

KRISHI VIGYAN KENDR, HASSAN

ANNUAL REPORT-2018-2019

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

Krishi Vigyan Kendra Hassan – 573 217

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PART I - GENERAL INFORMATION ABOUT THE KVK

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

KVK Address	Telephone		E mail	Web Address
	Office	Fax		
Krishi Vigyan Kendra, Kandali, Hassan-573217	Office: 08172-256092	--	hassan.kvk@gmail.com kvkhassan@uasbangalore.edu.in	www.kvkhassan.com

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

Address	Telephone		E mail	Web Address
	Office	Fax		
University of Agricultural Sciences, Bengaluru- 65	080- 23330153 & 23418883	080 – 23414848 / 23516836	vc@uasbangalore.edu.in	www.uasbangalore.edu.in

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Rajegowda	Hassan	09449866932/08172- 256092	rajegowdakrishnegowda@gmail.com

4. Year of sanction: 1991

1.5. Staff position as on 31 March 2019

Sl. No.	Sanctioned post	Name of the incumbent	Designation	M/F	Discipline	Highest Qualification (for PC, SMS and Prog. Asstt.)	Pay Scale	Basic pay	Date of joining KVK	Permanent /Temporary	Category (SC/ST/OBC/ Others)
1	Head/Senior Scientist	Dr. Rajegowda	Senior Scientist & Head	M	Sericulture	M.Sc. (Sericulture) Ph.D	15600-39100	26110	28.12.16	Permanent	GEN
2	Scientist	Dr.M.Shivashankar	Scientist(Home Science)	M	Home Science	M.Sc (H.Sc), Ph.D	15600-39100	25010	22.03.07	Permanent	SC
3	Scientist	Dr. Nagaraj T	Scientist(Plant protection)	M	Plant protection	M.Sc. (Agri), Ph.D	15600-39100	21600	06.03.18	Permanent	SC
4	Scientist	Dr.Ashok Doddamani	Scientist(Agril. Extn.)	M	Agriculture Extension	M.Sc (Agril. Extn), Ph. D.	15600-39100	21600	26.03.18	Permanent	SC
5	Scientist	Vinutha B.S	Scientist(Agron.)	F	Agronomy	M.Sc. (Agri)	--	--	--	Contract	OBC
6	Scientist	Vacant	--	--	--	Horticulture	--	--	--	--	--
7	Scientist	Vacant	--	--	--	Animal Science	--	--	--	--	--
8	Programme Assistant (Lab Tech.)	Dr. A.C.Girish	Programme Assistant	M	Programme Assistant	M.Sc. (Agri), Ph.D (Appl. Zoology), PDF	9300-34800	17570	23.10.10	Permanent	GEN
9	Programme Assistant (Computer)	Smt. Roopa, C.H	Programme Assistant (Computer)	F	Programme Assistant (Computer)	B.Sc. (Computer science)	9300-34800	17570	22.01.11	Permanent	GEN
10	Programme Assistant/ Farm Manager	Miss. Amurutha K	Farm Manager	F	Farm Manager	B.Sc(Agri.)	9300-34800	18000 (consolidated)	01.03.18	Temporary	Gen
11	Assistant	Mr. Mohan kumar, E.P	Assistant	M	Assistant	MBA	16000-29600	16000 (consolidated)	02.02.17	Contract	GEN

Sl. No.	Sanctioned post	Name of the incumbent	Designation	M/F	Discipline	Highest Qualification (for PC, SMS and Prog. Asstt.)	Pay Scale	Basic pay	Date of joining KVK	Permanent /Temporary	Category (SC/ST/OBC/ Others)
12	Jr. Stenographer	Mrs. Roja H	Stenographer Grade III	F	Jr. Stenographer (Typist cum computer operator)	B.E	14500 consolidated	14550 consolidated	01.02.19	Contract	OBC
13	Driver - 1	Mr. Vishwanath	Driver	M	-	SSLC	14550-350-26700	18100	17.10.08	Permanent	SC
14	Driver - 2	Mr.Manjunatha	Driver	M	-	SSLC	11600-200-21000	12750	14.08.12	Permanent	OBC
15	SS-1	Sumithra K.N	Messenger	F	Messenger	10 th Pass	9600	9600 (consolidated)	05.07.03	Contract	GEN
16	SS-2	Vacant	--	--	Asst. Cook cum care taker	--	--	--	--	--	--

1.6.Total land with KVK (in ha): 19.64 ha

S. No.	Item	Area (ha)
1	Under Buildings	6.15
2.	Under Demonstration Units	5.00
3.	Under Crops	8.49

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

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	UAS + ICAR	1983	13.52 150.52	114000.00	--	--	--
2.	Farmers Hostel	ICAR	2001	216.00	1432000	--	--	--
3.	Staff Quarters					--	--	--
	1. C type & D type	UAS	1985	683.00	661000	--	--	--
	2 C Type- 5 Nos.	ICAR	2011	333.33	1530000	--	--	--
4.	Demonstration Units					--	--	--
	1. Green house and heat chamber with FLP sheet and total GI structure	NHM	01.04.2008	108.00	88560	--	--	--
	2. Poly house round tunnel shaped	NHM	01.04.2008	108.00	70200	--	--	--
	3. Top vent poly house with					--	--	--
	a) Exhaust fan	NHM	24.06.2009	-	24400	--	--	--
	b) Cooling fan	NHM	27.06.2009	-	34800	--	--	--
	c) Syntex	NHM	26.06.2009	-	2450	--	--	--
	4. Shade net house	NHM	28.03.2008	192.00	21120	--	--	--
	5. Sales counter	NHM	01.04.2008	-	94900	--	--	--

	6. Gene Bank – Coconut, Mango, Cashew, Sapota, Mandrin, Medicinal plants	NHM	2008-09	-	-	--	--	--
	7. Dairy Shed	ICAR	2002	28.00	-	--	--	--
	8. Piggery Shed	ICAR	2002	100.00	-	--	--	--
	9. Piggery Farrowing unit	RKVY	2011	100.00	260000	--	--	--
	10. Poultry Shed	ICAR	2003	100.00	100000	--	--	--
	11 Vermicompost unit	National Center of Organic Farming	March 2008	108.00	150000	--	--	--
	12. Sheep unit	ICAR	2003	-	100000	--	--	--
	13. Sericulture Unit	ICAR	1999	80.00	274000	--	--	--
5	Fencing	UASB	2018	900m	725000	--	--	--
6	Rain Water harvesting system	ICAR	2008	-	-	--	--	--
7	Threshing floor	-	-	-	-	--	--	--
8	Farm godown	UAS	1985	-	65000	--	--	--

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor with trailer (TAFE)	1999	3,13,046.00	--	Not in Good condition
Tractor with trailer (TAFE),	Shifted from KVK, Magadi	-	2641 hr	Good Condition
Mini Bus (Swaraj Mazda)	2001	6,86,646.00	293150	Good Condition
Jeep (Bolero)	2018	3,64,468.00	74696	Good Condition
Motor Cycle (TVS)	2005	50,000.00	62296	Good condition
Motor Cycle (Honda Activa)	2009	49971.00	48753	Good condition

C) Equipment & AV aids

Sl. No.	Name of the Equipment	Year of Purchase	Cost (Rs.)	Present Status
Farm, Agro Processing and demonstration machines / Units				
1	Multipurpose Power operated inter cultivator	2002	38,000.00	Not in good condition
2	Multi crop thresher	2002	79,000.00	Not in Good Condition
3	Ragi de – stoner (1/2 ton capacity)	2002	50,000.00	Good condition
4	Flour mill	2002	21,000.00	Good condition
5	Potato chips making machine	2002	34,000.00	Not in good condition
6	Power operated maize cob Sheller cum sunflower threshing machine.	2002	15,000.00	Good condition
7	Chaff cutter	2002	4,500.00	Good condition
8	Hot air oven	2002	7,500.00	Not in good condition
9	Tray drier	2003	17,600.00	Good condition
Audio Visual aids:				
3	TV with VCP & CD player	2000	34,400.00	Good condition
4	Flannel Board	2000	22,000.00	Good condition
5	Projector screen	2004	5,000.00	Good condition
6	White Board	2000	6,000.00	Good condition
7	Multimedia Projector	2007	49,303.00	Not in Good Condition
8	Multi Media Mounting Kit	2007	16,650.00	Good Condition
Office Equipments& furniture				
1	Refrigerator	2002	28,500.00	Good condition
2	Computer HCI Pentium Core 160 GB with accessories	2007	33,800.00	Good Condition
3	Photo copying Machine – (E- Studio 163 Toshiba)	2007	42,300.00	Good Condition
4	Konika Minolta Colour Printer	2007	26,520.00	Not in Good Condition
5	Tables 25	2016	88737	Good Condition
6	LCD projector	2016	81319	Good Condition
7	Tables and chairs	2016	59500	Good Condition
8	P type chairs 45	2016	48949	Good Condition

Sl. No.	Name of the Equipment	Year of Purchase	Cost (Rs.)	Present Status
9	Visiting chair	2016	35000	Good Condition
10	Revolving chair	2016	49739	Good Condition
11	Dining table	2016	32249	Good Condition
12	Richo Xerox machine	2016	91468	Good Condition
13	Sun energy solar water heater system	2016	40000	Good Condition
Equipments Purchased under RKVY				
1	Desk Top Computers	2008	46000.00	Good condition
2	Printer	2008	31290.00	Good condition
3	Digital copier cum net work printer (Xerox machine)	2008	55120.00	Good condition
4	Display boards	2008	30000.00	Good condition
5	Computer table	2008	5558.00	Good condition
6	Computer chairs	2008	3542.00	Good condition
7	LCD	2008	44990.00	Not in Good Condition
8	Video camera	2008	184000.00	Good condition
9	Voltage stabilizer	2008	5520.00	Good condition
10	Touch screen information KIOSK	2008	124569.00	Not in Good condition
11	Visual production unit	2008	599500.00	Good condition
12	Auto Clave – vertical	2009	28687.50	Good condition
13	Research Microscope M.No. Rx lr – 3B with phase contrast attachment	2009	66555.00	Good condition
14	Laminar airflow PSM Make Horizontal Model	2009	54013.00	Good condition
15	Hot Air Oven PSM make	2009	24166.00	Good condition
16	Micro Pipette	2009	21180	Good condition
17	XP 800 A4k6Aoo6-034 Exide Battery	2016	5800	Good condition
18				

1.8. Details of SAC meeting conducted during 2018-19:NIL

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	Rainfed Farming System: Horticulture-Animal Husbandry, Ragi / Sugarcane- Animal Husbandry
2	Rainfed Wet farming with plantation.
3	Irrigated Wet land- Animal husbandry
4	Assured Rainfed/ semi irrigated Potato / Maize based Cropping System/ Vegetable- Animal husbandry/Sericulture Tobacco Based Cropping System / Rainfed Double Cropping System- Animal Husbandry

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

Sl. No	Agro-climatic Zone	Characteristics
1.	Central Dry Zone	Total rainfall is 456 to 717 mm. Most of the rainfall is received from May to October Elevation: 800 – 900 m in major areas and 450-800 m in remaining areas. Soils are red sandy loam and deep black in remaining areas.
2.	Southern Dry Zone	This zone receives a low rainfall of 600-900 mm during Pre-monsoon, South West and North East monsoon seasons. Elevation: 800 – 900 m in major areas and 450-800 m in remaining areas. Soils – Red sandy loam in major areas and black soils in some parts.
3.	Southern transition zone	Rainfall: 700-1050mm rainfall spread out in three distinct periods as pre monsoon, monsoon and north east monsoon. Elevation: 800-900 m in major areas and partly 450-800 m and in other areas 900-1500 m.

4.	Hilly Zone	Rainfall: 2800-2900 mm during Pre-monsoon, South West and North East monsoon seasons Elevation: 800-900 m in major areas, 900-1500 m some places and 450-800 in some places Soils: Red clay loamy soils in major areas.
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S. No	Agro Ecological Situation	Characteristics
1	Zone IX AES - 2	High elevation and high rainfall belt Major Crops: Coffee, Paddy, Cardamom, Mandarin, Banana, Pulses. Area, Sakaleshpur Rain fall: 2896 mm Altitude: 800 – 1000 m from MSL Rainy Days – 114 Soil: Red, Sandy loamy to Clay loamy Major Cropping systems: Coffee + Pepper + Cardamom, Areca + Cardamom, Areca + Cardamom + Pepper + Banana, Paddy followed by pulses Special features: Long duration Kharif Paddy, Drill sowing in Paddy
2	Zone VII AES 2 (RS-HR) AES (RL-HR) 4	Red sandy soil and high rainfall Area covered: Halebedu and Madihalli hoblies of Belur Taluk, Alur kasaba and Kundur hoblies of Alur Taluk and all five hoblies of Arkalgud taluk Soils: Red sandy soils Rainfall: 941.5 mm Altitude: 579 m to 968 m Major Crops: Paddy, Ragi, Jowar, Maize, Pulses, Groundnut, Sesamum, Sunflower, Cotton, tobacco, Mulberry, Sugarcane, Plantation Crops Area covered: Arehalli, Belur Kasaba and Bikkod Hoblies of Belur Taluk. Palya and K.Hosakote hoblies of Alur Taluk. Soil: Red loamy Rainfall: 1319.3mm Elevation : 960-1052 m Major Crops: Paddy, Ragi, Jowar, Maize, Pulses, Groundnut, Sesamum, Sunflower, Cotton, tobacco, Mulberry, Sugarcane, Plantation Crops

S. No	Agro Ecological Situation	Characteristics
3	AES (RS-MR) -5	All five hoblies of Hassan taluk, all three hoblies of Holenarasipura taluk Soil: Red sandy Rainfall: 796.07 mm Crops: Sesamum, groundnut, Horsegram, Dolichos, Paddy, ragi, jowar, sunflower, cotton, sugarcane, and tobacco
4	AES (Irrigated) 7	Scattered in all Agro Ecological Situations of zone. Soil: Lateritic, Red sandy, Red loamy, Red and Black mix Crop: Paddy, Ragi, Jowar, Groundnut, Sugarcane, Arecanut
5	Advanced soil AES 8	Scattered in all AES of zone; Soil: Saline, acidic, alkaline Crop: paddy
6	Zone 4 AES I	RL - LR Total rainfall is 456 to 717 mm. Most of the rainfall is received from May to October. Elevation: 800 – 900 m in major areas and 450-800 m in remaining areas. Soils are red sandy loam and deep black in remaining areas Crops-Jowar, groundnut, redgram, pulses, small millets, sugarcane, paddy, cotton, ragi, wheat, maize and plantations
7	Zone 6 AES I	RL-MR This zone receives a low rainfall of 600-900 mm in pre-monsoon as well as in South west and north east monsoon seasons Elevation: 800 – 900 m in major areas and 450-800 m in remaining areas Soils – Red sandy loam in major areas and black soils in some parts Crops-Jowar, pulses, small millets, groundnut, oilseed, paddy. Ragi, cotton, sugarcane, Mulberry, plantations

2.3 Soil type/s

Sl. No	Soil type	Characteristics	Area in ha
1	Alfisols	The soils of Hassan are largely formed under the influence of climate, vegetation and relief. The soils range from deep to very deep in nature and one dark brown to yellowish red in colour. In terms of productivity, nearly half of the area of soils in Hassan are known to be productive with deep soils characterized with	64364
2	Entisols		7713

3	Inceptisols	moderate to well drained conditions. The problematic soils in terms of salinity, sodicity, severe erosion and shallow depth accounts for 1/5th of the total geographical area. However, the remaining 1/3rd of soils can be effectively used with good management practices.	41438
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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	42818	105631	2255
2	Ragi	64661	73889	1044
3	Maize	79058	168082	2523
4	Green gram	9066	554	61
5	Bengal gram	1797	628	349
6	Potato	8670	251905	29
7	Tomato	1498	60319	40266
8	Chilli	887	21284	23995
9	Cucumber	851	7488.8	8800
10	Banana	4160	114981	27630
11	Coconut	64876	636751	9815
12	Ginger	18000	234000	1300
13	Hebbal Avare	2382	3388	1422
14	Cowpea	12816	2008	156

* Dept. of Statistics, Hassan 2016-17 data

2.5. Weather data

Month	Rainfall (mm)	Temperature ° C		Relative Humidity (%)
		Maximum	Minimum	
April 2018	107.6	33.2	19.2	73
May 2018	314.2	34.2	20.7	76
June 2018	192.4	31.8	18.6	80
July 2018	162.6	28.2	8.4	81
August 2018	172.2	30.2	16.2	83

September 2018	285.2	33.6	17.8	75
October 2018	165.2	32.4	19.2	73
November 2018	36	31.8	16.6	78
December 2018	--	30.4	12.6	80
January 2019	--	32.0	10.2	80
February 2019	18.2	33.9	15.2	73
March 2019	9.2	34.8	19.6	72

* India meteorology department Hassan

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

Category	Population	Production	Productivity
Cattle			
Crossbred	181594	1452752	12-15 liter/cow/day
Indigenous	606460	-	2-3 liter/cow/day
Buffalo	141264	-	3-4 liter/cow/day
Sheep			
Indigenous	160685	3650 tons meat/year	40-50 kgs of B.wt./animal
Goats	99405	7193 Tons meat/year	32-38 Kgs of body weight/animal
Pigs			
Crossbred	2155	254 tons of pork/year	80-100 Kgs of body weight/animal
Rabbits	924	-	2.5-3 Kgs of body weight/animal
Poultry			
Desi	2578599	-	50-60 eggs/hen/year

Category	Area	Production	Productivity
Fish	2100 ha	8924 MT	0.424 MT

* Livestock census 2012

District profile maintained in the KVK has been **Updated** for 2018-19: Yes

2.8 Details of Operational area / Villages

Sl.No.	Taluk	Name of the block	Name of the village	How long the village is covered under operational area of the KVK (specify the years)	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Chanarayapatna	Shantigramma	Katharigatta,	3-4 years	Mulberry	Lack of information on better utilization of in-between space, non availability of proper technology.	ICM
2					Mulberry	Death of Plants, Low leaf yield and quality	IDM
3					Silkwarm rearing	Cocoon yield loss due to disease outbreak (25-30 %), loss due to uzi fly	IDM
4					Cocoon deflosser	Non availability of labour, Laborious, low price for cocoon	Mechanization
5					G-4 Mulberry	Low leaf yield and quality	ICM
6					Birds	Incidence of reduced egg laying , reduced growth and productivity in poultry birds	Livestock management

7			Huvinahalli		Potato	Lower yield due to deficiency of Ca, S & B Low marketable tubers due to irregular shape	INM
8			Doddamathighatta		Maize	Low yield due to improper agronomic practices and lack of awareness on hybrids	ICM
9			Vagarahalli		Green gram	Local variety, Lack of awareness on improved green gram variety	ICM
10			Rampura		Little millet and value addition	Low income due to lack of knowledge on improved variety, importance of value addition, labeling, packaging and marketing	ICM & value addition
11			Chikkonahalli		Coconut	Low yield, button shedding Black headed caterpillar menace, Rhinoceros beetle, Red palm weevil, stem bleeding incidence	ICM
12			Gaddebindenahalli		Nutrient supplementation	Milk fever, Loss of body condition score (BCS) and productivity, high feed cost	Nutrient management
13	Hassan		Kandali,	2 years	Potato	Lower yield due to deficiency of Ca, S & B Low marketable tubers due to irregular shape	INM

14			Kammarige		Fisheries	Low productivity of local carp & underutilization of pond productivity	Varietal evaluation
15					Composite fish culture	Low productivity and lack of management	Varietal evaluation
16			Melagodu		Drumstick	Low yield due to flower drop, Caterpillar menace, Seedling	Varietal evaluation
17			Hassan		Mushroom	Lack of awareness on mushroom cultivation, Non utilization of Agricultural waste and nutritional insecurity	Income generating activity
18			Hassan		Kitchen waste	Lack of awareness on improved methods of kitchen waste management	Kitchen waste management
19			Chirannahalli gate Bhuvanahalli		Post partum	Incidence of post parturient anestrus, irregular estrus cycle and reduced productivity	Management of dairy cows
20			Somanahalli Rangapura		Sheep	Incidences of viral, bacterial and parasitic diseases, Reduced growth and productivity	Sheep management
21	Sakleshpura		Sullaki	4 years	Paddy	Incidence of blast disease	ICM
22	Belur		Dabbejadi	1 year	Pepper	Spike drop , Poor fruit set, Higher Incidence of wilt	IDM

23			Karikattehalli Chattachatanahalli		Bengal gram	Low yield due to local variety and susceptible	ICM
24	Arakalagud		J.Hosalli	2 year	Ground nut	Low yield due to local variety and improper agronomic practices	ICM

2.9 Priority thrust areas

S. No	Thrust area
1	Varietal introduction
2	Integrated Crop Management
3	Integrated Nutrient Management
4	Value Addition and nutritional security
5	Diseases management in livestock
6	Integrated management in piggery
7	Infertility in dairy animals
8	Fresh water Fish culture
9	Information Communication Technology
10	Human Resource Development
11	Livestock management

PART III - TECHNICAL ACHIEVEMENTS (2018-19)

3.A. Target and Achievements of mandatory activities

OFT	FLD
1	2

OFTs (No.)		Farmers (No.)		FLDs (No.)		Farmers (No.)	
Target	Achievement	Target	Achievement	Target	Achievement	Target	Achievement
04	04	18	59	19	19	137	265

Training				Extension Programmes			
3				4			
Courses (No.)		Participants (No.)		Programmes (No.)		Participants (No.)	
Target	Achievement	Target	Achievement	Target	Achievement	Target	Achievement
27	38	675	1148	1500	1833	55765	54491

Seed Production (Q)		Planting material (Nos.)	
5		6	
Target	Achievement	Target	Achievement
100	67.75	50000	53588

Livestock, poultry strains and fingerlings (No.)		Bio-products (Kg)	
7		8	
Target	Achievement	Target	Achievement
200	3029	1500	1429

3.B1. Abstract of interventions undertaken													
S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions									
				Title of OFT if any	Title of FLD if any	Number of Training (farmers)	Number of Training (Youths)	Number of Training (extension personnel)	Extension activities (No.)	Supply of seeds (Qtl.)	Supply of planting materials (No.)	Supply of livestock (No.)	Supply of bio products

													No.	Kg
1	ICM	Mulberry	Lack of information on better utilization of in-between space, non availability of proper technology	Evaluation of suitable intercrops in tree Mulberry for additional income		7			8					
2	Mechanization	Potato	Lower yield due to deficiency of Ca, S & B Low marketable tubers due to irregular shape	Assessment of Gypsum and Boron application on growth, yield and quality of potato		3			4					
3	Monoculture	Fisheries	Low productivity of local carp & underutilization of pond productivity	Assessment of Growth and yield performance of Genetic Improvement of Farmed Tilapia (GIFT)		2			3					
4	Varietal evaluation	Drumstick	Low yield due to flower drop, Caterpillar menace, Seedling death	Assessment of Drumstick Variety PKM-2		2			3					

5	ICM	Groundnut	Low yield due to local variety and improper agronomic practices		Integrated Crop management in Groundnut	2			5					
6	ICM	Green gram	Local variety, Lack of awareness on improved green gram variety		Demonstration of improved Green gram variety	4			6					
7	ICM	Bengal gram	Low yield due to local variety and susceptible to wilt and drought		Integrated Crop management in Bengal Gram	4			5					
8	ICM	Paddy	Incidence of blast disease		Demonstration of Paddy variety KPR-1	3			4					
9	ICM	Maize	Low yield due to improper agronomic practices and lack of awareness on hybrids		Integrated Crop Management in Hybrid Maize	3			5					
10	ICM & Value addition	same	Low income due to lack of knowledge on improved variety, importance of value addition, labeling, packaging and marketing		Demonstration of improved little millet variety & value addition	4			5					

11	IDM	Pepper	Spike drop , Poor fruit set, Higher Incidence of wilt		Wilt Management in Pepper	4			7					
12	ICM	Coconut	Low yield, button shedding, Black headed caterpillar menace, Rhinoceros beetle, Red palm weevil, stem bleeding incidence		Integrated crop management in Coconut	3			7					
13	Nutrient supplementation	Cows	Milk fever, Loss of body condition score (BCS) and productivity, high feed cost		Demonstration of Nutrient Supplementation in prevention of Milk fever in Dairy cows	4			8					
14	Dairy management	Cows	Incidence of post parturient anestrus, irregular estrus cycle and reduced productivity		Post-partum management of crossbred dairy cattle	3			3					
15	Feeding technique	Birds	Incidence of reduced egg laying , reduced growth and productivity in poultry birds		Demonstration of benefits of feeding Azolla to backyard poultry birds	4			5					
16	Health management	sheep	Incidences of viral, bacterial and parasitic diseases, Reduced growth and productivity		Integrated Health Management in Sheep	2			4					

17	Compoite fish culture	Fishries	Low productivity and lack of management		FLD-8: Demonstration of Composite Fish Culture	2			5					
18	Income generating	Oyster mushroom	Lack of awareness on mushroom cultivation, Non utilization of Agricultural waste and nutritional insecurity		Oyster mushroom cultivation as income generating activity Through CBA Approach	4			7					
19	IDM	Mulberry	Death of Plants, Low leaf yield and quality		Management of Root Rot in Mulberry	5			4					
20	IPM	Silkworm	Cocoon yield loss due to disease outbreak (25-30 %), loss due to uzi fly infestation (15-22%)		Improved silkworm rearing practices for cocoon yield maximization	3			8					
21	ICM	Mulberry	Low leaf yield and quality		Demonstration of Improved G-4 Mulberry Variety	3			9					
22	Drudgery reduction	Cocoon defloser	Non availability of labour, Laborious, low price for cocoon		Demonstration of cocoon defloser for increasing efficiency and reducing drudgery of farm women	3			8					

23	Eco friendly management	Kitchen waste and Home garden	Lack of awareness on improved methods of kitchen waste management		Eco friendly Management of Kitchen Waste and Home Gardening	2			5				
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3.B2. Details of technology used during reporting period

S.No	Title of Technology	Source of technology	Crop/enterprise	No. of programmes conducted			
				OFT	FLD	Training	Extension Activities
1	2	3	4	5	6	7	8
1	Evaluation of suitable intercropping in tree Mulberry for additional income	UAS (B) RSRS, Chamarajanagara ITK	Mulberry	1		3	4
2	Assessment of Gypsum and Boron application on growth, yield and quality of potato	UAS (B) CPRI (Shimla)	Potato	1		2	3
3	Assessment of Growth and yield performance of Genetic Improvement of Farmed Tilapia (GIFT)	UAS (B) Rajiv Gandhi center for Aquaculture Chennai	Fisheries	1		2	3
4	Assessment of Drumstick Variety PKM-2	UHS Bagalkot TNAU	Drumstick	1		2	5
5	Integrated Crop management in Groundnut	UAS, (D)	Ground nut		1	4	6
6	Demonstration of improved Green gram variety	UAS, (B)	Green gram		1	4	5
7	Integrated Crop management in Bengal Gram	UAS(B)	Bengal Gram		1	3	4

8	Demonstration of Paddy variety KPR-1	UAHS (S)	Paddy		1	3	5
9	Integrated Crop Management in Hybrid Maize	UAS(B)	Maize		1	4	5
10	Demonstration of improved little millet variety & value addition	UAS, (D)	same		1	4	7
11	Wilt Management in Pepper	IISR,Calicut	pepper		1	3	7
12	Integrated crop management in Coconut	UAS, (B)	coconut		1	4	8
13	Demonstration of Nutrient Supplementation in prevention of Milk fever in Dairy cows	NDRI, Karnal	Dairy cows		1	3	3
14	Post-partum management of crossbred dairy cattle	KVAFSU,Bidar	Dairy cattle		1	4	5
15	Demonstration of benefits of feeding Azolla to backyard poultry birds	NIANP	Poultry birds		1	2	4
16	Integrated Health Management in Sheep	KVAFSU, Bidar	Sheep		1	2	5
17	Demonstration of Composite Fish Culture	UAS, (B)	Fishries		1	4	7
18	Oyster mushroom cultivation as income generating activity Through CBA Approach	IIHR, UAHS(S)	Oyster Mushroom		1	5	4
19	Management of Root Rot in Mulberry	CSR&TI. Mysore	Mulberry		1	3	8
20	Improved silkworm rearing practices for cocoon yield maximization	UAS (B) & CSR&TI. Mysore	Silkwarm		1	3	9
21	Demonstration of Improved G-4 Mulberry Variety	CSRTI, Mysore	Mulberry		1	3	8

22	Demonstration of cocoon deflosser for increasing efficiency and reducing drudgery of farm women	CSRTI, Mysore	Cocoon deflosser		1	2	5
13	Eco friendly Management of Kitchen Waste and Home Gardening	IIHR, UAHS(S)	Management of Kitchen waste		1	2	8

3.B2 contd..

No. of farmers covered															
OFT				FLD				Training				Extension Activities			
General		SC/ST		General		SC/ST		General		SC/ST		General		SC/ST	
M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
4	1	0	0	32	12	5	0	18	1	3	--	87	12	8	2
2	1	0	0	9	1	0	0	21	4	--	4	63	8	4	1
3	0	0	1	28	5	8	1	16	2	1	1	152	17	8	4
5	0	0	0	9	0	0	1	54	7	4	3	54	10	6	2
				10	0	0	0	18	2	3	2	96	14	12	2
				4	1	0	0	18	4	2	--	24	46	8	18
				10	0	0	0	47	8	4	--	63	16	6	1
				4	1	0	0	9	3	2	1	55	3	21	3
				4	1	0	0	7	2	1	--	36	6	8	2
				2	1	0	0	12	3	1	--	35	7	7	3
				8	0	0	0	26	11	1	1	25	12	5	2
				4	0	0	0	16	2	1	1	43	4	12	6
				2	0	2	1	8	--	1	1	48	14	16	6
				0	6	0	1	12	2	--	2	0	68	0	16
				10	0	0	0	23	4	2	--	78	14	12	3
				09	0	0	1	9	--	1	2	64	12	4	0
				10	0	0	0	23	3	3	2	73	4	12	3
				1	0	0	0	26	4	1	--	21	3	2	2
				0	3	0	0	58	11	6	3	0	8	0	2

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
Varietal Evaluation					1					1
Integrated Crop Management				1					1	2
Total				1	1				1	3

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

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					1	1
TOTAL					1	1

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

4.B. Achievements on technologies Assessed and Refined

4.B.1. Technologies Assessed under various Crops

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha (Per trial covering all the Technological Options)
Varietal Evaluation	Drumstick	FP:Bhagya	5	5	1.2
		TO1: PKM-1			
		TO2: PKM-2			

Integrated Crop Management	Mulberry	FP: No intercrop	5	5	1.0
		TO1: Tree Mulberry+ Ragi (KMR-301)			
		TO2: Tree Mulberry + Groundnut(K-6)			
	Potato	TO3: Tree Mulberry + Cowpea (KBC-1)	3	3	1.0
		FP: 120:180:50 NPK (kg/ha)			
		TO1: Recommended dosage of NPK 75:75:100 kg/ha			
		TO2: Recommended dosage of NPK 75:75:100 kg/ha + Application of Gypsum @ 150 kg/ha and Soil application of Borax @ 10 kg/ha			
Total			13	13	3.2

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

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	Fish	FP: Local Varieties- Monoculture	4	4
		TO1: Recommendation Catla, Rohu, and Common Carp		
		TO2: Performance of Genetic Improvement of Farmed Tilapia (GIFT)		
Total			4	4

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

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 (Leaf)	Unit of yield	Observations other than yield(q/ha)	Net Return Rs. / unit	BC Ratio	Remarks if any
1	2	3	4	5	6	7	8	9	10	11	12	13
Mulberry	Rainfed	Lack of information on better utilization of in-between space, non availability of proper technology	Evaluation of suitable intercrops in tree Mulberry for additional income	5	FP:No intercrop	--	7779	Kg/crop	--	23595	2.54	
					TO1:Tree Mulberry+ Ragi (KMR-301)	UAS (B)	7635	Kg/crop	Ragi-14.5	38325	2.56	
					TO2:Tree Mulberry + Groundnut(K-6)	RSRS, Chamarajanagara	7824.4	Kg/crop	Groundnut-8.51	34344	2.46	
					TO3:Tree Mulberry + Cowpea (KBC-1)	ITK	7955.8	Kg/crop	Cowpea-7.50	42079	2.63	

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

1. **Title of Technology Assessed** :Evaluation of suitable intercrops in tree Mulberry for additional income

2. **Performance of the Technology on specific indicators:**

3.**Specific Feedback from farmers:** Growing Cowpea as intercrop in tree Mulberry given more additional income and improved the soil fertility

4.**Specific Feedback from Extension personnel and other stakeholders**

5. **Feedback to Research System based on results and feedback received**

Results of On Farm Trial

Crop/enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Source of technology	Yield (Tuber)	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

Potato	Rainfed	Lower yield due to deficiency of Ca, S & B Low marketable tubers due to irregular shape	Assessment of Gypsum and Boron application on growth, yield and quality of potato	3	FP:120:180:50 NPK (kg/ha)	--	9.92	t/ha	Germination(%) Plant ht(cm) No. of shoots No. of leaves Marketable tuber yield(t/ha) Tuber rot(t/ha)	86733	2.39	
					TO1:Recommended dosage of NPK 75:75:100 kg/ha	UAS (B)	12.67			126867	3.01	
					TO2:Recommended dosage of NPK 75:75:100 kg/ha + Application of Gypsum @ 150 kg/ha and Soil application of Borax @ 10 kg/ha	CPRI (Shimla)	14.76			156333	3.4	

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

1. **Title of Technology Assessed** :Assessment of Gypsum and Boron application on growth, yield and quality of potato

2. **Performance of the Technology on specific indicators:**

3.**Specific Feedback from farmers:**Application of Gypsum and Boron to Potato crop has increased yield of 32% as compared to farmers practice

4.**Specific Feedback from Extension personnel and other stakeholders**

5. **Feedback to Research System based on results and feedback received**

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
Fisheries	Irrigated	Low productivity of local carp & underutilization of pond productivity	Assessment of Growth and yield performance of Genetic Improvement of Farmed Tilapia	4	FP:Local Varieties- Monoculture	--	In progress					
					TO:1Recommendation Catla, Rohu, and Common Carp	UAS(B)						
					TO2: performance of	Rajiv						

			(GIFT)		Genetic Improvement of Farmed Tilapia (GIFT)	Gandhi center for Aquaculture Chennai	
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4.C2. Details of Successfully completed / concluded technology assessment (support with necessary summary of data and photographs)

1. Title of Technology Assessed : Assessment of Growth and yield performance of Genetic Improvement of Farmed Tilapia (GIFT)

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

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
Drumstick	Irrigated	Low yield due to flower drop, Caterpillar menace, Seedling death	Assessment of Drumstick Variety PKM-2	5	FP:Bhagya	UHS Bagalkot						In progress
					TO1:PKM-1	TNAU						
					TO2:PKM2	TNAU						

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

- 1. Title of Technology Assessed :** Assessment of Drumstick Variety PKM-2
- 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

PART V - FRONTLINE DEMONSTRATIONS (2018-19)

5.A. Summary of FLDs implemented

Sl. No	Category	Farming Situation	Season	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Area (ha)		Farmers (No.)		Farmers (No.)	
									Proposed	Actual	SC/ ST	Others	Small/ Marginal	Others
1	Oil seeds	Rainfed	Summer	Groundnut	GPBD-4	-	ICM	Variety : GPBD-4 Soil test based Fertilizer application (25:50:25 NPK kg/ha) Seed treatment with Rhizobium Application of Gypsum (500kg/ha) Plant protection	20	20	5	44	41	8

								Measures						
2	Pulses	Rainfed	Kharif	Greengram	KKM-3	-	ICM	KKM-3	1	2	0	10	8	2
3		Rainfed	Rabi	Bengal gram	JAKI-9218	-	ICM	Improved variety JAKI-9218, chick pea magic spray RDF: 25:50:25 NPK kg/ha Plant protection chemicals	20	20	9	33	37	5
4	Cereals	Rainfed	Kharif	Paddy	KPR-1	-	ICM	Paddy Variety KPR-1	4	4	1	9	8	2
5		Rainfed	Kharif	Maize	-	MAH-14-5	ICM	Seeds MAH-14-5 Fertilizer application Based on Soil Test Improved Agronomic Practices(Seed rate, Spacing and weed management IPDM (management of Stem borer and Downey Mildew) Carbofuran 3G granules (FC)	4	2	0	10	9	1
6	Millets	Rainfed	Kharif	same	OLM-203	-	ICM & Value addition	Improved variety : OLM-203 Preparation of value added Little millet products (Rice, flour, diabetic mix), labeling.	2	2	0	5	4	1
7	Spices and condiments	Rainfed	Kharif	Pepper	Panniyur-1	-	IDM	Application of FYM and RDF Spraying of Pepper special 5 g/l. at pre and post blossom stage Application of Arka Microbial	40 0 vin es	40 0 vin es	0	10	1	9

								Consortium(25g/l), Arka Actino- plus- 25g/l (<i>Azotobacter</i> , <i>Bacillus</i> and <i>Pseudomonas</i>) + 1 kg neem cake + FYM-20 kg/pl Copper Oxy Chloride -3g/l Spray and drenching of Potasium phosponate 3ml/lt						
8	Plantati on	Rainfed	Rabi	Coconut	Local	-	ICM	Application of Boron with RDF, <i>Trichoderma</i> - 1Kg/100kg FYM, <i>Pseudomonas</i> - 1Kg/100kg FYM Neem Cake - 5Kg/pl.,Handful of Sand and Salt application at apical portion, Sand and Salt,Pheromone traps - 4 / ha,Swabbing trunk with COC ,Root feeding of Tebuconazole /2 times (3 ml + 100 ml water),Cotton plugging with Imida 0.5ml/lt, Release of Bio-agents (<i>Goniozus</i> <i>nephentidis</i> - 20/palm/4times(15da ys intervals),Azadirachti n-10ml+10ml of water /2 times	1	1	0	5	1	4

9	Dairy	-	Kharif	Cows	Local	-	Nutrient supplementation	Feed formulation using locally available resource (Maize, rice bran, urea, salt, molasses), Ground nut cake,, Mineral supplementation (using Chelated Ca and Mg)	10 animals	15 animals	0	5	4	1
10		--	Kharif	Cows	Local	-	Dairy management	Cyclomin 7 bolus (1 bolus/cow/day for 7 seven days), Bypass fat (150g/day/cattle)	10 animals	10 animals	0	3	3	0
11	Poultry	-	Kharif	Birds	Nattikoli	-	Feeding technique	Azolla feeding, Azolla Cultivation, Feeding concentrates	30 birds	30 birds	0	8	8	0
12	Sheep	-	Kharif	sheep	-	-	Health management	Ivermectin, Vitamin supplementation, Vaccination Mineral Syrup (Zn,Cu,chelated Ca and Mg)	30	30	0	4	4	0
13	Common carps	Irrigated	Kharif	Fishries	Catla, Rohu, Common carp	-	Compoite fish culture	Catla, Rohu, Common carp (4:3:3)	5 unit	5 unit	3	2	2	3
14	Oyster mushroom	-	Kharif	Oyster mushroom	-	-	Income generating	Cultivation of Oyster mushroom	1 CBA	2 CBA	1	6	6	0
15	Sericulture	Rainfed	Kharif	Mulberry	--	--	IDM	Recommended agronomical practices Pruning the plant 30	1	2	0	10	8	2

							cm above the ground Digging and removing soil 20-30 cm around the plant Mixing 10g Rot Fix in 2 litre water Pouring 2 ltr Rot Fix solution & drenching the stump Covering with soil immediately Pressing the soil firmly around the plant						
16		Rainfed	Khariff	Silkwarm		IPM	Disinfection Three stage disinfection of Silkworm rearing house & equipment. Use of recommended dosage of bed disinfectant . Growth enhancer Mixing of 5 ml growth enhancer (Serimore) with 2 L of boiled and cooled water and spraying on to the 5 th instar 2 nd day old silkworms IPM in Uzifly management Fixing nylon mesh to windows & doors with an arrangement of anteroom Using uzi trap @ 12 tablets / 100 DFLs Fixing one sticky uzi	10 00 df s	20 00 df s	1	9	9	1

								trap on windows outside & inside each						
17	Apiculture	Rainfed	Kharif	Mulberry	G-4	--	ICM	G4 Mulberry variety	2	4	0	10	9	1
18	Implements	--	Khariff	Cocoon defloser	--	--	Drudgerry reduction	Hand operated cocoon deflosser machine	1000 dfls	1000d fls	--	1	6	4
19	Kitchen waste and Home garden	-	Kharif	Kitchen waste and Home garden	-	-	Eco friendly management	Education on segregation of types of garbage Use of daily dump kit for composting (4 q/family/yr) Use of compost in Home gardens	4 unit	3 unit	0	3	0	3

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

Sl. No	Category	Farming Situation	Season and Year	Crop	Variety/breed	Hybrid	Thematic area	Technology Demonstrated	Season and year	Status of soil			Previous crop grown
										N	P	K	
1	Oilseeds	Rainfed	Summer - 2018	Groundnut	GPBD-4	-	ICM	Variety : GPBD-4 Soil test based Fertilizer application (25:50:25 NPK kg/ha) Seed treatment with Rhizobium Application of Gypsum (500kg/ha) Plant protection Measures	Summer - 2018	M	M	M	Paddy
2	Pulses	Rainfed	Kharif	Greengram	KKM-3	-	ICM	KKM-3	Kharif	M	M	M	Maize

			2018						2018				
3		Rainfed	Rabi 2018	Bengal gram	JAKI-9218	-	ICM	Improved variety JAKI-9218, chick pea magic spray RDF: 25:50:25 NPK kg/ha Plant protection chemicals	Rabi 2018	M	L	M	Paddy
4	Cereals	Rainfed	Kharif 2018	Paddy	KPR-1	-	ICM	Paddy Variety KPR-1	Kharif 2018	M	M	H	Paddy
5		Rainfed	Kharif 2018	Maize	-	MAH-14-5	ICM	Seeds MAH-14-5 Fertilizer application Based on Soil Test Improved Agronomic Practices(Seed rate, Spacing and weed management IPDM (management of Stem borer and Downey Mildew) Carbofuran 3G granules (FC)	Kharif 2018	M	L	M	Potato
6	Millets	Rainfed	Kharif 2018	same	OLM-203	-	ICM & Value addition	Improved variety : OLM-203 Preparation of value added Little millet products (Rice, flour, diabetic mix), labeling.	Kharif 2018	L	M	M	Ragi
7	Spices and condiments	Rainfed	Kharif 2018	Pepper	Panniyur-1	-	IDM	Application of FYM and RDF Spraying of Pepper special 5 g/l. at pre and post blossom	Kharif 2018	H	M	M	Pepper

								stage Application of Arka Microbial Consortium(25g/l), Arka Actino- plus- 25g/l (<i>Azotobacter</i> , <i>Bacillus</i> and <i>Pseudomonas</i>) + 1 kg neem cake + FYM-20 kg/pl Copper Oxy Chloride -3g/l Spray and drenching of Potasium phosponate 3ml/l					
8	Plantati on	Rainfed	Rabi 2018	Coconut	Local	-	ICM	Application of Boron with <i>RDF</i> , <i>Trichoderma</i> - 1Kg/100kg FYM, <i>Pseudomonas</i> - 1Kg/100kg FYM Neem Cake - 5Kg/pl.,Handful of Sand and Salt application at apical portion, Sand and Salt,Pheromone traps - 4 / ha,Swabbing trunk with COC ,Root feeding of Tebuconazole /2 times (3 ml + 100 ml water),Cotton plugging with Imida 0.5ml/l, Release of	Rabi 2018	M	M	M	Coc onut

								Bio-agents (Goniozus nephentidis-20/palm/4times(15days intervals),Azadirachtin-10ml+10ml of water /2 times					
9	Sericulture	Rainfed	Khariff 2018	Mulberry	--	--	IDM	Recommended agronomical practices Pruning the plant 30 cm above the ground Digging and removing soil 20-30 cm around the plant Mixing 10g Rot Fix in 2 litre water Pouring 2 ltr Rot Fix solution & drenching the stump Covering with soil immediately Pressing the soil firmly around the plant	Khariff 2018	M	M	M	Mulberry
10		Rainfed	Khariff 2018	Silkwarm			IPM	Disinfection Three stage disinfection of Silkworm rearing house & equipment. Use of recommended dosage of bed disinfectant . Growth enhancer Mixing of 5 ml growth enhancer (Serimore)	Khariff 2018	-	-	-	-

								with 2 L of boiled and cooled water and spraying on to the 5 th instar 2 nd day old silkworms IPM in Uzifly management Fixing nylon mesh to windows & doors with an arrangement of anteroom Using uzi trap @ 12 tablets / 100 DFLs Fixing one sticky uzi trap on windows outside & inside each					
11		Rainfed	Kharif 2018	Mulberry	G-4	--	ICM	G4 Mulberry variety	Kharif 2018	M	M	M	Mulberry

5.B. Results of FLDs

5.B.1. Crops

Crop	Name of the technology demonstrated	Variety	Hybrid	Farming situation	No. of Demo	Area (ha)	Yield (q/ha)			% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)				
							Demo				Check	Gross Cost	Gross Return	Net Return	** BC R	Gross Cost	Gross Return	Net Return	** BC R
							H	L	A										

Oilseeds	Variety : GPBD-4 Soil test based Fertilizer application (25:50:25 NPK kg/ha) Seed treatment with Rhizobium Application of Gypsum (500kg/ha) Plant protection Measures	GPBD-4	-	Rainfed	50	20	In Progress												
Pulses	KKM-3	KKM-3	-	Rainfed	10	2	20.8	19.6	2.02	1.54	31.17	2000	10000	8000	3.0	2000	8500	6500	2.25
	Improved variety JAKI-9218, chick pea magic spray RDF: 25:50:25 NPK kg/ha Plant protection chemicals	Jockey-9218	-	Rainfed	42	20	15.23	11.86	12.46	9.68	28.7	25100	61054	35954	2.43	21000	47432	26332	2.24
Cereals	Paddy Variety KPR-1	KPR-1	-	Rainfed	10	2	25.8	24.1	62.27	52.3	19.07	32650	84961	52311	1.60	32870	76802	43932	1.33

	Seeds MAH-14-5 Fertilizer application Based on Soil Test Improved Agronomic Practices(Seed rate, Spacing and weed management IPDM (management of Stem borer and Downey Mildew) Carbofuran 3G granules (FC)	-	MAH-14-5	Rainfed	10	2	30.4	26.2	27.17	25.31	7.34	21938	64176	42238	1.92	22485	61839	39354	1.75
Millets	Improved variety : OLM-203 Preparation of value added Little millet products (Rice, flour, diabetic mix), labeling.	OLM-203	-	Rainfed	5	2	10.2	7.86	9.5	6.75	40.74	12500	33250	20750	2.66	11000	23625	12625	2.14

Spices and condimen	Application of FYM and RDF Spraying of Pepper	Panni yur	-	Rainfed	10	400 vines	5.82	4.08	4.81	3.83	25.58	54190	144359	90169	2.67	50690	114984	64294	2.27
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ts	special 5 g/l. at pre and post blossom stage Application of Arka Microbial Consortium(25g/l), Arka Actino- plus-25g/l (<i>Azotobacter</i> , <i>Bacillus</i> and <i>Pseudomonas</i>) + 1 kg neem cake + FYM-20 kg/pl Copper Oxy Chloride -3g/l Spray and drenching of Potasium phosponate 3ml/lt	-1																			
Plantation	Application of Boron with <i>RDF</i> , <i>Trichoderma</i> - 1Kg/100kg FYM, <i>Pseudomonas</i> - 1Kg/100kg FYM Neem Cake - 5Kg/pl.,Handful of Sand and Salt application at apical portion, Sand and Salt,Pheromone traps - 4 / ha,Swabbing trunk with COC ,Root feeding of Tebuconazole /2 times (3 ml + 100 ml water),Cotton plugging with Imida 0.5ml/lt, Release of Bio-agents (<i>Goniozus nephentidis</i> -	Local	-	Rainfed	5	1.0	In Progress														

	20/palm/4times(15days intervals),Azadirachtin-10ml+10ml of water /2 times																		
Sericulture	Recommended agronomical practices Pruning the plant 30 cm above the ground Digging and removing soil 20-30 cm around the plant Mixing 10g Rot Fix in 2 litre water Pouring 2 ltr Rot Fix solution & drenching the stump Covering with soil immediately Pressing the soil firmly around the plant	--	--	Rainfed	10	1	22.21	18.46	20.58	5.28	-	14406	11500	2906	1.25	3096	10700	-7604	0.28
	Disinfection Three stage disinfection of Silkworm rearing house & equipment. Use of recommended dosage of bed disinfectant . Growth enhancer Mixing of 5 ml growth enhancer (Serimore) with 2 L of boiled and cooled water and spraying on to the 5 th instar 2 nd day old silkworms IPM in Uzifly			Rainfed	10	2000 dfls	0.71	0.491	0.615	0.523	-	14750	36900	22150	1.50	13210	300720	16826	1.28

	management Fixing nylon mesh to windows & doors with an arrangement of anteroom Using uzi trap @ 12 tablets / 100 DFLs Fixing one sticky uzi trap on windows outside & inside each																			
	G4 Mulberry variety	G-4	-	Rainfed	10	4	70.1 2	65.1 4	69.2 5	69.98	1	1872 0	48475	2975 5	2.58	1872 0	48986	3026 6	2.61	

5.B.2. Livestock and related enterprises

Type of livestock	Name of the technology demonstrated	Breed	No. of Demo	No. of Units	Yield (kg/animal)				% Increase	*Economics of demonstration (Rs./unit)				*Economics of check (Rs./unit)			
					Demo			Check if any		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					H	L	A										
Dairy	Cyclomin 7 bolus (1 bolus/cow/day for 7 seven days), Bypass fat (150g/day/cattle)	Local	3	10	13.5	11.5	12.5	8.74	-	16369	26037	9667	1.58	11922	15741	3898	1.32
	Feed formulation using locally available resource (Maize, rice bran, urea, salt, molasses), Ground nut cake,, Mineral supplementation (using Chelated Ca and Mg)	Local	5	15	11.7	12.8	12.66	10.48	100	21565	34204	12639	1.58	20566	28296	7729	1.37
Poultry	Azolla feeding, Azolla Cultivation, Feeding concentrates	Nattikoli	10	30			2.1	1.75	20	275	770	495	2.8	250	635	385	2.54

Sheep	Ivermectin, Vitamin supplementation, Vaccination Mineral Syrup (Zn,Cu,chelated Ca and Mg)	-	4	30	20.6	22.50	21.68	16.58	30.75	2835	7588	4753	2.67	2250	5803	3553	2.57
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5.B.3. Fisheries

Type of Breed	Name of the technology demonstrated	Breed	No. of Demo	Units/Area (m ²)	Yield (q/ha)				% Increase	*Economics of demonstration Rs./unit) or (Rs./m2)				*Economics of check Rs./unit) or (Rs./m2)			
					Demo			Check if any		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					H	L	A										
Common carps	High yielding varieties; Catla, Rohu, Common carp (4:3:3)	Catla, Rohu, Common carp	5	2	820	710	774	595	30.08	61920	12000	49920	5.16	47600	10000	37600	4.76

5.B.4. Other enterprises

Enterprise	Name of the technology demonstrated	Variety/species	No. of Demo	Units/Area {m ² }	Yield				% Increase	*Economics of demonstration (Rs./unit) or (Rs./m2)				*Economics of check (Rs./unit) or (Rs./m2)			
					Demo			Check if any		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					H	L	A										
Oyster mushroom	Cultivation of Oyster mushroom	-	5	2 CBA	48	45	47	-	-	1750	4700	3050	2.68	-	-	-	-

Vermicom post	Education on segregation of types of garbage Use of daily dump kit for composting (4 q/family/yr) Use of compost in Home gardens	-	3	3	61.5	44.25	52.87	-	100	200	510	310	2.25	-	-	-	-
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5.B.5. Farm implements and machinery

Name of the implement	Cost of the implement in Rs.	Name of the technology demonstrated	No. of Demo	Area covered under demo in ha	Labour requirement in Mandays		% save	Savings in labour (Rs./ha)	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demo	Check			Gross cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Deflosser	10000	Hand operated cocoon deflosser machine	10	1	2	15	13 mandays	3900	11600	42000	30400	3.62	15500	41800	26300	2.69

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

Demonstration details on crop hybrids

Type of Breed	Name of the technology demonstrated	Name of the hybrid	No. of Demo	Area (ha)	Yield (q/ha)				% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demo			Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					H	L	A										
Maize	Seeds MAH-14-5 Fertilizer application Based on Soil Test Improved Agronomic Practices(Seed rate, Spacing and weed management IPDM (management of Stem borer and Downey Mildew) Carbofuran 3G granules (FC)	MAH-14-5	10	2	30.4	26.2	27.17	25.31	7.34	21938	64176	42238	1.92	22485	61839	39354	1.75

PART VII. TRAINING(2018-19)

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production										
Integrated Crop Management	6	100	50	150	26	6	32	126	56	182
Integrated crop management	4	70	7	77	16	2	18	86	9	95
Mechanisation	1	32	3	35	3	1	4	55	4	39
Cultivation of Fruit	1	19	2	21	4	0	4	23	2	25
Production and Management technology	2	21	21	42	4	4	8	25	25	50
Micro nutrient deficiency in crops	1	19	0	19	5	0	5	24	0	24

Poultry Management	1	0	23	23	0	3	3	0	26	26
Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	1	9	31	40	4	0	4	13	31	44
Value addition	1	0	0	0	32	0	32	32	0	32
Tree climbing	2	35	0	35	5	0	5	40	0	40
Composite fish culture	1	13	4	17	2	0	2	15	4	19
Agriculture subsidiary occupation	3	0	78	78	0	13	13	0	11	11
Agriculture Awareness	1	3	72	75	0	18	18	3	90	93
TOTAL	25	321	291	612	101	47	148	422	338	760

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Integrated Crop Management	3	32	0	32	32	14	46	64	14	78
Production and Management technology	1	15	4	19	1	0	1	16	4	20
Value addition	2	0	36	36	0	9	9	0	45	45
Mushroom cultivation	3	0	52	52	0	10	10	0	62	62
TOTAL	9	47	92	139	3	33	66	80	125	205

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Sericulture	1	13	0	13	2	0	2	15	0	15
Value addition	2	0	36	36	0	9	9	45	0	45
Poultry production	1	0	23	23	0	3	3	0	26	26
TOTAL	4	13	59	72	2	12	14	60	26	86

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Mushroom Production	3	0	52	52	0	10	10	0	62	62
Value addition	1	0	19	19	0	6	6	0	25	25
TOTAL	4	0	71	71	0	16	16	0	87	87

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Protected cultivation technology	1	38	7	45	0	0	0	38	7	45
Women and Child care	1	0	25	25	0	6	6	0	31	31
Mechanization	1	16	6	22	0	0	0	16	6	22
Zero budget Natural farming	1	33	7	40	0	0	0	33	7	40
Total	4	87	45	132	0	6	6	87	51	138

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

7.G. Sponsored training programmes conducted

S.No.	Area of training	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
1	Crop production and management										
1.a.	Increasing production and productivity of crops	1	29	0	29	1	0	1	30	0	30
2	Production and value addition										
2.a.	Fruit Plants	1	19	2	21	4	0	4	23	2	25
2.c.	Spices crops/ plantation crop	2	21	21	42	4	4	8	25	25	50
8	Farm machinery										
8.b.	Tree climbing	2	35	0	35	5	0	5	40	0	40
12	Agricultural Extension										
12.a.	Capacity Building and Group Dynamics	3	0	78	78	0	13	13	0	91	91
	Total	9	104	101	205	14	17	31	118	118	236

Details of sponsoring agencies involved

1. Coffee Board
2. Adventz private limited
3. Coconut Board
4. CHD, GOK

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

S.No.	Area of training	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
4.k.	Sericulture	1	13	0	13	2	0	2	15	0	15
	Grand Total	1	13	0	13	2	0	2	15	0	15

PART VIII – EXTENSION ACTIVITIES(2018-19)

Extension Programmes (including extension activities undertaken in FLD programmes)

Particulars	Programme	Farmers			SCST			Extension		
		M	F	T	M	F	T	M	F	T
Advisory Over Phone	1474	978	202	1180	86	46	132	135	27	162
Bimonthly Meeting	3	0	0	0	0	0	0	46	29	75
Celebration of Important Days	14	809	337	1146	69	56	125	41	24	65
Diagnostic Visit	11	46	3	49	3	2	5	12	0	12
Exhibition	10	26592	6817	33409	4014	3385	7399	659	511	1170
Exposure Visit	14	291	41	332	43	3	46	1	0	1
Farmer/Extn. Pernl. visit to KVK	23	667	128	795	85	48	133	91	18	109
Farmers Seminar/Workshop	4	17	2	19	0	0	0	51	9	60
Field Day	8	190	92	282	1	0	1	10	3	13
Farmers Seminar/Workshop	21	159	159	318	48	36	84	52	40	92
Group Meeting	16	176	62	238	29	15	44	0	0	0
Kisan Mela	1	556	211	767	68	76	144	0	0	0

Kisan Ghosti	1	154	0	154	0	0	0	0	0	0
Lect. Delivered as Resource Person	120	2451	900	3351	190	126	316	62	19	81
Method Demonstration	29	893	352	1245	71	27	98	13	3	16
Scientist visit to farmers field	83	460	77	537	104	8	112	2	0	2
SHC Campaign	1	34	41	75	0	0	0	3	2	5
Celebration of important days										
National nutritional week	1	38	33	71			0			0
Women in agriculture day	1	-	66	66	-	-	0	-	1	1
World soil health day	1	131	37	168	58	36	94	3	1	4
Kisan day	1	93	46	139	-	-	0	2	-	2
World food day	1	4	24	28	-	9	9	2	1	3
Total	1838	34739	9630	44369	4869	3873	8742	1185	688	1873

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)	Paddy	BR-2655	--	8.08	21120	NSP

	Maize	Hytech-5109	----	54	56800	1
	Ragi	ML-365	--	3.8	9200	1
Pulses	Green Gram	KKM-3	-	0.11	385	1
	Black Gram	T-9	--	0.8	280	1
	Horse Gram	PHG-9	--	0.96	3360	1
Commercial crops						
Vegetables	Potato	Kufri Jyothi	--	24.71	44200	1
Fiber crops	Sorghum	COFS 31	--	0.1	4500	4
others	Cucumber	Hassan Local	--	0.02	2900	3
Total				92.58	142745	13

9.B. Production of planting material by the KVKs 2018-19

Crop category	Name of the crop	Variety	Hybrid	Number	Value (Rs.)	Number of farmers to whom provided
Vegetable seedlings	Drumstick	PKM-1	--	9154	109326	181
Fruits	Papaya		Redlady	7156	82178	114
Medicinal and Aromatic	Chakramini	--	--	47	470	16
Fodder crop saplings	Fodder slips	CO-3	--	35940	21780	57
Total				52297	213754	368

9.C. Production of Bio-Products

Bio Products	Name of the bio-product	Quantity (q)	Value (Rs.)	Number of farmers to whom provided
Bio Agents	Tricoderma	1.43	17160	68
	Pseudomonos	0.59	7080	16
	Neem cake	7.71	27000	93
Micronutrient Mixture	Banana Special	3.46	51900	113
	Mango special	0.16	2700	4
	Vegetable special	0.05	750	1
	Ginger Rich	0.68	18600	31
Others	Earthworm	0.21	7750	18
Total		14.29	132940	344

9.D. Production of livestock

Particulars of Livestock	Name of the breed	Number	Value (Rs.)	Number of farmers to whom provided
Poultry	Kadakhath	1999	299900	398
Others (Ltr)	Milk	3348	80359	11

Piggery	---	2	25340	2
Piglet	Yorkshire	24	58800	13
Sheep	Hassan Local	4	22000	2
Total		5377	486399	426

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: 2012-2013 **Periodicity:** Quarterly: **Copies printed in each issue:** 500

(B) Literature developed/published

Item	Number
Popular articles – Local language	21
Extension literature	
Book	4
Folders	7
Training manual	2
News coverage	27
TV	01
Radio programmes	05
TOTAL	67

10.B. Details of Electronic Media Produced

S. No.	Type of media	Title	Details
1	Social media groups with KVK as Admin	Agri technology farmers group	Whats app group for sharing information related to Agriculture
2	Facebook account name	Hassan.kvk	
3	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).

1. Mechanisation in Potato Cultivation for maximization of profit

Name of the farmer: Suresh
 Village: Haruvanahalli, Salagame hobali
 Taluk: Hassan Tq, Hassan Dist
 Age: 36 years
 Qualification: PUC

Problem Identified:

- Poor germination
- Labour intensive
- Rotting of tubers and disease incidence
- Cut tuber planting

Capacity building programmes and educational activities

- ✓ Introduction of whole tuber planting with Potato planter
- ✓ Demonstration of method of planting (0.6 ha) at KVK, kandali farm
- ✓ Training programme (On and Off campus) -7 (223 farmers)
- ✓ Field days-02 (363 farmers)
- ✓ Exposure visits - 07 (223 farmers)
- ✓ Group discussion - 5 (142 farmers)
- ✓ Film Shows – 10 (374 farmers)
- ✓ Field visits-18
- ✓ Publications – 5



Before Intervention	After Intervention
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<p>Cut tuber planting Non Uniform ridges from furrow Small and medium ridges and less moisture Paired row system -30cm*20cm Poor germination %: non uniform depth of sowing Non uniform germination from date of 30 days planting Repetition of inter cultivation and pruning operations Less aeration and sunlight penetration Seed grading & Chemical treatment are not followed Row to row spacing cannot adjust Seed to seed sowing variation One acre sowing takes 1 day Sowing take place in day time only Sowing and intercultivation operation cost is more</p>	<p>Whole tuber planting Uniform ridges 10-11 inch from furrow Bigger ridges and more moisture Paired row system -40cm*20cm Good germination%: uniform depth of sowing Uniform germination from date of 30 days planting One time activity (Sowing, ridges , furrow & fertilizer) one time earthing up in case of heavy rain Good aeration and sunlight penetration Seed grading & Chemical treatment are done Row to row spacing can adjust (2*2 or 2.5*2.0 or 2.5*2.5) Uniform seed to seed sowing is done (7 to 7 inch or 9 to 9 inch) One acre sowing needs 2 hr. only Sowing take place in day or night time Sowing and intercultivation operation cost is low</p>
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Output Details

Sl. No	Cost Item	Unit	Farmer Practice			Improved Practice			
			Unit Cost	No. of Units	Amount	Unit Cost	NO. of Units	Acre	
1	Land Preparation	Duckfoot plough- 5 times	hr	550	5	2750			
		Reversible Plough	hr				850	3	2550
2	Seed		kg	16	600	9600	20	800	16000
3	Seed Preparation	Local (Cutting)	lab	250	3	750			
		Seed grading &	lab				150	2	500

	on:	Chemical for treatment							
4	Planting	Seed bed preparation: tillage by bullock	pairs	500	2	1000			
		Seed bed preparation: Rotavator	hr				750	3	2250
		Planting by labours	lab	250	10	2500			
		Planting by machine + 2 labours	hr				900	3	3300
5	PPC					8700		13200	
6	Spraying		lab	200	4	800	200	8	1600
7	Weeding and interculti vation	Weeding by using labour	lab	250	7	1400			
		Earthing up 2 times with Bullocks	pairs	550	2	1100			
		Weedicide							760
		Earthing up							500
8	Harvesting					8500		4800	
9	Yield Quantity (kg)					5000		8000	
10	Average Price (Rs/kg)					10		10	
Cost of cultivation						37,100			45,460
Gross Returns (Rs)						50,000			80,000
Net Profit						12,900			34,540
B:C ratio						1.35			1.76



Horizontal Spread around Hassan district

Mushroom as a profitable enterprise

Name of the farmer: Darshan K. S.
Village: Vijaynagar, II stage, Belur road Hassan
Taluk: Hassan Tq, Hassan Dist
Age: 28 years
Qualification: M. Tech (Food tech.)

Problem

- Unemployment and small landholders
- Lack of skill on mushroom cultivation

Interventions

- Training
- Method Demonstrations



- Consultancy
- Exposure visits

Technology demonstrated:

- ✓ Paddy straw processing: cutting, boiling and bagging.
- ✓ bundle, spawn, bed preparation, cropping and Harvesting
- ✓ Packing, labeling and marketing
- ✓ Value addition



Sl. No.	Particulars	Rate (Rupees)	Particulars	Rate (Rupees)
	Production cost calculation		Returns calculation	
1.	Seed (Spawn) 30 Kg (80Rs per kg)	2400=00	Total bags of Mushroom produced in one month	360 Bags
2.	Labour Charges for Paddy straw cutting and processing etc	5600=00	Total yield Oyster mushroom	210 Mushroom kgs



3.	Shed Rent	6500=00	Oyster mushroom market rate	Rs. 160 per Kg
4.	Paddy Straw	7500=00	Total income per month	160 X 210 = Rs 33600
5.	Polythen Bags and other material	1850=00	Net Profit (Rs.) per month	33600-23850=9750
	Total	23850	Annual profit Rs.	117000

Average profit per month Rs. 9000-10000

Other benefits:

- ✓ Year round employment generation and self employed
- ✓ Developed as a Local resource personnel and providing training and spawn to rural entrepreneurs

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

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): NIL

10 F. Technology Week celebration during 2018-19:

Period of observing Technology Week: From :17-12.2018 to 22-012.2108

Total number of farmers visited :426

Total number of agencies involved : 13

Number of demonstrations visited by the farmers within KVK campus : 6

Other Details

Types of Activities	No. of Activities	Number of Farmers	Related crop/livestock technology
Lectures organized	02	85	Plantation crops/Millet



Types of Activities	No. of Activities	Number of Farmers	Related crop/livestock technology
Total number of farmers visited the technology week	3	171	Plantation crops and fish cultivation

PART XI – SOIL AND WATER TEST

11.1 Soil and Water Testing Laboratory

A. Status of establishment of Lab :

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

Sl. No.	Nature Of The Equipment	Quantity	Cost
1	pH Meter	1	8,550.00
2	Conductivity Bridge	1	7,400.00
3	Physical Balance	1	12,000.00
4	Top Loading Balance	1	48,900.00
5	Kjeldahl Digestion & Distillation Unit	1	1,67,709.00
6	Flame Photometer	1	35,200.00
7	Spectrophotometer	1	42,000.00
8	Rotary Shaker	1	27,600.00
9	Glass Distillation Unit	1	48,850.00
10	Refrigerator	1	15,850.00
11	Hot Air Oven	1	20,000.00
12	Hot Plate	1	5,500.00
13	Water Bath	1	9,990.00
	Laboratory Wares		
14	Wooden Almirah	1	11,995.00

Sl. No.	Nature Of The Equipment	Quantity	Cost
15	Steel Almirah	1	7,750.00
16	Exhaust Fan	1	1,200.00
17	PUSA soil testing unit	1	75,000.00

B. Details of samples analyzed since establishment of SWTL:

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages
Soil Samples	15733	13828	5825
Water Samples	5753	5439	2900
Plant samples	12	3	3
Manure samples	20	20	9
Copper Sulphate	37	13	14
Lime	254	79	58
Total	21809	19382	8809

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

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages
Soil Samples	850	646	465
Water Samples	625	558	416
Lime	1	1	1
Total	1476	1205	882

11.2 Mobile Soil Testing Kit

A. Date of purchase and current status

Mobile Kits	Date of purchase	Current status
1. PUSA soil testing	2016	Working satisfactory

unit		
-------------	--	--

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.)	850	1000
Farmers benefited (No.)	646	759
Villages covered (No.)	465	521

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	2018-19	465	646	850	850
Mobile Soil Testin Kit	2018-19	465	646	850	850

11.4 World Soil Health Day celebration

Sl. No.	Farmers participated (No.)	Soil health cards issued (No.)	VIPs (MP/ Minister/MLA attended (No.)	Other Public Representatives participated	Officials participated (No.)	Media coverage (No.)
1	81	45	--	4	8	3

PART XII. IMPACT

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

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

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

PART XIII - LINKAGES

13A. Functional linkage with different organizations:NIL

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

Name of the scheme	Date/ Month of initiation	Funding agency	Amount (Rs.)
CHD	2018-19	GOK KSDA	619410

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)
1	Krishi Abhiyana		1		

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

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

13F. Details of linkage with RKVY :NIL

13G. Kisan Mobile Advisory Services

Month	Message type (Text/Voice)	SMS/voice calls sent (No.)						Total SMS/Voice calls sent (No.)	Farmers benefitted (No.)
		Crop	Livestock	Weather	Marketing	Awareness	Other enterprises		

April 2018	Text Message	0	3	0	0	0	5	8	4521
May 2018	Text Message	4	1	0	0	0	1	6	5060
June 2018	Text Message	2	2	0	0	0	4	8	10053
July 2018	Text Message	5	1	0	0	0	1	7	11915
August 2018	Text Message	4	1	0	0	0	2	7	16474
September 2018	Text Message	6	0	0	0	0	3	9	20862
October 2018	Text Message	4	1	0	0	0	3	8	23307
November 2018	Text Message	0	0	0	0	1	4	5	24165
December 2018	Text Message	4	0	0	0	0	1	5	24165
January 2019	Text Message	2	0	0	0	0	3	5	24165
February 2019	Text Message	1	0	0	0	0	0	1	24165
March 2019	Text Message	2	0	0	0	0	0	1	24167
Total		34	9	0	0	1	27	70	24167

PART XIV- PERFORMANCE OF INFRASTRUCTURE IN KVK

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

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

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

Name of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.(Q)	Cost of inputs	Gross income	

Cereals									
Paddy	01.09.2018	04.01.2019	0.47	BR-2655	CS	8.8	8150	21120	
Maize	06.06.2018	16.11.2018	1	HYTECH-5019	Bulk	54	28985	56800	
Ragi	03.08.2018	04.12.2018	0.5	ML-365	Bulk	3.8	9200	In Stock	
Pulses									
Green Gram	05.09.2018	13.11.2018	0.1	KKM-3	Bulk	0.11	Experiment	385	
Black Gram	05.09.2018	13.11.2018	0.1	T-9	Bulk	0.08	Experiment	280	
Horse Gram	22.06.2018	31.12.2018	1.0	PHG-9	Bulk	0.96	2000	3360	
Potato	05.07.2018	13.10.2018	0.6	KufriJyothi	Bulk	24.71	30500	44200	
Cucumber	14.12.2018	16.02.2019	0.1	Hassan-Local	TL Seeds	0.03	1800	2900	
Fodder Sorghum	12.06.2018	12.12.2018	0.01	Cofs-31	Seeds	0.01	2500	4500	

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

Sl. No.	Name of the Product	Qty	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	
1	Trichoderma	143	7150	17160	
2	Psudomonas	59	2950	7080	
3	Earthworm	0.21	8400	1000	
4	Neem cake	7.71	19275	26985	
5	Banana special	3.46	34600	51900	
6	Mango special	0.16	2080	2400	
7	Ginger rich	0.68	14280	18700	
8	Vegetable special	0.05	650	750	

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

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	
1	Piggery	Yorkshire	Piglets	24	24000	76800	
2	Sheep	Hassan local	sheep	4	10000	20000	
3	Poultry	Kadaknath	chicks	1999	123938	299850	

14E. Utilization of hostel facilities

Accommodation available (No. of beds)

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
April 2018	0	0	
May2018	160	2	
June 2018	15	5	
July 2018	63	15	
August2018	17	2	
September2018	0	0	
October 2018	0	0	
November 2018	1	40	
December 2018	26	1	
January 2019	0	0	
February 2019	0	0	
March2019	0	0	

14F. Database management

S.No	Database target	Database created
1	2020	

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

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	Canara Bank	Hassan	05311010	S.B.	45203	573015302	CNRB0000531
With KVK	Corporation Bank	Kandali	190	S.B.	019000101019381	573017303	CORP0000190

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

S. No.	Particulars	Sanctioned	Expenditure	Balance
1	Pay & Allowances	7042000	5855346	1186654
2	Traveling allowances	180000	180000	0
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	232000	227508	4492
B	POL, repair of vehicles, tractor and equipments	250000	246693	3307

<i>C</i>	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	100000	100000	0
<i>D</i>	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	150000	150000	0
<i>E</i>	Frontline demonstration	251000	250670	330
<i>F</i>	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	77000	75500	1500
<i>G</i>	Training of extension functionaries	10000	9960	40
<i>H</i>	Extension Activities	50000	49550	450
<i>I</i>	Soil & water testing & issue of soil health cards	25000	24408	592
<i>J</i>	Maintenance of buildings	50000	49307	693
<i>K</i>	Library	5000	4581	419
GRAND TOTAL		8422000	7223523	1198477

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

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 1st April of each year
April 2016 to March 2017	601714	1290294	1172991	719017
April 2017 to March 2018	719017	996237	1581287	133967
April 2018 to March	133684	3319391	1828275	1624800

16. Details of HRD activities attended by KVK staff

Name of the staff	Designation	Title of the training programme	Institute where attended	Dates
Dr. M. Shivashankar	Scientist (Home Science)	Recent advances in bioformulation	Horticulture college Mysuru	03-12.09.2018
Dr. Rajegowda	Senior scientist and Head	MDP for newly recruited Programme Coordinators of KVKs	ICAR-NAARM	4th to 18th December 2018
Dr. Rajegowda	Senior scientist and Head	II phase-MDP for newly recruited Programme Coordinators of KVKs	ICAR-NAARM	22nd to 31st December 2018
Dr. Rajegowda	Senior scientist and Head	III phase-MDP for newly recruited Programme Coordinators of KVKs	ATATI Bengaluru	04-08 January 2019