

**KRISHI VIGYAN KENDRA, UDUPI DISTRICT**

**ANNUAL REPORT**

**(FOR THE PERIOD FROM 01 APRIL 2018 TO 31 MARCH 2019)**

**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		
Krishi Vigyan Kendra Zonal Agricultural & Horticultural Research Station <b>Brahmavar</b>	Office: 0820- 2563923	Fax: 0820- 2561011	email- <a href="mailto:kvk.Udupi@icar.gov.in">kvk.Udupi@icar.gov.in</a> <a href="mailto:kvkudupi@gmail.com">kvkudupi@gmail.com</a> <a href="mailto:udupikvk@gmail.com">udupikvk@gmail.com</a> <a href="mailto:kvkudupiicar@uahs.edu.in">kvkudupiicar@uahs.edu.in</a>	<a href="http://www.kvkudupi.in">www.kvkudupi.in</a>

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

Address	Telephone		E mail	Web Address
	Office	Fax		
University of Agricultural and Horticultural Sciences	Ph: 08182267001	08182298008	<a href="mailto:vcuahss2014@gmail.com">vcuahss2014@gmail.com</a>	<a href="http://www.uahs.in">http://www.uahs.in</a>

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Dhananjaya B	9448950250	9480838202	<a href="mailto:kvkudupi@gmail.com">kvkudupi@gmail.com</a> <a href="mailto:udupikvk@gmail.com">udupikvk@gmail.com</a>

**1.4. Year of sanction:2001**



**1.6. Total land with KVK (in ha): 20 ha**

S. No.	Item	Area (ha)
1	Under Buildings	0.4
2.	Under Demonstration Units	4.0
3.	Under Crops	13.0
4.	Orchard/Agro-forestry	-
5.	Others	2.6

**1.7. Infrastructural Development:**

**A) Buildings**

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR	10.10.2012	550	8500000			
2.	Farmers Hostel	ICAR	17.04.2002	720	4653768			
3.	Staff Quarters		Not yet sanctioned					
	1							
	2							
	3							
	4							
	5							
	6							
4.	Demonstration Units	UAHS	-	7 acres	3.5 lakhs	February 2018	7 acres	Completed
	1							
	2							
	3							
	4							
5	Fencing							
6	Rain Water harvesting system				Nil			
7	Threshing floor				Nil			
8	Farm godown				Nil			

**B) Vehicles**

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Honda Activa	04.06.2009	49915		Not working
TVS victor	22.09.2004	-		Not working
Mahindra Bolero (SLE 2WD)	09.06.2017	665564	50.885	Working
Tractor	18.03.2002	268250		Nil

**C) Equipment & AV aids**

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Almerah	September, 2018	10000	Good
High power shredder Tractor PTO (35 HP)	September, 2018	89000	Good
Wheel barrow	January, 2019	45000	Good
Red Bee Machine Model	January, 2019	3300	Good
Sprayer	February, 2019	22000	Good
Spray gun	February, 2019	3000	Good

**1.8. Details of SAC meeting conducted during 2018-19 – Nil-**

Date	Number of Participants	Salient Recommendations	Action taken	Remarks, if any

## PART II - DETAILS OF DISTRICT

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

S. No	Farming system/enterprise
1.	Agriculture
2.	Horticulture
3.	Fisheries and Dairy Farming

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

S. No	Agro-climatic Zone	Characteristics
1.	Coastal zone-10	Laterite soil, heavy rainfall of 4000 mm/annum, both hilly and plain land area

S. No	Agro ecological situation	Characteristics
1.	Coastal zone	Heavy rainfall, hot humid climatic condition

### 2.3 Soil type/s

S. No	Soil type	Characteristics	Area in ha
1.	Laterite soil	Strongly acidic, light textured, low water holding soils with medium available nitrogen, high phosphorus and low potassium status	3 lakh ha.

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

S. No	Crop	Area (ha)	Production (Metric tons)	Productivity (kg /ha)
1	Paddy	49543	224290	3918
2	Cashew	19496	38999	2000
3	Coconut	17815	26.72 Lakh nuts	15000 (nuts/ha)
4	Arecanut	7847	13732	1750
5	Blackgram	3524	1676	475
6	Banana	1463	3016	2062
7	Groundnut	2050	4265	2256
8	Vegetable crops	1210	22304	18433
9	Black pepper	421	168.40	400
10	Sesamum	268	625	212

\* Please provide latest data from authorized sources. KSDA, Udupi

## 2.5. Weather data

Month	Rainfall (mm)	Temperature ° C		Relative Humidity (%) I	Relative Humidity (%) II	Cloud Cover	SS hours	Wind Speed
		Maximum	Minimum					
January	0	0	33.1	18.1	85.8	52.6	0.8	8.4
February	0.8	0	33.8	19.3	83.7	53.0	1.1	8.2
March	50.9	1	33.9	21.2	89.9	61.5	1.2	7.6
April	33.5	1	33.9	22.2	87.4	68.9	2.7	7.6
May	414.5	15	32.6	20.1	91.6	72.5	5.5	4.7
June	1013.9	26	29.1	19.3	95.3	89.7	7.5	1.2
July	1024.6	29	29.2	21.0	94.1	87.4	7.7	1.9
August	952.1	29	28.9	21.6	94.6	87.5	7.5	2.0
September	111.2	7	31.0	22.4	84.8	70.8	3.6	7.3
October	80.6	5	32.8	21.8	89.9	73.7	2.5	6.9
November	0.5	0	34.1	21.2	90.6	65.4	1.5	8.4
December	0	0	33.3	20.1	85.3	59.8	1.0	7.8
<b>Mean/Total</b>	<b>3682.6</b>	<b>113</b>	<b>32.1</b>	<b>20.7</b>	<b>89.4</b>	<b>70.2</b>	<b>3.5</b>	<b>6.0</b>

\* Please provide latest data from authorized sources. ZAHRS, Brahmavar

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

Category	Population	Production	Productivity
<b>Cattle</b>			
<i>Crossbred</i>	77344		
<i>Indigenous</i>	238393		
<b>Buffalo</b>	26610		
<b>Sheep</b>			
<i>Crossbred</i>			
<i>Indigenous</i>	59		
<b>Goats</b>	2732		
<b>Pigs</b>			
<i>Crossbred</i>	314		
<i>Indigenous</i>	776		
<b>Rabbits</b>	<b>186</b>		
<b>Poultry</b>	589412		
Hens			
<i>Desi</i>			
<i>Improved</i>			
Ducks			
Turkey and others			

Category	Area	Production	Productivity
Fish			
<i>Marine</i>		98550	
<i>Inland</i>		1831	
Prawn			
Scampi			
Shrimp		1831	

\* Please provide latest data from authorized sources. Please quote the source

2.7 District profile maintained in the KVK has been **Updated** for 2018-19: 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	Brahmavar	Brahmavar	Chantharu	1 year	Red Kernel Rice	Non availability of Suitable Red Rice variety for Rabi season, Local Preference for Parboiled Red Kernel Rice, Available Varieties are old.	Varietal Evaluation
2	Brahmavar	Brahmavar	Kota	1 year	Paddy	Less fertilizer use efficiency, Soil acidity, Leaching of nutrients resulted in secondary nutrients deficiency, Imbalanced use of recommended dose of fertilizers, Low yield.	Integrated Nutrient Management
3	Kaup	Kaup	Padoor	2 years	Udupi Jasmine	Low yield during off season High incidence of sucking pest	Integrated Crop Management
4	Karkala	Karkala	Shirlalu	1 year	Beekeeping	Bee colonies gets weaken, susceptible to pests and disease, no honey production and absconding	Small scale income generation enterprise
5	Kundapur	Kundapur	Kundapur	1 year	Fish	Low growth and low market demand of locally available fresh water fish species cultured in farm ponds	Production and management

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
6	Brahmavar	Brahmavar	Bhaidbettu	1 year	Paddy	High labour cost, High cost of cultivation, Erratic Rainfall, Weed problem, Low yield due to local varieties	Resource Conservation Technologies
7	Udupi	Udupi	Padugrama	2 years	Sesamum	Low yield due to local varieties, Pest incidence, selection of suitable variety in paddy fallows, Nutrient management	Variety introduction
8	Byndoor	Byndoor	Kudrukod	2 years	Groundnut	TMV2 is a old variety (Out of seed chain), Immature pods, Short to Medium duration, Pest and Disease, Alternate Variety	Variety introduction
9	Karkala	Karkala	Shirlalu	1 year	Paddy	Iron toxicity, Soil acidity, Leaching of nutrients resulted in secondary nutrients deficiency, Low fertilizer use efficiency, Low yield	Problematic soil management
10	Brahmavar	Brahmavar	Mandarathi	2.5 years	Cashew	Poor canopy growth and low yield due to lack of nutrition	Integrated Nutrient Management
11	Kaup	Kaup	Shirva	6 months	Cucumber	Lack of knowledge on micronutrients application, Acid soils, Leaching of nutrients resulted in secondary nutrients and micronutrient deficiency,	Integrated Nutrient Management

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
						Low fertilizer use efficiency of applied fertilizers, Low yield	
12	Kundapur	Kundapur	Haddur	1 year	Black pepper	Foot rot disease, Slow wilt and Mealy bug infestation	Integrated Crop Management
13	Brahmavar	Brahmavar	Pejamanguru	1 year	Brinjal	Un scientific method of raising nursery, High transplanting shock and poor crop establishment, Imbalanced use of fertilizers Soil borne diseases, Low nutrient use efficiency, Low yield	Integrated Crop Management
14	Karkala	Karkala	Shirlalu	1 year	Ridgegourd	Low yielding local varieties, High incidence of soil borne pathogens, Poor fruit set due to micro nutrient deficiency, Low nutrient use efficiency, Low yield	Integrated Crop Management
15	Kundapur	Kundapur	Haddur	1 year	Arecanut	Due to root grub infestation in areca nut 50 to 60 % orchards were failed to produce nuts in Udupi Dist being an important commercial earning crop	Integrated Pest Management

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
16	Byndoor	Byndoor	Byndoor	1 year	Watermelon	WBNV, Severity of fruit fly, Fusarium wilt, Low yield	Integrated Pest and disease Management
17	Udupi	Udupi	Perdur	1 year	Fish	Low growth and early maturity in Common carp variety	Production and management
18	Udupi	Udupi	Kukkehalli	1 year	Fish	Higher stocking densities with un scientific management resulting in poor growth rate and survival	Production and management
19	Brahmavar	Brahmavar	Mandarathi	1 year	Fodder	Lack of HYV, Non availability of fodder throughout year, High cost of concentrated feed, Difficulties in storage of fodder and quality dry fodder availability, Low Milk yield	Production and management

## 2.9 Priority thrust areas

<b>S. No</b>	<b>Thrust area</b>
1.	Salvenia (Antargange) weed management in low lying paddy areas
2.	Spiraling white fly menace in coconut
3.	Acidic soils
4.	Bud necrosis virus in watermelon
5.	Root grub in Arecanut
6.	Labour scarcity
7.	Imbalanced nutrient management and leaching loss of nutrients
8.	Pest and disease problems
9.	Alternate Paddy variety for MO-4 (Kharif Season)
10.	Alternate Red Rice variety for Rabi season
11.	Short duration Red Rice variety for Kharif season for contingent crop plan
12.	Paddy variety suitable for DSR method of paddy sowing
13.	Paddy white backed plant hopper menace in rabi paddy
14.	Flood and salt tolerant paddy variety
15.	Red palm weevil menace in coconut and Arecanut (not able to control by the use of pheromone traps)
16.	Effective management practices for managing quick wilt in black pepper
17.	Yellow green algae in paddy
18.	Wild animal menace

**PART III - TECHNICAL ACHIEVEMENTS (2018-19)****3.A. Target and Achievements of mandatory activities**

<b>OFT</b>				<b>FLD</b>			
<b>1</b>				<b>2</b>			
<b>OFTs (No.)</b>		<b>Farmers (No.)</b>		<b>FLDs (No.)</b>		<b>Farmers (No.)</b>	
<b>Target</b>	<b>Achievement</b>	<b>Target</b>	<b>Achievement</b>	<b>Target</b>	<b>Achievement</b>	<b>Target</b>	<b>Achievement</b>
5	5	26	26	16	14	126	116

<b>Training</b>				<b>Extension Programmes</b>			
<b>3</b>				<b>4</b>			
<b>Courses (No.)</b>		<b>Participants (No.)</b>		<b>Programmes (No.)</b>		<b>Participants (No.)</b>	
<b>Target</b>	<b>Achievement</b>	<b>Target</b>	<b>Achievement</b>	<b>Target</b>	<b>Achievement</b>	<b>Target</b>	<b>Achievement</b>
69	49	2183	1964	22	24	13171	14183

<b>Seed Production (Q)</b>		<b>Planting material (Nos.)</b>	
<b>5</b>		<b>6</b>	
<b>Target</b>	<b>Achievement</b>	<b>Target</b>	<b>Achievement</b>
5.0	4.11	52500	10271

<b>Livestock, poultry strains and fingerlings (No.)</b>		<b>Bio-products (Kg)</b>	
<b>7</b>		<b>8</b>	
<b>Target</b>	<b>Achievement</b>	<b>Target</b>	<b>Achievement</b>
7000	2755	-	-



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	
3.	Integrated Crop Management	Udupi Jasmine	Low yield during season High incidence of sucking pest	Assessment of Pruning time in Udupi Jasmine	-	1	-	-	3	-	-	-	-	-
4.	Small scale income generation enterprise	Beekeeping	Bee colonies gets weaken, susceptible to pests and disease, no honey production and absconding of bee colonies	Fall (Off Season) Management in Bee Keeping	-	1	-	-	-	Sugar and honey	-	-	-	-
5	Production and management	Fish	Low growth and low market demand of locally available fresh water fish species cultured in farm ponds	Evaluate the growth performance of All Male Tilapia in coastal farm ponds	-	1	-	-	-	-	-	-	-	-
6	Resource Conservation Technologies	Paddy	High labour cost, High cost of cultivation,		Introduction of DSR method of Paddy	2	-	-	2	-	-	-	-	-







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	
			fertilizers, Low yield											
12	Integrated Crop Management	Black pepper	Foot rot disease, Slow wilt and Mealy bug infestation		Integrated crop management in black pepper	1	-	-	4	-	Pepper grafts – 350		AMC 50 kg, Arka Actinoplus – 50 kg	
13	Integrated Crop Management	Brinjal	Un scientific method of raising nursery, High transplanting shock and poor crop establishment, Imbalanced use of fertilizers Soil borne diseases, Low nutrient use efficiency, Low yield		Integrated crop management in Brinjal	1	-	-	3	-	-		AMC 35 kg, Wota trap – 10 Nos	
14	Integrated Crop Management	Ridgegourd	Low yielding local varieties, High incidence of soil borne		ICM in ridgegourd	1	-	-	2	3 kg Arka Prasan,			75 kg AMC fruitfly trap – 15 Nos	





**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 Red Kernel Rice Variety PRATYASA (MO-21& MO-22) for Rabi Season	UAS, Bangalore, KAU, Thrissur	Red Kernel Rice	1	-	1	Field visit, Group discussion meetings, Method demonstration, Training programmes
2	Integrated Nutrient management in paddy	UAHS, Shivamogga, KAU, Kerala	Paddy	1	-	1	Field visit, Group discussion meetings, Method demonstration, Training programmes
3	Assessment of Pruning time in Udupi Jasmine	TNAU, Coimbatore, IIHR, Bengaluru, UHS, Bagalkot	Udupi Jasmine	1	-	1	Field visit, Group discussion meetings, Method demonstration, Training programmes
4	Fall (Off Season) Management in Bee Keeping	UAHS, Shivamogga, TNAU, Coimbatore	Beekeeping	1	-	1	Field visit, Group discussion meetings, Method demonstration, Training programmes
5	Evaluate the growth performance of All Male Tilapia in coastal farm ponds	CIFA, Bhuvaneshwara And UAS, Bangalore	Fish	1	-	1	Field visit, Group discussion meetings, Method demonstration, Training programmes
6	Introduction of DSR method of Paddy cultivation in coastal region	UAS(R)-2013	Paddy	-	1	2	Field visit, Group discussion meetings, Method demonstration, Training programmes
7	Introduction of high yielding GT-1 white seeded Sesamum variety in paddy fallows	UAS(D)-2013	Sesamum	-	1	2	Field visit, Group discussion meetings, Method demonstration, Training programmes
8	Popularization of groundnut variety G-2-52 in paddy fallows	UAS(D)-2015	Groundnut	-	1	2	Field visit, Group discussion meetings, Method demonstration, Training programmes
9	Soil acidity management in paddy	UAS (B)	Paddy	-	1	1	Field visit, Group discussion meetings, Method demonstration, Training programmes

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
10	Integrated nutrient management in Cashew	UAS (B)	Cashew	-	1	2	Field visit, Group discussion meetings, Method demonstration, Training programmes
11	Integrated nutrient management in Cucumber	IIHR, Bangalore	Cucumber	-	1	1	Field visit, Group discussion meetings, Method demonstration, Training programmes
12	Integrated crop management in black pepper	IISR, Calicut, IIHR, Bengaluru	Black pepper	-	1	1	Field visit, Group discussion meetings, Method demonstration, Training programmes
13	Integrated crop management in Brinjal	IIHR, Bengaluru	Brinjal	-	1	1	Field visit, Group discussion meetings, Method demonstration, Training programmes
14	ICM in ridgegourd	IIHR, Bengaluru	Ridegourd	-	1	1	Field visit, Group discussion meetings, Method demonstration, Training programmes
15	Management of Arecanut root grub through IPM practices	UHS, Bagalakot and IIHR, Bengaluru	Arecanut	-	1	1	Field visit, Group discussion meetings, Method demonstration, Training programmes
16	IPDM in Watermelon	UHS, Bagalakot and IIHR, Bengaluru	Watermelon	-	1	1	Field visit, Group discussion meetings, Method demonstration, Training programmes
17	Culture of Amur Common carp in Polyculture system	KVAFSU, Bidar	Fish	-	1	1	Field visit, Group discussion meetings, Training programmes
18	Production and management of carps in farm ponds	KVAFSU, Bidar	Fish	-	1	1	Field visit, Group discussion meetings, Training programmes
19	Demonstration of fodder bank	TNAU Coimbatore	Fodder	-	1	1	Field visit, Group discussion meetings, Training programmes

## 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
18	8	0	0	102	14	0	0	1115	727	70	52	-	--	-	-





Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Seed / Plant production										
Value addition										
Drudgery Reduction										
Storage Technique										
Mushroom cultivation										
<b>Total</b>										

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

Thematic areas	Cattle	Poultry	Piggery	Rabbit	Fisheries	TOTAL
Evaluation of Breeds						
Nutrition Management						
Disease of Management						
Value Addition						
Production and Management					1	1
Feed and Fodder						
Small Scale income generating enterprises						
<b>TOTAL</b>					<b>1</b>	<b>1</b>

#### 4.A4. Abstract on the number of technologies refined in respect of livestock enterprises -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						
<b>TOTAL</b>						

#### 4.B. Achievements on technologies Assessed and Refined

##### 4.B.1. Technologies Assessed under various Crops

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha (Per trial covering all the Technological Options)
Integrated Nutrient Management	Paddy	Integrated Nutrient management in paddy	5	5	0.4
Varietal Evaluation	Paddy	Assessment of Red Kernel Rice Variety PRATYASA (MO-21& MO-22) for Rabi Season	5	5	2
Integrated Pest Management					
Integrated Crop Management	Udupi Jasmine	Assessment of Pruning time in Udupi Jasmine	5	5	2
Integrated Disease Management					
Small Scale Income Generation Enterprises	Beekeeping	Fall (Off Season) Management in Bee Keeping	5	5	2
Weed Management					
Resource Conservation Technology					
Farm Machineries					
Integrated Farming System					

<b>Thematic areas</b>	<b>Crop</b>	<b>Name of the technology assessed</b>	<b>No. of trials</b>	<b>Number of farmers</b>	<b>Area in ha (Per trial covering all the Technological Options)</b>
Seed / Plant production					
Value addition					
Drudgery Reduction					
Storage Technique					
Mushroom cultivation					
<b>Total</b>					

#### 4.B.2. Technologies Refined under various Crops –Nil-

<b>Thematic areas</b>	<b>Crop</b>	<b>Name of the technology assessed</b>	<b>No. of trials</b>	<b>Number of farmers</b>	<b>Area in ha (Per trial covering all the Technological Options)</b>
Integrated Nutrient Management					
Varietal Evaluation					
Integrated Pest Management					
Integrated Crop Management					
Integrated Disease Management					

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha (Per trial covering all the Technological Options)
Small Scale Income Generation Enterprises					
Weed Management					
Resource Conservation Technology					
Farm Machineries					
Integrated Farming System					
Seed / Plant production					
Value addition					
Drudgery Reduction					
Storage Technique					
Mushroom cultivation					
<b>Total</b>					

**4.B.3. Technologies assessed under Livestock and other enterprises**

<b>Thematic areas</b>	<b>Name of the livestock enterprise</b>	<b>Name of the technology assessed</b>	<b>No. of trials</b>	<b>No. of farmers</b>
Evaluation of breeds				
Nutrition management				
Disease management				
Value addition				
Production and management	Fish	Evaluate the growth performance of All Male Tilapia in coastal farm ponds	6	6
Feed and fodder				
Small scale income generating enterprises				
<b>Total</b>			6	6

**4.B.4. Technologies Refined under Livestock and other enterprises –Nil-**

<b>Thematic areas</b>	<b>Name of the livestock enterprise</b>	<b>Name of the technology assessed</b>	<b>No. of trials</b>	<b>No. of farmers</b>
Evaluation of breeds				
Nutrition management				
Disease management				
Value addition				
Production and management				
Feed and fodder				
Small scale income generating enterprises				
<b>Total</b>				

#### 4.C1.Results of Technologies Assessed

##### Results of On Farm Trial

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	Net Return Rs. / unit	BC Ratio	Remarks if any
1	2	3	4	5	6	7	8	9	10	11	12	13
Red Kernel Rice	Rice fallow	Non availability of Suitable Red Rice variety for Rabi season, Locals Preference for Parboiled Red Kernel Rice, Available Varieties are old.	Assessment of Red Kernel Rice Variety PRATYASA (MO-21& MO-22) for Rabi Season	5	T.O.1: Use of Local varieties 1- Kaje Jaya, etc	(Farmers practice)	3643	Kg/ha	-	29140	1.99	
					T.O.2: Use of recommended varieties for Rabi Season Jyothi	UAS, Bangalore	3714	Kg/ha	-	30276	2.03	
					T.O.3: Use of variety PRATYASA (MO-21) for rabi season (red Kernel rice) duration 110-120 days	KAU, Thrissur	4213	Kg/ha	-	38260	2.31	
					T.O.4: MO-22 for Rabi Season (Red Kernal Rice) duration 120 days	KAU, Thrissur	4098	Kg/ha	-	36420	2.25	

**4.C2. Details of Successfully completed / concluded technology assessment (support with necessary summary of data and photographs)**

1	Title of Technology Assessed	Assessment of Red Kernel Rice Variety PRATYASA (MO-21& MO-22) for Rabi Season
2	Performance of the Technology on specific indicators	Replacing existing Jyothi variety with MO-21 with respect to yield and disease
3	Specific Feedback from farmers	Short duration and bold seeded rice
4	Specific Feedback from Extension personnel and other stakeholders	Resistant to rust
5	Feedback to Research System based on results and feedback received	Maintenance of purity

#### 4.C1.Results of Technologies Assessed

##### Results of On Farm Trial

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	Net Return Rs. / unit	BC Ratio	Remarks if any
1	2	3	4	5	6	7	8	9	10	11	12	13
Paddy	Rainfed	Less fertilizer use efficiency, Soil acidity, Leaching of nutrients resulted in secondary nutrients deficiency, Imbalanced use of recommended dose of fertilizers, Low yield.	Integrated Nutrient management in paddy	5	T.O.1: Use of complex fertilizers and DAP 125 kg/ha	(Farmers practice)	32.75	Q/ha	-	14006	1.5	
					T.O.2: Rec. NPK @ 60:30:60 kg/ha N and K in 3 splits	UAHS Shivamogga	40.15	Q/ha	-	23983	1.80	
					T.O.3: Rec NPK @ 90:45:45 kg/ha @ N and K in 2 splits. Application of Magnesium sulphate (or dolomite) @ 20 kg/ha as basal dose , application of rice husk ash @ 500 kg/ha (source of Silica )	KAU, Kerala	42.51	Q/ha	-	25028	1.82	



**4.C2. Details of Successfully completed / concluded technology assessment (support with necessary summary of data and photographs)**

1	Title of Technology Assessed	Integrated Nutrient Management in paddy
2	Performance of the Technology on specific indicators	Testing of recommended dose of fertilizers and replacement of straight fertilizers in the place of complex fertilizers
3	Specific Feedback from farmers	By following recommended dose of fertilizers and application of straight fertilizers will increase the yield
4	Specific Feedback from Extension personnel and other stakeholders	Recommended dose of fertilizers will out yield the farmers practice
5	Feedback to Research System based on results and feedback received	Recommended dose of fertilizers and split application of straight fertilizers will increase the yield

#### 4.C1.Results of Technologies Assessed

##### Results of On Farm Trial

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	Net Return Rs. / unit	BC Ratio	Remarks if any
1	2	3	4	5	6	7	8	9	10	11	12	13
Udupi Jasmine	Home stead	Low yield during off season High incidence of sucking pest	Assessment of Pruning time in Udupi Jasmine	5	T.O.1: Pruning of dead and diseased branches only INM: use of ground nut cake and FYM 10 to 20 kg per plant	(Farmers practice)	0.256	t/ha	-	190573	3.76	
					T.O.2: Time of Pruning : November, at a height of 50 cm from ground level INM : (FYM 10 kg/ plant) RDF 120:240:240 g/plant in two splits Foliar spray of micro nutrient ZnSO <sub>4</sub> 0.25% + MgSO <sub>4</sub> 0.5% + FeSO <sub>4</sub> 0.5%	TNAU, Coimbatore	0.3204	t/ha	-	277208	4.64	
					T.O.3: Time of Pruning: Mid December, at a	IIHR, Bengaluru	0.3078	t/ha	-	261980	4.35	

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	Net Return Rs. / unit	BC Ratio	Remarks if any
1	2	3	4	5	6	7	8	9	10	11	12	13
					height of 90 cm from ground level INM : (FYM 10 kg/plant) RDF 100:150:100 NPK g/plant in 3 split doses							
					T.O.4: Time of Pruning : January, at a height of 60 cm from ground level INM : (FYM 20 kg/ plant) RDF 120:240:240 NPK g/plant in six splits	UHS, Bagalkot	0.2992	t/ha	-	255482	4.28	

#### 4.C2. Details of Successfully completed / concluded technology assessment (support with necessary summary of data and photographs)

1	Title of Technology Assessed		Assessment of Pruning time in Udupi Jasmine
2	Performance of the Technology on specific indicators		Pruning during November, at a height of 50 cm from ground level with RDF and micronutrients found to be superior
3	Specific Feedback from farmers		November pruning at a height of 50 cm from the ground level has increase the jasmne production during off season
4	Specific Feedback from Extension personnel and other stakeholders		-
5	Feedback to Research System based on results and feedback received		-

#### 4.C1.Results of Technologies Assessed

##### Results of On Farm Trial

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	Net Return Rs. / unit	BC Ratio	Remarks if any
1	2	3	4	5	6	7	8	9	10	11	12	13
Beekeeping	-	Bee colonies gets weaken, susceptible to pests and disease, no honey production and absconding of Bee colonies	Fall (Off Season) Management in Bee Keeping	5	T.O.1: Unscientific methods	(Farmers practice)	5.8	Kg	Bees were more arrogant	3700	1:3.7	
					T.O.2: Providing sugar/honey solution in 1:1 proportion	UAHS, Shivamogga	9.5	Kg	No arrogance	4650	1:5.23	
					T.O.3: Providing sugar/honey solution in 1:2 proportion	TNAU, Coimbatore	8.6	kg	No arrogance	4240	1:6.58	

#### 4.C2. Details of Successfully completed / concluded technology assessment (support with necessary summary of data and photographs)

1	Title of Technology Assessed	Fall (Off Season) Management in Bee Keeping
2	Performance of the Technology on specific indicators	TO-2 option was performed better with respect to arrogance during handling
3	Specific Feedback from farmers	TO-2 No arrogance during handling
4	Specific Feedback from Extension personnel and other stakeholders	It is better to give 1:1 sugar and honey proportion. In order to have better settlement of colonies and to reduce the arrogance
5	Feedback to Research System based on results and feedback received	Thaisac brood was observed almost all the treatments this needs to be given due attention

#### 4.C1.Results of Technologies Assessed

##### Results of On Farm Trial

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	Net Return Rs. / unit	BC Ratio	Remarks if any
1	2	3	4	5	6	7	8	9	10	11	12	13
Fish	-	Low growth and low market demand of locally available fresh water fish species cultured in farm ponds	Evaluate the growth performance of all male Tilapia in Coastal farm ponds	6	T.O.1: Culture of Common Carp in Monoculture system	Farmers practice						Crop not yet harvested
					T.O.2: Rearing of All Male Tilapia in Monoculture system	CIFA, Bhuvaneshwara						
					T.O.3: Rearing of All Male Tilapia in Polyculture system along with Grass carp and Common carp	UAS, Bangalore						

#### 4.C2. Details of Successfully completed / concluded technology assessment (support with necessary summary of data and photographs)

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

**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	Net Return Rs. / unit	BC Ratio	Remarks if any
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.D.2. Details of Technologies refined:**

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



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
5.	Vegetables													
		Rainfed	Rabi	Cucumber	Local		Integrated Nutrient Management	Foliar spray of Vegetable Special @ 0.1 % after 30 days after sowing. Subsequent sprays at 10-15 days of interval to cucumber along with Recommended dose of fertilizers and INM practices	4	4	-	10	10	-
		Irrigated	Rabi	Brinjal	Mattigulla		Integrated Crop Management	Raising of nursery seedlings in portraits  INM: FYM 25t/ha+75% RDF NPK Kg/ha+ Arka Microbial Consortium 12.5 Kg/ha	0.8	0.8	-	10	10	-



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
								Control of fruit and shoot borer by using Wota traps (Lucilure)						
		Irrigated	Kharif	Ridgegourd	Arka Prasan		Integrated Crop Management	Introduction of new high yielding variety Arka Prasan (Yields 26.0 T/Ha In 120-135 Days Duration)  Control of Soil Borne Pathogens and Nutrient Use efficiency by drenching of Arka Microbial Consortium @25g/L  Enhancing Fruit set, Fruit Keeping Quality and Taste by use of vegetable	2	2	-	15	15	-

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
								special @ 1g/L  Control of Fruit fly by using Fruit fly traps						
6.	Flowers													
7.	Ornamental													
8.	Fruit													
		Irrigated	Summer	Watermelon	-	-	Integrated Pest and disease management	Pest and disease management	2	2	5	-	5	-
9.	Spices and condiments													
		Irrigated	Kharif	Black Pepper	Panniyur-1	-	Integrated crop management	Drenching of Imidacloprid 0.3 ml per lit. during May and September  Drenching of Arka Microbial Consortia and	1	1	-	10	10	-

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
								Arka Actinoplus @ 25g per Litre (3 Litres per vine)  Spraying of Potassium Phosphonate 3ml per lit.during June and September  Soil application of <i>Pachonia chlamydo spori a</i> enriched with FYM						
10.	Commercial													
11.	Medicinal and aromatic													
12.	Fodder	-	-	Fodder	CO 5, COFS 31 and COFC-8	-	Production and management	Introduction of Fodder grass : CO 5, COFS 31 and COFC-8	0.8	0.8		4	4	-

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
13.	Plantation													
		Rainfed	Rabi	Cashew	Ullal-1	-	Integrated Nutrient Management	Recommended dose of fertilizers 500:250:250 gram/plant with 25 kg FYM per plant. Opening of trenches in between plants of dimension 1.5 x 2x 10(feet) to conserve the moisture	2	2	-	10	10	-
		Rainfed	Kharif	Arecanut	Mangala	-	Integrated Pest Management	Collection of Adult beetle during June and July month  Addition of gravel lateritic soil to the base of the palm  Application of Entomopathogenic	1	1	-	5	5	-



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
	carps													
22.	Mussels													
23.	Ornamental fishes													
24.	Oyster mushroom													
25.	Button mushroom													
26.	Vermicompost													
27.	Sericulture													
	Apiculture													
28.	Implements													
29.	Others (specify)	-	-	Fish	Catla, Rohu	-	Production and management	Rearing of Amur carp in polyculture system	1.2	1.2	-	3	3	-
		-	-	Fish	Catla, Rohu, Mrigal		Production and management	Rearing of Catla, Rohu and Common carp in Polyculture system with stocking density 10000 per hectare	0.8	0.8	-	4	4	-

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

Sl. No.	Category	Farming Situation	Season and Year	Crop	Variety/breed	Hybrid	Thematic area	Technology Demonstrated	Season and year	Status of soil			Previous crop grown
										N	P	K	
1.	Oilseeds												
		Rice fallow	Rabi	Sesamum	GT-1	-	Variety introduction	Introduction of high yielding GT-1 white seeded Sesamum variety	Rabi	M	H	L	Pulses
		Rice fallow	Rabi	Groundnut	G2-52	-	Variety introduction	Groundnut G-2-52 variety popularization	Rabi	M	H	L	Paddy
2.	Pulses												
3.	Cereals												
		Rainfed	Kharif	Paddy	MO-4	-	Resource conservation technologies	Introduction of DSR method of Paddy cultivation	Kharif	M	H	L	Leafy vegetables
		Rainfed	Kharif	Paddy	MO-4	-	Problematic soil management	Soil test based lime application	Kharif	L	M	L	Blackgram
4.	Millets												
5.	Vegetables												
		Rainfed	Rabi	Cucumber	Local		Integrated Nutrient Management	Foliar spray of Vegetable Special @ 0.1 % after 30 days after	Rabi	M	H	L	Paddy

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	
								sowing. Subsequent sprays at 10-15 days of interval to cucumber along with Recommended dose of fertilizers and INM practices					
		Irrigated	Rabi	Brinjal	Mattigulla		Integrated Crop Management	Raising of nursery seedlings in portraits  INM: FYM 25t/ha+75% RDF NPK Kg/ha+ Arka Microbial Consortium 12.5 Kg/ha  Control of fruit and shoot borer by using Wota traps (Luci lure)	Rabi	M	H	L	Paddy
		Irrigated	Kharif	Ridge gourd	Arka Prasan		Integrated Crop	Introduction of new high	Kharif	M	H	L	Paddy



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	
							Management	yielding variety Arka Prasan (Yields 26.0 T/Ha In 120-135 Days Duration)  Control of Soil Borne Pathogens and Nutrient Use efficiency by drenching of Arka Microbial Consortium @25g/L  Enhancing Fruit set, Fruit Keeping Quality and Taste by use of vegetable special @ 1g/L  Control of Fruit fly by using Fruit fly traps					

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	
6.	Flowers												
7.	Ornamental												
8.	Fruit												
		Irrigated	Summer	Watermelon	-	-	Integrated Pest and disease management	Pest and disease management	Summer	M	H	L	Vegetables
9.	Spices and condiments	Irrigated	Kharif	Black Pepper	Panniyur-1	-	Integrated crop management	Drenching of Imidacloprid 0.3 ml per lit. during May and September  Drenching of Arka Microbial Consortia and Arka Actinoplus @ 25g per Litre (3 Litres per vine)  Spraying of	Kharif	M	H	L	Black Pepper

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	
								Potassium Phosphonate 3ml per lit.during June and September  Soil application of <i>Pachonia chlamydosporia</i> enriched with FYM					
10.	Commercial												
11.	Medicinal and aromatic												
12.	Fodder												
		-	-	Fodder	CO 5, COFS 31 and COFC-8	-	Production and management	Introduction of Fodder grass : CO 5, COFS 31 and COFC-8	-	M	H	L	Fodder
13.	Plantation												
		Rainfed	Rabi	Cashew	Ullal-1	-	Integrated Nutrient Management	Recommended dose of fertilizers	Rabi	L	L	L	Cashew

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	
								500:250:250 gram/plant with 25 kg FYM per plant. Opening of trenches in between plants of dimension 1.5 x 2x 10(feet) to conserve the moisture					
		Rainfed	Kharif	Arecanut	Mangala	-	Integrated Pest Managment	Collection of Adult beetle during June and July month  Addition of gravel lateritic soil to the base of the palm  Application of Entomopathogenic nemotodes 20 g /palm  Chlorpyriphos 10 ml /palm	Kharif	M	L	L	Arecanut

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	
								For later stage grubs  Spraying of Imidacloprid 17.8 SL @ 0.5 ml/lit For early stage grubs					
14.	Fibre												
15.	Fishery	-	-	Fish	Catla, Rohu	-	Production and management	Rearing of Amur carp in polyculture system	-	-	-	-	
		-	-	Fish	Catla, Rohu, Mrigal	-	Production and management	Rearing of Catla, Rohu and Common carp in Poly culture system with stocking density 10000 per hectare	-	-	-	-	

## 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 Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
							H	L	A										
Oilseeds																			
Sesamum	Introduction of high yielding GT-1 white seeded Sesamum variety in paddy fallows	GT-1		Rice fallow	10	4	4.20	3.95	4.10	4.00	1.02	16890	36900	20010	2.18	16000	26000	10000	1.63
Groundnut	Popularization of groundnut variety G-2-52 in paddy fallows	G2-52		Rice fallow	10	4	27.28	24.95	26.00	24.50	6.12	24790	130000	105210	5.24	24790	122500	97710	4.94
Pulses																			
Cereals																			
Paddy	Introduction of DSR method of Paddy cultivation in coastal region	Mo-4		Rainfed	10	4	38.15	34.68	36.12	38.56	-	21600	57792	36192	2.67	29148	61696	32548	2.11
Paddy	Soil acidity management in paddy	Mo-4		Rainfed	10	4	45.60	40.10	43.21	39.10	13.71	28141	44186	16045	1.57	26171	38126	11955	1.45
Millets																			
Vegetables																			
Cucumber	Integrated nutrient management in Cucumber	Local		Rainfed	10	4	590	510	540	520	15.68	28216	58214	29998	2.06	24123	40141	16018	1.66
Brinjal	Integrated crop management in Brinjal	Mattigulla		Irrigated	10	0.8	219.50	206.25	214.50	183.65	16.79	108300	321750	213450	2.97	105600	275475	169875	2.60

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 Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
							H	L	A										
Ridgegourd	ICM in ridgegourd	Arka Prasan		Irrigated	15	1	240.20	210.5	226.13	186.50	21.24	91250	203517	112267	2.23	89654	167850	78196	1.87
Flowers																			
Ornamental																			
Fruit																			
Watermelon	IPDM in watermelon	-	-	Irrigated	5	2	On going												
Spices and condiments																			
Black pepper	Integrated crop management in black pepper	Panniyur-1		Irrigated	10	1	11.05	9.11	10.60	8.90	19.10	82500	329000	246500	3.98	59400	176450	117050	2.97
Commercial																			
Fibre crops like cotton																			
Medicinal and aromatic																			
Fodder																			
Fodder	Demonstration of fodder bank	CO 5, COFS 31 and COFC-8	-	-	4	0.8	Crop not yet harvested												
Plantation																			
Cashew	Integrated nutrient management in Cashew	Ullal-1	-	Rainfed	10	2	15.11	10.34	13.23	10.32	28.48	50124	198837	148713	3.96	46174	132619	86445	2.87
Arecanut	Management of Arecanut root grub through IPM practices	Mangala		Rainfed	5	1	19.20	15.80	18.10	14.85	21.88	98700	296500	197800	3.0	84500	223200	138700	2.64







**5.B.4. Other enterprises – Nil-**

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

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

\*\* BCR= GROSS RETURN/GROSS COST

H-High L-Low, A-Average

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

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

### 5.B.5. 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	Labour requirement in Mandays		% save	Savings in labour (Rs./ha)	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)				
					Demo	Check			Gross cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR	

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

\*\* BCR= GROSS RETURN/GROSS COST

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

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

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

Sl.No.	Activity	No. of activities organised	Number of participants	Remarks
1	Field days	2	190	
2	Farmers Training	49	1964	
3	Media coverage	8	-	
4	Training for extension functionaries	-	-	
5	Others (Please specify)	-	-	



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 Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR	
					H	L	A											
Bottle gourd																		
Capsicum																		
Others (pl.specify)																		
<b>Total</b>																		
Cucumber																		
Tomato																		
Brinjal																		
Okra																		
Onion																		
Potato																		
Field bean																		
Others (pl.specify)																		
<b>Total</b>																		
<b>Commercial crops</b>																		
Sugarcane																		
Coconut																		
Others (pl.specify)																		
<b>Total</b>																		
<b>Fodder crops</b>																		
Maize (Fodder)																		
Sorghum (Fodder)																		
Others (pl.specify)																		
<b>Total</b>																		

H-High L-Low, A-Average

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













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										
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										
Others (pl.specify)										
<b>CapacityBuilding and Group Dynamics</b>	<b>1</b>	<b>78</b>	<b>25</b>	<b>103</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>78</b>	<b>25</b>	<b>103</b>
Leadership development										
Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
Others (pl.specify)										
<b>Agro-forestry</b>										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (Pl. specify)										
<b>TOTAL</b>	<b>10</b>	<b>346</b>	<b>220</b>	<b>566</b>	<b>4</b>	<b>19</b>	<b>23</b>	<b>350</b>	<b>239</b>	<b>589</b>

## 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
<b>Crop Production</b>										
Weed Management	1	18	41	59	-	-	-	18	41	59
Resource Conservation Technologies	1	12	8	20	-	-	-	12	8	20
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/Irrigation										
Seed production										
Nursery management										
Integrated Crop Management	6	69	96	165	2	0	2	71	96	167
Soil and Water Conservation										
Integrated Nutrient Management	3	53	57	110	-	-	-	53	57	110
Production of organic inputs										
Others (pl.specify) Production and management technology	2	38	57	95				38	57	95
<b>Horticulture</b>										
<b>a) Vegetable Crops</b>										
Production of low value and high volume crop										
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl.specify)Integrated crop management	5	129	60	189	2	0	2	131	60	191











Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
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										
Others (pl.specify)										
<b>CapacityBuilding and Group Dynamics</b>										
Leadership development										
Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths	1	14	-	14	-	-	-	14	-	14
Others (pl.specify)										
<b>Agro-forestry</b>										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (Pl. specify)										
<b>TOTAL</b>	<b>29</b>	<b>542</b>	<b>409</b>	<b>951</b>	<b>40</b>	<b>26</b>	<b>66</b>	<b>582</b>	<b>435</b>	<b>1017</b>











## 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
<b>1</b>	<b>Crop production and management (Integrated crop management)</b>	<b>4</b>	<b>131</b>	<b>62</b>	<b>193</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>131</b>	<b>62</b>	<b>193</b>
1.a.	Increasing production and productivity of crops										
1.b.	Commercial production of vegetables										
<b>2</b>	<b>Production and value addition</b>										
2.a.	Fruit Plants										
2.b.	Ornamental plants										
2.c.	Spices crops (Integrated disease management)	<b>3</b>	<b>51</b>	<b>25</b>	<b>76</b>	<b>26</b>	<b>7</b>	<b>33</b>	<b>77</b>	<b>32</b>	<b>109</b>
<b>3.</b>	<b>Soil health and fertility management</b>										
<b>4</b>	<b>Production of Inputs at site</b>										
<b>5</b>	<b>Methods of protective cultivation</b>										
<b>6</b>	<b>Others (pl.specify)</b>										
<b>7</b>	<b>Post harvest technology and value addition</b>										
7.a.	Processing and value addition										
7.b.	Others (pl.specify)										
<b>8</b>	<b>Farm machinery</b>										
8.a.	Farm machinery, tools and implements										
8.b.	Others (pl.specify)										
<b>9.</b>	<b>Livestock and fisheries</b>										
<b>10</b>	<b>Livestock production and management</b>										
10.a.	Animal Nutrition Management										
10.b.	Animal Disease Management										
10.c.	Fisheries Nutrition										
10.d.	Fisheries Management										
10.e.	Others (pl.specify) Dairy farmer entrepreneur	<b>1</b>	<b>18</b>	<b>2</b>	<b>20</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>18</b>	<b>2</b>	<b>20</b>
<b>11.</b>	<b>Home Science</b>										
11.a.	Household nutritional security										
11.b.	Economic empowerment of women										
11.c.	Drudgery reduction of women										
11.d.	Others (pl.specify)										
<b>12</b>	<b>Agricultural Extension</b>										
12.a.		<b>1</b>	<b>11</b>	<b>5</b>	<b>16</b>				<b>11</b>	<b>5</b>	<b>16</b>
12.b.											
	<b>Total</b>	<b>9</b>	<b>211</b>	<b>94</b>	<b>305</b>	<b>26</b>	<b>7</b>	<b>33</b>	<b>237</b>	<b>101</b>	<b>338</b>





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

S. No.	Name of Job Role	Date of Start	Date of Assessment	Total Expenditure (Rs.)	No. of Participants									No of Participants passed assessment
					General			SC/ST			Grand Total			
					Male	Female	Total	Male	Female	Total	Male	Female	Total	
1	Friends of coconut tree	21.01.2019 to 14.02.2019	-	165200	15	5	20				15	5	20	
2.	Dairy farmer Entrepreneur	18.02.2019 to 15.03.2019	-	108270	10	10	20	-	-	-	10	10	20	-

**PART VIII – EXTENSION ACTIVITIES (2018-19)****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
Field Day	2	118	52	170	12	6	18	2	0	2
Kisan Mela	1	550	0	550	0	0	0	26	0	26
Kisan Ghosthi	1	86	12	98	1	1	2	4	0	4
Exhibition	4	145641	51024	196665	0	0	0	94	10	104
Film Show	12	325	78	403	-	-	-	-	-	-
Method Demonstrations	14	426	68	494	4	3	7	9	0	9
Farmers Seminar/Workshop	4	87	71	158	0	0	0	15	0	15
Workshop	3	0	0	0	0	0	0	120	22	142
Group meetings	21	632	64	696	0	0	0	39	2	41
Lectures delivered as resource persons	45	2165	1444	3609	23	2	25	49	2	51
Newspaper coverage	8									
Radio talks	2									
TV talks	2									
Popular articles	0									
Extension Literature	0									
Advisory Services	23	1191	263	1454	0	0	0	0	0	0

Scientific visit to farmers field	51	387	60	447	3	1	4	43	2	45
Farmers visit to KVK	1	2287	310	2597	27	3	30	15	4	19
Diagnostic visits	12	33	0	33	0	0	0	18	0	18
Exposure visits	9	201	33	234	0	0	0	1	0	1
Ex-trainees Sammelan										
Soil health Camp										
Animal Health Camp										
Agri mobile clinic										
Soil test campaigns										
Farm Science Club Conveners meet										
Self Help Group Conveners meetings										
Mahila Mandals Conveners meetings										
Celebration of important days (specify)	7	134	81	215	0	0	0	0	0	0
Any Other (Specify)Farmer/Extension Personnel visit to KVK	18	329	100	429	3	4	7	1	1	2
<b>Total</b>		<b>154592</b>	<b>53660</b>	<b>208252</b>	<b>73</b>	<b>20</b>	<b>93</b>	<b>436</b>	<b>43</b>	<b>479</b>

**PART IX – PRODUCTION OF SEED, PLANT AND LIVESTOCK MATERIAL (2018-19)****9.A. Production of seeds by the KVKs**

Crop category	Name of the crop	Name of the Variety	Name of the Hybrid	Quantity of seed (q)	Value (Rs)	Number of farmers to whom provided
Cereals (crop wise)						
Oilseeds						
Pulses						
Commercial crops						
Vegetables	Bhendi seeds	Halu bhendi	-	4.11	49,378	34
Flower crops						
Spices						
Fodder crop seeds						
Fiber crops						
Forest Species						
Others (specify)						
<b>Total</b>				<b>4.11</b>	<b>49,378</b>	

**9.B. Production of planting material by the KVKs**

Crop category	Name of the crop	Variety	Hybrid	Number	Value (Rs.)	Number of farmers to whom provided
Commercial						
Vegetable seedlings						
Fruits	Papaya	-	Thaiwan Redlady	770	11550	105
Ornamental plants						
Medicinal and Aromatic						
Plantation	Arecanut	Mohit Nagar	-	3164	63280	880
	Coconut	WCT	-	660	39600	25
Spices	Black pepper	Panniyur – (1,5,7) IISR-	-	4863	48630	308

		(Shakti, Tevam, Srikara)				
	Bush pepper	Panniyur – 1	-	434	13020	71
Tuber						
Fodder crop saplings						
Forest Species						
Others(specify)Flowers	Jasmine	Udupi Mallige	-	380	11400	21
<b>Total</b>				<b>10271</b>	<b>187480</b>	<b>1410</b>

### 9.C. Production of Bio-Products – Nil-

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

### 9.D. Production of livestock

Particulars of Livestock	Name of the breed	Number	Value (Rs.)	Number of farmers to whom provided
<b>Dairy animals</b>				
Cows				
Buffaloes				
Calves				
Others (Pl. specify)				
<b>Poultry</b>	Giriraja	2287	211010	382

Broilers				
Layers				
Duals (broiler and layer)				
Japanese Quail				
Turkey				
Emu				
Ducks				
Others (Pl. specify)				
<b>Piggery</b>				
Piglet				
Others (Pl.specify)				
<b>Fisheries</b>				
Fingerlings	Catla	466	21480	8
Others (Pl. specify)Rabbit	Newzealand white	2	700	1
<b>Total</b>		<b>2755</b>	<b>233190</b>	<b>391</b>

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

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

(A) KVK Newsletter:

Date of start: 2006 Periodicity: Quarterly Copies printed in each issue: 500

(B) Literature developed/published

<b>Item</b>	<b>Number</b>
Research papers- International	-
Research papers- National	6
Technical reports	2
Technical bulletins	2
Popular articles - English	-
Popular articles – Local language	-
Extension literature	-
Others (Pl. specify)	-
<b>TOTAL</b>	<b>10</b>

**10.B. Details of Electronic Media Produced**

S. No.	Type of media	Title	Details
1	CD / DVD	Hydroponics for green fodder production Wilt management in black pepper	
2	Mobile Apps		
3	Social media groups with KVK as Admin	DK & Udupi Tri-monthly FOCT Members Nursery trainers group	
4	Facebook account name		
5	Instagram account name		

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

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

The Broad outline for the case study may be

**Title : Success story of FOCT trainee Sri Ravi**

**Background:** Ravi, a daily wage worker is native of thellar village Karkala Tq. He is hard worker with an educational qualification of 7<sup>th</sup> standard. During 2016-17 he had undergone 2 days training on mushroom cultivation at K.V.K Brahmavar. With that knowledge and from the assistance from his land lord Sri Krishna he had started one mushroom production unit under financial assistance from dept. of Horticulture Karkala. He started production of milky mushroom which requires higher temperature during March to May. When the temperature was low during monsoon and winter he cultivated oyster mushroom. Earlier he failed due to huge contamination problem and was in a verge to close the unit. He approached K.V.K for the technical know how and for further knowledge K.V.K Brahmavar Scientist sent him to I.I.H.R Bengaluru where under the supervision of the mushroom cultivation Scientists he under went 2 days training Hands on training and was able to learn and correct the mistakes which he had done earlier. After the training he could find less contamination, could fill more number of bags/day and also learnt about the preparation of ready to grow bags which he is selling to the customers and also gaining income from that. Through the intervention of training at K.V.K Brahmavar and I.I.H.R Bengaluru he was able to cultivate oyster mushroom throughout the year which had demand in the local market compared to oyster mushroom. Mr.Ravi was very much interested in undergoing the training on climbing coconut tree using device and he attended 25 days ASCI sponsored Friends of Coconut Tree held from 21<sup>st</sup> Jan to 14<sup>th</sup> Feb at K.V.K Brahmavar. During 25 days training programme he attained the skill of climbing the tree using device, Integrated crop management practices, nursery activities in coconut, Pest and disease management in coconut and also coco scrap (Neera) tapping through demonstration from Dr.K.B.Hebbar from CPCRI Kasargod.

After accomplishing the training he used his morning free time from 7 am to 12 noon to attend harvesting of coconut in and around Thellar village. The people of Thellar village are very happy as they were finding difficult in harvesting coconut as there were no coconut harvesters in the village. At present Mr.Ravi has become a popular figure in the village and regularly attend the harvesting work as per the fixed appointment. Monthly on an average he

attends to harvesting work for 20 days and per day he climbs around 20 trees and charges Rs. 40/tree Neera tapping is also carried out by Mr.Ravi where initially he has tapped 5 coconut trees in his own farm and had harvested 15 litres of coco sap (Neera). He is eager to attend the Neera tapping activity as there is a great demand in the local market and fetches around Rs.100 to Rs.150/litre of coco sap(Neera).

Mushroom training at K.V.K and I.I.H.R Bengaluru, coconut climbing training through FOCT was two skill training that has changed the social and economic status of Mr.Ravi. After undergoing training he also attends consultancy in mushroom cultivation wherein he shares his knowledge with the fellow farmers and motivate them to start entrepreneurship in mushroom cultivation.

#### **Income generated by Sri Ravi from various sources after undergoing training**

<b>Sl. No.</b>	<b>Monthly income from</b>		<b>Gross Income/ month (Rs.)</b>	<b>Net Income/ month (Rs.)</b>	<b>Remarks</b>
1	Harvesting coconut	Rs. 40 X 20 palms/day (Average 20 days / month)	16,000.00	13,000.00	morning 7.00 am to 12 noon (Rs. 3000 petrol cost for the vehicle)
2	Selling ready to grow mushroom bags	Rs. 30 / bag (On an average sells 215 Ready to grow bags/ month)	6450.00	4,300.00	Rs. 10 material cost per bag ( Spawn, poly cover, labour etc.)
3	Mushroom cultivation (Oyster mushroom)	500 bags X 200 grams mushroom / bag (@Rs 250/kg)	25,000.00	13,000.00	Rs. 24 (material and maintenance cost per bag)
4	Selling Coco Sap (Neera )	15 litres/ month from (@Rs 100/ litre)	1,500.00	1,500.00	Sells to the local customers
	<b>Total</b>		<b>48,950.00</b>	<b>31,800.00</b>	



- Before training he had monthly gross income of Rs. 12,000 to 15,000 through daily wage work
- Attained social respect and financial status after attaining training

### Employment generation

As a daily wage worker without skill he could earn at Rs.350 to 400/month and at present after training and gaining skill more employment opportunity has been generated. His area of work has been extended from meager daily wage worker to a skilled coconut harvester where he can guide the farmers about common disease and pests of coconut through the knowledge he has attained during training at K.V.K. His farmer friendliness is one of the key factor in gaining employment throughout the year. He also employs other labours on daily wage for the part time work which are required during mushroom cultivation. Overall the skill trainings attended by Mr.Ravi have made him to earn a monthly net income of Rs.30,000/- and lead a normal social life in the society.

#### 10.D. Give details of innovative methodology or innovative technology of Transfer of Technology developed and used during the year

- Use of multi media in training the farmers
- Use of mass media like newspaper, agriculture magazines, tv and All India Radio for transfer of technology
- Text messages through MKISAN Portal

#### 10.E. Give details of indigenous technology 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
1.	Paddy	Alternate drying wetting of Paddy upland situation	Provides good aeration and helps control yellow Green Algae in paddy (Harishchandra Upadyaya)
2.	Paddy	Spraying Paddy with a week old fermented decoction of neem cake, extract of tobacco leaves, sour buttermilk, fish oil along with Jeevamritha	Increased the productive tillers and promoted luxuriant growth in Paddy.
3.	Vegetables	Butter milk spray for vegetables	Resulted in robust growth of vegetables
4.	Watermelon	200ml Butter, 200 ml Tender Coconut water and 200 gram jaggery diluted in 100 liter of water	Results in robust growth of Watermelon and it is as good as Gibberlic acid spray. (Nagur Watermelon farmers)
5.	Cowpea	Application of top	Resulted in good germination and early crop

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK
		soil along with vermi compost to cowpea	establishment of cowpea.
6.	Cowpea	Application of well decomposed areca husk compost in rotation with gobar gas slurry.	Supplements potash to cowpea.
7.	Cowpea	Application of coconut coir pith and rice hull compost for cowpea	Boosts the crop growth and acts as a potash supplement
8.	Cowpea	Vermi wash spray to cowpea	Enhanced yield and resulted in a healthy crop stand
9.	Jasmine	Spraying one month old fermented mixture of 3 Kg Azzola with 1 Kg Jaggery at the rate of 1 ml of extract in 1 liter of water to jasmine.	Increased flowering and yield
10.	Paddy	Spraying Jeevamritha : A week old filtered fermented preparation consisting of Bengal gram ( <i>Cicer arietinum</i> ) flour- 2 Kg; Jaggery -2 Kg; Cow dung – 5 Kg Cow urine – 5 l; Top soil – 2 Kg; Groundnut cake- 2 kg; fermented butter milk – 2 liter in a copper container	Acted as a nutrient supplement to the crop in paddy
11.	Paddy	Spraying Paddy with a week old fermented decoction of neem cake, extract of tobacco leaves, sour buttermilk, fish oil and Jeevamrita	Increased the productive tillers and promoted luxuriant growth in Paddy with less incidence Pest and Diseases .
12.	Vegetables	Butter milk spray for vegetables	Resulted in robust growth of vegetables
13.	Jasmine	Nipping water shoots in jasmine	Resulted in profused flowering
14.	Jasmine	Spray of 42 days old fermented butter milk stored in copper container at 10 days interval @ a litre in 10 liter of water to jasmine.	Reduced pests and diseases in Jasmine and it also helped to overcome the micro nutrient deficiencies
15.	All Crops	Application of ash	Adds potash to the soil, improved soil properties.
16.	Areca nut	Earthing up ( Raking the soil) to the areca nut palms	enhances fresh rooting due to loosening of soil and

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK
		with organic manure	rebuilding soil fertility after heavy rains
17.	Jasmine	Bio digester spraying/ drenching the crop jasmine in the proportion 1 liter in 3 liter of water	Acts as a pesticide and micro nutrient supplement.
18.	Areca nut	Application of salt granules for coconut	Reduces button shedding in coconut and also acts as a substitute to potash and repulses the insects

10 F. Technology Week celebration during 2018-19:

Period of observing Technology Week: From 27.10.2018 to 31.10.2018

Total number of farmers visited : 1257

Total number of agencies involved : 5

Number of demonstrations visited by the farmers within KVK campus : 1257

#### Other Details

Types of Activities	No. of Activities	Number of Farmers	Related crop/livestock technology
Gosthies	1	98	
Lectures organized	6	1257	
Exhibition	4	215	
Film show	12	403	
Fair	2	472	
Farm Visit	51	496	
Diagnostic Practicals	12	51	
Supply of Literature (No.)	-	-	
Supply of Seed (q)	4.11	34	
Supply of Planting materials (No.)	10271	1410	
Bio Product supply (Kg)	-	-	
Bio Fertilizers (q)	-	-	
Supply of fingerlings	466	8	
Supply of Livestock specimen (No.)	2289	383	

Types of Activities	No. of Activities	Number of Farmers	Related crop/livestock technology
Total number of farmers visited the technology week	6	1257	1. Scientific cultivation practices in high yielding cashew, cocoa, pepper and other horticulture crops 2. High income generating Integrated farming systems for coastal region 3. Use of machineries in paddy cultivation and other technologies to reduce the cost of cultivation 4. Scientific cultivation practices in vegetable cultivation during winter season 5. World food day and field day on paddy (variety-Irga) 6. Vermi compost production technology by using horticulture crop wastes

### PART XI – SOIL AND WATER TEST

#### 11.1 Soil and Water Testing Laboratory

##### A. Status of establishment of Lab

: Full pledged Establishment in the Year 2002

1. Year of establishment : 2002
2. List of equipments purchased with amount : -Nil-

Sl. No	Name of the Equipment	Qty.	Cost	Status

##### B. Details of samples analyzed since establishment of SWTL:

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages
Soil Samples	3820	3329	2007
Water Samples	949	817	705
Plant samples			
Manure samples			
Others (specify)			
<b>Total</b>	<b>4769</b>	<b>4146</b>	<b>2712</b>

##### C. Details of samples analyzed during the 2018-19:

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages
Soil Samples	289	289	289
Water Samples	144	144	144
Plant samples			
Manure samples			
Others (specify)			
<b>Total</b>	<b>433</b>	<b>433</b>	<b>433</b>

### 11.2 Mobile Soil Testing Kit

#### A. Date of purchase and current status

Mobile Kits	Date of purchase	Current status
1.Pusa kit	April 2016	No using

#### B. Details of soil samples analyzed during 2018-19 and since establishment with Mobile Soil Testing Kit:

	Progress during 2018-19	Cumulative progress
Samples analyzed (No.)	289	-
Farmers benefited (No.)	289	-
Villages covered (No.)	289	-

#### 11.3 Details of soil health cards issued based on SWTL & Mobile Soil Testing Kit during 2018-19:

Particulars	Date (s)	Villages (No.)	Farmers (No.)	Samples analyzed (No.)	Soil health cards issued (No.)
SWTL		110	260	289	289
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	320	30	5	10	5	4

## PART XII. IMPACT

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

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
Integrated crop management in black pepper	10	23%	117050	246500
Introduction of DSR method of Paddy cultivation in coastal region	10	5%	32548	36192
ICM in ridgegourd	15	12%	112267	78196
Soil acidity management in paddy	10	10%	16045	11955
Management of Arecanut root grub through IPM practices	5	18%	138700	197800
Introduction of high yielding GT-1 white seeded Sesamum variety in	10	50%	10000	20010

paddy fallows				
Popularization of groundnut variety G-2-52 in paddy fallows	10	25%	97710	105210
Integrated crop management in Brinjal	10	18%	169875	213450
Integrated nutrient management in Cashew	10	5%		
Integrated nutrient management in Cucumber	10	5%	29998	16018

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)**

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

### PART XIII - LINKAGES

**13A. Functional linkage with different organizations**

<i>Name of organization</i>	<i>Nature of linkage</i>
SKDRDP	Training Programme and demonstrations
RUDSET	Training Programme
Novodaya SHGs	Training Programme
KSDA	Demonstration cum Training Programme
KCDC	Demonstration cum Training Programme
DCCD	Demonstration cum Training Programme
Dept. of Agri.	Training Programme
Dept. of Horti.	Training Programme
Dept. of Fisheries	Demonstration cum Training Programme
Dept. of AH & VS	Training Programme
BVT, Manipal	Training Programme
Engineering College, Nitte	Agricultural implements
MIT	Marketing linkage for Mattugulla, Brinjal

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.)
Nursery management techniques of Rural youth	28.05.2018 to 02.06.2018	MANAGE, Hyderabad & SAMETI South, Bengaluru	42,000
Wilt management in black pepper	20.08.2018	GOK Plan Grants	2,00,000
Friends of Coconut Tree	21.01.2019 to 14.02.2019	ASCI	1,65,200
Dairy Farmer Entrepreneur	18.02.2019 to 15.03.2019	ASCI	1,89,600
Linking KVK to FPO for technical support under comprehensive horticulture development scheme (CHD)	October 2018	Dept of Horticulture	3,09,750
Establish on demonstrate crop technology and IFS demonstration units through participatory mode	November-December-2018	GOK Grants	3,80,000
Demonstration of soil acidity management in coastal acid soils	September 2018 to March 2019	GOK Grants	3,00,000
Demonstration on drought tolerant Groundnut variety for coastal district	28.11.2018	GOK Grants	4,00,000
Improving livelihood and enhancing family income of farmer through horticulture intervention under Bhoosamrudhi Project	Sept 2018 to March 2019	IIHR, Bangalore	6,30,000
Swachhata Action for the year 2018-19	March 2019	ICAR	50,000
Hydroponics for green fodder production	February 2019	GOK Grants	1,00,000
DAESI Programme	April 2018 (1 year)	SAMETI, South	3,61,548
Demonstration cum trainings for farmers of coastal district on Coconut fronds for compost and vermi compost production	October 2018	GOK Grants	3,00,000
Precision management of Salvenia Molesta through integrated approach in Udupi District of Coastal Karnataka	October 2018	Commissioner of Agriculture, Govt. of Karnataka	5,50,000
Evaluation of fish protein hydrolysate-powder (FPH Powder) for growth and yield performance of cashew	January 2019	Janata Agro products, Kota	1,29,800
Evaluation of fish protein hydrolysate liquid and yield performance of groundnut	November 2018	Janata Agro products, Kota	1,00,300

## 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		33	5	
02	Research projects				
03	Training programmes				
			2	2	
04	Demonstrations				
			1	1	
05	Extension Programmes				
	Kisan Mela		2		
	Technology Week		-		
	Exposure visit		23		
	Exhibition		2		
	Soil health camps		2		
	Animal Health Campaigns				
	Others (Pl. specify)				
06	Publications				
	Video Films				
	Books				
	Extension Literature		2		
	Pamphlets		1		
	Others (Pl. specify)				
07	Other Activities (Pl. specify)				
	Watershed approach				
	Integrated Farm Development				
	Agripreneurs 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**

Month	Message type (Text/Voice)	SMS/voice calls sent (No.)						Total SMS/Voice calls sent (No.)	Farmers benefitted (No.)
		Crop	Livestock	Weather	Marketing	Awareness	Other enterprises		
April 2018	Text messages	-	-	-	-	-	-	-	-
May		-	-	-	-	-	-	-	-
June		Udupi Mallige Paddy	-	-	-	-	-	2	3083
July		Arecanut Paddy Coconut Jasmine	-	-	-	-	-	4	3083
August		Jasmine Arecanut	-	-	-	-	-	4	3108

September		Paddy Black pepper	-	-	-	-	-	3	3109
October		Arecanut, coconut, paddy	-	-	-	-	-	4	3109
November		Paddy Blackgram Brinjal	-	-	-	-	-	3	3111
December		Blackgram Paddy	-	-	-	-	-	3	3111
January 2019		Vegetables	-	-	-	-	-	3	3148
February		Arecanut	-	-	-	-	-	2	3469
March		Paddy Cashew	-	-	-	-	-	3	3469
<b>Total</b>								<b>31</b>	

**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	
1	Paddy plot	2002	0.8	MO-21	Bulk paddy	5.63 Q	7500	9008	-
2	Lady's finger	2017-18	0.42	White velvet	Seeds	41.148 kgs	29000	49378	-
3	Poly house(Nursery)		0.10	Pepper	Cuttings	10000 Nos	70000	100000	
4	Poly house under NHM	2014-15	0.10	Pepper (P-1, P-5,P-7 IISR Shakthi, Srikara	Seedlings	5000 Nos	30000	48630	-
				Arecanut(Mohit Nagar, Mangala, Swarnamangala )	Seedlings	11000 Nos	132000	200000	-





**PART XV - FINANCIAL PERFORMANCE****15A. 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	-	-	-	-	-	-	-
With KVK	Canara Bank	Varamballi, Brahmavar	0466	S.B. Account	0466101172871 0466101173629		CNRB 0000466

**15B. Utilization of KVK funds during the year 2018-2019(Rs. in lakh)**

Sl.No.	Particulars	Sanctioned	Released	Expenditure
<b>21.1</b>	<b>(A). REVENUE (Recurring Contingencies)</b>			
21.1.1	<b>Pay &amp; Allowances</b>	84,20,000	86.67	86,67,000
21.1.2	<b>Traveling allowances</b>	1,50,000	0.75	-16,164
21.1.3	<b>Contingencies</b>	11,62,000	9.30	7,90,310
21.1.3.a	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter	2,25,000	0.92	88,877
21.1.3.b	POL, repair of vehicles, tractor and equipments	1,75,000	1.50	1,47,511
21.1.3.c	Food/refreshment for farmers/extension personnel @ Rs.150/person/day	1,00,000	0.60	54,373
21.1.3.d	Training material (need based materials and equipments for conducting the training)	50,000	0.20	19,963
21.1.3.e	Frontline demonstrations	3,54,000	3.40	2,88,782
21.1.3.f	On farm testing (OFTs)/Technology Assessment	72,000	0.72	57,630
21.1.3.g	Integrated Farming System (IFS) (Min. 5 Units)	0	0	
21.1.3.h	Training of extension functionaries	15,000	0	0
21.1.3.i	Extension activities/services	50000	0.47	35,462
21.1.3.j	Farmers' Field School	30,000	0.22	21,684
21.1.3.k	EDP (2 Nos.) / Innovative activities	7,000	0.07	0
21.1.3.l	Soil & water testing & issue of soil health cards	25,000	0.15	4,767
21.1.3.m	Maintenance of building	50,000	1.0	99,089
21.1.3.n	Farmers Conclave, KVK Conference			
21.1.3.o	Video production			
21.1.3.p	Library (Purchase of Journals, Periodicals, News Papers& Magazines)	9,000	0.05	4,500
	<b>Total Recurring</b>	<b>97,32,000</b>	<b>96.72</b>	<b>94,73,474</b>
<b>21.2</b>	<b>(B). CAPITAL (Non-Recurring Contingencies)</b>			
21.2.1	<b>Equipments&amp; Furniture</b>			

Sl.No.	Particulars	Sanctioned	Released	Expenditure
21.2.2	<b>Works</b>			
21.2.3	<b>Vehicle</b>			
21.2.3 a	Four wheeler (replacement)			
21.2.4	<b>Library</b>			
	<b>Total Non Recurring</b>			
<b>21.3</b>	<b>(C). REVOLVING FUND</b>			
	<b>GRAND TOTAL (A+B+C)</b>	97,32,000	96.72	94,73,474

**15C. Status of revolving fund (Rs. in lakh) for the last three years**

Year	Opening balance as on 1 <sup>st</sup> April	Income during the year	Expenditure during the year	Net balance in hand as on 1 <sup>st</sup> April of each year
April 2016 to March 2017	300255	769970	359954	710271
April 2017 to March 2018	710271	916822	732756	894337
April 2018 to March 2019	894337	586328	663236	817429

**16. Details of HRD activities attended by KVK staff**

Name of the staff	Designation	Title of the training programme	Institute where attended	Dates
Dr. N.E.Naveen	Scientist (Agronomy)	Recent advances in statistical modeling and forecasting agricultural data analysis	ICAR-IASRI New Delhi	23 <sup>rd</sup> Feb to 15 <sup>th</sup> March 2019
Mr Chaitanya H.S.	Scientist (Horticulture)	Skill India Trainers training programme (Platform and Domain)	UAS, GKVK	23.09.2018 to 25.09.2018