.2003	1 No.	15490	Good condition
5.	Blade harrow cum leveler	04.03.2003	1 No.	6962	Good condition
6.	Three furrow ridger	04.03.2003	1 No.	11300	Good condition
7.	Aspee Knapssek sprayer	06.09.2016	1 No.	1952	Good condition
8.	Digital conductivity meter with CC-03	26.07.2005	1 No.	7400	Good condition
9.	Magnetic stirrer with hot plate 5 mlh	26.07.2005	1 No.	5500	Good condition
10.	Smimadzu top loading balance 220g. – 1.0 mg.	26.07.2005	1 No.	48900	Good condition
11.	Rotary shaker with DC motor digital speed meter 24 x 24	26.07.2005	1 No.	27600	Good condition
12.	Spechrophoto meter (340-990 mm) with 2 position sample holder	30.08.2005	1 No.	46200	Good condition
13.	Scanner	26.09.2016	1 No.	28000	Good condition
14.	Compaq Laptop C 505 1.6 GH2 with carry bag (DS Reg.VOL-II)	31.03.2007	1 No.	38990	Good condition
15.	Dell Laptop	04.10.2016	1 No.	48499	Good condition
16.	Hakims combination board 4 x 3	10.06.2008	1 No.	1800	Good condition
17.	Hakims three tier rotating book stand	10.06.2008	1 No.	3100	Good condition
18.	Electronic balance	10.06.2008	1 No.	5350	Good condition
19.	Research microscope	18.11.2008	1 No.	66555	Good condition
20.	Xerox machine	07.01.2020	1 No.	67420	Good condition
21.	LCD	04.10.2016	1 No.	38499	Good condition
22.	Motorized screen (RKVY)	05.02.2009	1 No.	25875	Good condition
23.	Touch Screen Information KIOSK (RKVY)	05.02.2009	1 No.	124569	Good condition
24.	Hot Air Oven	12.02.2009	1 No.	24166	Good condition
25.	Laminar air flow	12.02.2009	1 No.	54013	Good condition
26.	Honda weed cutter	07.03.2009	1 No.	25000	Good condition
27.	Hero Honda Splendor & accessories	10.05.2009	1 No.	35866	Good condition
28.	Honda activa & accesarries	13.05.2009	1 No.	46102	Good condition
29.	Auto clave (vertical) (18 x 20 inch)	31.03.2009	1 No.	25500	Good condition
30.	Elisa Reader	02.09.2009	1 No.	147155	Good condition
31.	Digital conductivity meter	01.06.2016	1 No	12022	Good condition
32.	Incubator	18.03.2011	1 No.	24425	Good condition
33.	UPS	09.03.2016	1 No.	4062	Good condition
34.	Telescopic	12.09.2013	1 No.	1395	Good condition
35.	Pruning			1635	Good condition
36.	Sony 106 CMC smart TV (TV, Hometheater, stablizer)	31.03.2016	1 set	99476	Good condition
37.	Pusa Digital STFR kit	30.01.2016	1 No	58350	Good condition
38.	Panasonic kx-TES824 EPABX system	10.03.2016	1 No	19500	Good condition
39.	AC	24.01.2018	1 No.	42200	Good condition
40.	Mike (transferred DE off.)	20.06.2016	2 No.	11923	Good condition
41.	AAS equipement and accessories	15.06.2016	1 set	1420000	Good condition
42.	Computer System	26.08.2016	1 No.	49244	Good condition
43.	Computer system	30.08.2016	1 No.	72501	Good condition

Sl. No	Name of the material	Year of purchase	Quantity (No.)	Cost (Rs.)	Present status
44.	Computer System	30.09.2016	2 Nos.	96900	Good condition
45.	DEL 19" LED Monitor	25.02.2021	1 No.	7642	Good condition
46.	Computer System	25.03.2021	1 No.	40532	Good condition
47.	SS pulvirizer	25.02.2017	1 No.	26000	Good condition
48.	Digital weighing balance	25.02.2017	1 No.	10076	Good condition
49.	Hot case	03.03.2017	1 No.	17935	Good condition
50.	Semi automatic single deck oven	03.03.2017	1 No.	50640	Good condition
51.	Extruder	09.03.2017	1 No.	74425	Good condition
52.	Deep fat fryer	09.03.2017	1 No.	20381	Good condition
53.	Refrigerator	10.03.2017	1 No.	30000	Good condition
54.	Refrigerator	07.02.2020	1 No.	49700	Good condition
55.	Mixer grinder	10.03.2017	1 No.	5450	Good condition
56.	Mixer grinder	28.07.2017	1 No.	4695	Good condition
57.	Kraft chopper	10.03.2017	1 No.	2490	Good condition
58.	Camera	20.03.2017	1 No.	19408	Good condition
59.	1 HP motor and acce.	07.06.2017	1 No.	9970	Good condition
60.	7.5HP Motor penal box	30.06.2017	1 No.	7950	Good condition
61.	Balance (SWTL)	29.07.2017	1 No.	23040	Good condition
62.	Bolero jeep	05.07.2017	1 No.	663400	Good condition
63.	Canon Laser	16.11.2019	2 Nos.	23559	Good condition
64.	Dell 19" LED Monitor	16.11.2019	1 Nos.	6314	Good condition
65.	Bakery bread slicer	11.08.2018	1 No.	37111	Good condition
66.	Bakery Planetary mixer	11.08.2018	1 No.	98600	Good condition
67.	Double deck destoner front side attached sieving unit	11.12.2019	01 No.	30350	Good condition
68.	Destoner Machine	12.12.2019	01 No.	94500	Good condition
69.	Ginger Slicer Making machine	14.01.2020	01 No.	88700	Good condition
70.	Ginger Dryer macking machine	16.01.2020	01 No.	90500	Good condition
71.	Fume Cupboard	21.02.2020	01 No.	95000	Good condition
72.	Automatic Roti Macking machine	20.10.2020	01 No.	98880	Good condition
73.	Flour Kneader	28.10.2020	01 No.	98820	Good condition
74.	CC Camera	09.01.2021	01 Set	40900	Good condition
75.	Rotovetor	14.03.2020	1 No.	99000	Good condition
76.	Analysis Balance RADWAG weighing solution model AS-220R2	22.01.2018	1 No.	87999	Good condition
77.	E.C. Meter	13.02.2018	1 No.	68145	Good condition
78.	PH meter Model-361	05.03.2018	1 No.	31624	Good condition
79.	Automatic Nitrogen Estimation system	12.03.2018	1 No.	298994	Good condition
80.	Shaker Reciprocaling type	14.03.2018	1 No.	62540	Good condition
81.	Digital Spectrophotometer	04.03.2018	1 No.	470230	Good condition
82.	Water distillation unit vertical DAPS & water softener	13.02.2018	1 No.	162241	Good condition
83.	Auto make cabinet water still distillation with softener	05.09.2018	1 No.	165000	Good condition
84.	Flame photometer model No. 128	03.11.2018	1 No.	62250	Good condition
85.	Hot Plate rectangle (450 mm x 600 mm)	08.10.2018	1 No.	21000	Good condition
86.	Trolly Speaker, USB Bluetooth & 2	25.03.2021	1 set	24900	Good condition

Sl. No	Name of the material	Year of purchase	Quantity (No.)	Cost (Rs.)	Present status
	wireless mike				
87.	Canon printer 18.5 Lenovo	25.03.2021	1 No.	12500	Good condition
88.	Monitor 20 " (LED)	29.06.2021	01 No.	8450	Good condition
89.	Ball Presentation gun & web camera	31.08.2021	2 Nos.	10915	Good condition
90.	Amaze 150 AH battery	18.11.2021	02 Nos.	26400	Good condition

D) Farm equipment and implements

Name of the equipment / implement	Year of purchase	Quantity (No.)	Cost (Rs.)	Present status
Shakthi Power Tiller and accessories	03-31-2010	01	131500	Good Condition
Tractor drawn Trencher, Ridger, Marker	03-26-2011	01	86500	Good Condition
Tractor drawn 2 furrow MB plough	03-28-2011	01	88000	Good Condition
Power Tiller trailer	03-28-2011	01	48048	Good Condition
Tractor drawn water tanker - chassis mounted 3500 ltr. Capacity Water tank with resole tyre and heavy axel, Water Tanker	06-22-2011	01	99250	Good Condition
Hand operated ˜C type areca leaf plate making machine.	06-21-2011	01	38850	Good Condition
Tractor mounted water pulley	07-02-2011	01	32500	Good Condition
Tractor operated winnower	06-30-2011	01	20500	Good Condition
Tractor drawn 5 furrow opener	08-26-2011	01	31000	Good Condition
Iron plough - 1 wing	12-19-2012	01	1600	Good Condition
Iron plough - 2 wings	12-19-2012	01	1900	Good Condition
Disk harrow	06-22-2013	01	1455	Good Condition
Pruning saw - OM	09-12-2013	01	18723	Good Condition

1.8. Details of SAC meeting organized

Date	Number of Participants	Salient Recommendations	Action taken	Remarks, if any
18-01-2022	40	Suggested to conduct more number of skill oriented capacity development programme for farmers, farm women and rural youth in collaboration with line departments.		
		Suggested to conduct more number of capacity development programme on composting techniques by using areca husk and other agricultural wastes.		
		It is informed to conduct entrepreneurship development programmes for farmers.		
		Informed to conduct capacity development programme on use of fertigation in areca nut gardens.		
		Suggested to conduct capacity development programme on water conservation and water use efficiency.		
		Suggested to conduct capacity development programme on quality seed production, popularization of fine grain rice varieties and red rice variety (KEMPU MUKTHI).		
		Informed to conduct capacity development programme on spraying of pesticides and harvesting of areca nuts by using fiber dhotis.		
		It is suggested to conduct more number of capacity development programmes on quality seedling production.		
		Suggested to brief and confined the SAC report to 15-20 pages only.		
		Branding the technologies which were transferred from KVK.		
		Informed to identify and document the details of progressive farmers and help them to get awards.		
		Suggested to strengthen the KVK demonstration units.		
		Suggested to identify the progressive farmers and use them as farmer professors and also invite them as a resource person in capacity development programme	During the skill oriented capacity development programme on Coconut and arecanut palm climbing, progressive farmers were engaged as resource persons.	In future also progressive farmers will be engaged as resource persons during the capacity development programmes conducted by KVK.
		Advise the farmers for minimization of cost of production in important crops of the district.	Educating the farmers during the capacity	

Date	Number of Participants	Salient Recommendations	Action taken	Remarks, if any
			development programmes on different crops about 'minimization of cost of production in important crops of the district'. From January, 2022 to February, 2022 totally 98 farmers were benefitted out of 6 programmes.	
		Informed to popularize the technologies and the varieties which were developed from KSNUAHS, Shivamogga.		
		Organize the educational tours for farmers and staff to acquire more knowledge on new technologies in agriculture.		
		Suggested to take up trails on high density planting system in Banana		
		Suggested to give information for farmers on availability of schemes related to agriculture and agri-allied sectors.		
		Suggested to conduct skill oriented capacity development programme on rearing of ornamental fishes.		
		Informed to give information on availability of schemes from fisheries department.		
		Suggested to conduct more number of trainings and demonstrations on areca husk compost.	Conducted 20 FLDs on areca husk compost at different taluks of Shivamogga district during Rabi/Summer season.	FLD is planned on areca husk compost during the year 2022-23.
		Conduct more capacity development programme on intercropping in younger areca nut gardens.		
		Informed to give more information on weed management for Maize growing farmers.		
		Suggested to conduct training and awareness programmes on plant protection and use of pesticides in Ginger.		
		Suggested to conduct awareness programmes on conservation of Desi cow Malenadu Gidda and trainings on preparation of milk products by using milk of Malenadu Gidda cow.		
		Suggested to conduct skill oriented capacity development programme on small scale poultry chicks hatchery and poultry farming.	Conducted three days Capacity development	

Date	Number of Participants	Salient Recommendations	Action taken	Remarks, if any
			programme from 23-25th Feb, 2022 on 'Scientific Commercial Poultry Farming' to Extension functionaries of ATMA project on. Totally 34 participants were benefitted.	
		Suggested to take up the promotion activities for oil palm.		
		Suggested to conduct trainings and give information on Medicinal plants.		
		Suggested to arrange agriculture related educational tour for farmers, farm women's and rural youth.		
		Informed to conduct awareness programmes on organic farming certification for farmers.		
		Suggested to conduct capacity development programme on soil health, soil sampling and testing.	Awareness programme on 'Soil health, soil sampling and testing' was conducted at Adopted village Adderi, Hosanagara Taluk.	
		Suggested to conduct capacity development programme on poultry and sheep rearing for farmers and extension personals.	Conducted three days Capacity development programme from 23-25th Feb, 2022 on 'Scientific Commercial Poultry Farming' to Extension functionaries of ATMA project on. Totally 34 participants were benefitted.	
		Informed to conduct capacity development programme for farmers on infertility management in cows.	Implemented FLD on infertility management in cows during Rabi/Summer.	
		Suggested to conduct demonstrations and capacity development programme on nutri-gardens in Anganawadi.	On 24-02-2022, conducted Capacity	

Date	Number of Participants	Salient Recommendations	Action taken	Remarks, if any
			development programme on establishment and maintenance of nutri-garden in Anganawadi kendras at Araguvalli village of Shikaripura Taluk.	
		Suggested to get information on special foods of Shivamogga, based on information suggested to prepare and develop nutri-thali (Nutritious food) of Shivamogga.		
		Suggested to coordinate for interview and telecast the progressive farmer's information in AIR, Bhadravathi.		

PART II - DETAILS OF DISTRICT

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

Sl. No.	Farming system/enterprise
1.	Rice based cropping system
2.	Maize based cropping system
3.	Pulses and oilseeds
4.	Arecanut and Coconut based cropping system
5.	Vegetables, fruits and spice crops cultivation
6.	Value addition
7.	Floriculture
8.	Dairying
9.	Poultry farming
10.	Sheep and goat rearing
11.	Apiary

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

S. No	Agro-climatic Zone	Characteristics
1.	Southern Transition Zone (Zone - 7)	• The total geographical area of Southern Transition Zone (STZ) (Zone–7) is 13.09 lakh ha. Shivamogga, Bhadravathi and Shikaripur taluks of Shivamogga District comes under this zone. KVK, Navile, Shivamogga is located in this zone. • The zone 7 has varying altitude ranging from as low as 547 m. in the North to as high as 1050 m. in the South. • The soils of the zone are predominantly sandy soils, shallow to moderate deep, reddish brown to black in colour, slightly acidic in pH and low in organic matter. Soils are generally medium in fertility and respond well to irrigation, manuring and management practices. • The climate of the zone is basically tropical benefited by the two monsoons accounting for major part of the rainfall. The zone receives an average annual rainfall of 580.6 mm. The lowest minimum temperature ranges from 14.9°C (December) to 23.2°C (April) while the maximum temperature ranges from 28.4 °C (July) to 39.1 °C (April).
2.	Hilly Zone (Zone - 9)	• The total geographical area of hilly Zone (Zone–9) is 22.90 lakh ha. Soraba, Sagara, Thirtthahally and Hosanagara taluks of Shivamogga District comes under this zone. • The zone - 9 has varying altitude ranging from as low as 700 to as high as 1050 m. above mean sea level. • The soils of the zone are predominantly sandy loamy or sandy clay loam soils, shallow to moderate deep, yellow, reddish brown to black in colour, low in cation exchange capacity, low in water holding capacity, moderately to highly acidic in pH, low in organic matter and deficient in zinc and boron. Generally, the soils are low in fertility and respond well to irrigation, manuring and management practices.

		• The climate of the zone is basically tropical benefited by the two monsoons accounting for major part of the rainfall. The zone receives and average annual rainfall of 2308 mm with a minimum of 922 mm and maximum of 3695 mm. The lowest minimum temperature of 100 °C will be observed during winter.

S. No	Agro ecological situation	Characteristics
1	Lateritic gravelly soils with high rainfall based (Thirthahally, part of Hosanagara, Sagara and Soraba taluks)	Comparatively dense forest based, hilly tracks, moderate temperature region, high rainfall. The soils under this AES soils are yellow, reddish brown surface sandy loamy soils or sand clay loam texture. These soils are low in cation exchange capacity with medium water holding capacity and low in fertility status i.e. low in organic matter, and deficiency in zinc and boron. The Western Ghats regions are rich in flora and fauna. Medicinal plants and herbs like, Asana, Amla, Sandal, Anale, Sarpagandhi, Terminalia, Bixa, etc
2	Red loamy soil with medium rainfall (Parts of Sagara, Soraba, Shikaripura and Hosanagara)	This AES's comprises of medium rainfall area with medium temperature. The soils are medium, shallow to moderate deep with reddish brown to black in colour. Medium in water holding capacity, low in organic matter, only in some patches deficient in Zinc and Boron.
3	Red and Black mixed soils with medium rainfall (Parts of Shivamogga, Bhadravathi, Shikaripura)	The soils under this AES are derived from Ignatius rocks and montmorillonite clay with high in fertility status, high in water holding capacity and cation exchange capacity. These soils are deep and sufficient in micronutrients except some patches.
4	Irrigated red sandy with medium rainfall (Parts of Shivamogga and Bhadravathi)	Comparatively plain lands. Less vegetation, higher temperature. Soils of this situation are predominantly sandy soils, shallow to moderate deep, reddish brown to acidic in pH. Soils are medium in fertility level and respond well for irrigation, manuring and other management practices.

2.3 Soil type/s

S. No	Soil type	Characteristics	Area in ha
1	Red Sandy	Red sandy soils are derived from acidic rock materials, reddish brown to dark reddish brown in colour and gravelly loamy sand to sandy loam in texture. They are neutral to acidic in reaction with low cation exchange capacity, low base saturation and low water holding capacity. The soils are well drained and respond well to irrigation, manuring and other management practices. These soils are found in the eastern parts of Shikaripur and entire Shivamogga and Bhadravathi Taluks.	Red gravelly loam – 61546 Red loamy – 22819 Red gravelly clay – 6357 Red gravelly mixed with deep black – 58849 Red clayey – 33904 Red gravelly clay – 14491 Red clayey – 14167 Laterite gravelly clay – 13524 Laterite clayey – 118301 Laterite gravelly clay – 19904 Black clayey – 22358 Alluvial loamy – 61133 Alluvial black clayey – 12087 Alluvial clayey – 25660 Forest brown clayey – 15441 Red gravelly clayey –36446
2	Mixed Red and Black	The soils are derived from ignetious rocks and montmorillonite clay with high fertility status, high in water holding capacity and cation exchange capacity. The soils are deep	

S. No	Soil type	Characteristics	Area in ha
	Soils	and sufficient in micronutrients except in some patches. These soils are found in the eastern parts of Shikaripur and entire Shivamogga and Bhadravathi Taluks.	
3	Red loamy Soils	The soils are medium, shallow to moderate, deep with reddish brown to Black in colour. They are Medium in water holding capacity, low in organic matter, deficient in Zinc and Boron in some patches. These soils are found in the eastern parts of Sagar, Soraba, Shikaripur and Hosanagar Taluks.	
4	Lateritic gravelly soils	Laterite soils are derived from acidic ignetious rocks, sand stones and sedimentary rocks, yellowish red to reddish brown in colour. They are dominated with kaolinite clay mineral. The soils are acidic with low cation exchange capacity and medium water holding capacity. These soils are found in the western parts of Shikaripur taluk, Thirthahalli and parts of Hosanagar, Sagar and Soraba Taluks.	

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

Sl. No	Crop	Area (ha)	Production (Metric tons)	Productivity (kg /ha)
Field Crops				
1.	Paddy	82450	274724	3332
2.	Maize	46762	19117	3074
3.	Sugarcane	3449	583656	125 (t/ha)
4.	Ragi	954	1650	1736
5.	Green gram	535	182	182
6.	Cotton	503	1796	435
7.	Redgram	453	437	965
8.	Sunflower	253	1971	2241
9.	Groundnut	341	294	862
10.	Cowpea	124	88	406
11.	Horse gram	73	19	541
12.	Black gram	116	69.9	602
13.	Avare	24	45	1008

Source: Director of Economic and statistics

Horticultural Crops				
Sl. No	**Crop**	**Area (ha)**	**Production (tons)**	**Yield (t/ha)**
1.	Mango	3959	46085.36	11.64
2.	Banana	15489	383133.00	24.73
3.	Guava	24	576.00	24.00
4.	Sapota	306	3952.00	12.91
5.	Pineapple	2088	124134.00	59.45
6.	Pomegranate	4.00	40.00	10.00
7.	Jack fruit	165	7270.00	44.06
8.	Limes and lemon	47	985.00	20.95

Horticultural Crops				
Sl. No	**Crop**	**Area (ha)**	**Production (tons)**	**Yield (t/ha)**
9.	Sweet orange	3	60.00	20.00
10.	Black pepper	7323	2287.35	0.31
11.	Cardamom	182	21.04	0.11
12.	Tamarind	30	172.00	5.73
13.	Ginger	7125	72307.00	10.14
14.	Turmeric	10	139.00	13.90
15.	Cinnamon	16	1.52	0.09
16.	Vanilla	18	5.04	0.28
17.	Coconut (Lakh nuts)	12211	1329.16	0.10
18.	Arecanut	102536	128385.42	1.25
19.	Betelvine	180	3588.00	19.93
20.	Cocoa	340	193.30	0.56
21.	Oil Palm	145	1725.00	11.89
22.	Cashew	1442	2078.70	1.44
23.	Tomato	147	2893.00	19.68
24.	Brinjal	38	1140.00	30.00
25.	Green chilli	101	1659.00	16.42

Source: Department of Horticulture, Shivamogga

2.5. Weather data

Month	Rainfall (mm)	Temperature °C		Relative Humidity (%)	
		Max. Temp	Min. Temp	RH-I	RH-II
January-2021	59.80	30.90	16.30	80	51
February-2021	28.20	31.50	16.10	84	35
March-2021	1.00	35.00	20.30	83	34
April-2021	37.40	35.50	21.90	80	42
May -2021	121.20	32.30	22.20	86	66
June-2021	151.00	29.70	21.50	90	78
July-2021	298.80	27.90	21.50	93	82
August-2021	111.80	28.90	21.50	93	82
September-2021	77.60	28.80	21.00	92	81
October-2021	203.60	30.01	21.40	90	74
November-2021	208.40	28.90	20.50	94	80
December-2021	3.00	29.90	17.00	90	67
Total / mean	1301.80	20.10	20.10	88	64

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

Category	Population	Production	Productivity
Cattle			
Crossbred	112108	242 thousand	10 l/day/animal
Indigenous	456368		
Buffalo	149515		
Sheep			
Crossbred	1158		
Indigenous	35633	3430 thousand tons	
Goats	58034	kg/animal	38 kg / animal
Pigs			
Crossbred	142		
Indigenous	3865		
Rabbits	685		

Category	Population	Production	Productivity
Cattle			
Poultry			
Hens	1739272	977 lakhs	340 eggs / year
Desi		260 eggs / year	
Improved			
Ducks			
Turkey and others	70392		

Category	Area	Production	Productivity
Fish			
Marine	--	--	
Inland	14957 ha	21568.08 mt.	1.37 mt/ha
Prawn			
Scampi			
Shrimp			

2.7 District profile maintained in the KVK has been Updated for 2021: 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.	Shivamogga	Holaluru, Kumsi	Narayanapura, Mallapura, Yadavala, Somshettikoppa, Koragi, Konagavalli, Shettihalli, Puradalu	3	Maize, Paddy, Ragi, pulses, arecanut, Vegetables, Banana, Arecanut, Ginger, Tuberose, Dairy	Low yield in existing varieties of paddy, incidence of Blast, Stem borer, BPH in paddy. Low yield in existing varieties in Ragi, leaf blast and neck blast diseases in Ragi. Low yield due to moisture stress, tikka disease, poor plant population / Sq m. (Improper spacing 30x15 cm) and lower seed rate @ 35 kg/acre in groundnut. Leaf minor, fruit borer, blossom end rot and fruit cracking in Tomato. Shoot and fruit borer, less awareness on improved high yielding hybrids in bhendi. Diamond back moth (DBM) in cabbage. No amendments application for acidic soil Imbalanced fertilizer application, non adoption of improved short duration green gram varieties in paddy fallows. Non availability of improved fodder varieties. Nutrition deficiencies and infertility in dairy animals.	Varietal introduction, Hybrid introduction, Integrated crop management, Integrated pest and disease management. Integrated nutrient management. Resource conservation. Nutrition and infertility management in dairy cows.
2.	Shikaripura	Anjanapura, Hosuru	Mathighata, Churchigundi, Harogoppa, Nimbegondhi, Gama, Esuru, Kesaraghatta	4	Maize, Paddy, Pulses, Arecanut, Ginger, Tomato, Mango, Mechanisation, Dairy	High cost of production, high dose of fertilizer application, less fertilizer use efficiency, no knowledge on Nano fertilizer application in maize. Imbalanced application of chemical fertilizers and lower efficiency of fertilizers due to improper scheduling in Tomato, Non adoption of improved Cowpea varieties and short duration green gram varieties in paddy fallows. Incidence of hoppers and powdery mildew in Mango. Labour scarcity for climbing and harvesting of arecanuts, less knowledge on safety devices for areca palm climbing. Practicing mono-cropping, no amendments application for acidic soil, Zinc deficiency, no proper pest and disease management practices in maize. Micronutrient deficiency, imbalanced fertilizer application, high cost of production, no knowledge on soil test based fertilizer application, no knowledge on liquid seaweed extract & its importance in crop production in Tomato. Mastitis in cattle.	Integrated nutrient management, Resource conservation, Integrated pest and disease management, mechanization in arecanut. Integrated crop management. Clean milk production.

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
3.	Sagara	Anandapura	Nedaravalli, Hosuru, Jogfalls, Kargal, Iruvakki	4	Paddy, Pulses Maize, Ginger, Arecanut, Pineapple, Fodder, Dairy	Stem borer, leaf roller, bacterial leaf blight (BLB), udbatta disease in paddy. Heart rot disease in pineapple. Non adoption of improved short duration green gram varieties in paddy fallows. Less knowledge on nutritional value of Pineapple and its value addition. Non availability of improved fodder varieties.	Integrated pest and disease management. Resource conservation, value addition. Fodder variety CoFS-31 introduction.
4.	Soraba	Jade	Talagunda, Bankasana, Salige, Bilageli, Ennekoppa	1	Paddy, Ginger, Arecanut, Pineapple, Pulses, Livestock	High cost of cultivation and labour scarcity in paddy. Non adoption of improved varieties of pulses in paddy fallows. Unscientific management of sheep and goat in stall feeding system and low productivity.	Mechanisation and Resource conservation. Scientific management of small ruminants.
5.	Thirthahalli	Mandagadde	Kikkeri, Vanasgadde, Bejjuvalli, Megaravalli	1	Arecanut, Paddy, Ginger, Pulses, Poultry	Non adoption of improved Cowpea varieties and non adoption of improved short duration green gram variety in paddy fallows. Unaware of improved breeds of backyard poultry.	Resource conservation. Introduction of Kadaknath poultry breed in backyard.
6.	Hosanagara	Kerehalli	Nanjuvalli, Adderi, Benavalli, Arasalu	3	Arecanut, Paddy, Spices, Fodder	Huge quantity of areca husk is thrown on public places, it is burnt and creates pollution. Very slow degradation because of high lignin content. . Non availability of improved fodder varieties.	Organic manure. Introduction of fodder variety CoFS-31.
7.	Bhadravathi	Holehonnur	Agasanahalli, Ittigehalli	4	Arecanut, Paddy, Ragi, Vegetables, Livestock	Low yield in existing varieties of Ragi leaf blast and neck blast diseases in Ragi. Infertility management in dairy cows.	Varietal introduction. Integrated management of infertility in dairy cows.

2.9 Priority thrust areas

Sl. No.	Thrust area
1.	Organic Farming
2.	Scientific Sheep and goat rearing
3.	Farm Mechanization
4.	Bee keeping
5.	Mushroom production technology
6.	Formation and management of FPO
7.	Integrated farming system
8.	Entrepreneurial development of farmers / youth
9.	ICT in agriculture
10.	Nutrigardens
11.	Recycling of the bio-waste material
12.	Integrated crop management
13.	Soil acidity management
14.	Integrated nutrient management
15.	Integrated pest and disease management
16.	Variety / hybrid introduction
17.	Quality seed / seedling production
18.	Fodder production and enrichment of dry fodder crops
19.	Value addition
20.	Post harvest technology
21.	Infertility management in dairy animals
22.	Poultry management
23.	Resource conservation

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
10	10	43	43	17	17	114	114

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
60	65	2000	2136	10	15	300	366

Training (Extension personnel)				Training (sponsored)			
5				6			
Courses (No.)		Participants (No.)		Programmes (No.)		Participants (No.)	
Target	Achievement	Target	Achievement	Target	Achievement	Target	Achievement
-	4	-	226	-	11	-	629

Training (Vocational)				Extension Programmes			
7				8			
Courses (No.)		Participants (No.)		Programmes (No.)		Participants (No.)	
Target	Achievement	Target	Achievement	Target	Achievement	Target	Achievement
-	12	-	287		15	-	20509

Seed Production (Q)		Planting material (Nos.)	
9		10	
Target	Achievement	Target	Achievement
-	-	25000	27088

Livestock, poultry strains and fingerlings (No.)		Bio-products (Kg)	
11		12	
Target	Achievement	Target	Achievement
3000	2107	-	-

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
3000	2236	2000	1340	-	-	-	-

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	
													No.	Kg
1.	Varietal evaluation	Paddy	Low yield in existing varieties, incidence of Blast, Stem borer, BPH	Assessment of improved fine rice varieties		4	-	-	6	0.84	-	-	1	6
2.	Varietal evaluation	Ground nut	Low yield due to moisture stress, tikka disease, poor plant population / Sq m. (Improper spacing 30x15 cm) and lower seed rate @ 35 kg/acre	Assessment of Groundnut varieties Under limited irrigation		3	-	-	6	3.6	-	-	2	9
3.	Integrated nutrient management	Maize	High cost of production, High dose of fertilizer application, Less fertilizer use efficiency, No knowledge on Nano fertilizers.	Assessment of Nano fertilizers (N & Zn) On Growth and Yield of Maize		2	-	-	3	-	-	-	-	-
4.	Integrated nutrient management	Tomato	No knowledge on liquid seaweed extract & its importance in crop production	Assessment of liquid seaweed extract on growth & yield of Tomato		2	-	-	1	-	-	-	1	9 Ltrs.
5.	Hybrid evaluation	Bhendi	Low yield, YVMV, Shoot and fruit borer incidence, inferior quality of fruits	Assessment of Bhendi hybrids for adoptability	-	2	-	-	4	COBH-4 seeds = 0.02 Arka Nikitha seeds = 0.035	-	-	-	-
6.	Integrated nutrient management	Tomato	: Blossom end rot and fruit cracking, Quantitative and qualitative yield loss	Assessment on management of blossom end rot and fruit cracking in Tomato	-	3	-	-	4	-	-	-	-	-
7.	Integrated pest management	Bhendi	Higher incidence of shoot and fruit borer	Assessment on management of Shoot and Fruit borer of Bhendi	-	2	-	-	3	-	-	-	-	-
8.	Mechanisation	Arecanut	❖ Labour scarcity for climbing and harvesting	Assessment of devices		-	4	-	5	-	-	-	-	-

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	
													No.	Kg
			of nuts ❖ Climbing of palm without any safety device may leads to accidents specially for the learners ❖ Confidence level is less in manual climbing	for climbing of Areca palm										
9.	Breed introduction	Poultry	Lower body weight, less no. of eggs per bird, lower market price and low income.	Assessment – Comparative study on growth Performance of Kadaknath with other local breeds of backyard poultry	-	03	02	01	04	-	-	Day old chicks 400 Kadaknath	-	-
10.	Nutritional management	Dairy	Lower milk yield and fat content, increased inter calving period, higher feed cost (Protein source)	Assessment – Use of neem –coated urea as a source of non protein nitrogen (NPN) in lactating dairy animals diet	-	02	02	01	05	-	-	-	1	25
11.	Variety introduction	Ragi	Low yield in existing varieties, Less resistant to leaf blast and neck blast diseases	-	Demonstration of Ragi variety KMR-630	7	-	-	5	0.25	-	-	1	10
12.	Resource conservation	Paddy	• High cost of cultivation • Labour scarcity	-	Demonstration on DSR method of Paddy Cultivation under irrigated situation	7	-	-	5	-	-	-	-	-
13.	Integrated Crop management	Maize + redgram	Practicing mono-cropping, No amendments application for acidic soil, Zinc deficiency, Fall armyworm & Stem borer, TLB and low yield	-	Demonstration on integrated crop management in Maize	3	-	-	2	Red gram (BRG-5) seeds=0.09	-	-	3	9
14.	Resource conservation	Cowpea	Non adoption of improved Cowpea varieties in paddy fallows	-	Demonstration of Cowpea variety UAHS–28	1	-	-	4	0.6	-	-	-	-

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	
													No.	Kg
15.	Integrated nutrient management	Tomato	1.Imbalanced application of chemical fertilizers 2.Lower efficiency of fertilizers due to improper scheduling	-	Demonstration on fertigation in Tomato	1	-	-	4	-	-	-	-	-
16.	Integrated Crop management	Ginger	• No amendments application for acidic soil • Imbalanced fertilizer application • Rhizome rot and low yield	-	Demonstration on Integrated Crop Management in Ginger	3	-	-	1	-	-	-	2	36
17.	Integrated crop management	Cabbage	• Low yield due to DBM incidence • Poor quality heads • Improper nutrient management	-	Demonstration on ICM in Cabbage	2	-	-	4	-	-	-	-	-
18.	Integrated Pest management	Mango	• Low yield due to imbalanced nutrient management • Flower and fruit drop • Incidence of hoppers • Incidence of powdery mildew	-	Demonstration on Management of Leafhoppers and Powdery mildew in Mango	2	-	-	3	-	-	-	-	-
19.	Integrated Disease Management	Pineapple	Heart rot disease	-	Demonstration on management of Heart rot disease in pineapple	2	-	-	4	-	-	-	2	550
20.	Integrated Pest Management	Tomato	1.Leaf minor and Fruit borer incidence 2.Indiscriminate use of pesticides	-	Demonstration on management of Leaf minor and Fruit borer in Tomato	3	-	-	5	-	-	-	1	5 ltr.
21.	Pest & disease Management	Paddy	Stem borer, leaf roller, blast and sheath blight	-	Demonstration on IPDM in Paddy	3	-	-	-	-	-	-	1	16 ltr.
22.	Organic manure (Decompo	Areca husk	1) Huge quantity of areca husk is thrown on public places, it is burnt	-	Demonstration on decomposition of	3	2		2				3	150

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	
													No.	Kg
	sition)		and creates pollution 2) Very slow degradation because of high lignin content.		Areca husk for value added compost									
23.	Varietal introduction	Fodder sorghum	Lower palatability, lack of high yielding multicut fodder varieties, and lower milk production	-	Demonstration of high yielding fodder variety COFS-31									
24.	Food and Nutrition	Pineapple	Less knowledge on nutritional value of Pineapple and its value addition	-	Demonstration on preparation of Pineapple Jam	3	-	-	4	-	-	-	-	-
25.	Nutritional management	Fodder	• Low milk yield • Low fat	-	Urea Molasses mineral block (UMMB) supplementation in lactating cows under rural management practices	3	2	1	4	-	-	-	-	-
26.	Infertility management	Dairy	Infertility (28%) due to mineral deficiency, hormonal imbalance, parasitic infestation leads to decreased fertility, milk production and less number of calves per animal in the life span (economic loss).	-	Integrated management of reproductive disorders in dairy animals	2	1	1	4	-	-	-	-	-
27.	Clean milk production	Dairy animals	Subclinical mastitis, lower milk yield, quality deterioration of milk and economic loss	-	Demonstration of California mastitis test to detect mastitis in cows	4	2	1	4	-	-	-	-	-

3.B2. Details of technology used during reporting period

S. No	Title of Technology	Source of technology	Crop/enterprise	No. of programmes conducted			
				OFT	FLD	Training	Others (Specify)
1	2	3	4	5	6	7	8
1.	Assessment of improved fine rice varieties	KSNUAHS, Shivamogga ANGRAU, Hyderabad UAS, Raichur	Paddy	3	-	4	Field visits=6, Group Meeting=4 Farmers visit to KVK=30, CCC=20 Advisories over phone = 40
2.	Assessment of Groundnut varieties Under limited irrigation	UAS, Dharwad	Groundnut	3	-	3	Field visits=8, Group Meeting=3 Farmers visit to KVK=32, CCC=10 Advisories over phone = 18
3.	Assessment of Nano fertilizers (N & Zn) on Growth and Yield of Maize	KSNUAHS, Shivamogga and IFFCO-Nano Biotechnology Research Centre, Gujarath	Maize	3	-	2	Field visits=7, Group Meeting=2 Farmers visit to KVK=5, CCC=33 Advisories over phone = 21 Soil testing consultancy = 12
4.	Assessment of liquid seaweed extract on growth & yield of Tomato	KSNUAHS, Shivamogga and Council of Scientific and Industrial Research, Central Salt & Marine Chemical Research Institute (CSIR-CSMCRI), Bhavnagar, Gujarat & Rajasthan College of Agriculture, Udaipur-2011	Tomato	3	-	2	Field visits=3, Group Meeting=1 Method demonstration = 1 Farmers visit to KVK=5 CCC=8, Advisories over phone = 8 Soil testing consultancy = 3
5.	Assessment of Bhendi hybrids for adoptability	IIHR, Bengaluru and TNAU, Coimbatore	Bhendi	4	-	3	Field visits=4, Group Meeting=4 Farmers visit to KVK=10 CCC=30, Advisories over phone =45
6.	Assessment on Management of Blossom end rot and fruit cracking in tomato for yield enhancement	UHF, Nauni and IIHR, Bangalore	Tomato	3	-	3	Field visits=12, Group Meeting=5 Method demonstration = 6 Farmers visit to KVK=28 CCC=25, Advisories over phone = 27
7.	Assessment on management of shoot and fruit borer in bhendi	KSNUAHS, Shivamogga and IIVR, Varanasi	Bhendi	5	-	2	Field visits=10 Group Meeting=4 Farmers visit to KVK=10 CCC=31, Advisories over phone = 26
8.	Evaluation of devices for areca palm climbing	TNAU, Coimbatore and KSNUAHS, Shivamogga	Areca palm climbing devices	10	-	4	Group Meeting=2 Farmers visit to KVK=8 CCC=25, Advisories over phone = 16 Method demonstration = 4
9.	Comparative study on growth Performance of Kadaknath and Giriraja chickens in Malnad region	Rural farmers Madyapradesh	Poultry	4	-	2	Group Meeting=4 Farmers visit to KVK=3 Advisories over phone = 25
10.	Assessment on use of neem coated urea as a source of non protein nitrogen (NPN) in the diet of heifers	UAS, Dharwad and KVAFSU, Bidar	Dairy Animals	5	-	2	Group Meeting=2 Farmers visit to KVK=2 Advisories over phone = 10
11.	Demonstration of Ragi variety KMR-630	UAS Bangalore	Ragi	-	10	7	Field visits=6, Group Meeting=3 Farmers visit to KVK=15 CCC=10, Advisories over phone = 18 Field day= 1

S. No	Title of Technology	Source of technology	Crop/enterprise	No. of programmes conducted			
				OFT	FLD	Training	Others (Specify)
1	2	3	4	5	6	7	8
12.	Demonstration on DSR method of Paddy Cultivation	UAS, Raichur (2013)	Paddy	-	10	7	Field visits=5, Group Meeting=3 Farmers visit to KVK=15 CCC=20, Advisories over phone = 18 Field day= 1
13.	Demonstration on Integrated Crop Management in Maize	KSNUAHS, Shivamogga	Maize	-	5	3	Field visits=12, Group Meeting=3 Method demonstration =5 Farmers visit to KVK=24 CCC=14, Advisories over phone = 30
14.	Demonstration of Cowpea variety UAHS – 28	KSNUAHS, Shivamogga	Cowpea	-	10	1	Field visits=13, Group Meeting=2 Method demonstration=2 Farmers visit to KVK=18 CCC=20, Advisories over phone = 16
15.	Fertigation in Tomato for effective use of fertilizer	IIHR, Bangalore	Tomato	-	5	1	Field visits=8 Group Meeting=2 Method demonstration =5 Farmers visit to KVK=14 CCC=16, Advisories over phone = 19
16.	Integrated Crop Management in Ginger	KSNUAHS, Shivamogga and IISR, Calicut	Ginger	-	5	3	Field visits=14 Group Meeting=4 Farmers visit to KVK=30 CCC=32, Advisories over phone = 24 Soil testing consultancy= 30 Method demonstration = 5
17.	ICM in Cabbage	IIHR, Bengaluru	Cabbage	-	5	2	Field visits=12, Group Meeting=4 Farmers visit to KVK=15 CCC=28, Advisories over phone = 32
18.	Demonstration on Management of Leafhoppers and Powdery mildew in Mango	IIHR, Bengaluru	Mango	-	7	2	Field visits=4, Group Meeting=5 Farmers visit to KVK=12 CCC=15, Advisories over phone = 24
19.	Demonstration on management of heart rot in pineapple	UAS, Dharwad	Pineapple	-	5	2	Field visits=5, Group Meeting=2 Farmers visit to KVK=17 CCC=5, Advisories over phone = 27
20.	Management of Leaf minor and Fruit borer in Tomato	KSNUAHS, Shivamogga	Tomato	-	10	3	Field visits=8, Group Meeting=3 Farmers visit to KVK=10 CCC=8, Advisories over phone = 12 Method demonstration = 1
21.	Demonstration on IPDM in Paddy	KSNUAHS, Shivamogga	Paddy	-	8	2	Field visits=8 Group Meeting=2 Method demonstration = 3 Farmers visit to KVK=22 CCC=8, Advisories over phone = 17

S. No	Title of Technology	Source of technology	Crop/enterprise	No. of programmes conducted			
				OFT	FLD	Training	Others (Specify)
1	2	3	4	5	6	7	8
22.	Demonstration on decomposition of Areca husk for value added compost	KSNUAHS, Shivamogga	Arecanut	-	20	5	Field visits=6, Group Meeting=3 Farmers visit to KVK=32 Advisories over phone = 152 Method demonstration = 03
23.	Demonstration of high yielding fodder variety COFS-31	TNAU, Coimbatore	Fodder Sorghum (CoFS-31)	-	6	4	Field visits=6, Group Meeting=4 Farmers visit to KVK=20 Advisories over phone = 35
24.	Demonstration on preparation of Pineapple Jam	Pineapple Research Station (KAU), Vazahakulam	Value addition	-	4	3	Field visits=2, Group Meeting=2 Method demonstration = 2 Farmers visit to KVK=5 CCC=6, Advisories over phone = 27
25.	Integrated management of reproductive disorders in dairy animals	NDRI Bangalore and KVAFSU, Bidar	Dairy	-	10	3	Field visits=6, Group Meeting=8 Farmers visit to KVK=12 Advisories over phone = 22
26.	Demonstration of California mastitis test to detect mastitis in cows	KVAFSU, BIDAR	Dairy	-	10	4	Field visits=8, Group Meeting=6 Farmers visit to KVK=4 Advisories over phone = 12 Method demonstration = 10
27.	Molasses mineral block supplementation in lactating cows under rural management practices	NIANP, Bangalore	Dairy	-	10	2	Field visits=5 Group Meeting=8 Farmers visit to KVK=6 Advisories over phone = 10 Method demonstration = 6

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
2	-	1	-	-	-	-	-	33	16	12	9	54	23	19	8
2	-	1	-	-	-	-	-	23	8	10	5	32	12	14	3
-	3	-	-	-	-	-	-	38	12	4	0	40	18	20	2
-	-	2	1	-	-		-	48	10	16	4	12	4	12	1
2	-	2	-	-	-	-	-	36	21	19	11	25	47	18	23
1	-	2	-	-	-	-	-	11	21	9	17	38	18	27	12
1	-	4	-	-	-	-	-	24	13	11	9	13	5	29	21

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
7	-	3	-	-	-	-	-	7	-	3	-	34	2	19	-
3	-	1	-	-	-	-	-	20	8	8	2	28	10	8	2
4	-	1	-	-	-	-	-	30	2	6	-	12	2	4	-
-	-	-	-	6	1	3	-	53	18	21	11	21	12	15	6
-	-	-	-	6	2	2	-	44	25	14	9	33	19	16	6
-	-	-	-	3	2	-	-	48	13	2	0	80	8	34	2
-	-	-	-	10	-	-	-	26	12	8	3	39	11	17	4
-	-	-	-	4	-	1	-	19	4	7	2	42	12	4	3
-	-	-	-	3	2	-	-	54	8	4	2	88	6	44	1
-	-	-	-	1	-	4	-	13	10	25	14	27	10	36	18
-	-	-	-	6	-	1	-	18	7	10	6	27	18	8	3
-	-	-	-	5	-	-	-	19	12	4	2	32	14	8	3
-	-	-	-	6	-	4	-	15	8	21	12	18	5	25	16
-	-	-	-	8	-	-	-	23	16	6	4	109	23	15	7
-	-	-	-	15	1	4	-	68	15	18	4	52	12	9	5
-	-	-	-	-	3	-	1	6	47	2	24	12	56	8	21
-	-	-	-	6	1	-	3	28	8	10	2	14	4	2	-
-	-	-	-	6	-	4	-	36	10	12	4	24	4	10	2
-	-	-	-	9	-	1	-	18	4	6	2	10	3	2	2

PART IV - On Farm Trial

4.A1. Abstract on the number of technologies assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Integrated Nutrient Management	1	-	-	-	2	-	-	-	-	3
Varietal Evaluation	1	1	-	-	1	-	-	-	-	3
Integrated Pest Management	-	-	-	-	1	-	-	-	-	1
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	-	-	-	-	-	-	-	-	-	-
Cropping Systems	-	-	-	-	-	-	-	-	-	-
Farm Mechanization	-	-	-	-	-	-	-	1	-	1
Mushroom cultivation	-	-	-	-	-	-	-	-	-	-
others	-	-	-	-	-	-	-	-	-	-
Total	**2**	**1**	**-**	**-**	**4**	**-**	**-**	**1**	**-**	**8**

4.A2. Abstract on the number of technologies refined in respect of crops : NIL

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
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										
Cropping Systems										
Farm Mechanization										

Mushroom cultivation										
Others										
Total										

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

Thematic areas	Cattle	Poultry	Piggery	Rabbit	Fisheries	TOTAL
Evaluation of Breeds	-	1	-	-	-	1
Nutrition Management	1	-	-	-	-	1
Disease of Management	-	-	-	-	-	-
Value Addition	-	-	-	-	-	-
Production and Management	-	-	-	-	-	-
Feed and Fodder	-	-	-	-	-	-
Small Scale income generating enterprises	-	-	-	-	-	-
Dairy	-	-	-	-	-	-
Others (Pl. specify)	-	-	-	-	-	-
TOTAL	1	1	-	-	-	2

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

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	Tomato	Assessment on management of blossom end rot and fruit cracking in tomato for yield enhancement	3	3/ Narayanapura, Mallapura, Shivamogga taluk	0.60
	Maize	Assessment of Nano fertilizers (N & Zn) On Growth and Yield of Maize	3	3/ Harogoppa, Shikaripura taluk	0.90
	Tomato	Assessment of liquid seaweed extract on growth & yield of Tomato	3	3 / Nimbegondhi, Shikaripura taluk	0.90
Varietal Evaluation	Paddy	Assessment of improved fine rice varieties	3	3/Adderi, Hosanagara Taluk, Koragi, Konagavall, Shivamogga Taluk	1.20
	Ground nut	Assessment of Groundnut varieties Under limited irrigation	3	3/Guledahalli, Sidlipura, Bhadravathi Taluk Muddinakoppa, Shivamogga Taluk	1.20

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)
	Bhendi	Assessment of Bhendi hybrids for adoptability	4	4 / Muddinakoppa, Edawala, Shivamogga taluk	1.20
Integrated Pest Management	Bhendi	Management of Shoot and Fruit borer of Bhendi	5	5 / MCRP colony, Shikaripura taluk,Bhandarahalli,Bhadravati taluk	0.80
Integrated Crop Management					
Integrated Disease Management					
Small Scale Income Generation Enterprises					
Weed Management					
Resource Conservation Technology					
Farm Machineries	Arecanut	Evaluation of devices for climbing of Areca palm	10	4/Shikaripura, 3/Shivamogga, 3/Bhadravathi	-
Integrated Farming System					
Seed / Plant production					
Value addition					
Drudgery Reduction					
Storage Technique					
Mushroom cultivation					
Total			**34**		

4.B.2. Technologies Refined under various Crops : NIL

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					

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)
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	Poultry	Comparative study on growth performance of Kadaknath with other local breeds of backyard poultry	04	04, Bejjuvalli, Megaravalli, Hosabeedu, Bettabasaravani, Thirthahalli Taluk,
Nutrition management	Cattle	Assessment on use of neem coated urea as a source of non protein nitrogen (NPN) in lactating animals	05	5, Gadikoppa, Melinahanasavadi of Shivamogga Taluk
Disease management				
Processing and Value addition				
Production and management				
Feed and fodder management				
Small scale income generating enterprises				
Others, pl. specify				
Total			9	

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

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

Sl. No.	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	Farming 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	Irrigated	Low yield in existing varieties, incidence of Blast, Stem borer, BPH	Assessment of improved fine rice varieties	3	TO-1: JGL-1798: Susceptible to Stem borer & Blast, Duration: 130-135 days, Yield: 40q/ha	Farmers' practice	45.64	q/ha	Panicle density= 259.60 /m^2 Plant height= 88.62 cm	73024	26814	1.58
					TO-2:KMLT-4: Duration :120-125 days, High tillering, tolerant to Stem borer & Blast; Yield 55-60 q/ha	KSNUAHS, Shivamogga	60.73	q/ha	Panicle density= 295.56/ m^2 Plant height= 94.43 cm	97174	43666	1.81
					TO-3:RNR-15048: Duration : 125 days, Blast resistant, fine grain, Yield : 58-60 q/ha	ANGRAU, Hyderabad	55.18	q/ha	Panicle density= 271.53 /m^2 Plant height= 93.33 cm	88294	36518	1.70
					TO-4:Gangavathi sona {05-01} Duration: 130-135 day; resistant to BPH, Sheath Blight, Blast ; Yield : 65-70 q/ha . Year of Release - 2014	UAS, Raichur	54.10	q/ha	Panicle density= 266.90 /m^2 Plant height= 92.80 cm	85610	34029	1.66
Groundnut	Limited Irrigation	Low yield due to moisture stress, tikka disease, poor plant population / Sq m. (Improper spacing 30x15 cm) and lower seed rate @ 35 kg/acre	Performance of Groundnut varieties for better yield	3	TO-1:TMV-2	Farmers' Practice	15.30	q/ha	Pods/plant (Nos.) =18.66 Sheeling %=71.40	78030	29685	1.61
					TO-2:GPBD-4	UAS, Dharwad	18.34	q/ha	Pods/plant (Nos.) =25.33 Shelling %=74.10	93568	42189	1.82
					TO-3:G-2-52	UAS, Dharwad	19.42	q/ha	Pods/plant (Nos.) =33.73 Shelling %=77.23	99042	45709	1.85
Maize	Rainfed	High cost of production, High dose of fertilizer application, Less fertilizer use efficiency, No knowledge on Nano	Assessment of Nano fertilizers (N & Zn) on Growth and Yield of Maize	3 (30 gunta / trial	TO-1:Application of NP fertilizers as basal dose & top dressing with N fertilizer, non or less application of	Farmers' Practice	54.23	q/ha	Plant height=210.60 cm Cob weight = 192.21 gm Cob height = 13.27 cm	92197	45448	1.97

Crop/ enterprise	Farming 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
		fertilizers.			K fertilizer							
					TO-2:Soil test based nutrient management (RDF: FYM 7.5t/ha, Zinc Sulphate 10kg/ha, 100:50:25 NPK kg/ha) 50% N full P & K as basal, 50% N at 30 DAS	KSNUAHS, Shivamogga	61.00		Plant height= 215.60 cm Cob weight = 252.67 gm Cob length = 16.33 cm	103700	53400	2.06
					TO-3:Soil test based nutrient management: (RDF: FYM 7.5t/ha, Zinc Sulphate 5kg/ha, 50:50:25 NPK kg/ha) Application of 100 % N & 100% P & K as basal dose, N & Zn Nano fertilizers spray at 30DAS (4 ml/l) & second spray at 20 days after first spray	IFFCO-Nano Biotechnology Research Centre, Gujarath	67.13		Plant height= 221.80 cm Cob weight = 273.00 gm Cob height = 16.87 cm	114127	65027	2.32
Tomato	Irrigated	No knowledge on liquid seaweed extract & its importance in crop production	Assessment of liquid seaweed extract on growth & yield of Tomato	3 (30 gunta / trial)	TO-1:Imbalanced fertilizer application (NPK-120:80:50 /acre)	Farmers' Practice	627.55	(q/ha)	Plant height at 30 DAT (cm)= 60.20 Plant height at 60 DAT(cm)= 98.13 Fruits/plant (No.)= 63 Fruit borer incidence (%) = 25	564801	422968	3.98
					TO-2:Soil test based nutrient management (RDF: FYM 38 t/ha, 250:250:250 NPK kg/ha) + Vegetable special spray 5 gm/l	KSNUAHS, Shivamogga	699.75	(q/ha)	Plant height at 30 DAT (cm)= 51.00 Plant height at 60 DAT(cm)= 106.00 Fruits/plant (No.)= 79 Fruit borer incidence (%) = 16	629778	485978	4.37

Crop/ enterprise	Farming 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
					@ 45 DAT and other 2 sprays at 15 days interval							
					TO-3: Soil test based nutrient management (RDF: FYM 38 t/ha, 250:250:250 NPK kg/ha) + Liquid seaweed extract 5 ml/l foliar spray at 7 days before flowering and second spray at 7 days after flowering	Council of Scientific and Industrial Research, Central Salt & Marine Chemical Research Institute (CSIR-CSMCRI), Bhavnagar, Gujarat & Rajasthan College of Agriculture, Udaipur-2011	728.00	(q/ha)	Plant height at 30 DAT (cm)= 52.33 Plant height at 60 DAT(cm)= 106.86 Fruits/plant (No.) = 98 Fruit borer incidence (%)=11	655200	510700	4.53
Bhendi	Irrigated	Low yield, YVMV, Shoot and fruit borer incidence, inferior quality of fruits	Assessment of Bhendi hybrids for adoptability	3	Local hybrid (Shakti)	Farmers' Practice	132.25	q/ha	Shoot and fruit borer incidence (%)=21.80 YVMV incidence (%) =15.45	198375	116615	2.42
					Arka Nikitha	IIHR, Bengaluru	161.96	q/ha	Shoot and fruit borer incidence (%) =5.34 YVMV incidence(%) =4.00	242940	153120	2.70
					COBH-4	TNAU, Coimbatore	149.22	q/ha	Shoot and fruit borer incidence (%) =11.75 YVMV incidence(%) = NIL	223830	137760	2.57
Tomato	Irrigated	Blossom end rot and fruit cracking, Quantitative and qualitative yield loss	Assessment on Management of Blossom end rot and fruit cracking in tomato for yield	3	Tech. Option 1 : No micronutrients sprays	Farmers' Practice	601.10	q/ha	Average fruit weight (g) =85.34 Fruits/plant (No.)=72.20 Fruit borer incidence(%) =21	480880	356080	3.85

Crop/ enterprise	Farming 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
			enhancement						Fruit cracking (%)=22.59			
									Blossom end rot (%) =7.11			
					Tech. Option 2 : Application of borax (10 kg/ha) + Lime (10 kg/ ha) based on soil test	TNAU, Coimbatore			Average fruit weight (g) =92.55	522720	396970	4.15
									Fruits/plant (No.)= 83.95			
									Fruit borer incidence (%) =15.15			
									Fruit cracking (%)=7.54			
									Blossom end rot (%) =3.27			
					Tech. Option 3 : Foliar application of Boric acid (3.5 g/l) + CaCl2 (5 g/l) @ fruit set stage	UHF, Nauni			Average fruit weight (g) =97.25	529200	407400	4.34
									Fruits/plant (No.)= 87.80			
									Fruit borer incidence(%) =13.92			
									Fruit cracking (%)=4.60			
									Blossom end rot (%) =2.69			
					Tech. Option 4 : Foliar application of Arka Vegetable special (5 g/l) : 3 sprays 1st Spray 25 to 30 DAT, subsequent sprays at an interval of 20-25 days after 1st spray	IIHR, Bangalore			Average fruit weight (g) =91.30	511840	386980	4.09
									Fruits/plant (No.)= 80.18			
									Fruit borer incidence(%) =15.92			
									Fruit cracking (%)=4.88			
									Blossom end rot (%) =6.90			
Bhendi	Irrigated	Higher incidence of shoot and fruit borer	Assessment on management of shoot and fruit borer in bhendi	5	Indiscriminate use of insecticides	Farmers' Practice	112.26	q/ha	Shoot and Fruit borer (%)= 22.60	280655	210947	4.02
									YVMV incidence (%) = 24.60			
					Spraying of Quinolphos 25 EC @ 2ml/l and	KSNUAHS, Shivamogga	119.55	q/ha	Shoot and Fruit borer (%)= 15.40	298880	227856	4.20
									YVMV incidence(%) =			

Crop/ enterprise	Farming 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
					Malathion 50EC @ 2ml/l				15.60			
					1) Spraying of NSKE 4% @ 5 ml/l 2) Emamectin Benzoate @ 0.5 g/l 3) Spraying of B.t. @ 1 ml/l	IIVR, Varanasi	133.45	q/ha	Shoot and Fruit borer (%)= 7.8 YVMV incidence(%) = 9.00	333630	260166	4.54
Mechanisation	Kharif /Rabi /Summer	❖ Labour scarcity for climbing and harvesting of nuts ❖ Climbing of palm without any safety device may leads to accidents specially for the learners ❖ Confidence level is less in manual climbing	Evaluation of devices for areca palm climbing	10	Manual method of palm climbing	Farmers Practice			Days required for completion of harvesting arecanuts in 1 acre= 4.55 Climbing of trees per hour for harvesting (Nos.) (Efficiency per hour) = 13.72. income per day = Rs. 768,	-	-	-
					Mechanized device for Climbing of Areca palm	TNAU, Coimbatore			Days required for completion of harvesting arecanuts in 1 acre= 7.35. Climbing of trees per hour for harvesting (Nos.) (Efficiency per hour) =8.50. income per day = Rs. 476,	-	-	-
					Manual Climbing with safety device	KSNUAHS, Shivamogga			Days required for completion of harvesting arecanuts in 1 acre= 4.52 . Climbing of trees per hour for harvesting (Nos.) (Efficiency per hour) =13.82. income per day = Rs.774,	-	-	-
Poultry	-	Lower body weight, less no. of eggs per	Comparative study on	4	Local birds (Nati Koli)	Farmers practice	-	-	1) Native bird 6 week Avrg.chick weight =			

Crop/ enterprise	Farming 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
		bird, lower market price and low income.	growth Performance of Kadaknath and Giriraja birds in Malnad region						205 g 2) Mortality (%) = 1.3			
					Giriraja	KVAFSU, Bidar	-	-	2) Giriraja bird 6 week Avrg. chick weight = 510 g 2) Mortality (%) = 2.0			
					Kadaknath	Rural farmers of Madhya Pradesh	--	-	3) Kadaknath 6 week Avrg.c hick weight- 280 g 2) Mortality (%) = 1.3			
Dairy animals	-	Lower milk yield and fat content, increased inter calving period, higher feed cost (Protein source)	Assessment on use of neem coated urea as a source of non protein nitrogen (NPN) in the diet of heifers	5	18-22 kg GF+1kg Conc.feed +additional 1 kg con.feed per 2.5 lts milk yield + 4 kgs straw feeding	Farmers' Practice	Milk yield=9	l	**In progress**			
							Milk fat =3.6	%				
					18-22 kg GF+1kg conc.feed +additional 1 kg conc. feed per 2.5 lts milk yield + 4 kgs of 2% neem coated urea treated straw feeding	UAS, Dharwad	Milk yield=12	l				
							Milk fat =3.9	%				
					18-22 kg GF+1kg Conc.feed +additional 1 kg con.feed per 2.5 lts milk yield + 4 kgs 2 %fat coated urea treated straw feeding	KVAFSU, Bidar	Milk yield=11	l				
							Milk fat =3.8	%				

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
Assessment of improved fine rice varieties	Fine rice variety KMLT-4 is tolerant to pest and diseases. Farmers getting higher yield, more gross return and net return compared to with B:C ratio 1.81. Consumer preference is good. Hence farmers accepted this variety. Constraints : Seeds are not available in large scale	Seeds are not available in local market
Management of Shoot and Fruit borer of Bhendi	Spraying of (1) NSKE 4% @ 5 ml/l (2) Emamectin Benzoate @ 0.5 g/l (3) B.t. @ 1 ml/l recorded the lesser incidence of shoot and fruit borer in bhendi. Plant products and bio-pesticides are eco-friendly and safer to human beings. Constraints : The bio-pesticides are not easily available in the local market	B.t. is not available in local market.
Assessment of Nano fertilizers (N & Zn) on Growth and Yield of Maize	N & Zn Nano fertilizers spray at 30 DAS (4 ml/l) & second spray at 20 days after first spray recorded good growth and productivity. Cheaper than conventional urea. Constraint : Less availability of nano based fertilizers in market	Non availability in local market
Comparative study on growth performance of kadaknath with other local breeds of backyard poultry	Kadakanath plumage colour is attractive, birds are having lean body weight than improved varieties of backyard poultry of Karnataka, demand for meat (selective). Marketing may be the constraint	- In progress -
Assessment on use of neem coated urea as a source of non protein nitrogen (NPN) in lactating animals	Neem coated urea enriched fodder consumption is normal but sometimes animal reluctant to eat treated fodder- In progress	- In progress

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

1.	**Title of Technology Assessed**	:	Assessment of improved fine Rice Varieties
2.	**Performance of the Technology on specific indicators**	:	Technology 2: KMLT-4 fine rice variety performed superior with respect to yield and yield attributing characters. Pest and disease incidence was also less compared to other varieties viz., JGL – 1798, RNR – 15048 and Gangavathi Sona (05-01)
3.	**Specific Feedback from farmers**	:	Farmers opined that, variety KMLT-4 gives higher yield, and recorded lesser pest and disease incidence.
4.	**Specific Feedback from Extension personnel and other stakeholders**	:	The paddy variety KMLT-4 is a high yielding variety and the farmers are readily accept to grow this variety
5.	**Feedback to Research System based on results and feedback received**	:	Pest and disease tolerant fine rice varieties are to be developed
6.	**Feedback on usefulness and constraints of technology**		Seed production activity should be carried out

1.	**Title of Technology Assessed**	:	Management of Shoot and Fruit borer of Bhendi
2.	**Performance of the Technology on specific indicators**	:	Technology Option - 3: 1) Spraying of NSKE 4% @ 5 ml/l; 2) Emamectin Benzoate @ 0.5 g/l ; 3) Spraying of B.t. @ 1 ml/l. This technology is performed better and recorded lesser shoot and fruit borer incidence.
3.	**Specific Feedback from farmers**	:	Farmers opined that, spraying of NSKE 4% @ 5 ml/l +

			Emamectin Benzoate @ 0.5 g/l + Spraying of B.t. @ 1 ml/l recorded lesser incidence of shoot and fruit borer and higher yield and net returns.
4.	**Specific Feedback from Extension personnel and other stakeholders**	:	Plant products and bio-pesticides are eco-friendly and safer to human beings
5.	**Feedback to Research System based on results and feedback received**	:	Develop the high yielding and YVMV resistant hybrids
6.	**Feedback on usefulness and constraints of technology**	:	B.t. is not available in local market

1.	**Title of Technology Assessed**	:	Assessment of Nano fertilizers (N & Zn) on Growth and Yield of Maize
2.	**Performance of the Technology on specific indicators**	:	Technology Option - 3: N & Zn Nano fertilizers spray at 30 DAS (4 ml/l) & second spray at 20 days after first spray. This technology is performed better and recorded good growth and yield
3.	**Specific Feedback from farmers**	:	Farmers opined that, spraying of Nano fertilizers (N & Zn) @ 4 ml/l + FYM 7.5t/ha, Zinc Sulphate 5kg/ha, 50:50:25 NPK kg/ha. Application of 100 % N & 100% P & K as basal dose, cheaper than conventional urea, recorded good growth, higher yield and net returns.
4.	**Specific Feedback from Extension personnel and other stakeholders**	:	Reduce the 50 % urea consumption which interns increase the net returns increase the farmers income, environment friendly, improves nutritional value.
5.	**Feedback to Research System based on results and feedback received**	:	More research on nano based fertilizers and crop specific research should be taken.
6.	**Feedback on usefulness and constraints of technology**	:	Cheaper than conventional urea, Availability of nano based fertilizers in local market is less

1.	**Title of Technology Assessed**	:	Assessment of devices for climbing of Areca palm
2.	**Performance of the Technology on specific indicators**	:	Technology Option-3 : KSNUAHS, Shivamogga technology is better when compared to traditional method by using locally called 'Kottemane' and device of TNAU, Coimbatore. Days required for completion of 1 acre (Field Capacity)= 4.52, Efficiency= 13.82, Income (Per Day)= 774
3.	**Specific Feedback from farmers**	:	Farmers opined that, without any fear it is very easy to climb the palm with the device developed by KSNUAHS, Shivamogga and opined that, it is possible to take rest at the time of climbing.
4.	**Specific Feedback from Extension personnel and other stakeholders**	:	Manual climbing with safety device of KSNUAHS, Shivamogga is best device for climbing of areca palm compared to other climbing devices viz., traditional method by using locally called 'Kottemane' and device of TNAU, Coimbatore.
5.	**Feedback to Research System based on results and feedback received**	:	NIL
6.	**Feedback on usefulness and constraints of technology**	:	Without any fear it is very easy to climb the palm by using the device developed by KSNUAHS, Shivamogga

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
	Oilseeds													
	Pulses	Irrigated	*Summer*	Cowpea	UAHS–28	-	Resource conservation	• Demonstration of cowpea variety UAHS - 28 in paddy fallows • Seed treatment with PSB + Rhizobium 200 gm each per acre seeds	4.0	4.0	-	10	7	3
	Cereals	Irrigated	*Kharif*	Paddy	JGL-1798	-	Resource conservation	• Seed cum fertilizer drill • Herbicides • Soil test based application of fertilizers, RDF (FYM 3 t/acre, 20:15:16 NPK/acre)	4.0	4.0	2	8	3	7
		Irrigated	*Kharif*	Paddy	JGL-1798	-	Pest & disease Management	• IPM-Cultural and Mechanical methods • Release of *Trichograma* @ 1.0 lakh/acre • Spraying of Azadirachtin 10000 PPM @ 2.0 ml// • Spraying of Tricyclozole @ 0.6 gm// • Application of Chlorantraniliprole @ 4 kg / ac. • Spraying of Propiconazole 25 EC @ 1 ml//	3.2	3.2	-	5	3	2
		Rainfed	*Kharif*	Ragi	KMR-630	-	Variety introduction	Soil test based fertilizer: RDF (FYM 3 t/acre, 20:15:16 NPK/acre, *Azospirillum* 150 gm/acre seeds*)*	4.0	4.0	1	9	4	6
		Rainfed	*Kharif*	Maize+Redgram	BRG-5 (Red gram)	Kaveri gold (Maize)	Integrated Crop management	• Intercropping with Red gram 4:2 (BRG-5) • Red gram seed treatment with Rhizobium + PSB (200 gm each/ 1 Acre seeds) • Bio-fertilizer (*Azospirillum*	2.0	2.0	3	2	2	3

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
								and PSB) and *Trichoderma* enriched FYM application (1:20) @ 8 t/ha • Soil test based Lime application & RDF (Maize=100:50:25 kg. NPK / ha) (Red gram=30:50:30 kg. NPK / ha) • Zinc Sulphate @ 10 kg/ha • Chlorantraniliprole 18.5% SC @ 0.4 ml/l • Propiconazole 25 EC @ 1.0 ml /l						
	Millets													
	Vegetables	Irrigated	*Kharif*	Tomato	-	JK-818	Nutrient management	• Recommended stages for fertigation and Fertilizer dosage • Fertigation Methodology : Drip Irrigation Venturi System	2.0	2.0	1	4	3	2
		Irrigated	*Rabi*	Cabbage	-	Saint	Integrated crop management	• NPK application based on soil test (RDF:150:100:125 kg/ha) • Foliar application of IIHR-Vegetable special @ 0.1 % • Spraying of Bt @ 2 ml /l at 10 days after planting • Indoxicarb @ 0.5 ml/l • Neem soap spray @ 10 g/l • Pongamia soap @ 10 g/l	2.0	2.0	4	1	4	1
		Irrigated	*Kharif*	Tomato	-	JK-818	Integrated Pest Management	• Spraying of HaNPV @ 100 LE/acre • Spraying of Azardiractin 10000 PPM @ 2.0 ml/l. • Spraying of Imidachloprid 17.8 SL @ 0.3 ml / l.	4.0	4.0	4	6	5	5
	Flowers													
	Ornamenta													

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
	I													
	Fruit	Semi Irrigated	Rabi and summer	Mango	so	-	Integrated Pest management	• Spraying of Hexaconazole (1 ml/l) – powdery mildew • To control leaf hoppers spraying of Imidacloprid (0.30ml/lit) • Pruning of dry shoots and unwanted branches	0.7	0.7	1	6	3	4
		Irrigated	*Kharif*	Pineapple	King	-	Integrated Disease Management	Soil application of Trichoderma enriched Neem cake @ 20 gm/hill + Sucker treatment with Metalaxyl MZ @ 0.3%, Drenching with Metalaxyl Mz	2.0	2.0	-	5	2	3
				Pineapple	King	-	Food and Nutrition	Method demonstration on preparation of Pineapple Jam	4 Nos.	4 Nos.	1	3	2	2
	Spices and condiments	Irrigated	*Summer*	Ginger	Himachal	-	Integrated Crop management	• Soil test based Lime application & RDF (100:50:50 kg. NPK / ha) • Bio-agents *Trichoderma & Pseudomonas* enriched FYM application (1:100-150) @ 25 t/ha • Seed treatment with 0.4 % Mancozeb or 0.25% Metalaxyl + 0.05 % Streptocycline then 10 gm *Trichoderma*/kg seed • Ginger special (5 gm/l) Spray at 45 DAS and repeat every 45 days upto 6 months • COC (3 gm/l) + Streptocycline (0.5 gm/l) drenching for Rhizome rot	2.0	2.0	-	5	4	1
	Commercial													
	Medicinal and aromatic													

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
	Fodder	Irrigated	Kharif	Fodder sorghum	CoFS-31	-	Varietal introduction	• Demonstration of new variety COFS-31 • Scientific agronomic practices • Balanced ration practices	5.0	6.0	-	06	4	2
	Plantation													
	Fibre													
	Livestock	-	-	Dairy		HF/ Jersey	Nutritional management	Urea molasses mineral block as source of Energy, Protein and minerals	10	10	1	9	2	8
	Livestock	-	-	Dairy		HF/ Jersey	Clean milk production	• Washing of udder before and after milking with kmno4 solution • Hygienic management of cattle shed • Early diagnosis of mastitis by California mastitis test and infusion of antibiotic to prevent mastitis	10	10	04	06	5	5
	Livestock	-	-	Dairy		HF/ Jersey	Infertility management	• Deworming, control of ecto parasites and mineral mixture supplementation 15 days before synchronization • Feeding balanced ration • 1st day injecting GnRh hormone- 2.5 ml I/M per animal • 7th day injecting PGF2 hormone- 2.5 ml I/M per animal • 9th day injecting GnRh hormone- 2.5 ml I/M per animal • 10th day Artificial insemination • Scientific management practices	10	10	03	07	4	6
	Poultry													
	Rabbitry													

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
	Piggery													
	Sheep and goat													
	Duckery													
	Common carps													
	Mussels													
	Ornamental fishes													
	Oyster mushroom													
	Button mushroom													
	Vermi compost	Irrigated and rainfed	Both Kharif and Rabi	Arecanut	-	-	Organic manure (Decomposition)	Layer-wise filling of arecanut husk + decomposing culture (*Phanerochaete chrysosporium*)	20 units	20 units	4	16	14	6
	Sericulture													
	Apiculture													
	Implements													
	Others (specify)													

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

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	
	Oilseeds												
	Pulses	Irrigated	*Summer,* 2022	Cowpea	UAHS–28	-	Resource conservation	• Demonstration of cowpea variety UAHS - 28 in paddy fallows • Seed treatment with PSB + Rhizobium 200 gm each per acre seeds	*Summer,* 2022	M	H	M	Paddy
	Cereals	Irrigated	*Kharif,* 2021	Paddy	JGL-1798	-	Resource conservation	• Seed cum fertilizer drill • Herbicides • Soil test based application of fertilizers, RDF (FYM 3 t/acre, 20:15:16 NPK/acre)	*Kharif,* 2021	L	H	M	Paddy
		Irrigated	*Kharif,* 2021	Paddy	JGL-1798	-	Pest & disease Management	• IPM-Cultural and Mechanical methods • Release of *Trichograma* @ 1.0 lakh/acre • Spraying of Azadirachtin 10000 PPM @ 2.0 ml// • Spraying of Tricyclozole @ 0.6 gm// • Application of Chlorantraniliprole @ 4 kg / ac. • Spraying of Propiconazole 25 EC @ 1 ml//	*Kharif,* 2021	L	H	M	Paddy
		Rainfed	*Kharif,* 2021	Ragi	KMR-630	-	Variety introduction	Soil test based fertilizer: RDF (FYM 3 t/acre, 20:15:16 NPK/acre, *Azospirillum* 150 gm/acre seeds*)*	*Kharif,* 2021	L	H	M	Groundnut
		Rainfed	*Kharif,* 2021	Maize + Redgram	BRG-5 (Red gram)	Kaveri gold (Maize)	Integrated Crop management	• Intercropping with Red gram 4:2 (BRG-5) • Red gram seed treatment with Rhizobium + PSB (200 gm each/ 1 Acre seeds) • Bio-fertilizer (*Azospirillum* and PSB) and *Trichoderma* enriched FYM application (1:20) @ 8 t/ha • Soil test based Lime application & RDF (Maize=100:50:25 kg. NPK /	*Kharif,* 2021	M	M	M	Maize

Sl. No.	Category	Farming Situation	Season and	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Season and year	Status of soil			Previous crop
								ha) (Red gram=30:50:30 kg. NPK / ha) • Zinc Sulphate @ 10 kg/ha • Chlorantraniliprole 18.5% SC @ 0.4 ml/l • Propiconazole 25 EC @ 1.0 ml /l					
	Millets												
	Vegetables	Irrigated	*Kharif,* 2021	Tomato	-	JK-818	Nutrient management	• Recommended stages for fertigation and Fertilizer dosage • Fertigation Methodology : Drip Irrigation Venturi System	*Kharif,* 2021	M	H	L	Maize
		Irrigated	*Rabi* 2021	Cabbage	-	Saint	Integrated crop management	• NPK application based on soil test (RDF:150:100:125 kg/ha) • Foliar application of IIHR-Vegetable special @ 0.1 % • Spraying of Bt @ 2 ml /l at 10 days after planting • Indoxicarb @ 0.5 ml/l • Neem soap spray @ 10 g/l • Pongamia soap @ 10 g/l	*Rabi,* 2021	M	L	H	Maize
		Irrigated	*Kharif,* 2021	Tomato	-	JK-818	Integrated Pest Management	• Spraying of HaNPV @ 100 LE/acre • Spraying of Azardiractin 10000 PPM @ 2.0 ml/l. • Spraying of Imidachloprid 17.8 SL @ 0.3 ml / l.	*Kharif,* 2021	L	M	H	Maize
	Flowers												
	Ornamental												
	Fruit	Semi Irrigated	Rabi and summer, 2021-22	Mango	Alphanso	-	Integrated Pest management	➢ Spraying of Hexaconazol e (1 ml/l) – powdery mildew ➢ To control leaf hoppers spraying of Imidacloprid (0.30ml/lit) ➢ Pruning of dry shoots and unwanted branches	Rabi and summer 2021-22	L	H	M	Mango
		Irrigated	*Kharif,* 2021	Pineapple	King	-	Integrated Disease Management	Soil application of Trichoderma enriched Neem cake @ 20 gm/hill + Sucker treatment with Metalaxyl MZ @ 0.3%, Drenching with Metalaxyl Mz	*Kharif 2021*	L	H	M	Maize

Sl. No.	Category	Farming Situation	Season and	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Season and year	Status of soil			Previous crop
		-	-	Pineapple	King	-	Food and Nutrition	Method demonstration on preparation of Pineapple Jam	-	-	-	-	-
	Spices and condiments	Irrigated	*Summer* , 2021	Ginger	Himachal	-	Integrated Crop management	• Soil test based Lime application & RDF (100:50:50 kg. NPK / ha) • Bio-agents *Trichoderma & Pseudomonas* enriched FYM application (1:100-150) @ 25 t/ha • Seed treatment with 0.4 % Mancozeb or 0.25% Metalaxyl + 0.05 % Streptocycline then 10 gm *Trichoderma*/kg seed • Ginger special (5 gm/l) Spray at 45 DAS and repeat every 45 days upto 6 months • COC (3 gm/l) + Streptocycline (0.5 gm/l) drenching for Rhizome rot	*Summer 2021*	M	M	M	Maize
	Commercial												
	Medicinal and aromatic												
	Fodder	Irrigated	Kharif 2021	Fodder Sorghum	CoFS-31	-	Varietal introduction	• Demonstration of new variety COFS-31 • Scientific agronomic practices • Balanced ration practices	Kharif 2021	L	H	M	Maize
	Plantation												
	Fibre												
	Poultry												
	Rabbitry												
	Piggery												
	Sheep and goat												
	Duckery												
	Common carps												

Sl. No.	Category	Farming Situation	Season and	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Season and year	Status of soil			Previous crop
	Mussels												
	Ornamental fishes												
	Oyster mushroom												
	Button mushroom												
	Vermicompost	Irrigated and Rainfed	-	Areca nut	-	-	Organic manure (Decomposition)	Layer-wise filling of arecanut husk + decomposing culture (*Phanerochaete chrysosporium*)	-	-	-	-	-
	Sericulture												
	Apiculture												
	Implements												
	Others (specify)												

5.B. Results of FLDs

5.B.1. Crops

Crop	Name of the technology demonstrated	Variety	Hybrid	Farming situation	No. of Demo.	Area (ha)	Yield (q/ha)				% Increase	Economics of demonstration (Rs./ha)			Economics of check (Rs./ha)		
							Demo			Check		Gross Return	Net Return	BCR	Gross Return	Net Return	BCR
							H	L	A								
Oilseeds																	
Pulses	Demonstration of Cowpea variety UAHS – 28	UAHS – 28	-	Irrigated	10	4.0	10.94	8.47	10.40	9.16	13.53	67808	43648	2.80	58807	35077	2.47

Crop	Name of the technology demonstrated	Variety	Hybrid	Farming situation	No. of Demo.	Area (ha)	Yield (q/ha)				% Increase	Economics of demonstration (Rs./ha)			Economics of check (Rs./ha)		
							Demo			Check		Gross Return	Net Return	BCR	Gross Return	Net Return	BCR
							H	L	A								
Cereals	Demonstration on DSR method of Paddy Cultivation under irrigated situation	JGL-1798	-	Irrigated	10	4.0	50.68	45.38	48.03	51.80	-	77743	47158	2.54	83836	32340	1.63
	Demonstration on IPDM in Paddy	JGL-1798	-	Irrigated	8	3.2	54.2	51.8	53.08	47.85	10.92	108868	75418	3.25	98095	62045	2.72
	Demonstration of Ragi variety KMR-630	KMR-630	-	Rainfed	4	1.0	33.09	26.92	29.71	25.40	16.96	77269	50062	2.84	66053	40840	2.62
	Demonstration on integrated crop management in Maize	BRG-5 (Red gram)	Kaveri gold (Maize)	Rainfed	5	2.0	35.40	33.40	34.06	49.68	-	80886	40532	2.00	79488	36360	1.84
							4.30	3.80	4.06	-							
Millets																	
Vegetables	Demonstration on fertigation in Tomato	-	JK-818	Irrigated	5	2.0	895.26	687.46	861.32	**716.35**	20.23	473726	336166	3.44	393992	264562	3.04
	Demonstration on ICM in Cabbage	-	Saint	Irrigated	5	2.0	317.5	287.4	301.3	259.8	15.97	195871	110955	2.30	168870	75380	1.80
	Demonstration on Management of Leaf minor and Fruit borer in Tomato	-	JK-818	Irrigated	10	4.0	745.90	610.23	675.24	583.18	15.78	540198	419366	4.47	466544	352661	4.09
Flowers																	
Ornamental																	
Fruit	Demonstration on Management of Leafhoppers and Powdery mildew in Mango	Alphanso	-	Semi Irrigated	7	0.7	In progress										
	Demonstration on management of Heart rot disease in pineapple	King	-	Irrigated	5	2.0	In progress										

Crop	Name of the technology demonstrated	Variety	Hybrid	Farming situation	No. of Demo.	Area (ha)	Yield (q/ha)				% Increase	Economics of demonstration (Rs./ha)			Economics of check (Rs./ha)		
							Demo			Check		Gross Return	Net Return	BCR	Gross Return	Net Return	BCR
							H	L	A								
	Demonstration on preparation of Pineapple Jam	Queen	-	-	4 Nos.	-	-	-	-	-	-	17500	10700	1.61	-	-	-
Spices and condiments	Demonstration on Integrated Crop Management in Ginger	Himachal	-	Irrigated	5	2.0	418.70	384.50	402.50	344.90	16.80	724428	426448.50	2.43	620820	287905.80	1.87
Commercial																	
Fibre crops like cotton																	
Medicinal and aromatic																	
Fodder	Demonstration of high yielding fodder	COFS-31	-	Irrigated	6	6.0	1100	950	1050	1200	In progress (4 cuttings completed)						
Plantation																	
Fibre																	
Organic farming	Decomposition of arecahusk for value added compost	-	-	Irrigated and rainfed	20	0.2	15	-	-	-	-	-	15000	-	-	-	-

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

Data on additional parameters other than yield (viz., reduction of percentage in weed/ pest/diseases etc.)

Demonstration on Integrated crop management in Cabbage			
Parameter with unit		**Demo**	**Check**
Head weight (kg)		1.49	1.31
Diamondback math incidence (%)	30 DAT	9.33	17.33
	60 DAT	13.06	25.60

Demonstration of Ragi variety KMR-630		
Parameter with unit	**Demo**	**Check**
Plant height (cm)	104.05	99.08
Tillers/plant (Nos.)	4.13	2.66
Ear head/plant (Nos.)	3.74	2.88
Straw yield (tons/ha)	5.10	4.70

Demonstration on DSR method of paddy cultivation		
Parameter with unit	**Demo**	**Check**
Seeds (kg/ ha)	25	62.50
Plant height (cm)	96.70	94.50
No. of tillers / plant	19.80	27.30
No. of panicles / plant	13.62	15.31
Stem borer incidence (%)	8.09	15.40
Blast incidence (%)	6.98	17.68
Labour saving (%)	48.90	-
Labour cost (Rs./ha)	11600	23000
Production cost (Rs./ha)	18985	28496

Demonstration on IPDM in Paddy		
Parameter with unit	**Demo**	**Check**
Blast incidence (%)	2.57	16.93
Stem borer incidence (%)	5.11	18.14
Leaf roller incidence (%)	3.50	13.89

Demonstration on integrated crop management in Maize		
Parameter with unit	**Demo**	**Check**
Fall army warm (%)	5.50	16.05
Stem borer (%)	5.01	14.55
Turcicum leaf blight (%)	3.88	9.22
Pod borer (%)	7.52	-

Demonstration on Management of Leaf minor and Fruit borer in Tomato		
Parameter with unit	**Demo**	**Check**
Leaf minor incidence (%)	6.82	23.66
Fruit borer incidence (%)	5.94	19.84

Demonstration on fertigation in Tomato

Parameter with unit	Demo	Check
Average fruit weight (g)	89.30	83.70
Fruits/plant (No.)	78.10	69.30
Days to maturity (For 1st harvest)	68	72
Fruit borer incidence (%)	11.70	18.60
Demonstration of Cowpea variety UAHS–28		
Parameter with unit	**Demo**	**Check**
YMD (%)	6.38	11.36
Pod borer incidence (%)	6.23	12.41
Crop duration (days)	82	91

Integrated Crop Management in ginger		
Parameter with unit	**Demo**	**Check**
Plant height @ 120 DAS (cm)	57.32	49.44
Plant height @ 180 DAS (cm)	73.68	61.50
Number of suckers per plant @ 120 DAS	11.00	8.60
Number of suckers per plant @ 180 DAS	14.00	10.40
Rhizome weight per plant (gm)	167.03	158.22
Rhizome rot incidence (%)	13.80	29.40

5. B2. Feedback on technologies demonstrated

Name of technology demonstrated	Useful characters as well as constraints of technology	Socio-economic as well as administrative constraints for its adoption
Demonstration on ICM in Cabbage	Higher yield and less incidence of DBM was noticed in ICM technology. The spraying of vegetable special, neem soap, pongamia soap and Bt safer to human beings. Farmers getting higher yield, more gross return and net return compared to the farmers' practice. **Constraint:** Availability of Bt is the constraint. Not easily available.	Availability of Bt is the constraint. Not easily available. Neem soap, Pongamia Soap are not available in local market.

Name of technology demonstrated	Useful characters as well as constraints of technology	Socio-economic as well as administrative constraints for its adoption
Demonstration on DSR Method for paddy cultivation	Cost of cultivation is less, farmers getting more profit with B: C ratio of 2.54. **Constraint:** Weed problem	Main constraint is weed problem and sowing depends on rain fall.

Name of technology demonstrated	Useful characters as well as constraints of technology	Socio-economic as well as administrative constraints for its adoption
Demonstration of Ragi variety KMR-630	Variety KMR-630 gives higher grain yield and also good quality of fodder and also higher net returns with B:C ratio of 2.84 **Constraint:** Non availability of KMR-630 seeds	**Constraint:** Non availability of KMR-630 seeds

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

Major pest and disease management in paddy	Pest and disease incidence was lesser in IPDM technology. Farmers getting higher yield, more gross return and net return compared to the farmers' practice. **Constraint :** Availability of Bioagents *are* the constraint. Not easily available.	Plant products and bio-pesticides are not available in the local markets.
Decomposition of arecahusk for value added compost	The decomposition culture is very useful in degrading the areca husk within 160 to 180 days. The compost obtained from areca husk is very rich in potassium and other nutrients compared to vermicompost	Needs awareness on use of decomposition culture

Name of technology demonstrated	Useful characters as well as constraints of technology	Socio-economic as well as administrative constraints for its adoption
Method demonstration on preparation of Pineapple Jam	Earning more gross return and net return from value added pineapple jam as compared to the direct sale. **Constraint:** Well equipped laboratory is not easily available.	Non availability of Lab equipments is the constraint

Name of technology demonstrated	Useful characters as well as constraints of technology	Socio-economic as well as administrative constraints for its adoption
Demonstration on integrated crop management in Maize	1. Less incidence of pest (fall armyworm on maize) 2. Less weed infestation 4. Good crop growth Less cost of cultivation, High gross and net returns with high B:C ratio	Farmers are not ready to practice intercropping system in maize.

5. B.3. Livestock and related enterprises

Type of livestock	Name of the technology demonstrated	Breed	No. of Demo	No. of Units	Name of the parameter with unit	Yield (kg/animal)				% Increase	*Economics of demonstration (Rs./unit)			*Economics of check (Rs./unit)		
						Demo			Check if any		Gross Return	Net Return	** BCR	Gross Return	Net Return	** BCR
						H	L	A								
Dairy	Urea Molasses mineral block (UMMB) supplementation in lactating cows under rural management practices	HF/Jersey	10	10	• Milk yield (L) • Fat (%)	12 4.3	16 3.7	15 4	12 3.6	IN PROGRESS						
Dairy	Integrated management of reproductive disorders in dairy animals	HF/Jersey	10	10	• Conceive % • No. of AI / conceive • Fertility %	64 02 -	59 03 -	62 02 -	27 05 -	Animals are in 3-4 months gestation period IN PROGRESS						
Dairy	Demonstration of California mastitis test to detect mastitis in cows	HF/Jersey	10	10	• Mastitis incidence (%) • Milk yield (liters) • Cost of treatment (Rs)	10 16	05 14	32 13 105	06 10 1050	12	29295	18795	2.79	28523	17373	2.56
Poultry																
Rabbitry																
Pigerry																
Sheep and goat																
Duckery																
Others (pl.specify)																

Data on additional parameters other than yield (viz., reduction of percentage diseases, increase in conceiving rate, inter-calving period etc.)

Data on other parameters in relation to technology demonstrated		
Parameter with unit	**Demo**	**Check if any**
Subclinical mastitis incidence detection (%)	22	06
Milk yield (reduction) liters/day	1.22 (8.4%)	2.88 (19.2%)

5. B4. Feedback on livestock technologies demonstrated: NIL

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

5. B.5. Fisheries : NIL

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)				% Increase	*Economics of demonstration (Rs./unit)			*Economics of check (Rs./unit)		
						Demo			Check if any		Gross Return	Net Return	** BCR	Gross Return	Net Return	** BCR
						H	L	A								
Common carps																
Mussels																
Ornamental fishes																
Others (pl.specify)																

Data on additional parameters other than yield (viz., reduction of percentage diseases, effective use of land etc.) : NIL

Data on other parameters in relation to technology demonstrated		
Parameter with unit	**Demo**	**Check if any**

5. B6. Feedback on fisheries technologies demonstrated : NIL

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

5.B.7. Other enterprises : NIL

Enterprise	Name of the technology demonstrated	Variety/ species	No. of Demo	Units/ Area {m^2}	Name of the parameter with unit	Yield				% Increase	*Economics of demonstration (Rs./unit) or (Rs./m2)			*Economics of check (Rs./unit) or (Rs./m2)		
						Demo			Check if any		Gross Return	Net Return	** BCR	Gross Return	Net Return	** BCR
						H	L	A								
Oyster mushroom																
Button mushroom																
Vermicompost																
Sericulture																
Apiculture																
Others (pl.specify)																

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

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

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	6	166	
2.	Farmers Training	22	848	
3.	Media coverage	18	-	
4.	Training for extension functionaries	--	-	-
5.	Others (Please specify)			
5a	Group discussion	10	189	
5b	Method demonstration	12	192	
5c	Field visits	52	148	
5d	Advisory service over phone	82	82	
5e	Farmers visit to KVK	112	112	
5f	Citizen Client's Charter	382	382	

PART VI – DEMONSTRATIONS ON CROP HYBRIDS

Demonstration details on crop hybrids : NIL

Type of Breed	Name of the technology demonstrated	Name of the hybrid	No. of Demo	Area (ha)	Yield (q/ha)				% Increase	*Economics of demonstration (Rs./ha)			*Economics of check (Rs./ha)		
					Demo			Check		Gross Return	Net Return	** BCR	Gross Return	Net Return	** BCR
					H	L	A								
Cereals															
Bajra															
Maize															
Paddy															
Sorghum															
Wheat															
Others (pl.specify)															
Total															
Oilseeds															
Castor															
Mustard															
Safflower															
Sesame															
Sunflower															
Groundnut															
Soybean															
Others (pl.specify)															
Total															
Pulses															
Greengram															
Blackgram															
Bengalgram															
Redgram															
Others (pl.specify)															
Total															
Vegetable crops															
Bottle gourd															

Type of Breed	Name of the technology demonstrated	Name of the hybrid	No. of Demo	Area (ha)	Yield (q/ha)				% Increase	*Economics of demonstration (Rs./ha)			*Economics of check (Rs./ha)		
					Demo			Check		Gross Return	Net Return	** BCR	Gross Return	Net Return	** BCR
					H	L	A								
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															

Feedback on crop hybrids demonstrated: NIL

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 Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production										
Weed Management										
Resource Conservation Technologies										
Cropping Systems	1	24	0	24	8	0	8	32	0	32
Crop Diversification										
Integrated Farming	2	25	2	27	11	0	11	36	2	38
Micro Irrigation/Irrigation										
Seed production	1	10	8	18	11	2	13	21	10	31
Nursery management										
Integrated Crop Management	2	36	5	41	5	2	7	41	7	48
Soil and Water Conservation										
Integrated Nutrient Management	1	40	10	50	10	11	21	50	21	71
Production of organic inputs										
Others (pl.specify)										
Horticulture										
a) Vegetable Crops										
Production of low value and high volume crop	2	25	20	45	8	13	21	33	33	66
Off-season vegetables										
Nursery raising	5	81	55	136	34	26	60	115	80	195
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Others (pl.specify)										
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit										
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques	1	31	9	40	12	7	19	43	16	59
Others (pl.specify)										
c) Ornamental Plants										
Nursery Management	1	10	2	12	1	2	3	11	4	15
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl.specify)										
d) Plantation crops										
Production and Management technology	3	38	19	57	16	8	24	54	27	81
Processing and value addition										
Others (pl.specify)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
f) Spices										

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (pl.specify)										
Soil Health and Fertility Management										
Soil fertility management	2	54	3	57	3	0	3	57	3	60
Integrated water management										
Integrated nutrient management	2	33	0	33	18	0	18	51	0	51
Production and use of organic inputs										
Management of Problematic soils	1	4	5	9				4	5	9
Micro nutrient deficiency in crops										
Nutrient use efficiency										
Balanced use of fertilizers										
Soil and water testing										
Others (pl.specify)										
Green manuring	1	4	10	14	6	5	11	10	15	25
Livestock Production and Management										
Dairy Management	2	100	18	126	22	10	32	122	38	158
Poultry Management	1	45	5	50	28	4	32	73	9	82
Piggery Management										
Rabbit Management										
Animal Nutrition Management										

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Animal Disease Management										
Feed and Fodder technology										
Production of quality animal products										
Others (pl.specify)										
Sheep and goat rearing	2	12	10	82	18	11	29	90	21	111
Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	5	84	153	237	49	128	177	133	282	415
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing										
Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition	4	22	55	78	0	7	7	22	62	84
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										

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Post Harvest Technology										
Others (pl.specify)										
Coconut palm climbing through machine	5	95	4	99	8	0	12	103	12	115
Plant Protection										
Integrated Pest Management	2	50	22	72	10	13	23	60	35	95
Integrated Disease Management	1	8	30	38	2	16	18	10	46	56
Bio-control of pests and diseases										
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										
Hatchery management and culture of freshwater prawn										
Breeding and culture of ornamental fishes										
Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
Others (pl.specify)										
Production of Inputs at site										
Seed Production										
Planting material production										

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production	1	16	0	16	15	0	15	16	15	31
Vermi-compost production	2	11	50	61	3	22	35	14	82	96
Organic manures production	2	16	7	23	6	7	12	22	6	28
Production of fry and fingerlings										
Production of Bee-colonies and wax sheets										
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
Mushroom production										
Apiculture	6	78	48	126	31	13	44	109	61	170
Others (pl.specify)										
Solid waste management	2	0	52	52	0	19	19	0	71	71
Capacity Building and Group Dynamics	7									
Leadership development										
Group dynamics										
Formation and Management of SHGs	2	7	34	41	4	16	20	11	50	61
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
Others (pl.specify)										
Farmers producers organization	2	38	8	46	43	0	43	81	8	89
New form acts	2	13	45	58	13	9	22	26	54	80
Agro-forestry										
Production technologies	1	28	6	34	5	2	7	33	8	41
Nursery management										

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Integrated Farming Systems										
Others (Pl. specify)										
TOTAL	**74**	**1038**	**695**	**1802**	**400**	**353**	**766**	**1483**	**1083**	**2564**

7.B Training of Farmers and Farm Women 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
Crop Production										
Weed Management										
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming	4	81	8	89	60	2	62	141	10	151
Micro Irrigation/Irrigation	1	10	2	12	2	2	4	12	4	16
Seed production										
Nursery management	4	24	25	49	9	10	19	33	35	68
Integrated Crop Management										
Soil and Water Conservation	1	15	5	20	3	2	5	18	7	25
Integrated Nutrient Management										
Production of organic inputs										
Others (pl.specify)										
Organic farming	1	18	2	20	8	0	8	26	2	28
Rain water harvesting	2	9	8	17	5	5	10	14	13	26
Horticulture										
a) Vegetable Crops										

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Production of low value and high volume crop	2	21	8	29	8	4	12	29	12	41
Off-season vegetables	1	0	19	19	0	12	12	0	31	31
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl.specify)										
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit										
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (pl.specify)										
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl.specify)										
d) Plantation crops										
Production and Management technology										

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Processing and value addition										
Others (pl.specify)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
f) Spices										
Production and Management technology	1	10	3	13	2	0	2	12	3	15
Processing and value addition										
Others (pl.specify)										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (pl.specify)										
Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated nutrient management	1	10	0	10	0	0	0	10	0	10
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient use efficiency										
Balanced use of fertilizers										
Soil and water testing	1	35	0	35	0	0	0	35	0	35
Others (pl.specify)										

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Livestock Production and Management										
Dairy Management	1	6	0	6	6	0	6	12	0	12
Poultry Management	1	20	0	20	16	0	16	36	0	36
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Animal Disease Management										
Feed and Fodder technology										
Production of quality animal products										
Others (pl.specify)										
Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening										
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing										
Processing and cooking	1	4	0	5	3	13	16	7	13	20
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition	1	1	13	14	0	0	0	1	13	14
Women empowerment										
Location specific drudgery production										
Rural Crafts										
Women and child care										
Others (pl.specify)										
Agril. Engineering										
Farm machinery and its maintenance	1	7	1	8	2	0	2	9	1	10

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
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	1	6	3	9	0	0	0	6	3	9
Integrated Disease Management	1	10	3	13	3	0	3	13	3	16
Bio-control of pests and diseases	1	0	21	21	11	0	11	11	21	32
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										
Hatchery management and culture of freshwater prawn										
Breeding and culture of ornamental fishes										
Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Others (pl.specify)										
Production of Inputs at site										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production										
Organic manures production										
Production of fry and fingerlings										
Production of Bee-colonies and wax sheets										
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
Mushroom production										
Apiculture	1	27	2	29	13	2	15	40	4	44
Others (pl.specify)										
Capacity Building and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of SHGs	1	26	5	31	10	1	11	36	6	42
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
Others (pl.specify)										
Advantages of FPO	5	69	6	75	28	3	31	97	9	106
Crop insurance scheme	1	7	0	7	3	0	3	10	0	10

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Doubling the farmers income	1	7	0	7	3	0	3	10	0	10
Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (Pl. specify)										
Organic farming	1	11	7	18	8	4	12	19	11	30
TOTAL	**37**	**434**	**141**	**576**	**203**	**60**	**263**	**637**	**201**	**837**

7.C.Training for Rural Youths 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
Nursery Management of Horticulture crops	1	11	4	15	1	3	4	12	7	19
Training and pruning of orchards										
Protected cultivation of vegetable crops	1	0	20	20	0	13	13	0	33	33
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping										
Sericulture	2	37	11	48	6	0	6	43	11	54
Repair and maintenance of farm machinery and implements										
Value addition										

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Small scale processing	2	11	41	52	0	0	0	11	41	52
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
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 (pl.specify)										
Coconut palm climbing through machine	2	55	4	59	1	0	1	56	4	60
TOTAL	**8**	**114**	**80**	**194**		**8**		**16**	**24**	**122**

7.D. Training for Rural Youths including sponsored training programmes (off campus) : NIL

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl.specify)										
TOTAL										

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										
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										

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Capacity building for ICT application										
Management in farm animals	1									95
Livestock feed and fodder production										
Household food security										
Any other (pl.specify)										
New farm act	1	5	4	9	0	0	0	5	4	9
Capacity building for directors	2	70	16	86	23	13	36	93	29	122
Total	**4**	**75**	**20**	**95**	**23**	**13**	**36**	**98**	**33**	**226**

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

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										
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										

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Any other (pl.specify)										
Total										

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										
1.b.	Commercial production of vegetables	1	0	20	20	0	13	13	0	33	33
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										
7.b.	Others (pl.specify)										
	Vermicompost	1	10	30	40	3	14	17	13	44	57
	Solid waste management	2	0	52	52	0	19	19	0	71	71
8	**Farm machinery**										

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
8.a.	Farm machinery, tools and implements										
8.b.	Others (pl.specify)										
	Nursery management	1	31	14	45	18	8	26	49	22	71
9.	**Livestock and fisheries**										
10	**Livestock production and management**										
10.a.	Animal Nutrition Management	1	45	5	50	28	4	32	73	9	82
10.b.	Animal Disease Management										
10.c	Fisheries Nutrition										
10.d	Fisheries Management										
10.e.	Others (pl.specify)										
	Sheep and goat rearing	2	72	10	82	18	11	29	90	21	111
	Scientific poultry farming	1	45	5	50	28	4	32	73	9	82
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	1	32	8	40	18	7	25	50	15	65
12.b.	Others (pl.specify)										
	Farmers producers organisation	1	38	8	46	11	0	11	49	8	57
	Total	**11**	**273**	**152**	**425**	**124**	**80**	**204**	**397**	**232**	**629**

Details of sponsoring agencies involved

1. DATC, Shivamogga, Hallikere
2. NGO CRDS, Shivamogga
3. ATMA, KSDA,
4. SKDRDP
5. ASARE, NGO

7.H. Details of Vocational Training Programmes carried out by KVKs for rural youth

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.	Commercial floriculture										
1.b.	Commercial fruit production										
1.c.	Commercial vegetable production										
1.d.	Integrated crop management										
1.e.	Organic farming										
1.f.	Others (pl.specify)										
2	**Post harvest technology and value addition**	3	12	28	40	32	7	39	44	35	79
	Awareness on livelihood upliftment of SC people	1	0	0	0	32	0	32	32	0	32
2.a.	Value addition										
2.b.	Others (pl.specify)										
3.	**Livestock and fisheries**										
3.a.	Dairy farming										
3.b.	Composite fish culture										
3.c.	Sheep and goat rearing										
3.d.	Piggery										
3.e.	Poultry farming										
3.f.	Others (pl.specify)										
	Bee keeping	1	12	13	25	1	0	1	13	13	26
4.	**Income generation activities**										
4.a.	Vermi-composting										
4.b.	Production of bio-agents, bio-pesticides, bio-fertilizers etc.										
4.c.	Repair and maintenance of farm machinery and implements										
4.d.	Rural Crafts										
4.e.	Seed production										
4.f.	Sericulture										

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
4.g.	Mushroom cultivation										
4.h.	Nursery, grafting etc.	2	21	6	27	2	5	7	23	11	44
4.i.	Tailoring, stitching, embroidery, dying etc.										
4.j.	Agril. para-workers, para-vet training										
4.k.	Others (pl.specify)										
	Coconut climbing through machine	4	87	4	91	1	0	1	88	5	93
5	**Agricultural Extension**										
5.a.	Capacity building and group dynamics										
5.b.	Others (pl.specify)										
	Areca palm climbing through machine	1	8	0	8	5	0	5	13	0	13
	Grand Total	**12**	**140**	**51**	**191**	**73**	**12**	**85**	**213**	**64**	**287**

7.F. Details of Skill Training Programmes carried out by KVKs under ASCI : NIL

S. No.	Name of Job Role	Date of Start	Date of Close	Total Participants	No. of Participants									Date of Assessment	No of Participants passed assessment
					General			SC/ST			Grand Total				
					Male	Female	Total	Male	Female	Total	Male	Female	Total		
1															
2.															

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	343	213	86	299	41	27	68			0
Farmers visit to KVK	1129	692	261	953	136	83	219			0
Lectures delivered as resource persons	57	784	604	1388	345	283	628	425	80	505
Diagnostic Visits	4	21	9	30	4	3	7	18	6	24
Field Days	6	103	3	106	2	2	4	2		2
Group discussions/ meetings	10	117	47	164	23	15	38			0
Kisan Gosthies				0			0			0
Film Shows	22	709	286	995	137	92	229			0
Self help group meetings										
Mahilamandals meetings										
Kisan Melas	1	2100	1600	3700	1900	820	2720	84	22	106
Exhibitions	2	2182	1674	3856	1949	882	2831	89	22	111
Scientist visit to farmers fields	134	226	24	250	46	3	49	17		17
Soil health camps										
Animal health camps										
Plant health camps										
Farm Science Club meetings										
Ex-trainees Sammelans	4	37	15	52	7	5	12			0
Farmers seminars										

Workshops										
Method Demonstrations	12	132	42	174	26	16	42	3	3	6
Celebration of important days	10	276	172	448	43	89	132	34	24	58
Special day celebrations	2	57	33	90	29	17	46	5	2	7
Exposure visits	8	86	36	122	15	6	21			
Others, Please specify										
TOTAL	**1744**	**7735**	**4892**	**12627**	**4703**	**2343**	**7046**	**677**	**159**	**836**

8.2 Other extension activities like print and electronic media etc.

Sl. No.	Type of media/activity	Number of activities/Number
1.	Popular articles	10
2.	Newspaper coverage	18
3.	Extension Literature	2
4.	Radio Talks	70
5.	TV Talks	-
6.	CD/DVD/Video clips	-
7.	Animal health camps (no. of animal treated)	-
8.	Others, please specify	
	TOTAL	60

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)	Ragi (finger Millet)	GPU-28 KMR-630	2.85 1.30	12450.00	18
Oilseeds	Groundnut	G-2-52	18.90	144530.00	12
Pulses	Cowpea	UAHS-28	0.66	5544.00	11
	Greengram	KKM-3	0.90	7200.00	50
Commercial crops					
Vegetables	Bhendi	Velvet Bhendi	0.045	6300.00	12
Flower crops					
Spices					
Fodder crop seeds	Fodder Sorghum	COFS-31	0.115	7475.00	19
Fiber crops					
Forest Species					
Others (specify)					
Total			**24.77**	**183499**	**122**

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	Drumstick	PKM-1 & Bhagya	5564	83460.00	169
Fruits	Lime	Local	174	2610.00	75
Ornamental plants	Tuja	-	10	1200.00	04
Medicinal and Aromatic					
Plantation	Coconut	Arasikere Tall	1340	93800.00	65
	Arecanut	Maidan Local	5640	141000.00	29
Spices	Curry leaf	Suhasini	616	9240.00	78
	Black pepper	Panniyur-1	207	2070.00	16
	Cinnamon	Local	27	405.00	05
Tuber					
Fodder crop saplings	Sorghum	Napier	1650	1650.00	05
Forest Species					
Others (specify)					
Total			**15228**	335435	**446**

9.D. Production of hybrid planting materials by the KVKs

Crop category	Name of crop	Name of the hybrid	Quantity of plants (No.)	Value (Rs)	Number of farmers to whom provided
Fruits	Papaya	Taiwan Red Lady	6560	131200.00	167
Flower Crops	Marigold	East West	2800	11200.00	04
Vegetable seedlings	Chilli	Arka Kyathi	1000	1250.00	32
	Tomato	Arka Samrat	1000	1250.00	32
	Brinjal	Arka Anand	500	625.00	32
Total			**11860**	**145525**	**267**

9.C. Production of Bio-Products : NIL

Bio Products	Name of the bio-product	Quantity (q)	Value (Rs.)	Number of farmers to whom provided
Bio Fertilizers				
Bio-pesticide				
Bio-fungicide				
Bio Agents				
Others (specify)				
Total				

9.D. Production of livestock : : NIL

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				
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: NIL
Date of start : Periodicity: Copies printed in each issue :

(ii) Summary of Literature developed/published

Item	Number
Research papers – International	-
Research papers – National	-
Technical reports	7
Technical bulletins	4
Popular articles – English	2
Popular articles – Local language	1
Extension literature	2
Others if any	
Popular Article – Local Language – News Next – Online News channel	6
Popular Article – Local Language – ABC News – Online News channel	1

(iii) Details of Literature developed/published

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

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

1. Hanumanthaswamy B C, Smitha G B, Jyoti M. Rathod, Niranjana K S and Arun Kumar P, (2021) Improved cultivation practices in papaya (Papaya beleya sudharitha besaya kramagalu), Bulletin No. UAHSBL028, KVK, Shivamogga, 16p.
2. Hanumanthaswamy B C, Smitha G B, Jyoti M. Rathod and Arun Kumar P, (2021) Integrated crop management in arecanut (Adikeyalli samagra bele nirvahane), Bulletin No. UAHSBL090, KVK, Shivamogga, 12p.
3. Hanumanthaswamy B C, Smitha G B, Jyoti M. Rathod and Arunkumar B R, (2021) Improved cultivation practices in ginger (Shunti bele sudharitha besaya kramagalu), Bulletin No. UAHSBL054, KVK, Shivamogga, 24p.
4. Hanumanthaswamy B C, Smitha G B, Jyoti M. Rathod and Arun Kumar P, (2021) Production technology of banana (Bale beleya utpadana tantrikate), Bulletin No. UAHSBL070, KVK, Shivamogga, 24p.

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

1. Arunkumar B R, (2021) Glomalin : A good soil aggregate, *Agro Science Today,* 2(6):0174-0175.
2. Basavaraja M, Hanumanthaswamy B C and Arun Kumar P, (2021) Scientific integrated farming system followed and successful farmer Mr. Madan (Vaignanika samagra Krishi paddati anusarisi yashassu kanda raitha Sri Madan), Negila Miditha, 7(1):8-9.

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

1. Basavaraja M, Hanumanthaswamy B C and Arunkumar B R, (2021) Improved agriculture practices in paddy cultivation, (Bhattada Sudharitha Besaya Kramagalu) No.UAHS20201F007, KVK Shivamogga, 6p.
2. Hanumanthaswamy B C, Smitha G B and Niranjana K S, (2021) Drumstick cultivation (Nugge Krishi), No.UAHS20201F006, KVK, Shivamogga, 6p.

3. Hanumanthaswamy B C, Arunkumar B R, Nagaraja R and Arun Kumar P, (2021) Method of soil sampling for soil testing (Mannu parikshe maadari sangrahana vidhana), No.UAHS2017F28, 6p.

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	Bee keeping, Horticulture Nursery, Coconut palm climbers, Value addition, DAESI programme, Agriculture, Farmers Group, Adike belegararu, Areca palm climbers, Marli Mannige, Krishi Group, FFS, Sheep Training (3), ASCII-Poultry, Poultry- bach(3)	WhatsApp groups formed under ARYA project and DAESI programme, Arecanut crop growers, Mechanisation information group, General information group. Poultry farming, FFS
4	Facebook account name	KVK Shivamogga	
5	Instagram account name	-	
6	Others if any	-	

10.C. Success Stories / Case studies

1) Title: **Doubling Farmer's income through Integrated Framing System**

Background: **Mr. Durgappa Angadi** is an enthusiastic progressive and innovative farmer from Sahasravalli village in Shikaripura taluk of Shivamogga District, Karnataka State. He owns 1.95 hectares of land and cultivating different crops *viz.,* coccinia, maize, arecanut, rearing cattle and producing vermicompost. He attended the training on Integrated Farming System organized by KVK during 2015.

Interventions: After the KVK intervention, he started for growing of intercrops in younger arecanut garden *viz.,* banana and fodder crops. Vegetable crops like drumstick, yard long bean, cluster bean, chilli and bitter gourd are grown as main crops. He planted different forest species like teak, silver oak and melia dubia as border crops. By timely guidance of KVK scientists, he has produced and applied the organic manures to enrich the soil fertility. He has also used bio-pesticides and botanicals for management of pest and diseases in different crops.

Output and outcome: By practicing IFS technology, he harvested the bumper yield in banana, vegetable crops and getting additional income from subsidiary enterprises like bee keeping, fishery, backyard poultry and dairy unit as income generating activities

Impact:
Horizontal spread: He disseminated the IFS technologies and ICM practices to his neighbouring farmers and villages. Totally 490 farmers get benefitted and adopted this technology

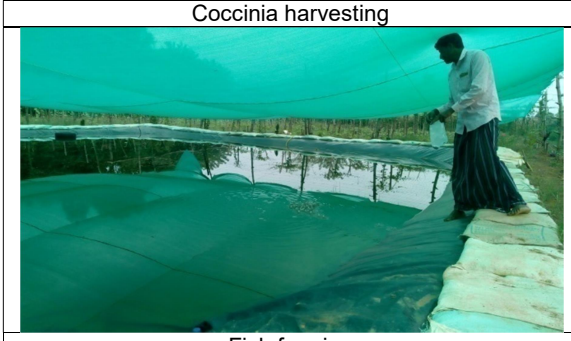
Economic gains:

Sl.#	IFS components	Area / Nos.	Net profit (Rs. In lakhs)
I	**Before KVK interventions**		
1.	Maize	1.4 ha	0.87
2.	Arecanut	0.4 ha	1.50
3.	Coccinia	0.15 ha	1.40
4.	Cattle	1 H.F.	0.20
5.	Vermi compost	2 tonnes	0.07
		TOTAL (Rs.)	**Rs. 4.04**
II	**After KVK interventions**		
1.	Maize	0.4 ha	0.25
2.	Arecanut	0.4 ha	1.60
3.	Coccinia	0.15 ha	1.90
4.	Yard long bean	0.15 ha	0.65
5.	Ginger	0.4 ha	0.60
6.	Inter crop in younger arecanut with banana	0.4 ha	1.36
7.	Cattles	1 H.F. + 1 buffalo	0.33
8.	Honey bee colonies	8 units	0.16
9.	Poultry	40 Nos.	0.11
10.	Fishery	15x15 mtr.	0.10
11.	Vermi compost	3 tonnes	0.10
		TOTAL (Rs.)	**7.16**

Employment generation: By practicing IFS technology, total employment generation per year per family is 426 man days.

Coccinia harvesting

Bee keeping



Fish farming

Banana as intercrop in arecanut

2) Title: **Integrated Farming System for Sustainable livelihood**

Background: **Mr. Mathews** is a progressive and innovative farmer from Baruve village in Hosanagara taluk of Shivamogga District, Karnataka State. He owns 0.60 hectares of land and cultivating different crops *viz.,* arecanut, rubber, banana, elephant foot yam, pepper, coconut, rearing goat, rabbit rearing, poultry, bee keeping and producing vermicompost. He attended the training on Integrated Farming System organized by KVK during 2016.

Interventions: After the KVK intervention, he started for growing of banana as intercrop in younger arecanut garden. He has grown elephant foot yam and tapioca as main crops. He started subsidiary enterprises like bee keeping, backyard poultry, goat rearing and rabbit rearing as income generating activities He planted different forest species like teak, silver oak and melia dubia as border crops. He has produced and applied organic manures to enrich the soil fertility and he has used the bio-pesticides and botanicals for management of pest and diseases in different crops with the guidance of KVK, scientists.

Output and outcome: By practicing IFS technology, he harvested the bumper yield in banana; elephant foot yam, topioca and getting additional income from subsidiary enterprises like bee keeping, backyard poultry, goat rearing and rabbit rearing as income generating activities.

Impact:

Horizontal spread: He has disseminated the IFS technologies and ICM practices to his neighbouring farmers and villages. Totally 245 farmers get benefitted and adopted this technology

Economic gains:

Sl. No.	IFS components	Area / Nos.	Net profit (Rs. In lakhs)
I	**Before KVK interventions**		
1	Arecanut	0.2 ha	0.00
2	Rubber	0.1 ha	0.15
3	Coconut	15 trees	0.10
4	Elephant foot yam	01.5 ha	0.45
5	Cow (Jersey)	1No.	0.24
		TOTAL (Rs.)	**Rs. 0.94**
II	**After KVK intervention**		

1.	Inter crop in younger arecanut with banana	0.2 ha	0.85
2.	Elephant foot yam	0.15 ha	0.50
3.	Topioca	0.15 ha	0.55
4.	Rubber	0.10 ha.	0.10
5.	Honey bee colonies	3 units	0.09
6.	Poultry	100 Nos.	0.25
7.	Goat rearing (Malabari goats)	8Nos.	0.20
8.	Rabbit rearing	25 Nos.	0.12
11.	Vermi compost	2 tonnes	0.08
		TOTAL (Rs.)	**Rs. 2.74**

Employment generation: By practicing IFS technology, totally employment generation per year per family is 315 man days.

ICM in Elephant foot yam

Banana as intercrop in arecanut

Small scale goat rearing

Interaction about pepper cultivation

3) Title: **Integrated Farming System to enhance rural livelihood security**

Background: **Mr. Umesh reddy** is a progressive, innovative and awardee farmer from Harogoppa village in Shikaripura taluk of Shivamogga District, Karnataka State. He is having 2.6 hectares of land and cultivating different crops *viz.,* arecanut, paddy, maize, ragi, banana, ginger, rearing cattle, sheep, poultry birds, fish and producing vermicompost. He attended the training on Integrated Farming System organized by KVK during 2013.

Interventions: After the KVK intervention, he started for growing of intercrops in arecanut garden *viz.,* banana, ginger, pepper, nut mug, coffee and vegetable crops like drumstick, french bean and chilli. He planted different forest species like teak and silver oak as border crops. Timely guidance was given by KVK Scientists.

Output and outcome: By practicing IFS technology, He started subsidiary enterprises like bee keeping, fishery, backyard poultry, sheep rearing, dairy unit as income generating activities. He harvested the good yield in arecanut, ginger, drumstick, french bean, banana, vegetable crops and getting additional income from subsidiary enterprises

Impact:

Horizontal spread: He disseminated technologies and ICM practices to his farmers, villages, within and outside the district. Totally 410 farmers were getting benefit and adopt to this technology

Economic gains:

Sl. No.	IFS components	Area / Nos.	Net profit (Rs. In lakhs)
I	**Before KVK interventions**		
1.	Maize	1.2 ha	0.60
2.	Arecanut	0.8 ha	3.20
3.	Paddy	0.4 ha	0.24
4.	Finger millet	0.20 ha	0.15
4.	Cattle	2 jersey	0.36
5.	Vermi compost	3 tonnes	0.12
		TOTAL	**Rs. 4.19**
II	**After KVK intervention**		
1.	Maize	0.4 ha	0.20
2.	Paddy	0.40 ha	0.24
3.	Finger vmillet	0.20 ha	0.15
4.	Arecanut	0.8 ha	3.60
5.	Inter crop in younger arecanut	0.80 ha	
	a. Banana	0.20 ha	0.65
	b. Ginger	0.20 ha	1.10
	c. Drumstick	0.20 ha	0.20
	d. French bean and chilli	0.20 ha	0.34
6.	Cattles	2 Jersey	0.26
7.	Honey bee colonies	4 units	0.12
8.	Poultry (Broiler)	4 batches (10000 per batch)	1.20
9.	Backyard poultry	100 Nos.	0.15
9.	Sheep rearing	90 Nos.	1.15
10.	Fishery	25x25 mtr.	0.16
11.	Vermi compost	6 tonnes	0.24
		TOTAL	**Rs. 9.76**

Employment generation: By practicing IFS technology, totally employment generation per year per family is 515 man days.

stall feeding system of Sheep rearing

Ginger as intercrop in arecanut

Broiler poultry farming

ICM in Maize

4) Title: **Integrated Farming System increases the yield and income**

Background: Mr. Madan is a young progressive and innovative farmer from Thanikal village, Thirthalli taluk, Shimoga district. He is practicing integrated farming system systematically in his 6 acres of land and cultivating different crops *viz.,* banana, coffee, arecanut, ginger, rearing cattle and producing vermicompost. After completion his education he came to his village and shown interest and involved in agriculture. He attended the training on IFS at KVK.

Interventions: After the KVK intervention, he started for growing of intercrops in arecanut garden *viz.,* banana, pepper and coffee. Vegetable crops like pumpkin, French bean, and chilli are grown as main crops. He planted forest species like teak, and silver oak as border crops. He started fish farming in a large scale in village pond as a contract basis. With the guidance of KVK scientists, he has produced and applied the organic manures to enrich the soil fertility and also used the bio-pesticides and botanicals for management of pest and diseases in different crops.

Output and outcome: By adopting IFS technology, he harvested the bumper yield in banana, vegetable crops, arecanut, spices and getting additional income from subsidiary enterprises like bee keeping, fishery, backyard poultry and dairy unit as income generating activities

Impact:

Horizontal spread: He disseminated the IFS technologies and ICM practices to his neighbouring farmers and villages. Totally 165 farmers get benefited and adopted to this technology

Economic gains:

Sl. No.	IFS components	Area / Nos.	Net profit (Rs. In lakhs)
I	**Before KVK interventions**		
1.	Arecanut	2 ha.	365400
2.	Coconut	1 ha.	46200
3.	Maize	2 ha.	36900
4.	Vegetables	1.1 ha.	41600
		Total income (Rs.)	**490100**
II. After KVK intervention			
1.	Arecanut		415400
	Intercrops in areca: Pepper		34200
	Banana	2 ha.	39800
	Coffee		12400
	Cardamom		16600
2.	Intercrops in Coconut mango, Jackfruit, Cashew	1 ha.	62500
3.	Ginger	2 ha.	89600
4.	Vegetables	1 ha.	46800
5.	Sugarcane	0 .10 ha.	15400
6.	Vermicompost	2 Pits	19600
7.	Nursery	0.02	45300
8.	Dairy Farming	2 cows	13600
9.	Poultry Farming	5000chicks x 4 batches	150000
10.	Fish Farming	1 Pond	35900
		Total Income (Rs.)	**997100**

Employment generation: By practicing IFS technology, totally employment generation per year per family is 264 man days.

ICM in ginger

Coffee as intercrop in arecanut

	
Rearing of jersey cows	Cardomum grown as intercrop in arecanut

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

Areca Husk composting

Problems identified	:	Wastage of areca husk (1.75 t/ha) through improper utilization. Huge quantity of Areca husk thrown on road sides. Slow degradation and it is burnt. It creates water and air pollution.
Arecanut Area	:	52000 ha
Innovation	:	Decomposition of areca husk by using compost culture (*Pleurotous sps.* and *Phenerochaete chrysosporium*)
Source	:	KSNUAHS, Shivamogga
Nature of activities	:	3 OFT, 1 FLD, 15 trainings, 25 method demonstrations, 15 field visits, 35 Group discussions, 8 media coverage
Inputs	:	Decomposing culture (Microbial consortia) (3 kg/t of areca husk)
Output	:	(1) Areca husk decomposed in 170 days, usually it takes more than 2 years because of high lignin content (2) Produced 1200 Kgs. of compost/ha, it is worth of Rs.5800/- (3) Contains more potassium (1.85) compared to other composts
Horizontal spread	:	7250 Kgs. of decomposing culture was used by 465 areca farmers for 1450 ha. and produced 1850 tonns of areca husk compost.

Use of liquid seaweed extract on growth & yield of Tomato

Problems identified	:	No knowledge on liquid seaweed extract & its importance in crop production
Tomato Area	:	219 ha
Innovation	:	Use of liquid seaweed extract on growth & yield of Tomato (Liquid seaweed extract 5 ml/l foliar spray at 7 days before flowering and second spray at 7 days after flowering)
Source	:	Council of Scientific and Industrial Research, Central Salt & Marine Chemical Research Institute (CSIR-CSMCRI), Bhavnagar, Gujarat & Rajasthan College of Agriculture, Udaipur-2011
Nature of activities	:	2 OFTs, 10 trainings, 12 method demonstrations, 19 field visits, 20 Group discussions
Inputs	:	Liquid seaweed extract
Output	:	(1) Good yield and yield attributes were observed. (2) Liquid seaweed extract used treatment recorded higher yield 766.72 qt/ha and increased in yield of 14.40 %. (3) Higher net returns of Rs.456506 with B:C ratio of 4.15 were recorded

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.	Curry leaf	Application of 200 ml butter milk to curry leaf plant every	Improves aroma	Ensures availability of enzymes, vitamins and

		month		micronutrients
2.	Coconut	Mulching dry leaves in coconut	Reduces button shedding	Leaf mulching helps in retaining moisture in soils; Checks weeds
3.	Drumstick	Nipping in drumstick	Bears more flowers and fruits	Seedlings reach 75 cm height; the shoot tips are to be nipped off to encourage more side branches.
4.	Redgram	Coating red earth to overnight soaked redgram and drying in shade	Reduces insect damage and facilities miling	Wetting and drying (Thawing) process loosens husk from kernel and earth acts as physical barrier to the storage insect
5.	Tomato	Cultivating Marigold with Tomato	Controls fruit borer	Acts as fruit borer trap

10 F. Technology Week celebration: Not conducted

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 : 2008
2. List of equipments purchased with amount :

Sl. No	Name of the Equipment	Qty.	Cost(RS)	Status
1	Analytical Balance	01	87999.00	Good
2	E.C.Meter	01	68145.00	Good
3	PH Meter	01	31624.00	Good
4	Automatic Nitrogen Estimation system	01	298994.00	Good

5	Fume cup board	01	95000.00	Good
6	Shaker reciprocating type	01	62540.00	Good
7	Mrida parikshak soil testing mini lab kit	01	86000.00	Good
8	Digital spectrometer	01	470230.00	Good
9	Water distillation unit	01	162241.00	Good
10	Flame photo meter	01	65250.00	Good
11	AAS unit	01	1500000.00	Good
12	Hot plate rectangular	01	21000.00	Good
	Total	**12**	**2949023.00**	

B. Details of samples analyzed since establishment of SWTL:

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages
Soil Samples	14259	10747	5195
Water Samples	5205		
Plant samples	33		
Manure samples	68		
Others (specify)	43		
Total	**19608**	**10747**	**5195**

C. Details of samples analyzed during 2021:

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)
Soil Samples	1761	932	932	162350
Water Samples	437	395	385	43700
Plant samples	-	-	-	
Manure samples	38	13	13	15200
Others (specify)	-	-	-	
Lime	-	-	-	
Total	2236	1340	1330	221250

11.2 Mobile Soil Testing Kit : NIL

A. Date of purchase and current status

Mobile Kits	Date of purchase	Current status
1.		
2.		

B. Details of soil samples analyzed during 2021 and since establishment with Mobile Soil Testing Kit : NIL

	During 2020	During 2021	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:

Particulars	Date (s)	Villages (No.)	Farmers (No.)	Samples analyzed (No.)	Soil health cards issued (No.)
SWTL	Reporting period	932	932	1761	1761
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	42	30	-	2	5	1

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./ha)	After (Rs./ha)
Demonstration of Ragi variety KMR-630	45	32	28250	60073
Introduction of DSR method for paddy cultivation	100	30	30100	52560
Assessment of Bhendi hybrids for adoptability	15	10	174047	236115
Demonstration on IPDM in Paddy	63	30	57650	709180
Management of arecanut root grub	44	45	259922	335866
Demonstration of photoperiod insensitive, less string, high yield French bean variety Arka Sharath	35	50	120770	260100
Management of heart rot in pineapple	21	25	331720	419200
Demonstration on Omega-3 rich laddu preparation	30	5	-	32000/ month

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)

1. Green gram (KKM-3) – Better crop for paddy fallows

Krishi Vigyan Kendra, Shivamogga had demonstrated on the use of short duration green gram variety KKM-3 for paddy fallows under NFSM scheme. It was taken up in different clusters of Shivamogga district viz., Shikaripura, Hosanagar, Soraba Shivamogga and Sagar taluks. Since 2015-16 and 2020-21 totally 460 demos covering an area of 460.00 acres.

Crop was sown during January under residual soil moisture after the harvest of paddy grown during Kharif. Available soil moisture facilitated better establishment and growth of the crop. During the demonstration period soil moisture reseeded soon as there was a high temperature. Inspite of this, KKM-3 could yield filled grains due to its short duration nature. KKM-3 is a short duration green gram variety released during 2010-11. Along with the varietal introduction to farmer's fields several low cost technologies and precautionary measures were demonstrated as a capsule to make the farmer partners understand the concept of integrated crop management. Seeds were treated with bio-inoculates *viz*., *Rhizobium,* PSB and *Trichoderma* @ 500 gm / 6 kg seeds per acre which were sufficient to sow in an acre area. Application of recommended dose of nutrients foliar spray of nutrients with water soluble fertilizers at flower initiation stage and prophylactic spray of PPC against pod borer and sucking pests were demonstrated. KKM-3 was compared with local check with 10-12 days longer duration. Green gram demonstration on paddy fallows was taken up with least inputs supply and with less irrigation facility. Green gram variety KKM-3 was accepted by farmer friends due

to its short duration and small, shiny seeds which fetches better price in the market compared to local check. Seeds produced were shared among fellow farmers with and / without payment.

Green gram especially KKM-3 variety was accepted for its short duration which facilitates to take up and additional crop without leaving it fallow for the want of resources.

Green gram variety KKM-3 grow under paddy fallows was popularized to many farmers for the villages and the neighbouring villages through several extension activities like training, method demonstration, field visits, field day and by organizing a Krishimela on large scale. This encouraged fellow farmers of the villages to know the technology.

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

PART XIII - LINKAGES

13A. Functional linkage with different organizations

Sl. No.	Name of organization	Nature of linkage
1.	Karnataka State Dept. of Agriculture	- Joint diagnostic survey - Joint implementation of FLD's - Bi-monthly workshops - Collaborative training programme under ATMA - Joint field visits - Demonstration under ATMA
2.	Karnataka State Dept. of Horticulture	- Joint diagnostic survey - Collaborative training under NHM project - Field visits - Technology Demonstration
3.	Karnataka state Dept. of Animal Health & Veterinary Sciences	- Collaborative training - Joint implementation of animal health camps, vaccination camps, mass deworming and nutrition management of dairy stock and calf management - Technology demonstration of Feed formulation etc.,
4.	Karnataka State Sericulture Dept.	- Collaborative training ; technology demonstration
5.	Karnataka State Dept. of Fisheries	- Technology demonstration and training under NFDB
6.	Dept. of Industries and commerce	- Collaborative training
7.	All India Radio	- Technology dissemination
8.	Doordarshan & Private TV Channels	- Technology dissemination
9.	Information and Broadcasting Dept.	- Technology dissemination & publicity
10.	Financial institutions like NABARD & Nationalized co-operative banks	- Formation of self help groups -Collaborative training programme
11.	Input agencies	- Collaborative farmers training programme - Technology dissemination
12.	Self Help Group	- Technology dissemination & organizing training
13.	Non-Governmental Organisations	- Training programme
14.	Local village level youth clubs	- Organizing training programme & field demonstration
15.	Co-operative sectors viz., milk	- Health camps and training programmes

Sl. No.	Name of organization	Nature of linkage
	producers, co-operative society, water users co-operative society etc.,	
16.	College of Agriculture	Involving RAWEP in conducting - Training Programme - Method demonstration - Group meeting & field visits
17.	Dept. of marketing and Co-operation	- Awareness & training programme on go down schemes
18.	Department of Panchayath raj and rural development	Training
19.	Coconut development Board	Training
20.	Protection of Plant Varieties and Farmers' Rights Authority, New Delhi	Training
21.	KSNUAHS, Shivamogga	Interaction Meet, Krishi Mela, Training, Seminar, Workshop
22.	Rural self employment training institute	Training

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. List of special programmes undertaken by the KVK and operational now, which have been financed by State Govt./Other Agencies

Name of the scheme	Date/ Month of initiation	Funding agency	Amount (Rs.)
Village adoption programme	October 2021	KSNUAHS, Shivamogga	1.0 lakh

13C. 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**	ATMA review meetinga	2	-	-
02	**Research projects**				
03	**Training programmes**	On and Off campus training	3	2	-
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)				
	Watershed approach				
	Integrated Farm Development				
	Agri-preneurs development				

13D. Give details of programmes implemented under National Horticultural Mission : NIL

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Constraints if any

13E. Nature of linkage with National Fisheries Development Board : NIL

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks

13F. Details of linkage with RKVY : NIL

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks

13G. Kisan Mobile Advisory Services : NIL

Month	No of Advisories	Message type (Text/ Voice)	SMS/voice calls sent (No.)						Total SMS/ Voice calls sent (No.)	Farmers benefitted (No.)
			Crop	Livestock	Weather	Marketing	Awareness	Other enter-prises		
January										
February										
March										
April										
May										
June										
July										
August										
September										
October										
November										
December										
Total										

PART XIV- PERFORMANCE OF INFRASTRUCTURE IN KVK

14A. Performance of demonstration units (other than instructional farm)

Sl. No.	Demo Unit	Year of establishment	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Produce	Qty.	Cost of inputs	Gross income	

14B. Performance of instructional farm (Crops) including seed production

Name of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.	Cost of inputs	Gross income	
Cereals									
Ragi (Finger Millet)	09.09.2021	03.01.2021	0.30	GPU-28 KMR-630	Seed	2.85 1.30	3900	8550 3900	
Pulses									
Cowpea	27.06.2021	19.09.2021	0.15	UAHS-28	Seed	0.66	2150	5544	
Green gram	23.06.2021	30.08.2021	0.25	KKM-3	Seed	0.90	2400	7200	
Oilseeds									
Groundnut	26.06.2021	22.10.2021	0.75	G-2-52	Seed	18.90	36500	145530	
Fibers									
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	BV 380	Eggs	2107 No.	7250	12642	
2.	Milk	HF	Milk	555.5 ltr.	13200	16301.25	

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	95	15	
February	-	-	
March	-	-	
April	-	-	
May	-	-	
June	-	-	
July	-	-	
August	72	12	
September	43	6	
October	11	3	
November	-	-	
December	22	3	

14F. Database management

S.No	Database target	Database created
1.	**Maintaining the database in MS-Excel and MS-Word.**	Created database of KVK activities in MS-Excel format and MS-Word

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

(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

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.)		

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 organised : NIL

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

15.4 Seed Hub : NIL

Crops	*Variety*	*Year of release*	*Production*				*No of farmers benefited/Sold to no. of farmers*	*Quantity seed sold (q)*
			Target (q)	*Area (ha.)*	*Actual Production (q)*	*Category (FS/CS)*		

15.5 CFLD on Oilseeds: : NIL

Sl. No.	Crop	Varieties demonstrated and check	Allocated		Implemented	
			Area (ha)	Demos (No.)	Area (ha)	Demos (No.)
	Total					

15.6 CFLDs on Pulses:

Sl. No.	Crop	Varieties demonstrated and check	Allocated		Implemented	
			Area (ha)	Demos (No.)	Area (ha)	Demos (No.)
1.	Green gram	Demonstration : Variety KKM-3 Check : Pache hesaru	27.00	67	27.00	67
	Total		**27.00**	**67**	**27.00**	**67**

15.7 Krishi Kalyan Abhiyan (Aspirational districts) : NIL

Type of Activity	Date(s) conducted	No. of farmers (General)			No. of farmers SC / ST			No.of extension personnel		
		Male	Female	Total	Male	Female	Total	Male	Female	Total

15.8 Micro-Irrigation: NIL

Type of Activity	Date(s) conducted	No. of farmers (General)			No. of farmers SC / ST			No. of extension personnel		
		Male	Female	Total	Male	Female	Total	Male	Female	Total

15.9 Tribal Sub-Plan (TSP) : NIL

Farmer Training		Women Farmer Training		Rural Youths		Extension Personnel		OFT (No of Technologiess)	Number of farmers involved			Participants in extension activities (No.)	Production of seed (q)	Production of Planting material (Number in lakh)	Production of Livestock strains (Number in lakh)	Production of fingerlings (Number in lakh)	Testing of Soil, water, plant, manures samples (Number)
No. of Trainings/Demos	No. of Farmers	No. of Trainings/Demos	No. of Women Farmers	No. of Trainings/Demos	No. of Youths	No. of Trainings/Demos	No. of Ext. Person		On-farm trials	Frontline demos	Mobile agro-advisory to farmers						

15.10 SCSP : NIL

Farmer Training		Women Farmer Training		Rural Youths		Extension Personnel		OFT (No of Technologiess)	Number of farmers involved			Participants in extension activities (No.)	Production of seed (q)	Production of Planting material (Number in lakh)	Production of Livestock strains (Number in lakh)	Production of fingerlings (Number in lakh)	Testing of Soil, water, plant, manures samples (Number)
No. of Trainings/ Demos	No. of Farmers	No. of Trainings/ Demos	No. of Women Farmers	No. of Trainings/ Demos	No. of Youths	No. of Trainings/ Demos	No. of Ext. Person		On-farm trials	Front line demos	Mobile agro-advisory to farmers						

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
573	3	Y	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y

15.13 KSHAMTA : NIL

Number of Adopted Villages	No. of Activities		No. of farmers benefited	
	Demonstration	Training	Demonstration	Training

15.14 DFI

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)
1	Shivamogga	Shivamogga	Sominakoppa, Muddinakoppa, Harnahalli, Aladalli, Narayanapura, Chikmarasa, Mallapura, Abbalagere, Maleshanakara, Purale	42	396006	Arecanut, Coconut, Paddy, Banana, Spices, Dairy, Backyard poultry, Areca palm climbing, bee keeping, vermicompost unit, Mushroom production	OFT, FLD, Demonstration, Training (on and off campus), Field visit, Special days, exhibition, technology week, Advisory over phone, group discussion	389751	785757
2	Shivamogga	Hosanagara	Addheri, Nanjuvalli, Ramappasara	13	293596	Arecanut, Paddy, Maize, Ginger, Banana, Spices, Dairy, Backyard poultry Nutritional garden, Areca palm climbing, vermicompost unit, bee keeping	OFT, FLD, Demonstration, Training (on and off campus), Field visit, Special days, exhibition, technology week, Advisory over phone, group discussion	285377	578973
3	Shivamogga	Thirtrhahalli	Bejuvalli, Tanikal, Bidarehalli, Thirthamaturu	16	471399	Arecanut, Paddy, Ginger, Banana, Vegetables, Spices, Dairy, Backyard poultry, Areca palm climbing, vermicompost unit, bee keeping	OFT, FLD, Demonstration, Training (on and off campus), Field visit, Special days, exhibition, technology week, Advisory over phone, group discussion	432015	903414
4	Shivamogga	Sagara	Kagodu, Jambekoppa, Iginabaylu, Hosuru, Mubalu,	15	339918	Arecanut, Coconut, Paddy, Banana, pineapple, Spices, Dairy, Backyard poultry, vermicompost unit, bee keeping	OFT, FLD, Demonstration, Training (on and off campus), Field visit, Special days, exhibition, technology week, Advisory over phone, group discussion	346114	686032
5.	Shivamogga	Soraba	Halasinakoppa, Gunjanooru	2	141337	Arecanut, Coconut, Paddy, maize, Banana, Spices, Dairy, Backyard poultry, vermicompost unit,	OFT, FLD, Demonstration, Training (on and off campus), Field visit, Special days, exhibition, technology week, Advisory over phone, group discussion	135956	277293

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)
6.	Shivamogga	Bhadravathi	Karehalli	3	195246	Arecanut, Coconut, Paddy, maize, Banana, Spices, Dairy, Backyard poultry, vermicompost unit	OFT, FLD, Demonstration, Training (on and off campus), Field visit, Special days, exhibition, technology week, Advisory over phone, group discussion	144120	339366
7.	Shivamogga	Shikaripura	Sasaravalli, Churchugundi, Hosagudinakoppa, Nimbegondi, Harogoppa	19	238596	Arecanut, Paddy, maize, ginger, sunflower, groundnut, Dairy, Backyard poultry, vermicompost unit, bee keeping	OFT, FLD, Demonstration, Training (on and off campus), Field visit, Special days, exhibition, technology week, Advisory over phone, group discussion	270931	509527

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.	Ragi variety-KMR-630	Short duration, drought resistant, good grain quality, higher fodder yield good and quality
2.	Paddy variety -KMLT-4	Fine grain, less choppiness and good fodder quality
3.	Bhendi hybrid- Arka Nikitha	Arka Nikitha recorded highest yield and income per unit area with minimum incidence of fruit and shoot borer and YVMV.

16.2 Farmers feedback on performance of agronomic practices

Sl. No.	Agronomic practices	Farmer's feedback
1.	Practice of inter cultivation and application of pre and post emergent herbicides in DSR paddy cultivation	Application of pre emergent herbicide like pendimethalin and post emergent herbicide like bispyribacsodium @ 15-20 DAS weeds controlled satisfactory
2.	Spraying of Bt, Neem soap, Pongamia soap, foliar application of IIHR-Vegetable special, NPK application based on soil test (RDF:150:100:125 kg/ha) and prophylactic spray with selected chemicals in cabbage cultivation	ICM in cabbage found very effective, reduced cost of cultivation and less residual content.

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

Sl. No.	Pest and disease management in crops	Farmer's feedback
1.	IPM, cultural and mechanical methods, spraying of Azardiractin, Tricyclozole, Applicatino of chlorantraniliprole, Spraying of propiconazole for the management of pest and disease in paddy	IPM practices reduced the incidence of pest and diseases and increased the yield in paddy

16.4 Farmers feedback on performance of farm machinery technologies

Sl. No.	Farm machinery technologies	Farmer's feedback
1.	Use of seed cum fertilizer drill in paddy cultivation	Farmers opined that we can cover larger area in a short period and less expenditure and more return due to less labour consuming

16.5 Farmers feedback on performance of livestock and fisheries technologies

Sl. No.	Livestock/fisheries technologies	Farmer's feedback

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	S.M.Circle, Shivamogga	524	SB A/c	0524101038350	577015205	CNRB 0000524
With KVK	Canara Bank	S.M.Circle, Shivamogga	524	SB A/c	0524101032710	577015205	CNRB 0000524

17B. Utilization of KVK funds during the year 2020-21 (Rs. in lakh)

S. No.	Particulars	Sanctioned	Released	Expenditure

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	**Pay & Allowances**	191.79	194.37	184.79
2	**Traveling allowances**	0.20	0.20	0.20
3	**Contingencies**			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	3.25	3.25	3.25
B	POL, repair of vehicles, tractor and equipments	2.00	2.00	2.00
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	0.90	0.90	0.90
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	0.70	0.70	0.70
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	2.95	2.95	2.95
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	1.06	1.06	1.06
G	Training of extension functionaries	0.25	0.25	0.25
	Extension Activities	0.25	0.25	0.25
	EDP / Innovative activities	0.15	0.15	0.15
	Nutrigardens	0.27	0.27	0.27
H	Maintenance of buildings	0.50	0.50	0.50
I	Establishment of Soil, Plant & Water Testing Laboratory	0.25	0.25	0.25
J	Library	0.05	0.05	0.05
	TOTAL (A)	204.57	207.15	197.57
B. Non-Recurring Contingencies				
1	**Works**			
2	**Equipment including SWTL & Furniture**	2.43	2.43	2.43
3	**Vehicle** (Four wheeler/Two wheeler, please specify)			
4	**Library** (Purchase of assets like books & journals)			
TOTAL (B)		**2.43**	**2.43**	**2.43**
C. REVOLVING FUND				
GRAND TOTAL (A+B+C)		**207.00**	**209.58**	**200.00**

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

Year	Opening balance as on 1st January	Income during the year	Expenditure during the year	Net balance in hand as on 31st December of each year
January to December 2019	11.63	4.63	3.91	12.25
January to December 2020	12.25	6.40	8.21	10.44
January to December 2021	10.44	12.21	10.43	11.71

18. Details of HRD activities attended by KVK staff

Name of the staff	Designation	Title of the training programme	Institute where attended	Dates
Dr. B.C.Hanumanthaswamy	Senior Scientist and Head, Scientist	Workshop on Photography	Navile Campus, and University of Agricultural and Horticultural Sciences, Shivamogga main campus at Iruvakki	08-03-2021 and 09-03-2021
Dr. Jyoti M. Rathod	(Home Science), Scientist			
Dr. Ashok, M.	Scientist (Animal Science)			
Mr. M. Basavaraja	Scientist (Agronomy)			
Miss G. B. Smitha	Scientist (Horticulture)			
Dr. Arunkumar P.	Scientist (Agril. Extension)			
Nagaraja, R.	Programme Assistant (Lab)			
Mrs.Geetha B. S.	Programme Assistant (Computer)			
Dr. Niranjana K. S.	Farm Manager			
Mrs. Usha, K.	Assistant			
Chikkaiah, T.	Assistant Cook-cum-care taker			
Lava	Skilled labour			
Manjunatha B. M.,	Messenger			
Dr. B.C.Hanumanthaswamy	Senior Scientist and Head	Online capacity building programme on Virtual Farm Field School (VFFS)	Navile Campus, KVK, Shivamogga	14-06-2021
Dr. Jyoti M. Rathod	Scientist (Home Science)			
Dr. Ashok, M.	Scientist (Animal Science)			
Mr. M. Basavaraja	Scientist (Agronomy)			
Miss G. B. Smitha	Scientist (Horticulture)			
Dr. Arunkumar P.	Scientist (Agril. Extension)			
Dr. Arunkumar, B. R.	Scientist (Soil Science)			
Dr. Nagaraja R.	Programme Assistant (Lab)	Road map for KVK's to enhance mushroom production and consumption	virtual - ICAR-Indian Institute of Horticultural research (ICAR-IIHR), Bengaluru	09-08-2021 to 11-08-2021

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

EDP : Pineapple candy preparation (under ODOP)

Crop	No. of beneficiary	Thematic area	Gross Return (Rs.)	Net Return (Rs.)	BC Ratio	Technology	Farmers feedback
Pineapple	4 Nos.	Value addition	9000	4400	1.95	Pineapple candy preparation	Pineapple candy stabilized income by allowing income creation during off season increased the profitability of value addition in pineapple and created the more opportunities to self help groups.

VFFS : Production Technology of French Bean

Village	Crops	No. of beneficiary	Thematic Area	Technology	Farmers feedback
Shettikere, Hallakkavalli	French bean	3	Integrated Crop Management	Production technology of French bean	In progress

FFS : Fattening of lambs in stall feeding system

Village	Enterprise	No. of beneficiary	Thematic Area	Technology	Farmers feedback
Jade, Soraba Taluk	Sheep	20	Scientific management of small ruminants.	• Selection of animals • Housing techniques • Disease diagnosis • Deworming methods • Feed preparation • Silage preparation • Green fodder production techniques • Azolla production	In progress

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