# KRISHI VIGYAN KENDRA, UDUPI DISTRICT

# **ANNUAL REPORT**

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

### **PART I - GENERALINFORMATION 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	Office:	Fax: 0820-	email- <u>kvk.Udupi@icar.gov.in</u>	www.kvkudupi.in
Zonal Agricultural &	0820-	2561011	kvkudupi@gmail.com	
Horticultural Research Station	2563923		<u>udupikvk@gmail.com</u>	
Brahmavar			kvkudupiicar@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		
University of	Ph: 08182267001	08182298008	vcuahss2014@gmail.com	http://www.uahs.in
Agricultural and				
Horticultural Sciences				

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

Name	Т	elephone / Contact	
	Residence	Mobile	Email
Dr. Dhananjaya B	9448950250	9480838202	kvkudupi@gmail.com udupikvk@gmail.com

### 1.4. Year of sanction:2001

### 1.5. Staff position as on 31 March 2019

Sl. No.	Sanctioned post	Name of the				Highest			Date of		Category
		incumbent	Designation	M/ F	Discipline	Qualification (for PC, SMS and Prog. Asstt.)	Pay Scale	Basic pay	joining KVK	Permanent /Temporary	(SC/ST/ OBC/ Others)
	Head/Senior Scientist	Dr. Dhananjaya B.	Senior Scientist & Head	М	Agril. Extn.	Ph.D	37400- 67000	49950+ 10000	09.07.15	Permanent	ST
2	Scientist/SMS	Mr. Chaitanya H.S.	Scientist	М	Horticulture	M. Sc	15600- 39100	19810+ 6000	01.10.12	Permanent	General
3	Scientist/SMS	Dr. R. Jayaprakash	Scientist	М	Soil Science	Ph.D	15600- 39100	19810+ 6000	03.10.12	Permanent	SC
4	Scientist/SMS	Dr. N.E. Naveen	Scientist	М	Agronomy	Ph. D	15600- 39100	19050+ 6000	01.10.13	Permanent	IIIB
5	Scientist/SMS	Mr Srinivas H. Hulkoti	Scientist	М	Animal Science	MF. Sc	15600- 39100	19050+ 6000	23.11.13	Permanent	ST
6	Scientist/SMS	Vacant			Plant Protection						
7	Scientist/SMS	Vacant			Home Science						
	Programme Assistant( Lab Tech.)	Vacant									
	Programme Assistant (Computer)	Mrs Shailaja	Programme Assistant (Computer)	F		MBA	9300- 34800	13480+ 4600	24.01.11	Permanent	III B
	Programme Assistant/ Farm Manager	Mrs S.M. Vidyashree	Farm Manager	F		M.Tech (Agril. Engineering)	9300- 34800	12950+ 4600	09.07.11	Permanent	SC
	Assistant	Vacant									
	Jr. Stenographer	Vacant									
13	Driver - 1	Mr Shivaprasad B	Driver (Jeep)	М			30350- 58250	30350	28.03.12	Permanent	SC
14	Driver - 2	Mr Veeresh	Driver (Tractor)	М			27650- 52650	30350	19.11.08	Permanent	IIA
15	SS-1	Mr Razak H Walikar	Assistant Cook- cum-caretaker	М			18600- 32600	30350	23.10.08	Permanent	II A
16	SS-2	Vacant									

## 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

		Source of			Stage	e		
S.	Name of building	funding		Complete			Incomple	ete
No.	Name of building		Completion	Plinth area	Expenditure (Rs.)	Starting Date	Plinth area	Status of
			Date	(Sq.m)		Starting Date	(Sq.m)	construction
1.	Administrative	ICAR	10.10.2012	550	8500000			
	Building							
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.
		status	

#### 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

	Rainfall	Tempe	erature <sup>0</sup> C	Relative	Relative	Cloud	SS	Wind
Month	(mm)	Maximum	Minimum	<ul><li>Humidity</li><li>(%) I</li></ul>	Humidity (%) II	Cover	hours	Speed
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
Mean/Total	3682.6	113	32.1	20.7	89.4	70.2	3.5	6.0

\* 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
Cattle	· · · ·		· · · · · · · · · · · · · · · · · · ·
Crossbred	77344		
Indigenous	238393		
Buffalo	26610		
Sheep			
Crossbred			
Indigenous	59		
Goats	2732		
Pigs			
Crossbred	314		
Indigenous	776		
Rabbits	186		
Poultry	589412		
Hens			
Desi			
Improved			
Ducks			
Turkey and others			

Category	Area	Production	Productivity
Fish			
Marine		98550	
Inland		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

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	Mandarthi	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	Mandarthi	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

S. No	Thrust area
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)

J.M. Target	A. Target and Achievements of mandatory activities										
	(	<b>)FT</b>			FLD						
		1			2						
	OFTs (No.)	Fa	rmers (No.)	F	FLDs (No.) Farmers (No.)						
Target Achievement Target			Achievement	Target	Achievement	Target	Achievement				
5 5 26			26	16	14	126	116				

#### 3.A. Target and Achievements of mandatory activities

	Tr	aining			Extension Programmes				
		3			4				
Co	Courses (No.) Participants (No.)				grammes (No.)	Part	ticipants (No.)		
Target	Target Achievement		Achievement	Target	Achievement	Target	Achievement		
69     49     2183     1964				22	24	13171	14183		

Seed Pro	duction (Q)	Planting ma	terial (Nos.)
	5		6
Target	Achievement	Target	Achievement
5.0	4.11	52500	10271

Livestock, poultry str	ains and fingerlings (No.)	Bio-products (Kg)				
	7		8			
Target	Achievement	Target	Achievement			
7000	2755	-	-			

	<b>5.61.</b> Adstract (							Interv	ventions					
S. No	Thrust area	Crop/ Enterprise	Identified Problem	Title of OFT if any	Title of FLD if any	Numb er of Traini ng (farme rs)	Numb er of Traini ng (Youths)	Number of Training (extensi on personn el)	Extensi on activities (No.)	Supply of seeds (Qtl.)	Supply of planting materials (No.)	Suppl y of livest ock (No.)	Supp bio pro	
1	Varietal Evaluation	Red Kernel Rice	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	-	1	-	-	2	MO-21 Seeds – 8 kg/demo, MO-22 – 10 kg/demo			No.	Kg
2	Integrated Nutrient Management	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 in paddy	-	1	-	-	-	-	-	-	-	-

					Interventions									
S. No	Thrust area	Crop/ Enterprise	Identified Problem	Title of OFT if any	Title of FLD if any	Numb er of Traini ng (farme rs)	Numb er of Traini ng (Youths)	Number of Training (extensi on personn el)	Extensi on activities (No.)	Supply of seeds (Qtl.)	Supply of planting materials (No.)	Suppl y of livest ock (No.)	Suppl bio pro	
3.	Integrated Crop Management	Udupi Jasmine	Low yield during off 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,		Introductio n of DSR method of Paddy	2	-	-	2	-	-	-	-	-

					Interventions									
S. No	Thrust area	Crop/ Enterprise	Identified Problem	Title of OFT if any	Title of FLD if any	Numb er of Traini ng (farme rs)	Numb er of Traini ng (Youths)	Number of Training (extensi on personn el)	Extensi on activities (No.)	Supply of seeds (Qtl.)	Supply of planting materials (No.)	Suppl y of livest ock (No.)	Supp bio pro	
			Erratic Rainfall, Weed problem, Low yield due to local varieties		cultivation in coastal region									
7	Variety introduction	Sesamum	Low yield due to local varieties, Pest incidence, selection of suitable variety in paddy fallows, Nutrient management		Introductio n of high yielding GT-1 white seeded Sesamum variety in paddy fallows	2	-	-	-	Sesamum GT-1 – 1.5 kg/demo				
8	Variety introduction	Groundnut	TMV2 (Out of seed chain), Immature pods, Short to Medium duration, Pest and Disease, Alternate Variety for TMV-2		Popularizati on of groundnut variety G- 2-52 in paddy fallows	2	-	-	1	Groundnut var. G2-52 – 36 kg/demo				
9	Problematic soil	Paddy	Iron toxicity, Soil acidity,		Soil acidity managemen	1	-	-	-	-	-	-	-	-

					Interventions   Number									
S. No	Thrust area	Crop/ Enterprise	Identified Problem	Title of OFT if any	Title of FLD if any	Numb er of Traini ng (farme rs)	Numb er of Traini ng (Youths)	Number of Training (extensi on personn el)	Extensi on activities (No.)	Supply of seeds (Qtl.)	Supply of planting materials (No.)	Suppl y of livest ock (No.)	Suppl bio pro	
	management		Leaching of nutrients resulted in secondary nutrients deficiency, Low fertilizer use efficiency, Low yield		t in paddy									
10	Integrated Nutrient Management	Cashew	Poor canopy growth and low yield due to lack of nutrition		Integrated nutrient managemen t in Cashew	2	-	-	-	-	-	-	-	-
11	Integrated Nutrient Management	Cucumber	Lack knowledge on micronutrients application, Acid soils, Leaching of nutrients resulted secondary nutrients and micronutrient deficiency, Low fertilizer use efficiency of applied		Integrated nutrient managemen t in Cucumber	1	-	-	-	-	-	-	-	-

								Interv	ventions					
S. No	Thrust area	Crop/ Enterprise	Identified Problem	Title of OFT if any	Title of FLD if any	Numb er of Traini ng (farme rs)	Numb er of Traini ng (Youths)	Number of Training (extensi on personn el)	Extensi on activities (No.)	Supply of seeds (Qtl.)	Supply of planting materials (No.)	Suppl y of livest ock (No.)	Suppl bio pro	
			fertilizers, Low yield											
12	Integrated Crop Management	Black pepper	Foot rot disease, Slow wilt and Mealy bug infestation		Integrated crop managemen t in black pepper	1	-	-	4	-	Pepper grafts – 350		AMC 50 kg, Arka Actin oplus - 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 managemen t 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	

								Interv	entions					
S. No	Thrust area	Crop/ Enterprise	Identified Problem	Title of OFT if any	Title of FLD if any	Numb er of Traini ng (farme rs)	Numb er of Traini ng (Youths)	Number of Training (extensi on personn el)	Extensi on activities (No.)	Supply of seeds (Qtl.)	Supply of planting materials (No.)	Suppl y of livest ock (No.)	Suppl bio pro	
			pathogens, Poor fruit set due to micro nutrient deficiency, Low nutrient use efficiency, Low yield											
15	Integrated Pest Management	Arecanut	Due to the infestation of root grubs in areca nut 50 to 60 % orchards were failed to produce nuts in Udupi Dist being an important commercial earning crop		Manageme nt of Arecanut root grub through IPM practices	1	-	-	_	-	-	-	-	-
16	Integrated pest and disease management	Watermelon	WBNV, Severity of fruit fly, Fusarium wilt, Low yield		IPDM in watermelon	1	-	-	-	-	-	-	-	-
17	Production and management	Fish	Low growth and early maturity in Common carp		Culture of Amur Common carp in	1	-	-	-	-	-	-	-	-

					Interventions									
S. No	Thrust area	Crop/ Enterprise	Identified Problem	Title of OFT if any	Title of FLD if any	Numb er of Traini ng (farme rs)	Numb er of Traini ng (Youths)	Number of Training (extensi on personn el)	Extensi on activities (No.)	Supply of seeds (Qtl.)	Supply of planting materials (No.)	Suppl y of livest ock (No.)	Suppl bio pro	
			variety		Polyculture system									
18	Production and management	Fish	Higher stocking densities with un scientific management resulting in poor growth rate and survival		Production and management of carps in farm ponds	1	-	-	-	-	-	-	-	-
19	Production and management	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		Demonstrat ion of fodder bank	1	-	-	-	-	-	-	-	-

S.No	Title of Technology	Source of	Cuontonnico			No.of prog	rammes conducted
5.110	The of Technology	technology	Crop/enterprise	OFT	FLD	Training	Others (Specify)
1	2	3	4	5	6	7	8
1	Assessment of Red Kernel Rice	UAS, Bangalore,	Red Kernel Rice	1	-	1	Field visit, Group discussion meetings,
	Variety PRATYASA (MO-21&	KAU, Thrissur					Method demonstration, Training
	MO-22) for Rabi Season						programmes
2	Integrated Nutrient management in	UAHS,	Paddy	1	-	1	Field visit, Group discussion meetings,
	paddy	Shivamogga,					Method demonstration, Training
		KAU, Kerala					programmes
3	Assessment of Pruning time in	TNAU,	Udupi Jasmine	1	-	1	Field visit, Group discussion meetings,
	Udupi Jasmine	Coimbatore,					Method demonstration, Training
		IIHR, Bengaluru,					programmes
		UHS, Bagalkot					
4	Fall (Off Season) Management in	UAHS,	Beekeeping	1	-	1	Field visit, Group discussion meetings,
	Bee Keeping	Shivamogga,					Method demonstration, Training
		TNAU,					programmes
		Coimbatore					
5	Evaluate the growth performance of	CIFA,	Fish	1	-	1	Field visit, Group discussion meetings,
	All Male Tilapia in coastal farm	Bhuvaneshwara					Method demonstration, Training
	ponds	And UAS,					programmes
		Bangalore					
6	Introduction of DSR method of	UAS(R)-2013	Paddy	-	1	2	Field visit, Group discussion meetings,

3.B2. Details of technology used during reporting period

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	Cuonlantounuisa			No.of prog	rammes conducted
3.INU	Title of Technology	technology	Crop/enterprise	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

	No. of farmers covered														
OFT FLD								Training Others (Specify)							
General	General SC/ST General				SC/ST	GT General SC/ST			SC/ST	General		SC/ST			
Μ	F	М	F	Μ	F	М	F	Μ	F	Μ	F	Μ	F	М	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	-		-	-

### PART IV - On Farm Trial (2018-19)

#### 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									1
Varietal Evaluation	1									1
Integrated Pest Management										
Integrated Crop Management							1			1
Integrated Disease Management										
Small Scale Income Generation Enterprises				1						1
Weed Management										
Resource Conservation Technology										
Farm Machineries										
Integrated Farming System										
Seed / Plant production										
Value addition										
Drudgery Reduction										
Storage Technique										
Mushroom cultivation										
Total	2			1			1			4

#### 4.A2. Abstract on the number of technologies refined in respect of crops - Nil-

Thematic areas	Cereals	Oilseeds	Dulcas	Commercial	Vegetables	Fruits	Flower	Plantation	Tuber	TOTAL
Thematic areas	Celeals	Oliseeus	r uises	Crops	vegetables	Fruits	riowei	crops	Crops	IUIAL
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										

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										
Total										

### 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						
TOTAL					1	1

#### 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						
TOTAL						

## 4.B. Achievements on technologies Assessed and Refined 4.B.1. Technologies Assessed under various Crops

Thematic areas	Сгор	Name of the technology assessed	No. of trials	Number of farmers	Area in ha (Per trial covering all the Technologic al 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	Beekeepi ng	Fall (Off Season) Management in Bee Keeping	5	5	2
Weed Management					
Resource Conservation Technology					
Farm Machineries					
Integrated Farming System					

Thematic areas	Crop	Name of the technology assessed	of farmers	Area in ha (Per trial covering all the Technologic al Options)
Seed / Plant production				• /
Value addition				
Drudgery Reduction				
Storage Technique				
Mushroom cultivation				
Total				

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

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					
Varietal Evaluation					
Integrated Pest Management					
Integrated Crop Management					
Integrated Disease Management					

Thematic areas	Сгор	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					
Total					

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

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials	No. of farmers
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				
Total			6	6

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

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

## 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	Assessment of Red Kernel Rice Variety PRATYASA	5	T.O.1: Use of Local varieties 1- Kaje Jaya, etc	(Farmers practice)	3643	Kg/ha	-	29140	1.99	
		Rabi season, Locals Preference for	(MO-21& MO-22) for Rabi Season		T.O.2: Use of recommended varieties for Rabi Season Jyothi	UAS, Bangalore	3714	Kg/ha	-	30276	2.03	
		Parboiled Red Kernel Rice, Available Varieties are old.			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	

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	Maintenance of purity
	received	

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

## 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	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	
		nutrients resulted in secondary nutrients deficiency,			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	
		Imbalanced use of recommended dose of fertilizers, Low yield.			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	

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	Recommended dose of fertilizers and split application of straight fertilizers
	received	will increase the yield

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

# 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%	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	UHS, Bagalkot	0.2992	t/ha	-	255482	4.28	
					NPK g/plant in six splits							

## 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	Fall (Off Season) Management	5	T.O.1: Unscientific methods	(Farmers practice)	5.8	Kg	Bees were more arrogant	3700	1:3.7	
		weaken, susceptible to pests and disease, no honey	in Bee Keeping		T.O.2: Providing sugar/honey solution in1:1 proportion	UAHS, Shivamogga	9.5	Kg	No arrogance	4650	1:5.23	
		production and absconding of Bee colonies			T.O.3: Providing sugar/honey solution in1:2 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	Thaisac brood was observed almost all the treatments this needs to be
	received	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	6	T.O.1: Culture of Common Carp in Monoculture system T.O.2: Rearing of All Male Tilapia in Monoculture system T.O.3: Rearing of All Male Tilapia in Polyculture system along with Grass carp and Common carp	Farmers practice CIFA, Bhuvaneshwara UAS, Bangalore				et harvested		

# 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

# PART V - FRONTLINE DEMONSTRATIONS (2018-19)

# 5.A. Summary of FLDs implemented

Sl. No.CategoryFarming SituationSeasonCropVariety/ breedHybr idThematic areaTechnology Demonstrated1.Oilsee ds1.Oilsee ds1.Oilsee dsVariety introducti on1.Oilsee dsVariety introducti on1.Oilsee dsVariety introducti on	Propos ed 4	Actual 4	SC/ ST	No.) Othe rs 10	Small/ Margi nal	Others
dsdsImage: second	4	4	-	10	10	
fallow introducti high yielding on GT-1 white	4	4	-	10	10	•
Sesamum variety					10	-
Rice fallowRabiGround nutG2-52-Variety introducti onGroundnut 2-52Groundnut variety popularization	4	4	-	10	10	-
2. Pulses						
3. Cereals						
RainfedKha rifPaddyMO-4-ResourceIntroduction of DSR method of ionPaddyrifPaddyFPaddyPaddyImage: Construction of the second sec	4	4	-	10	10	-
RainfedKha rifPaddyMO-4-Problema ticSoil test based lime applicationImanagem entImanagem entImanagem entImanagem entImanagem ent	4	4	-	10	10	-
4. Millets						<u> </u>

CI		Eaurina			Variated	Herber	Thomatio	Tashralary	Area	(ha)		mers No.)	Farme	ers (No.)
Sl. No.	Category	Farming Situation	Season	Сгор	Variety/ breed	Hybr id	Thematic area	Technology Demonstrated	Propos ed	Actual	SC/ ST	Othe rs	Small/ Margi nal	Others
5.	Vegetabl es													
		Rainfed	Rabi	Cucumb er	Local		Integrated Nutrient Managem ent	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	Mattigu lla		Integrated Crop Managem ent	Raising of nursery seedlings in portrays INM: FYM 25t/ha+75% RDF NPK Kg/ha+ Arka Microbial Consortium 12.5 Kg/ha	0.8	0.8	-	10	10	_

SI.		Forming			Variatul	Hubu	Thematic	Tashnalagy	Area	(ha)		mers No.)	Farme	ers (No.)
51. No.	Category	Farming Situation	Season	Сгор	Variety/ breed	Hybr id	area	Technology Demonstrated	Propos ed	Actual	SC/ ST	Othe rs	Small/ Margi nal	Others
								Control of fruit and shoot borer by using Wota traps (Luci lure)						
		Irrigated	Kha rif	Ridgego urd	Arka Prasan		Integrated Crop Managem ent	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	

SI.		Eaurina			Variated	Herber	Thematic	Tashnalasy	Area	(ha)		mers No.)	Farme	ers (No.)
51. No.	Category	Farming Situation	Season	Сгор	Variety/ breed	Hybr id	area	Technology Demonstrated	Propos ed	Actual	SC/ ST	Othe rs	Small/ Margi nal	Others
								special @ 1g/L						
								Control of Fruit fly by using Fruit fly traps						
6.	Flowers													
7.	Ornamen tal													
8.	Fruit													
		Irrigated	Sum mer	Waterme lon	-	-	Integrated Pest and disease managem ent	Pest and disease management	2	2	5	-	5	-
9.	Spices and condime nts													
		Irrigated	Kha rif	Black Pepper	Panniy ur-1	-	Integrated crop managem ent	Drenching of Imidacloprid 0.3 ml per lit. during May and September Drenching of Arka Microbial Consortia and	1	1	-	10	10	-

SI.		Earming			Variety/	Uyhn	Thematic	Tashnalagy	Area	(ha)		mers No.)	Farme	ers (No.)
51. No.	Category	Farming Situation	Season	Сгор	breed	Hybr id	area	Technology Demonstrated	Propos ed	Actual	SC/ ST	Othe rs	Small/ Margi nal	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</i> <i>chlamydospori</i> <i>a</i> enriched with						
10	C							FYM						
10.	Commer cial													
11.	Medicinal and aromatic													
12.	Fodder													
		-	-	Fodder	CO 5, COFS 31 and COFC-8	-	Productio n and managem ent	Introduction of Fodder grass : CO 5, COFS 31 and COFC-8	0.8	0.8		4	4	-

SI.		<b>F</b> orm <b>i</b> ng			Variated	Herber	Thematic	Tashralasy	Area	(ha)		mers No.)	Farme	ers (No.)
No.	Category	Farming Situation	Season	Сгор	Variety/ breed	Hybr id	area	Technology Demonstrated	Propos ed	Actual	SC/ ST	Othe rs	Small/ Margi nal	Others
13.	Plantation													
		Rainfed	Rabi	Cashew	Ullal-1	_	Integrated Nutrient Managem ent	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	Kha rif	Arecanut	Mangala	-	Integrated Pest Managme nt	Collection of Adult beetle during June and July month Addition of gravel lateritic soil to the base of the palm Application of Entomopathog enic	1	1	-	5	5	-

SI.		Formin a			Variated	Harba	Themetic	Tashnalasu	Area	(ha)		mers No.)	Farme	ers (No.)
51. No.	Category	Farming Situation	Season	Сгор	Variety/ breed	Hybr id	Thematic area	Technology Demonstrated	Propos ed	Actual	SC/ ST	Othe rs	Small/ Margi nal	Others
								nemotodes 20 g/palm Chlorpyriphos 10 ml /palm For later stage grubs Spraying of Imidacloprid 17.8 SL @ 0.5 ml/lit For early stage						
14.	Fibre							grubs						
11.	11010													
15.	Dairy													
16.	Poultry													
17.	Rabbitry													
18.	Piggery													
19.	Sheep and goat													
20.	Duckery													
21.	Common													

SI.		Forming			Variated	Hubu	Thematic	Tashnalagy	Area	(ha)		mers No.)	Farme	ers (No.)
51. No.	Category	Farming Situation	Season	Сгор	Variety/ breed	Hybr id	area	Technology Demonstrated	Propos ed	Actual	SC/ ST	Othe rs	Small/ Margi nal	Others
	carps													
22.	Mussels													
23.	Ornamen tal fishes													
24.	Oyster mushroom													
25.	Button mushroom													
26.	Vermico mpost													
27.	Sericulture													
	Apiculture													
28.	Impleme nts													
29.	Others (specify)	-	-	Fish	Catla, Rohu	-	Production and managem ent	Rearing of Amur carp in polycuture system	1.2	1.2	-	3	3	-
		-	-	Fish	Catla, Rohu, Mrigal		Production and managem ent	Rearing of Catla, Rohu and Common carp in Poly culture system with stocking density 10000 per hectare	0.8	0.8	-	4	4	-

SI. No.	Category	Farming Situation	Season and Year	Сгор	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Season and	Sta	atus of	' soil	Previous crop grown
									year	Ν	Р	K	
1.	Oilseeds												
		Rice fallow	Rabi	Sesamum	GT-1	-	Variety introduction	Introduction of high yielding GT-1 white seeded Sesamum variety	Rabi	М	Н	L	Pulses
		Rice fallow	Rabi	Groundnut	G2-52	-	Variety introduction	Groundnut G- 2-52 variety popularization	Rabi	М	Н	L	Paddy
2.	Pulses												
3.	Cereals												
		Rainfed	Kharif	Paddy	MO-4	-	Resource conservation technologies	Introduction of DSR method of Paddy cultivation	Kharif	М	Н	L	Leafy vegetabl es
		Rainfed	Kharif	Paddy	MO-4	-	Problematic soil management	Soil test based lime application	Kharif	L	М	L	Blackgra m
4.	Millets												
5.	Vegetables												
	, 05000105	Rainfed	Rabi	Cucumber	Local		Integrated	Ealian annou of	Rabi	М	Н	L	Paddy
		Kalliteu	Kadi	Cucumber			Integrated Nutrient Management	Foliar spray of Vegetable Special @ 0.1 % after 30 days after	Kaol	1 <b>V1</b>	п		raddy

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

Sl. No.	Category	Farming Situation	Season and Year	Сгор	Variety/ breed	Hybrid	Integrated Crop Management	Technology Demonstrated	Season and	Sta	itus of		Previous crop grown
									year	Ν	P	K	
								sowing. Subsequent sprays at 10-15 days of interval to cucumber along with Recommended dose of fertilizers and					
		Irrigat ed	Rabi	Brinjal	Mattigul la		Crop	INM practicesRaising ofnurseryseedlings inportraysINM: FYM25t/ha+75%RDF NPKKg/ha+ ArkaMicrobialConsortium12.5 Kg/haControl of fruitand shootborer by usingWota traps	Rabi	M	H	L	Paddy
		Irrigat ed	Kharif	Ridge gourd	Arka Prasan		Integrated Crop	(Luci lure) Introduction of new high	Kharif	M	H	L	Paddy

SI. No.	Category	Farming Situation	Season and Year	Сгор	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Season and	Sta	atus of	f soil	Previous crop grown
									year	Ν	Р	K	
6.	Flowers												
7.	Ornamental												
8.	Fruit												
		Irrigat ed	Sum mer	Watermel on	-	-	Integrated Pest and disease management	Pest and disease management	Sum mer	M	Н	L	Vegetabl es
9.	Spices and condiments	Irrigat ed	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)	Kharif	М	Η	L	Black Pepper
								Spraying of					

SI. No.	Category	Farming Situation	Season and Year	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Season and	Sta	itus of	soil	Previous crop grown
									year	Ν	Р	K	
								Potassium Phosphonate 3ml per lit.during June and September					
								Soil application of <i>Pachonia</i> <i>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	-	М	Н	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	Сгор	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Season and	Sta	atus of	f soil	Previous crop grown
									year	Ν	Р	K	
		Rainfed	Kharif	Arecanut	Mangala	-	Integrated Pest Managment	500:250:250gram/plantwith 25 kgFYM perplant. Openingof trenches inbetween plantsof dimension1.5 x 2x10(feet) toconserve themoistureCollection ofAdult beetleduring JuneandJuly monthAddition ofgravel lateriticsoil to the baseof the palmApplication ofEntomopathogenicnemotodes 20g /palmChlorpyriphos	Khar if	M	L	L	Arecanut
								Chlorpyriphos 10 ml /palm					

SI. No.	Category	Farming Situation	Season and Year	Сгор	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Season and	Sta	atus of	soil	Previous crop grown
									year	Ν	Р	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 polycuture 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

5.B.I. C	Name of the technology	Variety	Hybrid	Farming situation	No. of	Area		Yield	(q/ha)	1	%			onstration (	,		Economics* (Rs./l	ha)	
Стор	demonstrated	varicty	ilybrid		Demo.	(ha)		Demo		Check	Increase	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
							Н	L	Α										
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																			<u> </u>
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

Cara	Name of the	Variata	Habad	Farming situation	No. of	Area		Yield	(q/ha)		%	*Econon	nics of dem	onstration (	Rs./ha)		*Economics (Rs./l	1a)	
Сгор	technology demonstrated	Variety	Hybrid		Demo.	(ha)		Demo		Check	Increase	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
							Н	L	Α										
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		L			•	On g	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	popper																		
																			++
Fibre crops																			
like cotton																			
Medicinal																			<u> </u>
and aromatic																			
Fodder																			
Fodder	Demonstration of fodder bank	CO 5, COFS 31 and COFC-8	-	-	4	0.8						Crop no	ot yet harv	vested					<u> </u>
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

Cron	Name of the	Variety	Hubrid	Farming situation	No. of	Area		Yield	(q/ha)		%	*Econon	nics of demo	onstration (l	Rs./ha)		Economics* (Rs./ł		
Сгор	technology demonstrated	variety	Hybrid		Demo.	(ha)		Demo		Check	Increase	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
							Н	H L A											
Fibre								H L A											
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 – Highest Yield, L – Lowest Yield A – Average Yield

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

	Data on other parameters in relatio	n to technology demonstrated
Parameter with unit	Demo	Check

### 5.B.2. Livestock and related enterprises – Nil-

Type of	Name of the technology		No. of	No.		Yiel	d (kg	g/animal)	%	*Ec		f demonstrat /unit)	tion			ics of check ./unit)	
livestock	demonstrated	Breed	Demo	of Units	I	Demo	0	Check if any	Increase	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					Η	L	Α	-									
Dairy																	
Poultry																	
Rabbitry																	
Pigerry																	
Sheep and goat																	

Duckery									
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

#### 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	n to technology demonstrated
Parameter with unit	Demo	Check if any

#### 5.B.3. Fisheries

	Name of the technology	D 1	No. of	Units/		Yi	eld (	q/ha)	%	*Econo		nonstration R (s./m2)	.s./unit)			cs of check or (Rs./m2)	
Type of Breed	demonstrated	Breed	Demo	Area (m <sup>2</sup> )	I	Demo	)	Check if any	Increase	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					Н	L	А	any		COSt	Return	Return	DCK	Cost	Return	Retuin	DCK
Common																	
carps																	
Mussels																	
Ornamental																	
fishes																	
Others																	
(pl.specify)																	
Fishery	Culture of Amur Common carp in Polyculture system	-	3	1.2						I	Crop not y	et harvested	I	1	I	I	1
	Production and management of carps in farm ponds	-	4	0.8							Crop not y	et harvested					

\* 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., reduction of percentage diseases, effective use of land etc.)

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

### 5.B.4. Other enterprises – Nil-

Entomico	terprise technology Variety/ No. of		Units/	a			%			demonstration (Rs./m2)		*Economics of check (Rs./unit) or (Rs./m2)					
Enterprise	demonstrated	species	Demo	Area $\{m^2\}$	Demo		Check if any	Increase	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR	
					Η	L	А										
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	on to technology demonstrated
Parameter with unit	Demo	Local

### 5.B.5. Farm implements and machinery -Nil-

(Rs./ha)	ICCK	Economic (Rs.	*]	ration		nomics of (Rs.	*Econ	Savings in labour (Rs./ha)	%	oour ment in idays	require	Area covered under	No. of	Name of the technology demonstrated	Cost of the implement	Name of the
01055 01055 1101			Gross Cost	** BCR	Net Return	Gross Return	Gross cost		save	Check	Demo	demo in ha	Demo		in Rs.	implement
									- save	5		demo			1	

\* 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 relatio	on 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)	-	-	

## PART VI – DEMONSTRATIONS ON CROP HYBRIDS (2018-19)

Demonstration details on crop hybrids –Nil-

	Name of the technology	Name of the	No. of	Area		Yie	ld (c	q/ha)	%	*Eco	nomics of (Rs.	demonstr /ha)	ation	*]	Economic (Rs.	s of chec /ha)	k
Type of Breed	demonstrated	hybrid	Demo	(ha)	Γ	Dem	0	Check	Increase	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					Η	L	Α										
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											Ì						
Vegetable																	
crops																	

True of Durad	Name of the	Name of the	No. of	Area		Yie	ld (c	ı/ha)	%	*Eco	nomics of (Rs.	demonstr /ha)	ation	*]	Economic (Rs.	es of chec /ha)	k
Type of Breed	technology demonstrated	hybrid	Demo	(ha)	Ι	Dem	0	Check	Increase	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					Η	L	Α										ľ
Bottle gourd																	
Capsicum																	
Others																	
(pl.specify)																	
Total																	1
Cucumber																	1
Tomato																	
Brinjal																	
Okra																	++
Onion																	1
Potato																	
Field bean																	
Others																	
(pl.specify)																	l
Total																	
Commercial																	
crops																	
Sugarcane																	
Coconut																	
Others																	
(pl.specify)																	l
Total																	
Fodder crops																	
Maize					1												++
(Fodder)																	
Sorghum																	++
(Fodder)																	
Others																	++
(pl.specify)																	
Total																	<b>├</b> ──┤
IIIIah I I aw A		1	1	1	1	I			1		1						

H-High L-Low, A-Average

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

# PART VII. TRAINING (2018-19)

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

	No. of				No	o. of Particip	ants			
Area of training	Courses		General			SC/ST	r		Grand Tota	
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production										
Weed Management										
Resource Conservation Technologies										
Cropping Systems	1	33	12	45	-	-	-	33	12	45
Crop Diversification										
Integrated Farming										
Micro Irrigation/Irrigation										
Seed production										
Nursery management										
Integrated Crop Management										
Soil and Water Conservation										
Integrated Nutrient Management										
Production of organic inputs										
Others (pl.specify) Vermi compost production	1	53	17	70	-	-	-	53	17	70
Horticulture										
a) Vegetable Crops										
Production of low value and high volume crop										
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										

	No. of				N	o. of Particip	ants			
Area of training	Courses		General			SC/ST			<b>Grand Tota</b>	1
	courses	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										
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	1	44	6	50	-	-	-	44	6	50
Processing and value addition	1	34	23	57	-	-	-	34	23	57
Others (pl.specify)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
f) Spices										

	No. of	No. of Participants											
Area of training	Courses		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													
Integrated water management													
Integrated nutrient management	3	95	95	190	-	-	-	95	95	190			
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													
Others (pl.specify)													
Livestock Production and Management													
Dairy Management	1	3	37	40	1	8	9	4	45	49			
Poultry Management													
Piggery Management													
Rabbit Management													
Animal Nutrition Management													
Animal Disease Management													

	No. of	No. of No. of Participants												
Area of training	Courses		General			SC/ST		Grand Total						
	courses	Male	Female	Total	Male	Female	Total	Male	Female	Total				
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														
Gender mainstreaming through SHGs														
Storage loss minimization techniques														
Value addition														
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														

	No. of				No	o. of Particip	ants			
Area of training	Courses		General			SC/ST		Grand Total		
	courses	Male	Female	Total	Male	Female	Total	Male	Female	Total
Post Harvest Technology										
Others (pl.specify)										
Plant Protection										
Integrated Pest Management										
Integrated Disease Management	1	6	5	11	3	11	14	9	16	25
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										

	No. of				No	). of Particip	ants			
Area of training	Courses		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)										
CapacityBuilding and Group Dynamics	1	78	25	103	-	-	-	78	25	103
Leadership development										
Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
Others (pl.specify)										
Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (Pl. specify)										
TOTAL	10	346	220	566	4	19	23	350	239	589

7.B Training of Farmers and Farm Women including sponsored training programmes (Off campus)

	No. of	No. of Participants											
Area of training	Courses		General			SC/ST		Grand Total					
	Courses	Male	Female	Total	Male	Female	Total	Male	Female	Total			
Crop Production													
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			
Horticulture													
a) Vegetable Crops													
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			

	No. of	No. of Participants											
Area of training	Courses		General		SC/ST			Grand Total					
		Male	Female	Total	Male	Female	Total	Male	Female	Total			
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) Integrated crop management	1	18	19	37				18	19	37			
d) Plantation crops													
Production and Management technology													
Processing and value addition													
Others (pl.specify) Integrated Nutrient Management	2	43	6	49	20	11	31	63	17	80			
e) Tuber crops													
Production and Management technology													
Processing and value addition													
Others (pl.specify)													
f) Spices													
Production and Management technology													

	No. of				No	. of Particip	ants			
Area of training	Courses		General			SC/ST			<b>Grand Tota</b>	l
	Courses	Male	Female	Total	Male	Female	Total	Male	Female	Total
Processing and value addition										
Others (pl.specify) Integrated crop management	2	54	15	69	12	6	18	66	21	87
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	1	8	7	15	0	0	0	8	7	15
Integrated water management										
Integrated nutrient management										
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										
Others (pl.specify)										
Livestock Production and Management										
Dairy Management										
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Animal Disease Management										
Feed and Fodder technology										

	No of	No. of Participants											
Area of training	Courses		General			SC/ST		Grand Total					
	Courses	Male	Female	Total	Male	Female	Total	Male	Female	Total			
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													
Gender mainstreaming through SHGs													
Storage loss minimization techniques													
Value addition													
Women empowerment													
Location specific drudgery production													
Rural Crafts													
Women and child care													
Others (pl.specify)													
Agril. Engineering													
Farm machinery and its maintenance													
Installation and maintenance of micro irrigation systems													
Use of Plastics in farming practices													
Production of small tools and implements													
Repair and maintenance of farm machinery and implements													
Small scale processing and value addition													
Post Harvest Technology													

	No. of				No	. of Particip	ants			
Area of training	Courses		General			SC/ST		Grand Total		
	courses	Male	Female	Total	Male	Female	Total	Male	Female	Total
Others (pl.specify)										
Plant Protection										
Integrated Pest Management	2	40	17	57	4	9	13	44	26	70
Integrated Disease Management	1	12	21	33				12	21	33
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others (pl.specify) Integrated Crop Management	1	34	5	39				34	5	39
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										
Bio-agents production										

	No. of				No	o. of Particip	ants			
Area of training	Courses		General			SC/ST	-		<b>Grand Tota</b>	
		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)										
CapacityBuilding and Group Dynamics										
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)										
Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (Pl. specify)										
TOTAL	29	542	409	951	40	26	66	582	435	1017

### 7.C.Training for Rural Youths including sponsored training programmes (on campus)

	No. of				No. of	Participa	ants			
Area of training	Courses		General			SC/ST			Frand Tot	
		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										

	No. of				No. of	Participa	ants			
Area of training	Courses	(	General			SC/ST		(	Grand Tot	al
	Courses	Male	Female	Total	Male	Female	Total	Male	Female	Total
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)Friends of coconut tree	1	16	4	20	-	-	-	16	4	20
TOTAL	1	16	4	20	-	-	-	16	4	20

# 7.D. Training for Rural Youths including sponsored training programmes (off campus) – Nil-

	No. of				No. of 1	Participan	ts			
Area of training	Courses		General			SC/ST		(	Grand Tot	al
	0000505	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										

	No. of				No. of 1	Participan	ts			
Area of training	Courses		General	1		SC/ST			Grand Tot	
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Bee-keeping										<u> </u>
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										
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) – Nil-

	No. of				No. a	f Participa	ints			
Area of training	No. of Courses		General			SC/ST			Grand Tota	al
	Courses	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										
Management in farm animals										
Livestock feed and fodder production										
Household food security								1		
Any other (pl.specify)										
Total										

#### 7.F. Training programmes for Extension Personnel including sponsored training programmes (off campus) – Nil-

	No. of				No. o	of Participa	ints			
Area of training	Courses		General			SC/ST			Grand Tot	al
	Courses	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										
Management in farm animals								1		
Livestock feed and fodder production										
Household food security										
Any other (pl.specify)										
Total										

### 7.G. Sponsored training programmes conducted

	onsored training programmes conducted	No. of				No. (	of Partici	pants			
S.No.	Area of training	Courses		General			SC/ST		G	Frand Tot	al
			Male	Female	Total	Male	Female	Total	Male	Female	Total
1	Crop production and management (Integrated crop management)	4	131	62	193	-	-	-	131	62	193
1.a.	Increasing production and productivity of crops										
1.b.	Commercial production of vegetables										
2	Production and value addition										
2.a.	Fruit Plants										
2.b.	Ornamental plants										
2.c.	Spices crops (Integrated disease management)	3	51	25	76	26	7	33	77	32	109
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)										
8	Farm machinery										
8.a.	Farm machinery, tools and implements										
8.b.	Others (pl.specify)										
9.	Livestock and fisheries										
10	Livestock production and management										
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	1	18	2	20	-	-	-	18	2	20
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.		1	11	5	16				11	5	16
12.b.											
	Total	9	211	94	305	26	7	33	237	101	338

		No. of				No.	of Particip	ants			
S.No.	Area of training	Courses		General			SC/ST			<b>Grand Tota</b>	1
		Courses	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										
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)										
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										
4.g.	Mushroom cultivation										
4.h.	Nursery, grafting etc.										
4.i.	Tailoring, stitching, embroidery, dying etc.										
4.j.	Agril. para-workers, para-vet training										
4.k.	Others (pl.specify)										
5	Agricultural Extension										
5.a.	Capacity building and group dynamics										
5.b.	Others (pl.specify)										
	Grand Total										

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

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

			Date of			0		No. of	Partici	pants	C	LT	4 1	No of Particip
S. No.	Name of Job Role	Date of Start	Assessm ent	Total Expenditure (Rs.)	Male	Genera Fem ale	I Total	Male	SC/ST Fem ale	Total	Male	rand To Fem ale	tal Total	ants passed assessme nt
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	No. of Programmes	No. of F	Participants (	General)	No	o. of Participa SC / ST	ints	No.of	extension per	sonnel
Programme	C	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	45	2165	1444	3609	23	2	25	49	2	51
persons										
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	7	134	81	215	0	0	0	0	0	0
(specify)										
Any Other	18	329	100	429	3	4	7	1	1	2
(Specify)Farmer/Extension										
Personnel visit to KVK										
Total		154592	53660	208252	73	20	93	436	43	479

#### 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)						
Total				4.11	49,378	

#### 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
Total				10271	187480	1410

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

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

#### 9.D. Production of livestock

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

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

#### 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

Item	Number
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)	-
TOTAL	10

#### 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 graow 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 ouster 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.

Sl. No.	Monthly income from		Gross Income/ month (Rs.)	Net Income/ month (Rs.)	Remarks
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
	Total		48,950.00	31,800.00	

Income generated by Sri Ravi from various sources after undergoing training

- 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 /	ITK Practiced	Purpose of ITK
	Enterprise		
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	Increased the productive tillers and promoted luxuriant
		neem cake, extract of tobacco leaves, sour buttermilk,	growth in Paddy.
		fish oil along with Jeevamritha	
3.	Vegetables	Butter milk spray for vegetables	Resulted in robust growth of vegetables
4.	Watermelon	200ml Butter, 200 ml Tender Coconut water and 200	Results in robust grouth of Watermelon and it is as good
		gram jaggery diluted in 100 liter of water	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	establishment of cowpea.
		compost to cowpea	
6.	Cowpea	Application of well decomposed areca husk compost in	Supplements potash to cowpea.
		rotation with gobar gas slurry.	
7.	Cowpea	Application of coconut	Boosts the crop growth and acts as a potash supplement
		coir pith and rice hull	
		compost for cowpea	
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	Increased flowering and yield
		Azzola with 1 Kg Jaggery at the rate of 1 ml of extract in	
		1 liter of water to jasmine.	
10.	Paddy	Spraying Jeevamritha : A week old filtered fermented	Acted as a nutrient supplement to the crop in paddy
		preparation consisting of Bengal gram (Cicer arietinum)	
		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	
11.	Paddy	Spraying Paddy with a week old fermented decoction of	Increased the productive tillers and promoted luxuriant
		neem cake, extract of tobacco leaves, sour buttermilk,	growth in Paddy with less incidence Pest and Diseases .
		fish oil and Jeevamrita	
12.	Vegetables	Butter milk spray	Resulted in robust growth of vegetables
		for vegetables	
13.	Jasmine	Nipping water shoots	Resulted in profused flowering
		in jasmine	
14.	Jasmine	Spray of 42 days old fermented butter milk stored in	Reduced pests and diseases in Jasmine and it also helped
		copper container at 10 days interval @ a 1ilre in 10 liter	to overcome the micro nutrient deficiencies
		of water to jasmine.	
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 /	ITK Practiced	Purpose of ITK
	Enterprise		
		with organic manure	rebuilding soil fertility after heavy rains
17.	Jasmine	Bio digester spraying/ drenching the crop jasmine in the	Acts as a pesticide and micro nutrient supplement.
		proportion 1 liter in 3 liter of water	
18.	Areca nut	Application of	Reduces button shedding in coconut and also acts as a
		salt granules	substitute to potash and repulses the insects
		for coconut	

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

Types of Activities	No. of	Number of	Related crop/livestock technology
	Activities	Farmers	
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	6	1257	1. Scientific cultivation practices in high yielding cashew, cocoa, pepper and other	
technology week			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

Year of establishment 1.

2 Lis		-Nil-		
Sl. No	Name of the Equipment	Qty.	Cost	Status

: 2002

#### 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)			
Total	4769	4146	2712

#### 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)				
Total	433	433	433	

#### **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		-	-	-	-
<b>Testing Kit</b>					

#### 11.4 World Soil Health Day celebration

Sl. No.	Farmers	Soil health cards	VIPs (MP/	Other Public	Officials	Media coverage
	participated (No.)	issued (No.)	Minister/MLA	Representatives	participated (No.)	(No.)
1	320	30	attended (No.) 5	participated 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	% of adoption	Change in inco	ome (Rs.)
	participants		Before	After
			(Rs./Unit)	(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

Name of organization	Nature of linkage					
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

#### Name of the scheme Date/ Month of initiation Funding agency Amount (Rs.) MANAGE, Hyderabad & 28.05.2018 to 02.06.2018 Nursery management techniques of Rural youth 42,000 SAMETI South, Bengaluru 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 18.02.2019 to 15.03.2019 Dairy Farmer Entrepreneur ASCI 1,89,600 Linking KVK to FPO for technical support under October 2018 Dept of Horticulture 3,09,750 comprehensive horticulture development scheme (CHD) Establish on demonstrate crop technology and IFS November-December-**GOK Grants** 3,80,000 demonstration units through participatory mode 2018 Demonstration of soil acidity management in coastal acid September 2018 to March **GOK Grants** 3,00,000 soils 2019 Demonstration on drought tolerant Groundnut variety for 28.11.2018 **GOK Grants** 4,00,000 coastal district Improving livelihood and enhancing family income of Sept 2018 to March 2019 farmer through horticulture intervention under IIHR, Bangalore 6,30,000 Bhoosamrudhi Project 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 October 2018 on Coconut fronds for compost and vermi compost **GOK** Grants 3,00,000 production Precision management of Salvenia Molesta through October 2018 Commissioner of Agriculture, integrated approach in Udupi District of Coastal 5,50,000 Govt. of Karnataka Karnataka Evaluation of fish protein hydrolysate-powder (FPH January 2019 Janata Agro products, Kota 1,29,800 Powder) for growth and yield performance of cashew Evaluation of fish protein hydrolysate liquid and yield November 2018 Janata Agro products, Kota 1,00,300 performance of groundnut

#### 13B. List of special programmes undertaken by the KVK and operational now, which have been financed by State Govt./Other Agencies

#### 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	<b>Extension Programmes</b>				
	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				
	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

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

September	P	Paddy	-	-	-	-	-	3	3109
	E	Black							
	р	epper							
October	A	Arecanut,	-	-	-	-	-	4	3109
	с	oconut,							
		oaddy							
November	P	addy	-	-	-	-	-	3	3111
		Blackgram							
	E	Brinjal							
December	E	Blackgram	-	-	-	-	-	3	3111
	Р	Paddy							
January	V	/egetables	-	-	-	-	-	3	3148
2019									
February	A	Arecanut	-	-	-	-	-	2	3469
March	Р	Paddy	-	-	-	-	-	3	3469
	C	Cashew							
Total								31	

### PART XIV- PERFORMANCE OF INFRASTRUCTURE IN KVK

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

		Year of	Area (ha)	Details	of production		Amou	int (Rs.)	
Sl. No.	Demo Unit	establishment		Variety	Produce	Qty.	Cost of inputs	Gross income	Remarks
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	29000	49378	-
						kgs			
3	Poly		0.10	Pepper	Cuttings	10000	70000	100000	
	house(Nursery)					Nos			
4	Poly house	2014-15	0.10	Pepper (P-1, P-5, P-7	Seedlings	5000	30000	48630	-
	under NHM			IISR Shakthi, Srikara		Nos			
				Arecanut(Mohit	Seedlings	11000	132000	200000	-
				Nagar, Mangala,		Nos			
				Swarnamangala)					

		Year of	Area	Details	Details of production				
Sl. No.	Demo Unit	establishment	(ha)	Variety	Produce	Qty.	Cost of inputs	Gross income	Remarks
5	Jasmine	2004-2005	0.16	Udupi Jasmine	Cuttings	1500	30000	45000	-
6	Coconut	2016-17	0.01	WCT	Seedlings	1000	25000	39600	-
7	Bush pepper	2004-2005	0.04	Panniyur-1	Seedlings	1300	21000	39000	-
8	Poultry shed	2006-2007	0.04	Giriraja/Swarnadhara	Chicks	2500	170000	205830	-
						Nos			

#### 14B. Performance of instructional farm (Crops) including seed production – Nil-

Name			ea a)	D	etails of production		Amour	nt (Rs.)	<b>D</b> 1
of the crop	Date of sowing	Date of harvest	Area (ha)	Variety	Type of Produce	Qty.	Cost of inputs	Gross income	Remarks
Cereals									
Pulses									
Oilseeds									
Fibers									
Spices & Plantation	crops				·				
Floriculture									
Fruits									
Vegetables									
Others (specify)	•	•	·		·	-		•	

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

S1.	Sl. Name of the Day last		Amou		
No.	Name of the Product	Qty	Cost of inputs	Gross income	Remarks

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

S1.	Name	De	etails of production		Amou	nt (Rs.)	
No	of the animal / bird / aquatics	Breed	Type of Produce	Qty.	Cost of inputs	Gross income	Remarks

#### 14E. Utilization of hostel facilities – Renovation Completed

Accommodation available	(No. of beds)
-------------------------	---------------

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
April 2018			
May			
June			
July			
August			
September			
October			
November			
December			
January 2019			
February			
March			

#### 14F. Database management

S.No	Database target	Database created
1.		Database Management in OLRS format designed by ATARI,
		Bengaluru
		Upload the KVK Knowledge Network
		KMAS - Four messages per month
		Upload the KVK website
		Reports - MPR, QPR, Annual Report, Action Plan Report, EPCB,
		ZREP, SAC

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

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

#### 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,	0466	S.B. Account	0466101172871		CNRB 0000466
		Brahmavar			0466101173629		

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

Sl.No.	Particulars	Sanctioned	Released	Expenditure
21.1	(A). REVENUE (Recurring Contingencies)			
21.1.1	Pay & Allowances	84,20,000	86.67	86,67,000
21.1.2	Traveling allowances	1,50,000	0.75	-16,164
21.1.3	Contingencies	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
21.1.3.1	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			
21.1.3.0	Video production			
21.1.3.p	Library (Purchase of Journals, Periodicals, News Papers& Magazines)	9,000	0.05	4,500
	Total Recurring	97,32,000	96.72	94,73,474
21.2	(B). CAPITAL (Non-Recurring Contingencies)			
21.2.1	Equipments& Furniture			

Sl.No.	Particulars	Sanctioned	Released	Expenditure
21.2.2	Works			
21.2.3	Vehicle			
21.2.3 a	Four wheeler (replacement)			
21.2.4	Library			
	TotalNon Recurring			
21.3	(C). REVOLVING FUND			
	GRAND TOTAL (A+B+C)	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