

**ANNUAL PROGRESS REPORT - 2015-16**

**(FOR THE PERIOD APRIL 2015 TO MARCH 2016)**

**KRISHI VIGYAN KENDRA, HASSAN**

**PART I - GENERAL INFORMATION ABOUT THE KVK**

**1.1. Name and address of KVK with Phone, Fax and e-mail**

<b>KVK Address</b>	<b>Telephone</b>		<b>E mail</b>	<b>Web Address</b>
Krishi Vigyan Kendra, Kandali, Hassan-573217	Office: 08172-256092	Fax: 08172-256792	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**

<b>Address</b>	<b>Telephone</b>		<b>E mail</b>	<b>Web Address</b>
	<b>Office</b>	<b>Fax</b>		
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**

<b>Name</b>	<b>Telephone / Contact</b>		
	<b>Residence</b>	<b>Mobile</b>	<b>Email</b>
Dr. S.Channakeshava		09449866932/08172- 256092	Channa_2005@rediffmail.com

**1.4. Year of sanction: 1991**

**1.5. Staff Position (as 31<sup>st</sup> March 2016)**

<b>Sl. No.</b>	<b>Sanctioned post</b>	<b>Name of the incumbent</b>	<b>Designation</b>	<b>M/F</b>	<b>Discipline</b>	<b>Highest Qualification</b>	<b>Pay Scale</b>	<b>Basic pay</b>	<b>Date of joining KVK</b>	<b>Permanent /Temporary</b>	<b>Category</b>
1	Programme Coordinator	Dr.S.Channakeshava	SMS	M	Soil Science	M.Sc. (Agril in Soil Science) Ph.D	15600-39100	30230	26.10.2011	Permanent	GEN
2	SMS	Mr.M.Shivashankar	SMS	M	Home Science	M.Sc (Home Science)	15600-39100	30160	22.03.2007	Permanent	SC
3	SMS	Mr. Krishna Reddy G.S.	SMS	M	Agril. Engg.	M.Sc (Agri. Engg.)	15600-39100	23610	01.10.2012	Permanent	OBC
4	SMS	Dr. T.S Manjunatha Swamy	SMS	M	Horticulture	M.Sc (Horti.) Ph.D	15600-39100	23610	17.10.2012	Permanent	SC
5	SMS	Dr. Kantharaja K.J	SMS	M	Animal Science	M.VSc (Livestock management)	15600-39100	22920	30.09.2013	Permanent	SC
6	SMS	Dr. Pankaja H. K	SMS	F	Agril. Extension	M.Sc (Agril. Extn), Ph. D.	15600-39100	22920	23.10.2013	Permanent	GEN
7	SMS	Vacant	SMS	--	Plant protection	--	--	--	--	--	--

8	Programme Assistant	Dr. A.C.Girish	Programme Assistant	M	Programme Assistant	M.Sc. (Agri), Ph.D (Appl. Zoology), PDF	9300- 34800	15670	23.10.2010	Permanent	GEN
9	Programme Assistant (Computer)	Smt. Roopa C.H	Programme Assistant (Computer)	F	Programme Assistant (Computer)	B.Sc. (Computer science)	9300- 34800	15670	22.01.2011	Permanent	GEN
10	Farm Manager	Mr. Jadhav Balaji	Farm Manager	M	Farm Manager	M.Sc (Agril. Extn)	9300- 34800	14330	19.12.2013	Permanent	SC
11	Assistant	Mr. Prakash D.M	Assistant	M	Assistant	B.A	16000-29600	16800	18.03.2016	Permanent	GEN
12	Jr. Stenographer	Mr. MohanKumar E.P	Stenographer Grade III	M	-	M.BA	14500 consolidated	14550 consolidated	04-08-2015	Temporary	OBC
13	Driver	Mr. Vishwanath	Driver	M	-	9th pass	14550-350-26700	17200	17.10.2008	Permanent	SC
14	Driver	Mr.Manjunatha	Driver	M	-	SSLC	11600-200-21000	12250	14.08.2012	Permanent	OBC
15	Supporting staff	Mr. C.E. Ningaraju	Assistant Cook-cum-Caretaker	M	-	7 <sup>th</sup> pass	10400-200-16400	11800	17.10.2008	Permanent	SC
16	Supporting staff	Vacant	Messenger	-	-	-	-	-	-	-	-

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

S. No.	Item	Area (ha.)
1	Buildings	6.15
2.	Demonstration Units	5.00
3.	Crops area	8.49
4.	Orchard/Agro-Forestry	6.00
5.	Others	-

**1.7. Infrastructural Development:**

**A) Buildings**

Sl. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	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	-	-	-

Sl. 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
	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			-		-	-	-
6.	Rain Water harvesting system	ICAR	2008	-		-	-	-
7.	Threshing floor	-	-	-		-	-	-
8.	Farm godown	UAS	1985	-	65000	-	-	-

**B) Vehicles**

<b>Type of vehicle</b>	<b>Year of purchase</b>	<b>Cost (Rs.)</b>	<b>Total kms. Run</b>	<b>Present status</b>
Tractor with traylor (TAFE)	1999	3,13,046.00	5145	Good Condition
Tractor with traylor (TAFE),	Shifted from KVK, Magadi	-	2006.8	Not in Good Condition
Mini Bus (Swaraj Mazda)	2001	6,86,646.00	254196	Good Condition
Jeep (Mahindra Marshal)	2003	3,64,468.00	05143	Good Condition
Motor Cycle (TVS)	2005	50,000.00	51527	Good condition
Motor Cycle (Honda Activa)	2009	49971.00	26786	Good condition

**C) Equipment's & AV aids**

<b>Sl. No.</b>	<b>Name of the Equipment</b>	<b>Year of Purchase</b>	<b>Cost (Rs.)</b>	<b>Present Status</b>
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Sl. No.	Name of the Equipment	Year of Purchase	Cost (Rs.)	Present Status
<b>Farm , Agro Processing and demonstration machines / Units</b>				
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
<b>Audio Visual aids:</b>				
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
<b>Office Equipments &amp; furniture</b>				
1	Refrigerator	2002	28,500.00	Good condition
2	Fax machine	2000	12,702.00	Good condition
3	Computer HCl Pentium Core 160 GB with accessories	2007	33,800.00	Good Condition
4	Photo copying Machine – (E- Studio 163 Toshiba )	2007	42,300.00	Good Condition
5	Konika Minolta Colour Printer	2007	26,520.00	Not in Good Condition
6	Tables 25	2016	88737	Good Condition
7	LCD project	2016	81319	Good Condition
8	Tables and chairs	2016	59500	Good Condition
9	P type chairs 45	2016	48949	Good Condition
10	Visiting chair	2016	35000	Good Condition
11	Revolving chair	2016	49739	Good Condition
12	Dining table	2016	32249	Good Condition
13	Richo Xerox machine	2016	91468	Good Condition
<b>Equipments Purchased under RKVY</b>				
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

Sl. No.	Name of the Equipment	Year of Purchase	Cost (Rs.)	Present Status
6	Computer chairs	2008	3542.00	Good condition
7	LCD	2008	44990.00	Not in Good Condition
8	Motorized screen	2008	23000.00	Good condition
9	Video camera	2008	184000.00	Good condition
10	Voltage stabilizer	2008	5520.00	Good condition
11	Touch screen information KIOSK	2008	124569.00	Not in Good condition
12	Visual production unit	2008	599500.00	Good condition
13	Auto Clave – vertical	2009	28687.50	Good condition
14	Research Microscope M.No. Rx lr – 3B with phase contrast attachment	2009	66555.00	Good condition
15	Laminar airflow PSM Make Horizontal Model	2009	54013.00	Good condition
16	Hot Air Oven PSM make	2009	24166.00	Good condition
17	Micro Pipette	2009	21180	Good condition

#### 1.8. Details SAC meeting conducted in 2015-16:

Sl. No.	Date	Number of Participants	No. of absentees	Salient Recommendations	Action taken
	06.05.2015	15	14	<p>1. Suggested to take up the ICM in mango in farmers field during ensuring year.</p> <p>2. Suggested to take up demonstration on the effect of Micronutrients in Coffee plantation in the ensuring year and present the results in the next SAC meeting.</p> <p>3. It was suggested to contact KVK Chamrajnagar and obtain CFTRI technology and demonstrate it and also create awareness to farmers about the marketing of the produce.</p> <p>4. Discourage high water demanding crops in drive areas and to educate the farmers about reviving technologies of coconut trees</p> <p>5. Suggested to take up quality assessment of fodder crop variety DHN - 6.</p> <p>6. Suggested to rethink the feasibility of taking up of spraying Boron before going for testing the effect of application of Gypsum and Boron in Acid soils of heavy rainfall areas.</p> <p>7. The farmers and officers visiting the farm to take advisory services and inputs should be registered and documented with contact numbers</p> <p>8. Suggested to study the impact of on campus training and present in the related meeting and also suggested to conduct</p>	<p>1)FLD on ICM in Mango is proposed during 2016-17</p> <p>2)OFT on Foliar application of Micronutrient in coffee is proposed during 2016-17 (Action Initiated by SMS(Soil Science))</p> <p>3)Action to be initiated by SMS(Home Science)</p> <p>4)The training programmes have been conducted to create awareness on effective utilization of irrigation water, water harvesting and conservation technologies under rainfed condition.</p> <p>5)Fodder museum on DHN-6 has been established in KVK and quality assessment is in progress.</p> <p>6)Farmers under high rainfall area are ready to take up spray without scarcity of water.</p> <p>7) Action taken and registration is continued.</p> <p>8) Action initiated.</p> <p>9) Action taken and documented.</p>



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## **PART II - DETAILS OF DISTRICT**

## 2.1 Major Farming Systems/Enterprises (Based on the analysis made by the KVK)

Sl. No	Farming system/enterprise
1.	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 Potato / Maize based Cropping System/ Vegetable- Animal husbandry/FCV 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.

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

S. No	Agro Ecological Situation	Characteristics
2	Zone VII AES 2 (RS-HR) AES (RL-HR) 4	<p>Red sandy soil and high rainfall</p> <p>Area covered: Halebeedu and Madihalli hoblies of Belur Taluk, Alur kasaba and Kundur hoblies of Alur Taluk and all five hoblies of Arkalgud taluk</p> <p>Soils: Red sandy soils</p> <p>Rainfall: 941.5 mm</p> <p>Altitude: 579 m to 968 m</p> <p>Major Crops: Paddy, Ragi, Jowar, Maize, Pulses, Groundnut, Sesamum, Sunflower, Cotton, tobacco, Mulberry, Sugarcane, Plantation Crops</p> <p>Area covered: Arehalli, Belur Kasaba and Bikkod Hoblies of Belur Taluk. Palya and K.Hosakote hoblies of Alur Taluk.</p> <p>Soil: Red loamy</p> <p>Rainfall: 1319.3mm</p> <p>Elevation : 960-1052 m</p> <p>Major Crops: Paddy, Ragi, Jowar, Maize, Pulses, Groundnut, Sesamum, Sunflower, Cotton, tobacco, Mulberry, Sugarcane, Plantation Crops</p>
3	AES (RS-MR) -5	<p>All five hoblies of Hassan taluk, all three hoblies of Holenarasipura taluk</p> <p>Soil: Red sandy</p> <p>Rainfall: 796.07 mm</p> <p>Crops: Sesamum, groundnut, Horsegram, Dolichos, Paddy, ragi, jowar, sunflower, cotton, sugarcane, and tobacco</p>
4	AES (Irrigated) 7	<p>Scattered in all Agro Ecological Situations of zone.</p> <p>Soil: Lateritic, Red sandy, Red loamy, Red and Black mix</p> <p>Crop: Paddy, Ragi, Jowar, Groundnut, Sugarcane, Arecanut</p>
5	Adverse soil AES 8	<p>Scattered in all AES of zone; Soil: Saline, acidic, alkaline</p> <p>Crop: paddy</p>
6	Zone 4 AES I	<p>RL - LR</p> <p>Total rainfall is 456 to 717 mm.</p> <p>Most of the rainfall is received from May to October.</p> <p>Elevation: 800 – 900 m in major areas and 450-800 m in remaining areas.</p> <p>Soils are red sandy loam and deep black in remaining areas</p> <p>Crops-Jowar, groundnut, redgram, pulses, small millets, sugarcane, paddy, cotton, ragi, wheat, maize and plantations</p>

S. No	Agro Ecological Situation	Characteristics
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 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.	64364
2	Entisols		7713
3	Inceptisols		41438

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

Crop	Production	Production Unit	Productivity	Productivity Unit
Paddy	211229.2	kgs	9332	kg/ha
Ragi	156584.7	kgs	7392	kg/ha
Maize	264178.5	kgs	9540	kg/ha
Horse Gram	4388.15	kgs	559	kg/ha
Redgram	947.7	kgs	486	kg/ha
Green gram	2676.75	kg	516	kg/ha
Sugarcane	49028	kgs	23427.5	t/ha
Potato	16245	kgs	161578.78	t/ha
Tomato	1911	kgs	67409	t/ha
Chilli	1927	kgs	26160	t/ha
Cucumber	415	kgs	6580	t/ha
Banana	1078	kgs	42592	t/ha
Coconut	63056	kgs	3760	t/ha

## 2.5. Weather data

Year 2015-16	Temp.min	Temp.max	Rh	Rain fall mm
April	17.93	35.4	48.19	114.2
May	19.88	35.4	72.12	83.6
June	18.38	31.53	83.2	184
July	18.02	28.4	87.16	5.8
August	19.02	28.7	87.87	113.6
September	20.17	29.16	87.86	73.2
October	21.01	30.93	86.35	66.8
November	19.78	30.12	87.76	9.2
December	17.53	31.81	83.41	0
January	11.2	30.48	67.19	0
February	14.15	32.97	81.44	0
March	83.31	34.09	82.03	0
<b>Total</b>	<b>23.365</b>	<b>31.5825</b>	<b>79.54833</b>	<b>650.4</b>

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

Category	Population	Production	Productivity
<b>Cattle</b>			
Crossbred	181594	1452752	12-15 liter/cow/day
Indigenous	536834	-	2-3 liter/cow/day
Buffalo	217143	-	3-4 liter/cow/day
<b>Sheep</b>			
Crossbred	-	-	-
Indigenous	228109	3650 tons meat/year	28-32 kgs of body weight animal
Goats	149859	7193 Tons meat/year	32-38 Kgs of body weight/animal
<b>Pigs</b>			
Crossbred	2822	254 tons of pork/year	80-100 Kgs of body weight/animal

Category	Population	Production	Productivity
Indigenous	-	-	-
<b>Rabbits</b>	778	-	2.5-3 Kgs of body weight/animal
<b>Poultry</b>			
Hens	-	-	-
Desi	585799	-	50-60 eggs/hen/year
Improved	-	-	-
Ducks	-	-	-
Turkey and others	-	-	-

Category	Area	Production	Productivity
Fish	2100 ha	8924 MT	0.424 MT
Marine	-	-	-
Inland	-	-	-
Prawn	-	-	-
Scampi	-	-	-
Shrimp	-	-	-

\* Livestock census 2007

2.7 District Profile has been Updated for 2013-14 Yes / No: Yes

2.8 Details of Operational area / Villages

Sl.No.	Taluk/ block	Name of cluster villages		Major crops & enterprises being practiced	Major problems identified	Identified thrust areas based on problems	If existing from which year Please state
		Existing	New				
1	Hassan	Channagihalli	Holethimanehalli Handinakere	Maize, Potato, Ragi,Ginger Avare, Cowdea	Imbalanced Nutrient Management Dead heart due to shoot borer Malnourishment & nutrition deficiency Low yield	INM IPM Kitchen garden Nutrition garden ICM	2014-15
2	Arkalagud	--	Ganjalagudu,Rangapur a Aladahalli	Banana,Paddy	Nutrient deficiency Micro nutrient deficiency Low yield due to local variety Imbalanced Nutrient Management,	INM ICM	2015-16

Sl.No.	Taluk/ block	Name of cluster villages		Major crops & enterprises being practiced	Major problems identified	Identified thrust areas based on problems	If existing from which year Please state
		Existing	New				
3	Belur	--	Malladevara hosalli Kannayakanahalli	Paddy, French bean, Bottle gourd Chilli	Non awareness of value addition, branding & marketing Stem borer menae Low yield	IPM  ICM	2015-16
4	Sakleshpura	Hosagadde, Sakaleshpura	Madnakere	Paddy, Dairy	Imbalanced Nutrient Management Non adoption of CFC & Poor Management Low yield nutritional deficiency Delayed sexual maturity Disease Incidences	INM & nutrition management in dairy animals	2014-15
5	Holenarasipura	--	Nagalapura		Menace disease & insects	IPM	2015-16
6	Alur	--	Bavasavalli	Pepper	Imbalanced Nutrient Management	INM	2015-16

## 2.9 Priority thrust areas

Sl.No	Thrust area
1	Insect Pest and Disease Management
2	Integrated Crop Management
3	Mechanization
4	Integrated Nutrient Management
5	Value Addition
6	Diseases management in poultry birds
7	Integrated management in piggery
8	Infertility in dairy animals
9	Fresh water Fish culture
10	Information Communication Technology
11	Human Resource Development

## PART III - TECHNICAL ACHIEVEMENTS

### 3.A. Details of target and achievements of mandatory activities

OFT	FLD
1	2

Number of OFTs		Number of farmers		Number of FLDs		Number of farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
3	3	10	10	20	20	150	139

Training				Extension Programmes			
3				4			
Number of Courses		Number of Participants		Number of Programmes		Number of participants	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
36	67	900	1091	453	67775	1355	1055765

Seed Production (Qtl.)			Planting materials (Nos.)		
5			6		
Particulars	Target	Achievement	Particulars	Target	Achievement
Paddy, Ragi, Redgram, Sunhemp, Cowpea	70	37	Nursery seedling production	59,000	17520

Livestock, poultry strains and fingerlings (L./No.)			Bio-products (Kg)		
7			8		
Particulars	Target	Achievement	Particulars	Target	Achievement
Dairy	9760 liters milk	1592	Earth worms	100kg	18.5
Piggery	100 piglets	31			
Poultry	3000 birds`	1213			
Rabbit	60 young ones	--			
Sheep	10 lambs	--			

### 3.B1. Abstract of interventions undertaken based on thrust areas identified for the district as given in Sl.No.2.7

Sl. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions									
				Title of OFT if any	Title of FLD if any	Number of Training (farmers)	Number of Training (Youths)	Number of Training (Extension personnel)	Extension activities (No.)	Supply of seeds (Qtl.)	Supply of planting materials (No.)	Supply of livestock (No.)	Supply of bio products
1	INM	Potato	Low yield due to Zinc , Mn &	Assessment of foliar spray of	--	2	--	--	3	--	--	--	--



Sl. 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
			Boron deficiency	vegetable special in Potato									
2	INM	Ginger	Effect of Foliar Spray of Micronutrient Mixture in Ginger	Effect of Foliar Spray of Micronutrient Mixture in Ginger	--	2	--	--	4	--	--	--	--
3	Varietal evaluation	Chilli	Low yield	Assesment of chilli hybrid KBCH-1	--	1	--	--	2	300gm	--	--	--
4	INM	Maize	Imbalanced Nutrient Management	--	Soil Test Based Nutrient Management in Maize	1	--	--	4	--	--	--	--
5	Marketing linkages	Maize	Non awareness of value addition, branding & marketing	--	Value addition, Branding & marketing linkages in Maize	1	--	--	3	--	--	--	--
6	INM	Paddy	Imbalanced Nutrient Management	--	Integrated Nutrient Management in Paddy	2	--	--	5	--	--	--	--
7	IPM	Paddy	Stem borer menace	--	Management of stem borer in paddy	1	--	--	4	--	--	--	--
8	Varietal introduction	Ragi	Low Yield	--	Demonstration of Drought Tolerant Ragi	3	--	--	5	5 kgs	--	--	--

Sl. 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
					: ML-365								
9	Varietal introduction	Paddy	Low Yield	--	Demonstration of KRH-4 hybrid paddy	3	--	--	4	6 kgs	--	--	--
10	INM	Potato	Low yield due to Imbalanced Nutrient Management	--	Soil Test Based Nutrient Management in Potato	1	--	--	4	--	--	--	--
11	INM	Banana	low yield due to Micro nutrient deficiency	--	Integrated Nutrient Management in Banana	2	--	--	4	--	--	--	--
12	Varietal introduction	Chilli	Low yield	--	Demonstration of Chilli hybrid Arka kyathi	1	--	--	3	250 g	--	--	--
13	Varietal introduction	French bean	Low yield due to poor yielding local variety	--	Demonstration of French Bean Variety Arka Sharath	2	--	--	3	40 kg	--	--	--
14	Varietal introduction	Bottle gourd	Low yield	--	Demonstration of Bottle gourd variety Arka bahar	1	--	--	2	4.5 kg	--	--	--
15	ICM	Cucumber	Menace of Disease & insects	--	Integrated crop management	2	--	--	2	--	--	--	--

Sl. 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
					in Cucumber								
16	Varietal introduction	Hebbal avare	Low Yield	--	Demonstration of Hebbal Avare-4	2	--	--	4	12 kg	--	--	--
17	IPM	Ginger	Dead heart due to shoot borer	--	Management of Shoot Borer in Ginger	3	--	--	3	--	--	--	--
18	INM	Pepper	Imbalanced Nutrient Management	--	Foliar Spray of Pepper special in Pepper	1	--	--	4	--	--	--	--
19	Varietal introduction	Fish	Non adoption of CFC & Poor Management	--	Demonstration of Composite Fish Cultivation	2	--	--	2	--	--	Fingerlings 12,000	--
20	Food security	Nutrition garden	Malnourishment & nutrition deficiency	--	Demonstration of Nutrition Garden in Schools	1	--	--	3	--	--	--	--
21	Nutrition management	Terrace garden	Malnourishment & nutrition deficiency	--	Demonstration of Terrace gardening in urban area	1	--	--	2	--	--	--	--
22	Dairy nutrition management	Dairy	Low yield Nutritional deficiency	--	Demonstration of Area Specific Mineral	2	--	--	3	--	--	--	--

Sl. 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
					Mixture in Milch Animals								
23	Dairy mangement	Dairy	Delayed sexual maturity & Disease Incidences	--	Integrated Calf Management	2	--	--	3	--	--	--	--

### 3.B2. Details of technology used during reporting period

Sl. No.	Title of Technology	Source of technology	Crop/enterprise	No. of programmes conducted			
				OFT	FLD	Training	Others (Specify)
1	2	3	4	5	6	7	8
1	Assessment of foliar spray of vegetable special in Potato	UAS(B) ,UAS(B) + IISR Calicut	Potato	1	--	2	
2	Effect of Foliar Spray of Micronutrient Mixture in Ginger	UAS(B) ,UAS(B) + IISR Calicut	Ginger	1	--	2	
3	Assesment of chilli hybrid KBCH-1	IIHR, UAS(B)	Chilli	1	--	1	
4	Soil Test Based Nutrient Management in Maize	UAS(B)	Maize	--	1	1	
5	Value addition, Branding & marketing linkages in Maize		Maize	--	1	1	
6	Integrated Nutrient Management in Paddy	UAS(B)	Paddy	--	1	2	
7	Management of stem borer in paddy	UAS(B)	Paddy	--	1	1	
8	Demonstration of Drought Tolerant Ragi : ML-365	UAS(B)	Ragi	--	1	3	
9	Demonstration of KRH-4 hybrid paddy	UAS(B)	Paddy	--	1	3	
10	Soil Test Based Nutrient Management in Potato	UAS(B)	Potato	--	1	1	
11	Integrated Nutrient Management in Banana	UAS(B)& IIHR(B)	Banana	--	1	2	
12	Demonstration of Chilli hybrid Arka kyathi	IIHR(B)	Chilli	--	1	1	
13	Demonstration of French Bean Variety Arka Sharath	IIHR(B)	French bean	--	1	2	
14	Demonstration of Bottle gourd variety Arka bahar	IIHR(B)	Bottle gourd	--	1	1	
15	Integrated crop management in Cucumber	UAS(B)	Cucumber	--	1	2	
16	Demonstration of Hebbal Avare-4	UAS(B)	Hebbal avare	--	1	2	
17	Management of Shoot Borer in Ginger	UAS(B)	Ginger	--	1	3	
18	Foliar Spray of Pepper special in Pepper	UAS(B), IISR Calicut	Pepper	--	1	1	
19	Demonstration of Composite Fish Cultivation	UAS(B)	Fish	--	1	2	

Sl. No.	Title of Technology	Source of technology	Crop/enterprise	No. of programmes conducted			
				OFT	FLD	Training	Others (Specify)
20	Demonstration of Nutrition Garden in Schools	UAS(B)	Nutrition garden	--	1	1	
21	Demonstration of Terrace gardening in urban area	UAS(B)	Terrace garden	--	1	1	
22	Demonstration of Area Specific Mineral Mixture in Milch Animals	KVAFSU, Bidar	Dairy	--	1	2	
23	Integrated Calf Management	KVAFSU, Bidar	Dairy	--	1	2	

### 3.B2 contd..

Sl. No.	No. of farmers covered															
	OFT				FLD				Training				Others (Specify)			
	General		SC/ST		General		SC/ST		General		SC/ST		General		SC/ST	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
1	5	0	0	0	--	--	--	--	41	5	9	5				
2	2	0	0	0	--	--	--	--	39	0	3	5				
3	2	0	1	0					0	16	0	6				
4	--	--	--	--	4	--	--	--	21	--	--	1				
5	--	--	--	--	--	1	--	9	--	1	8	21				
6	--	--	--	--	9	--	1	--	8	4	25	15				
7	--	--	--	--	20	--	--	--	6	0	12	7				
8	--	--	--	--	--	5	--	--	9	38	--	--				
9	--	--	--	--	4	5	0	1	31	19	15	14				
10	--	--	--	--	4	--	1	--	20	4	6	0				
11	--	--	--	--	5	0	0	0	44	0	7	0				
12	--	--	--	--	4	0	1	0	20	6	4	0				
13	--	--	--	--	2	3	0	0	26	12	8	0				
14	--	--	--	--	4	0	1	0	20	4	6	0				
15	--	--	--	--	11	0	0	0	54	4	6	0				
16	--	--	--	--	5	0	0	0	3	40	5	11				
17	--	--	--	--	7	0	0	0	44	11	3	0				
18	--	--	--	--	9	1	0	0	11	2	0	0				
19	--	--	--	--	5	0	0	0	28	4	6	3				
20	--	--	--	--	4	0	0	0	20	--	--	--				
21	--	--	--	--	11	0	0	0	22	--	--	--				
22	--	--	--	--	3	0	0	0	36	9	4	2				
23	--	--	--	--	3	0	0	0	37	9	2	7				

#### **PART IV – On Farm Trial**

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

<b>Thematic areas</b>	<b>Cereals</b>	<b>Oilseeds</b>	<b>Pulses</b>	<b>Commercial Crops</b>	<b>Vegetables</b>	<b>Fruits</b>	<b>Flower</b>	<b>Plantation crops</b>	<b>Tuber Crops</b>	<b>TOTAL</b>
Assessment of foliar spray of vegetable special in Potato	-	-	-	-	01	-	-	-	-	01
Effect of Foliar Spray of Micronutrient Mixture in Ginger	-	-	-	01	-	-	-	-	-	01
Assesment of chilli hybrid KBCH-1	-	-	-	-	01	-	-	-	-	01
	-	-	-	-	-	--	-	-	-	--
<b>Total</b>	<b>--</b>	<b>-</b>	<b>-</b>	<b>01</b>	<b>02</b>	<b>--</b>	<b>-</b>		<b>-</b>	<b>03</b>

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

<b>Thematic areas</b>	<b>Cereals</b>	<b>Oilseeds</b>	<b>Pulses</b>	<b>Commercial Crops</b>	<b>Vegetables</b>	<b>Fruits</b>	<b>Flower</b>	<b>Plantation crops</b>	<b>Tuber Crops</b>	<b>TOTAL</b>
Integrated Nutrient Management	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

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

<b>Thematic areas</b>	<b>Cattle</b>	<b>Poultry</b>	<b>Piggery</b>	<b>Rabbitry</b>	<b>Fisheries</b>	<b>TOTAL</b>
<b>TOTAL</b>	<b>-</b>			<b>-</b>	<b>-</b>	<b>1</b>

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

<b>Thematic areas</b>	<b>Cattle</b>	<b>Poultry</b>	<b>Piggery</b>	<b>Rabbitry</b>	<b>Fisheries</b>	<b>TOTAL</b>
<b>TOTAL</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

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

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

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha (Per trail covering all the Technological Options)
Integrated Nutrient Management	Ginger	Effect of Foliar Spray of Micronutrient Mixture in Ginger	3	02	0.8
	Potato	Assessment of foliar spray of vegetable special in Potato	3	05	2.0
Varietal Evaluation	Chilli	Assesment of chilli hybrid KBCH-1	3	3	1.8
<b>Total</b>	-	-	17	10	1.3

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

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha (Per trail covering all the Technological Options)
Integrated Nutrient Management	-	-	-	-	-
	-	-	-	-	-
<b>Total</b>	-	-	-	-	-

##### 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	-	-	-	-
<b>Total</b>				

##### 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	-	-	-	-
<b>Total</b>	-	-	-	-



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

##### Results of On Farm Trial-1:

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Potato	Rainfed	Low yield due to micronutrient deficiency	Assessment of foliar spray of vegetable special in potato	02	T1- Farmers practice Application of fertilizer 160:140:75NPK/ha T2- RDF: 75:75:100 NPK kg/ha T3- RDF: 75:75:100 NPK kg/ha+ foliar spray of vegetable special@ 5 g/l at tuberization(2 sprays 15 days interval	No.of tubers/plant	T1:4.8 T2:6.4 T3:10.0	Yield T1: 88.2 T2: 95.8 T3: 95.8	Farmers accepted the techonology as he can get an additional income of Rs.38,100 with alternate technology compared to farmers practice		

##### Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / ha	BC Ratio
13	14	yield			18
T1- Farmers practice Application of fertilizer 160:140:75NPK/ha	--	88.2	q/ha	69800	2.29
T2- RDF: 75:75:100 NPK kg/ha	UAS(B)	95.8	q/ha	79200	2.40
T3- RDF: 75:75:100 NPK kg/ha+ foliar spray of vegetable special@ 5 g/l at tuberization(2 sprays 15 days interval	IIHR(B)	115.4	q/ha	104300	2.77

#### 4.C2. Details of each On Farm Trial for assessment to be furnished in the following format separately as per the following details

1	Title of Technology Assessed:	Assessment of foliar spray of vegetable special in potato
2	Problem Definition:	Low yield due to micronutrient deficiency
3	Details of technologies selected for assessment:	T1- Farmers practice Application of fertilizer 100:75:60 NPK/ha T2- RDF: 75:75:100 NPK kg/ha T3- RDF: 75:75:100 NPK kg/ha+ foliar spray of vegetable special@ 5 g/l at tuberization(2 sprays 15 days interval
4	Source of technology	UAS(B)+ IIHR(B)
5	Production system and thematic area	Nutrient management In Potato
6	Performance of the Technology with performance indicators	Pl height,No. of tubers/pl,Tuber weight
7	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	Application of RDF and vegetable special along with increasing yield by 30.38 % compared to farmers practice
8	Final recommendation for micro level situation:	
9	Constraints identified and feedback for research:	-
10	Process of farmers participation and their reaction:	

#### **Results of On Farm Trial – 2: Effect of Foliar Spray of Micronutrient Mixture in Ginger**

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Ginger	Rainfed	Low yield due to micronutrient deficiency(Zn &B)	Effect of Foliar Spray of Micronutrient Mixture in Ginger	02	T1: Farmers Practice (NPK only 120:80:80 kg/ha) T2: Application of RDF (100:50:50 NPK kg/ha) T3 : RDF+ Foliar Spray of Ginger special @ 5g/lit at 60,90 & 120 days after planting	Plant height (cm)  Number of tiller/plant  Number of finger /plant	T1:63 T2:66 T3:63  T1:22.4 T2:25 T3:28  T1:38.2 T2:45 T3:54	T1: 15.3 T2: 17.2 T3: 18.25	Application of RDF (100:50:50 NPK kg/ha) along with foliar spray of ginger special has increasing yield by 19.28% over farmer practice		

Contd..

Technology Assessed	Source of Technology	Production	Color of Turmeric figures	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
T1: Farmers Practice (NPK only 120:80:80 kg/ha)	-----	15.3	t/ha	2,79,880	3.90
T2: Application of RDF (100:50:50 NPK kg/ha)	UAS (B)	17.2	t/ha	3,15,120	3.91
T3 : RDF+ Foliar Spray of Ginger special @ 5g/lit at 60,90 & 120 days after planting	UAS(B) + IISR Calicut	18.25	t/ha	3,37,950	4.04

**4.C2. Details of each On Farm Trial for assessment to be furnished in the following format separately as per the following details**

- 1 Title of Technology Assessed: Effect of Foliar Spray of Micronutrient Mixture in Ginger
- 2 Problem Definition: Low yield due to micronutrient deficiency(Zn &B)
- 3 Details of technologies selected for assessment: T1: Farmers Practice (NPK only 120:80:80 kg/ha)  
T2: Application of RDF (100:50:50 NPK kg/ha)  
T3 : RDF+ Foliar Spray of Ginger special @ 5g/lit at 60,90 & 120 days after planting
- 4 Source of technology: UAS(B), UAS(B) + IISR Calicut
- 5 Production system and thematic area: Integrated nutrient management
- 6 Performance of the Technology with performance indicators:
- 7 Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques
  - ✓ Yield levels increased due to foliar spray of Ginger Spl.
  - ✓ Farmer got an additional income Rs.59,535/ha.
  - ✓ Reduction in fertilizer application by 35-40 %
  - ✓ Saving of fertilizer Urea: 398 tonnes,520 tonnes, 398.4 tonnes from 8000 ha
  - ✓ Total amount saved Rs 1297/ha towards NPK
- 8 Final recommendation for micro level situation:
- 9 Constraints identified and feedback for research:
- 10 Process of farmers participation and their reaction:

**Results of On Farm Trial-3: Assessment of Chilli hybrid KBCH-1**

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Chilli	irrigation	Low yield	Assessment of Chilli hybrid KBCH-1	2	T1:Priyanka T2:Arka Kyathi T3: KBCH-1	In progress					

**Contd..**

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm,	Net Return (Profit) in Rs. /	BC Ratio
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			nuts/palm/year)	unit	
13	14	15	16	17	18
<b>To-1:</b> Priyanka	Private		t/ha		
<b>To-2:</b> Arka Kyathi	IIHR Bangalore				
<b>To-3</b> KBCH-1	UAS(B)				

**4.C2. Details of each On Farm Trial for assessment to be furnished in the following format separately as per the following details**

1	Title of Technology Assessed:	Assessment of Chilli hybrid KBCH-1
2	Problem Definition:	Low yield
3	Details of technologies selected for assessment:	T1:Priyanka T2:Arka Kyathi T3: KBCH-1
4	Source of technology	UAS(B)
5	Production system and thematic area	Varietal evaluation
6	Performance of the Technology with performance indicators	
7	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	
8	Final recommendation for micro level situation:	
9	Constraints identified and feedback for research:	-
10	Process of farmers participation and their reaction:	

**4.D1. Results of Technologies Refined**

**Results of On Farm Trial**

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology refined	Parameters of refined t	Data on the parameter	Results of refinement	Feedback from the farmer	Details of refinement done
1	2	3	4	5	6	7	8	9	10	11

**Contd..**

Technology Refined	Source of Technology for Technology Option1 / Justification for modification of assessed Technology Option 1	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13		14	15	16	17
Technology Option 1 (best performing Technology Option in assessment)					
Technology Option 2 (Modification over Technology Option 1)					
Technology Option 3 (Another Modification over Technology Option 1)					

**4.D.2. Details of each On Farm Trial for refinement to be furnished in the following format separately as per the following details:**

1. Title of Technology refined
2. Problem Definition
3. Details of technologies selected for refinement
4. Source of technology
5. Production system and thematic area
6. Performance of the Technology with performance indicators
7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques
8. Final recommendation for micro level situation
9. Constraints identified and feedback for research
10. Process of farmers participation and their reaction

## PART V – FRONTLINE DEMONSTRATIONS

### 5.A. Summary of FLDs implemented during 2015-16

Sl. No.	Category	Farming Situation	Season and Year	Crop	Variety/ breed	Hybrid	Them atic area	Technology Demonstrated	Area (ha)/ Units		No. of farmers/ demonstration			Reasons for shortfall in achievement
									Proposed	Actual	SC/ST	Others	Total	
1	Cereals	Rainfed	Kharif 2015	Maize	-	Ganga Kaveri	Soil Test Based Nutrient Management in Maize	Soil test based NPK(100:50:25 kg/ha) Zinc Sulphate @ 4 kg/acre	4.0	4.0	--	4	4	-
2	Cereals	Rainfed	Kharif 2015	Maize	-	--	Value addition, Branding & marketing linkages in Maize	Processing, value addition, Packaging and branding	2 SH GS	2 SHGS	--	2	2	
3	Cereals	Irrigated	Kharif 2015	Paddy	--	BR-2655	Integrated Nutrient Management in Paddy	Soil test based NPK Green manuring (Sunhemp) Biofertilizer (PSB & Azospirillum) Zinc sulphate @ 20 kg /ha	4.0	4.0	1	9	10	-
4	Cereals	Irrigated	Kharif 2015	Paddy	Tunga	--	Management of stem borer in paddy	Flubendiamide 480 SC @ 50ml/ha.	4.0	4.0	--	20	20	
5	Cereals	Irrigated	Kharif 2015	Ragi	ML-365	-	Demonstration of Drought Tolerant Ragi : ML-365	ML-365, ZnSO <sub>4</sub> , Borax	2.0	2.0	05	05	5	
6	Cereals	Rainfed	Kharif 2015	Paddy	KRH-4		Demonstration of KRH-4 hybrid paddy	KRH-4, ZnSO <sub>4</sub>	4.0	4.0	1	9	10	
7	Vegetables	Rainfed	Kharif 2015	Potato	K.Jyothi	-	Soil Test Based Nutrient Management in Potato	RDFYM(10 t/ha) Soil test based NPK (75:75:100 kg/ha)	4.0	4.0	1	4	5	
8	Horticulture	Irrigated	Kharif 2015	Banana	G.Naine (Tissue culture plant)	--	Integrated Nutrient Management in Banana	Soil test based NPK (180:105:225 g/plant) A M consortia @ 20 g/l(Soil Appl.) Banana special (5g/l) ,Bunch feeding with Urea & SOP @ 7.5 g/b	4.0	4.0	0	5	5	
9	Horticulture	Irrigated	Summer 2016	Chilli	--	Arka kyathi	Demonstration of Chilli hybrid Arka kyathi	Arka kyathi seed 250 g/ha	1.0	1.0	1	4	5	

Sl. No.	Category	Farming Situation	Season and Year	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Area (ha)/ Units		No. of farmers/ demonstration			Reasons for shortfall in achievement
									Proposed	Actual	SC/ST	Others	Total	
10	Horticulture	Irrigated	Rabi 2015	French bean	Arka sharath	--	Demonstration of French Bean Variety Arka Sharath	Arka Sharath (Seed) 40 Kg/ha	0.50	0.50	--	5	5	
11	Horticulture	Irrigated	Summer 2016	Bottle gourd	Arka bahar	--	Demonstration of Bottle gourd variety Arka bahar	Arka bahar (Seed) 4.5 Kg/ha	1.0	1.0	--	5	5	
12	Horticulture	Irrigated	Rabi 2015	Cucumber	Hassan local	--	Integrated crop management in Cucumber	RDF(60:50:80 NPK kg/ha) Trichoderma 12.5 kg Pseudomonas 12.05 kg Lambda cyhalothrin 500ml Fruit fly trap @ 15/ha	2.0	2.0	--	11	11	
13	Pulses	Rained	Kharif 2015	Hebbal Avare	--		Demonstration of Hebbal Avare-4	Hebbal Avare-4	4.0	4.0	--	5	5	
14	Horticulture	Irrigated	Kharif 2015	Ginger	Rio – de- Janaero	-	Management of Shoot Borer in Ginger	Management of Shoot Borer in Ginger using Lambda cyhalothrin	1.4	1.4	0	7	7	
15	Spices	Irrigated	Kharif 2015	Pepper	Panniyur		Foliar Spray of Pepper special in Pepper	Soil test based fertilizer (100:40:150 gm of NPK) per vine Foliar spray of pepper special @ 5gm/ltr. for 3times/year	4.0	4.0	0	10	10	
16	Fisheries	Irrigated	Kharif 2015	Fisheries	Catla, Rohu, Common carp	-	Demonstration of Composite Fish Cultivation	High yielding varieties (2:1:1) Catla, Rohu, Common carp	8 unit	8 unit	3	5	8	
17	Nutrition	--	Kharif 2015	Nutrition garden	--	--	Demonstration of Nutrition Garden in Schools	Kitchen garden kit Perennial crops	2 gunt	2 gunt	--	5	5	
18	Terrace gardening	--	Kharif 2015	Demonstration Terrace garden in urban area	--	--	Demonstration of Terrace gardening in urban area	Vegetable seed kit Protrays, Fibre pots	11	11	--	11	11	
19	Animal Science	--	Kharif 2015	Dairy	-	HF cross	Demonstration of Area Specific Mineral Mixture in Milch Animals	Concentrate Pellet feeds , Area specific mineral mixture	15 no	15 no	0	3	3	
20	Animal	--	Kharif	Dairy	--	HF cross	Integrated Calf	Ivermectin injection,	15	15	0	3	3	



Sl. No.	Category	Farming Situation	Season and Year	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Area (ha)/ Units		No. of farmers/ demonstration			Reasons for shortfall in achievement
									Proposed	Actual	SC/ST	Others	Total	
	Science		2015				Management	Vitamins, Area specific Mineral mixture & Vaccines	no	no				

#### 5.A. 1. Soil fertility status of FLDs plots during 2014-15

Sl. No.	Category	Farming Situation	Season and Year	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Season and year	Status of soil (kg/ha)			Previous crop grown
										N	P	K	
1	Cereals	Rainfed	Kharif 2015	Maize	-	Ganga Kaveri	Soil Test Based Nutrient Management in Maize	Soil test based NPK(100:50:25 kg/ha) Zinc Sulphate @ 4 kg/acre	Kharif 2015	289.5	34.8	147.6	Ragi
2	Cereals	Rainfed	Kharif 2015	Maize	-	--	Value addition, Branding & marketing linkages in Maize	Processing, value addition, Packaging and branding	Kharif 2015	--	--	--	--
3	Cereals	Irrigated	Kharif 2015	Paddy	--	BR-2655	Integrated Nutrient Management in Paddy	Soil test based NPK Green manuring (Sunhemp) Biofertilizer (PSB & Azospirillum) Zinc sulphate @ 20 kg /ha	Kharif 2015	280	38	149	Sunhemp
4	Cereals	Irrigated	Kharif 2015	Paddy	Tunga	--	Management of stem borer in paddy	Flubendiamide 480 SC @ 50ml./ha.	Kharif 2015	292	42	165	Sunhemp
5	Cereals	Irrigated	Kharif 2015	Ragi	ML-365	-	Demonstration of Drought Tolerant Ragi : ML-365	ML-365, ZnSO <sub>4</sub> , Borax	Kharif 2015	301	62	194	Maize

Sl. No.	Category	Farming Situation	Season and Year	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Season and year	Status of soil (kg/ha)			Previous crop grown
										N	P	K	
6	Cereals	Rainfed	Kharif 2015	Paddy	KRH-4		Demonstration of KRH-4 hybrid paddy	KRH-4, ZnSO <sub>4</sub>	Kharif 2015	312	52.5	141.5	Sunhemp
7	Vegetables	Rainfed	Kharif 2015	Potato	K.Jyothi	-	Soil Test Based Nutrient Management in Potato	RDFYM(10 t/ha) Soil test based NPK (75:75:100 kg/ha)	Kharif 2015	281	36	142	Cowpea
8	Horticulture	Irrigated	Kharif 2015	Banana	G.Naine (Tissue culture plant)	--	Integrated Nutrient Management in Banana	Soil test based NPK (180:105:225 g/plant) A M consortia @ 20 g/l(Soil Appl.) Banana special (5g/l) ,Bunch feeding with Urea & SOP @ 7.5 g/b	Kharif 2015	318	38	169	Beans
9	Horticulture	Irrigated	Summer 2015	Chilli	Arka kyathi local	--	Demonstration of Chilli hybrid Arka kyathi	Arka kyathi seed 250 g/ha	Summer 2015	294	48	152	Maize
10	Horticulture	Irrigated	Rabi 2015	French bear	--	Arka Suvidha	Demonstration of French Bean Variety Arka Sharath	Arka Suvidha(Seed) 40 Kg/ha	Rabi 2015	278	58	172	Ragi
11	Horticulture	Irrigated	Summer 2015	Bottle gour	--	Arka bahar	Demonstration of Bottle gourd variety Arka bahar	Arka Sharath (Seed) 40 Kg/ha	Summer 2015	298	59.5	146.5	Ridgegours
12	Horticulture	Irrigated	Rabi 2015	Cucumber	Hassan	--	Integrated crop management in	RDF(60:50:80 NPK kg/ha)	Rabi 2015	315	32.5	178	Maize

Sl. No.	Category	Farming Situation	Season and Year	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Season and year	Status of soil (kg/ha)			Previous crop grown
										N	P	K	
					local		Cucumber	Trichoderma 12.5 kg Pseudomonas 12.05 kg Lamda cyhalothrin 500ml Fruit fly trap @ 15/ha					
13	Pulses	Rained	Kharif 2015	Hebbal Avare-4	--		Demonstration of Hebbal Avare-4	Hebbal Avare-4	Kharif 2015	288	36.5	140.8	Cowpea
14	Horticulture	Irrigated	Kharif 2015	Ginger	Rio – de-Janaero	-	Management of Shoot Borer in Ginger	Management of Shoot Borer in Ginger using Lambda cyhalothrin	Kharif 2015	316	39.8	144	Cowpea
15	Spices	Irrigated	Kharif 2015	Pepper	Panniyur		Foliar Spray of Pepper special in Pepper	Soil test based fertilizer (100:40:150 gm of NPK) per vine Foliar spray of pepper special @ 5gm/ltr. for 3times/year	Kharif 2015	275	38.4	141.2	Pepper
16	Fisheries	Irrigated	Kharif 2015	Fisheries	Catla, Rohu, Common carp	-	Demonstration of Composite Fish Cultivation	High yielding varieties (2:1:1) Catla, Rohu, Common carp	Kharif 2015	--	--	--	--
17	Nutrition	--	Kharif 2015	Nutrition garden	--	--	Demonstration of Nutrition Garden in Schools	Kitchen garden kit Perennial crops	Kharif 2015	--	--	--	--

Sl. No.	Category	Farming Situation	Season and Year	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Season and year	Status of soil (kg/ha)			Previous crop grown
										N	P	K	
18	Terrace gardening	--	Kharif 2015	Demonstration of Terrace gardening in urban area	--	--	Demonstration of Terrace gardening in urban area	Vegetable seed kit Protrays, Fibre pots	Kharif 2015	--	--	--	--
	Animal Science	--	Kharif 2015	Dairy	-	HF cross	Demonstration of Area Specific Mineral Mixture in Milch Animals	Concentrate Pellet feeds , Area specific mineral mixture	Kharif 2015	--	--	--	--
	Animal Science	--	Kharif 2015	Dairy	--	HF cross	Integrated Calf Management	Ivermectin injection, Vitamins, Area specific Mineral mixture & Vaccines	Kharif 2015	--	--	--	--

## 5.B. Results of Frontline Demonstrations

### 5.B.1. Crops

Crop	Name of the technology demonstrated	Variety	Hybrid	Farming situation	No. of Demo.	Area (ha)	Yield (q/ha)				% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
							Demo			Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Maize	Integrated Nutrient Management in Maize	-	Ganga Kaveri	Rainfed	4	4	64	54	64.46	59.78	7.82	25600	64460	38860	2.51	24500	59750	32250	2.44
Paddy	Management of stem borer in paddy	Tunga	-	Irrigated	20	4	66.0	58.0	48.25	44.2	9.16	22003	67,878	45,875	2.09	21500	65310	43,810	2.04
Ragi	Demonstration of Drought Tolerant Ragi : ML-365	ML-365	-	Irrigated	5	2	36.0	32.5	35.0	28	25	18100	63000	44900	3.48	17200	50400	33200	2.93
Paddy	Demonstration of KRH-4 hybrid paddy	KRH-4		Rainfed	10	4	66.0	58.0	77.5	73.5	5.44	33000	104625	71625	3.17	35000	99225	64225	2.83
Potato	Soil Test Based Nutrient Management in Potato	K.Jyothi	-	Rainfed	5	4	120	87.5	98.76	88.3	11.84	64500	148140	83640	2.29	62800	132450	69300	2.10
Banana	INM in banana	G.Naine (Tissue culture plant)	--	Irrigated	5	4	62	52	58.14	53.04	9.61	65000	290714	225714	4.4	61500	265214	203714	4.31
Chilli	Demonstration of chilli hybrid Arka Kyathi	--	Arka Kyathi	Irrigated	5	1			In progress										
French bean	Demonstration of French bean Variety Arka Sharath	--	--	Irrigated	5	0.5			13.4	10.8	23.85	50000	1,89,500	1,39,500	3.79	50000	1,28,540	78,540	2.57
Bottle gourd	Demonstration of high yielding Bottle gourd Variety Arka Bahar	Arka Sharath	--	Irrigated	5	1			In progress										
Cucumber	ICM in cucumber	Arka Bahar	--	Irrigated	11	2			In progress										
Hebbal Avare-4	Demonstration of Hebbal Avare-4	--		Rained	5	2.4			12.25	10.72	14.27	18000	49000	31000	2.72	17000	42880	25800	2.52

Crop	Name of the technology demonstrated	Variety	Hybrid	Farming situation	No. of Demo.	Area (ha)	Yield (q/ha)				% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
							Demo			Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Ginger	Management of Shoot Borer in Ginger	Rio – de-Janaero	-	Irrigated	7	1.4			14.46	13.52	6.95	135000	362000	227000	1.6	160000	338000	185000	1.84
Pepper	Value addition in Pepper	Panniyur	-	Irrigated	10	4	1562.5	937.7	1225	968.7	26.45	9,18,750	3,32,000	5,86,750	2.76	7,26,562	3,20,000	4,06,562	2.27

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

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

**5.B.2. Livestock and related enterprises**

Type of livestock	Name of the technology demonstrated	Breed	No. of Demo	No. of Units	Yield (q/ha) Milk yield/animal during 90 days of lactation(ltrs)				% 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	Demo of area specific mineral mixture in milch animals	HF cross	3	15			1586.8	1464.6	8.34	11000	38087	27087	3.40	10500	35144	24644	3.34
Dairy	Integrated Calf Management	HF cross	3	15	Name of the farmer	Body weight(kgs)											
						2 <sup>nd</sup> month		3 <sup>rd</sup> month		4 <sup>th</sup> month							
						Demo	Check	Demo	Check	Demo	Check						
						Gurappa	42	32	48	37	56		39				
						Vedavathi	32	29	39	34	47		41				
						Shobha	38	31	44	38	51		43				
						In Progress											

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

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

### 5.B.3. Fisheries

Type of Breed	Name of the technology demonstrated	Breed	No. of Demo	Units/ Area (m <sup>2</sup> )	Yield ((kg/ha)				% Increase	*Economics of demonstration Rs./Ha)				*Economics of check Rs./Ha )			
					Demo			Check if any		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					H	L	A										
Fisheries	Demonstration of Composite fish culture in farm pond	(Rohu, common carp, Grass carp)	08	8 Units	1100	750	1165.6	829.5	40.51	23750	133250	109500	5.6	13593	66375	52781	4.9

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

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

### 5.B.4. Other enterprises

Enterprise	Name of the technology demonstrated	Variety/ species	No. of Demo	Units/ Area {m²}	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										
Maize	Value addition branding& marketing linkages in maize	--	2 SHG's (30)	2 SHG's	Maize flour		40	25	60	3520	6400	2880	1.81	2880	4000	1120	1.38
					Nutri mix		150	100	50	2850	7500	4650	2.63	2100	5000	2900	2.38
				Maize rava		40	30	33	1100	2000	9000	1.81	900	1500	600	1.66	
Nutrition garden	Demonstration of nutrition garden for nutrition security among school children	--	5	5 unit	--	--	73.00	39.72	83.78	850	2920	2070	3.47	550	1589	1039	2.94

Terrace garden	Demonstration of terrace gardening in urban and semi urban area	--	11	11	--	--	66	26.81	146.17	609	2640	2030	4.46	450	1072	622.72	2.41
Sericulture																	
Apiculture																	
Others (pl.specify)																	

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

\*\* BCR= GROSS RETURN/GROSS COST

H-High L-Low, A-Average

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

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

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

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

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

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

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

Sl.No.	Activity	No. of activities organised	Number of participants	Remarks
1	Field days	5	365	



2	Farmers Training	39	954	
3	Media coverage	10		
4	Training for extension functionaries			
5	Others (Please specify)			

### **PART VI – DEMONSTRATIONS ON CROP HYBRIDS**

#### **Demonstration details on crop hybrids**

Demonstration details on crop hybrid																	
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										
Cereals																	
Bajra																	
Maize																	
Total																	

### **PART VII. TRAINING**

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Integrated Crop Management	3	18	19	37	17	13	30	35	32	67
Others (pl.specify) Crop production and marketing	4	298	7	305	7	0	7	305	7	312
Cultivation of Fruit	1	23	7	30	0	0	0	23	7	30
Others (pl.specify) livestock management	1	30	2	32	0	0	0	30	2	32
Others (pl.specify) Mushroom cultivation	1	0	32	32	0	0	0	0	32	32
Plant protection and coconut climbing	2	49	2	51	7	0	7	56	2	58
Integrated fish farming	1	8	1	9	4	1	5	12	2	14
<b>TOTAL</b>	13	426	70	496	35	14	49	461	84	545

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

Area of training	No. of Courses	No. of Participants		
		General	SC/ST	Grand Total

		Male	Female	Total	Male	Female	Total	Male	Female	Total
<b>Crop Production</b>	7	75	81	156	11	28	39	86	109	195
Others (pl.specify) Production	2	32	9	41	2	0	2	34	9	43
Integrated nutrient management	4	46	9	55	15	8	23	61	17	78
Dairy Management	2	13	14	27	6	9	17	19	23	42
Value addition	1	0	1	0	0	29	29	0	30	30
Integrated Pest Management	5	104	0	104	13	12	25	117	12	129
Integrated fish farming	1	20	3	23	2	2	4	22	5	27
<b>TOTAL</b>	22	290	117	406	49	88	139	339	205	544

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
<b>TOTAL</b>										

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops										
<b>TOTAL</b>										

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field/ Horticulture crops	3	50	9	59	35	13	48	85	22	107
<b>Total</b>	<b>3</b>	<b>50</b>	<b>9</b>	<b>59</b>	<b>35</b>	<b>13</b>	<b>48</b>	<b>85</b>	<b>22</b>	<b>107</b>

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		

		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
<b>Total</b>										

**7.G. Sponsored training programmes conducted :NIL**

Sl.No.	Area of training	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
<b>1</b>	<b>Crop production and management</b>										
	<b>Total</b>										

**Details of sponsoring agencies involved**

1. CDB, Bangalore
2. KSRLPS Bangalore
3. Horticulture Department, Hassan

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

Sl.No.	Area of training	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
<b>1</b>	<b>Crop production and management</b>										
	<b>Grand Total</b>										

**PART VIII – EXTENSION ACTIVITIES**

**Extension Programmes (including extension activities undertaken in FLD programmes)**

Nature of Extension Programme	No. of Programmes	No. of Participants (General)			No. of Participants SC / ST			No. of extension personnel		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	12	720	236	956	--	--	--	419	150	<b>569</b>
Exhibition	19	307548	60541	368089	--	--	--	276	86	<b>362</b>

Film Show	29	605	108	713	259	52	311	0	0	<b>0</b>
Method Demonstrations	32	768	354	1122	65	20	85	29	5	<b>34</b>
Lectures delivered as resource persons	189	7938	2994	10932		--	--	--	--	--
Newspaper coverage	141	--	--	--	--	--	--	--	--	--
Radio talks	7	--	--	--	--	--	--	--	--	--
TV talks	5	--	--	--	--	--	--	--	--	--
Popular articles	65	--	--	--	--	--	--	--	--	--
Extension Literature	23	--	--	1100	--	--	--	--	--	--
Advisory Services	73	100903	40123	141023	--	--	--	--	--	--
Farmers visit to KVK	608	--	--	--	--	--	--	--	--	--
Diagnostic visits	23	40	3	43	--	--	--	--	--	--
Exposure visits	8	174	90	264	--	--	--	71	11	<b>82</b>
Soil health Camp	2	66	10	76	--	--	--	--	--	--
Animal Health Camp	1	--	--	245	--	--	--	--	--	--
World food day	1	69	2	71	--	--	--	--	--	--
Women in agriculture day	1	9	51	60	3	11	14	--	--	--
Kisan Day	1	60	27	87	5	11	16	--	--	--
Important meetings	23	--	--	--	--	--	--	--	--	--
Farm Trails	2	--	--	--	--	--	--	--	--	--
Teaching Aids developed	23	--	--	--	--	--	--	--	--	--
KMAS Service	24	--	--	--	--	--	--	--	--	--
<b>Total</b>	1312	421889	104931	528162	332	94	426	795	252	1047

**PART IX – PRODUCTION OF SEED, PLANT AND LIVESTOCK MATERIALS: 2015-16**

**9.A. Production of seeds by the KVKs**

Crop category	Name of the crop	Variety	Hybrid	Quantity of seed (qtl)	Value (Rs)	Number of farmers to whom provided
Cereals (crop wise)						
	Ragi(Bulk)	ML-365		0.50	1000.00	APMC
	Maize (Bulk)	Hema		7.80	10296.00	APMC
	Maize(Bulk)	Hema		28.7	30996.00	APMC
	Greengram	KKM-1		65	1625.00	APMC
Commercial crops						
Vegetables	Tomato	ArkaRakshak		1296.8 kg	15906.00	7
	Chilli	Jwala		70 kg	1260.00	5
Flower crops	Gladiolus	--		3 no	6.00	1
fruits	Banana		GraineNaine	9.5 kg	190.00	2
	Papaya		Red lady	14.5 kg	217.50	3
	Sapota	Cricket ball		221 kg	4420.00	3
	Jack Fruits	Local		1 kg	35.00	1
	Mango	Alphanso		1250 kg	15000.00	1
Fodder crop seeds	Fodder	Co-3 (Cuttings)		118535 no	1,18,535.00	28
	Fodder	Co-3(Root slips)		7480 no	3740.00	8
Others (specify)	Paddy straw	BR-2655		118535 kg	9000.00	1
	Coconuts	Arasikere Tall		121	1210.00	2
	Coconuts	Arasikere Tall		1425.57 Kg	24948.00	APMC
	Coconut Fronds	Arasikere Tall		100	100.00	1
	Coconut Husk	Arasikere Tall		1000	500.00	1
	Coconut Fronds	Arasikere Tall		100	100.00	1
	Coconut Husk	Arasikere Tall		1000	500.00	1
<b>Total</b>					<b>239584.5</b>	

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

Crop category	Name of the crop	Variety	Number	Value (Rs.)	Number of farmers to whom provided
Commercial					

Fruits	Papaya	Redlady	9224	92240	34
Vegetable	Drumstick	PKM-1	7535	75350	23
Medicinal and Aromatic					
	Chakramuni		342	3420	47
	Insulin		268	2680	24
	Coleus		11	110	1
	Amruthaballi		4	40	1
	Curry leaf		136	1360	56
<b>Total</b>			<b>17520</b>	<b>175200</b>	

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

Bio Products	Name of the bio-product	Quantity Kg	Value (Rs.)	Number of farmers to whom provided
Bio Agents	Earthworms	18.5	4625	17
Others (specify)	Banana special	1250	187500	87
<b>Total</b>	-	1268.5	192125	

#### 9.D. Production of livestock materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	Number of farmers to whom provided
<b>Dairy animals</b>				
Cows	Cross breeds	1592.5	44590.00	5
		4932	91167.00	Society
Calves	Cross bred	1	250.00	1
Others (Pl. specify) Aged cows	Cross bred			
Duals (broiler and layer)	Giriraja	1213	75390	47
Birds	Giriraja	6.7	1005.00	1
Piglet	Yorkshier	31	68200.00	12
Adult Pig		895.66 kg	53740.00	4
<b>Total</b>			334342	

**PART X – PUBLICATION, SUCCESS STORY, SWTL, TECHNOLOGY WEEK AND DROUGHT MITIGATION**

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

(A) KVK News Letter: HOYSALA ((Date of start : January 2013, Periodicity: once in year, Number of copies distributed: 500.)

(B) Literature developed/published

Item	Title	Authors name	Number
<b>Research papers</b>	-	-	
<b>Technical reports</b>	-	-	
<b>News letters</b>	Hoysala	Dr.B.S. Basavaraju, Dr. S. Channakeshava, G.S. Krishana Reddy,Dr.T.S. Manjunathaswamy, K.J.Kantharaju, H.K.Pankaja,Dr.A.C.Girish	500
<b>Technical bulletins</b>			
<b>1</b>	Arogyamanninindanammelaraarogya	S. Channakeshava,G.S. Krishnareddy, A.C. Girish, H. K. Pankaja,T.S. Manjunathaswamy	200
<b>2</b>	2015-16 ne salinahassanajilleyailakakaryagarakramagalakaipidi	H.K. Pankaja, B.S. Basavaraju, A.C. Girish	200
<b>3</b>	E-Krishi maarata paddathigalu	Jadhav balaji, H.K.Pankaja, G.S. Krishnareddy, K.J. Knatharaja	100
<b>4</b>	Sasya thaligala samrakshane mathu raithara hakkugala kaidhe-2001	H.K. Pankaja, S.Channakeshava, M.Shivashankar, G.S.Krishnareddy, T.S.Manjunathaswamy	100
<b>Popular articles</b>			
<b>1</b>	Sasya samrakshane bevu	B.S.Basavaraju, H.K. Panakaja, A.C . Girish	1
<b>2</b>	Shuntiyalli mrudukknadakoleroga hatotige munjagrathe	B.S.Basavaraju, T.S. Manjunathaswamy	1
<b>3</b>	Sasya samrakshanenge bevu	B.S.Basavaraju, H.K. Panakaja, A.C . Girish	1
<b>4</b>	Tenginalli kempu moothihulu nirvahane	B.S.Basavaraju, T.S. Manjunathaswamy, Pankaja H.K	1
<b>5</b>	Shuddha halu utpadanenge halu kareyuva yantrada balake	K.J. Kantharaja, O.R. Nataraju	1
<b>6</b>	Alugadde bittuvaga gamanisabekada amshagalu	B.S.Basavaraju, S . Channakeshava, T.S. Manjunathaswamy	1
<b>7</b>	Baleya adhika iluvarige banana special	S. Channakeshava, T.S. Manjunathaswamy, B.S.Basavaraju	1
<b>8</b>	tengannu kaduva rogagalu	B.S.Basavaraju,T.S. Manjunathaswamy, S. Channakeshava,	1
<b>9</b>	Mannina arogya nirvahanege mannu parikshe mahatva	S. Channakeshava, H.K. Pankaja, A.C. Girish, G.S. Krishnareddy	1
<b>10</b>	Alugadde besaya-raitaru edurisuttiruva gondalagalu-nivarana upayagalu	M.J. Chandregowda, S. Channakeshava, B.S.Basavaraju	1
<b>11</b>	Alugadde-thogari anthara bele	KVK, Hassan	1
<b>12</b>	Alugadde besay: raitaru edurisuthiruv gondalagalu mathu nivarana upayagalu	M.J. Chandregowda, S. Channakeshava, B.S.Basavaraju	1
<b>13</b>	Raitara badukigondur ashadeepa adhikamotte iduva swarnadhara koli	K.J. Kantharaja, G.S. Krishnareddy, B.S.Basavaraju	1
<b>14</b>	sayayava compost gobbara tayarike maduva paddatiglu	S. Channakeshava, H.K. Panakaja, B.S.Basavaraju	1

Item	Title	Authors name	Number
15	Neeru nirvahane tantrikategalu	G.S. Krishnareddy, B.S.Basavaraju, S . Channakeshava, T.S. Manjunathaswamy,	1
16	Ona besayakke raitarige raitharige sahakari nugge	T.S. Manjunathaswamy, B.S.Basavaraju, H.K. Pankaja, G.S. Krishnareddy, S . Channakeshava,	1
17	Shuntiyalli samagra poshakamshagala nirvahane	S . Channakeshava,T.S. Manjunathaswamy, H.K. Pankaja	1
18	Shuntiyalli samagra poshakamshagala nirvahane	S . Channakeshava,T.S. Manjunathaswamy, H.K. Pankaja	1
19	Mavina koylothara nirvahane vidhanagalu	M.Shivashankar, K.J. Kantharaja,	1
20	Musukina jolada bittane tantrikategalu	G.S. Krishnareddy, S. Channakeshava, B.S.Basavaraju	1
21	Musukina jolada samagrha poshakamshagalla nirvanne	S.Channakeshava, G.S. Krishanna reddy. H.K. Pankaja	1
22	Mavina koylothara nirvahane vidhanagalu	M.Shivashankar, K.J. Kantharaja, B.S. Basavaraju	1
23	Vividha Bathada thaligallu hagu avugalla visheshthe	G.S. Krishanna reddy. H.K. Pankaja, S.Channakeshava, B.S. Basavaraju	1
24	Shuntiyalli rogagala nirvahane	B.S. Basavaraju,S.Channakeshava, H.K. Pankaja	1
25	Nugge: ona besay raitharige sahakari	T.S. Manjunathaswamy, B.S. Basavaraju, H.K. Pankaja, G.S. Krishanna reddy,S.Channakeshava	1
26	Hesaru: samagra bele nirvahane hege	B.S. Basavaraju, H.K. Pankaja, S.Channakeshava, A.C. Girish	1
27	Vividha bhathada aliglu hagoo avugala visheshte	G.S. Krishnareddy, H.K. Pankaja, S.Channakeshava, B.S. Basavaraju	1
28	Alu beleyalli nusi badhe niyantrana	B.S. Basavaraju, T.S. Manjunathaswamy, S.Channakeshava	1
29	Pappaya besaya kramagalu	T.S. Manjunathaswamy, G.S. Krishanna reddy, H.K. Pankaja, S.Channakeshava, B.S. Basavaraju	1
30	Thogariyalli samagra bele nirvahane	G.S. Krishanna reddy, H.K. Pankaja, S.Channakeshava	1
31	Mavu utpadanege gamanisabekada amshagalu	T.S. Manjunathaswamy, G.S. Krishanna reddy, H.K. Pankaja	1
32	Musukina joladalli samagra poshakamshagala nirvahane	S.Channakeshava, G.S. Krishanna reddy. H.K. Pankaja, B.S. Basavaraju	1
33	Kere mathu koladalli meenu sakanike ratharige labhadayaka	Shivashankar M, Kantharaju	1
34	Africada daitya basavana huluvin nirvahane	B.S. Basavaraju, H.K. Pankaja	1
35	kere mathu kolagalalli meenu sakanike raithrige labhadayaka	M.Shivashankar, K.J. Kantharaja	1
36	Vanijya bele Erulli besaya kramagalu	T.S. Manjunatha swamy	1
37	Menasinakayiya adhika iluvarige samagra poshakamshagala nirvahne	S. Channakeshava, T.S. Manjunatha swamy, H.K. Pankaja	1
38	Labhadayaka handi sakaneyalli vajnanika kramagalu	K.J. Kantharaju, G.S. Krishnareddy, M. Shivashankar, B.S. Basavaraju	1
39	Labhadayaka handi sakaneyalli vajnanika kramagalu	K.J. Kantharaju, G.S. Krishnareddy, M. Shivashankar, B.S. Basavaraju	1
40	Thogari beleyalli kayi koraka hulu samagra hathoti kramagalu	B.S. Basavaraju, S.Channakeshava, H.K. Pankaja, A.C. Girish	1
41	Arogya mannininda nammelara arogya	S. Channakeshava, B.S. Basavaraju, A.C. Girish	1
42	Hasivu mathu apoustikate nivarane yadare ahara dinacharane sarthaka	H.K. Pankaja, M. Shivashankar, A.C. Girish	1
43	Thogari beleyalli kayikoraka hulada samgra hathoto kramagalu	B.S. Basavaraju, S.Channakeshava, H.K. Pankaja, A.C. Girish	1
44	Poustikamsha odagisuvalli ragiya patra hagoo molake ragiya khadyagalu	M.Shivashankar, A.C. Girish	1
45	Kosinalli rogagala nirvahana kramagalu	B.S. Basavaraju, T.S. Manjunatha swamy, S.Channakeshava	1
46	Ahara mathu postikamashadalli ragiya patra hagoo molake ragiya kyadyagalu	Shivashankar M., A.C. Girish	1
47	Tingala huruli bithanege idu sakala	T.S. Manjunatha swamy,G.S. Krishnareddy, H.K. Pankaja	1



Item	Title	Authors name	Number
48	Tingala huruli bithanege idu sakala	T.S. Manjunatha swamy,G.S. Krishnareddy, H.K. Pankaja	1
49	elekosu sudharitha besaya kramagalu	T.S. Manjunatha swamy,G.S. Krishnareddy, H.K. Pankaja	1
50	Thingala hurulli bithanege idu sakala	T.S. Manjunatha swamy,G.S. Krishnareddy, H.K. Pankaja	1
51	Mannin mahatvada arivigagi vishava mannina dinacharane	S.Channakeshava, G.S. Krishanna reddy, T.S. Manjunatha swamy, H.K. Pankaja,B.S. Basavaraju	1
52	Melmannu samrakshane- Poshakamsha nirvahaneya modala hejje	S.Channakeshava, A.C. Girish, B.S. Basavaraju	1
53	Pappaya bele badhisuva rogagala nirvahane	B.S. Basavaraju, T.S. Manjunatha swamy, H.K. Pankaja	1
54	Southekeyi hechina iluvarige sudharitha kramagalu	T.S. Manjunatha swamy, S.Channakeshava, H.K. Pankaja	1
55	Tomato adhika iluvarige sankarana tali ayke hagu sudharitha kramagalu	T.S. Manjunatha swamy, S.Channakeshava, H.K. Pankaja	1
56	Southekeyi hechina iluvarige sudharitha kramagalu	T.S. Manjunatha swamy, S.Channakeshava, H.K. Pankaja	1
57	Moulyavarditha avare uthpannagalu mathu poshakamshagala	M.Shivashankar, A.C. Girish	1
58	Moulyavarditha avare uthpannagalu mathu poshakamshagala	M.Shivashankar, A.C. Girish	1
59	Nadedaduva bank mekegalu	K.J. Kantharaja, G.S. Krishnareddy, Jadhva Balaji. S. Channakeshava	1
60	Savayava gobbara uthapadana vidanagalu	A.C. Girish, S. Channakeshava,H.K. Pankaja	1
61	Moulyavarditha avare uthpannagalu mathu poshakamshagala	M.Shivashankar, A.C.Girish	1
62	Menasinakayi sudharitha taligala balake labhadayaka	T.S. Manjunatha swamy, G.S. Krishnareddy,H.K. Pankaja	1
63	Southekeyiyalli sasya samrakshane alavadisi-eluvare hecchisi	T.S. Manjunatha swamy, S.Channakeshava, H.K. Pankaja	1
64	Uttama hasirumevu koduva jola	G.S. Krishnareddy, K.J. Kantharaja, Jadhav balaji	1
65	Samagra krushi paddhathi raitharige ondu varadana	H.K. Pankaja, S. Channakeshava, Jadhav Balaji, K.J. Katharaja, G.S. Krishnareddy	1
<b>Extension literature</b>			
<b>Others</b>			
<b>Books</b>			
1	Kalparukshasnehitarige kaoushalybivruddi	G.S.Krishnareddy, H.K.Pankaja, B.S.Basavaraju, T.S.Manjunathaswamy, S.Channakeshava	60
2	HassanaJilleyaBhochtanayojaneyadiraitaanuvugararigesamagrakrishipadhatigalu	S. Channakeshava, H. K. Pankaja, B.S. Basavaraju	120
3	Hingaru belegala uthpadana thanthrikathegalu	S.Channakeshava, H.K.Pankaja	100
<b>Booklets</b>			0
1	Arogyamanninindanammelaraarogya	S. Channakeshava,G.S. Krishnareddy, A.C. Girish, H. K. Pankaja,T.S. Manjunathaswamy	200
2	2015-16 ne salinahassanajilleyailakakaryagarakramagalakaipidi	H.K. Pankaja, B.S. Basavaraju, A.C. Girish	200
3	E-Krishi maarata paddathigalu	Jadhav balaji, H.K.Pankaja, G.S. Krishnareddy, K.J. Knatharaja	100
4	Sasya thaligala samrakshane mathu raithara hakkugala kaidhe-2001	H.K. Pankaja, S.Channakeshava, M.Shivashankar, G.S.Krishnareddy, T.S.Manjunathaswamy	100
<b>Folders Published</b>			
1	Manegondumadaripoustikakaithota	Shivashankar M, A.P.Vishwanath, B.S.Basavaraju, T.S. Manjunathaswamy, H.K.Pankaja	100
2	Chakramunisoppupoustikamshadabhandara	G.S. Krishnareddy, T.S. Manjunathaswamy,H.K. Pankaja	500

Item	Title	Authors name	Number
3	Bannana special	S. Channakeshava,T.S. Manjunathaswamy,H.K. Pankaja	500
4	Moulyavardithaavreutpannalumathuposhakamshagalu	M. Shivashankar, G.S. Krishnareddy, H. K Pankaja	200
5	Vigyanika kuri sakanike	K.J. Knatharaja, H.K. Pankaja, G.S. Krishnareddy, Jadhav Balaji,S.Channakeshava	100
6	Southekeyi hecchina iluvarige sudharitha kramagalu	T.S. Manjunathaswamy,S. Channakeshava,H.K.Pankaja	100
7	Besayadalli henne hindigala pramukyathe	A.C.Girish, S.Channakeshava, H.K.Pankaja	100
8	Arogyakara navane sudharitha besaya kramagalu	Jadhav balaji, H.K.Pankaja, G.S.Krishnareddy	100
9	Laabadayaka menasinakayiya sudharitha besaya kramagalu	T.S. Manjunathaswamy,S. Channakeshava,H.K.Pankaja	100
10	Sudharitha bele maduva yanthra	G.S.Krishnareddy, Jadhav balaji, H.K.Pankaja,	100
11	Moulyavarditha avre utpannalumathu poshakamshagalu	M. Shivashankar, G.S. Krishnareddy, H. K Pankaja, A.C.Girish	100
<b>Training manuals</b>			
1	Alugaddeyallisamagrabelenirvahane	S. Channakeshava, T.S. Manjunathaswamy, H. K. Pankaja,B.S. Basavaraju	13
2	ICM in Paddy	G.S. Krishnareddy, H. K. Pankaja, B.S.Basavaraju,	25
3	ICM in Ginger	B.S.Basavaraju, T.S. Manjunathaswamy, H. K. Pankaja,S. Channakeshava	18
4	ICM in Ragi	G.S. Krishnareddy, H. K. Pankaja, B.S.Basavaraju, ,S. Channakeshava	17
5	ICM in Banana	S. Channakeshava, T.S. Manjunathaswamy, H. K. Pankaja, G.S. Krishnareddy	30
6	Tharakaribeleгалasudharithabesayakramagalu	T.S. Manjunathaswamy, B.S.Basavaraju, H.K. Pankaja,G.S. Krishnareddy, S. Channakeshava	30
7	LabadayakaPashusangopaneyallVygnanikaPaddathigalu	K.J. Knatharaja, H.K. Pankaja, G.S. Krishnareddy, JadhavBalaji	32

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

S. No.	Type of media (CD / VCD / DVD/ Audio-Cassette)	Title of the programme	Number
-	-	-	-

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. BEEKEEPING: A SUCCESSFUL HOBBY

Sri Bhoopalaksha, S/o Rudraiah residing at Kenchanahallipura village, Alur taluk, and Hassan district owns 7 acres of land. He has been following Agri+Horti+Silvi+pasture mixed farming system of cultivation on his farm. In monsoon season he is cultivating Agricultural crops like paddy, maize and Horticultural crops like chilli, ginger, coconut, mango, sapota, guava and banana as a major crops and earmarked considerable portion of area for vegetable cultivation for household consumption.

Since, his childhood he developed passion towards beekeeping. His interest nurtured when his family members were involved in collection of honey from different parts of Hassan district. After completion of his matriculation, Beekeeping turned in to his profession along with agriculture. In 2006, an NGO called Punyabhoomi located at Alur taluk of Hassan district conducted one day programme in which he eagerly participated and obtained information on bee keeping, in addition to the training he was complemented with one bee box under training programme. His acquaintance with Mr. Shanthiveer, resource person of the programme and progressive farmer augmented his interest in beekeeping. Subsequently in the year 2008, he consulted KVK, Hassan to gather additional information on scientific beekeeping as well as better Bee management practices and also participated in the training programme on Scientific Beekeeping conducted by KVK, Hassan. With this Knowledge and expertise he started the profession and earned an additional income of Rs.30,000/- annually.

In 2014-15, the farmer participated in the vocational training programme on beekeeping organised at KVK, Hassan both as a participant as well as resource person. During the programme he acquired the skill in multiplication of bee colonies and successfully adopted the technique and now with one bee colony, he is capable of multiplying it in to 5-6 bee colonies during the season and supplying it to bee keepers. He also assists over 100 bee keepers in Channarayapatna, Arasikere, Gubbi, Tumkur, Chickmangalore, Madikeri and Mangalore. Nearly 2000 farmers/students were visiting his farm to gather information on beekeeping annually he adds.

As a subsidiary enterprise annually he is getting 50 Kgs of honey and selling at the rate of Rs. 600 per Kg and also 50 bee boxes along with bee colonies which were sold at the rate of Rs.1,500/box. Hence, he is getting an income more than Rs.1,00,000/-annually from this enterprise.

For his integration of farm enterprises, his family member was awarded with Taluk level best Farm Women award during 2014-15 Krishimela at UAS, Bangalore and during 2015-16, Department of Horticulture honoured him by giving Karnataka Rajyothsava Prashasthi and also provided 25 bee boxes under MadhuvanaYojane.

With 10 years of experience in the field of Bee keeping 49 -year-old Bhoopalaksha is not only a success story in Apiculture, he is also a resource person in the field whose services are utilised by various agencies like KVK-Hiriyur, KVK-Hassan, AIR-Hassan, Samaya-TV, NGO-Punyabhoomi etc., for offering training in Beekeeping.

## 2. SOIL TEST BASED NUTRIENT MANAGEMENT IN POTATO

### Introduction:

Potato (*Solanum spp*) is a traditional crop of Hassan District of Karnataka, grown mainly in Kharif season (May to August). The Yield levels of potato declining since 2001 (105 t/ha to 58 t/ha) due to imbalanced nutrient management and disproportionate fertilizer application during cropping period clearly indicated the lack of knowledge about the method and dosage of fertilizer application which resulted in imbalanced and excessive application of fertilizer for potato crop.

Majority of farmers apply FYM at the rate of 8.0 t/ha which is far below the recommended quantity (10.t/ha). As regard to fertilizer application 89 percent of the farmers apply two times the recommended dosage of Nitrogenous and Phosphorus fertilizer and majority of farmers apply lower dosage of fertilizer. Hence, the data clearly indicated that imbalanced application of major nutrient and lower dosage of farm yard manure resulted in lower yield and more cost of cultivation in potato. Keeping in view of above problems front line Demonstration on Soil Test Based nutrient Management was conducted during 2013-14 and 2015-16

**Objective:** Reduction of Excessive Fertilizer use and its cost

### Methodology:

Based the data generated in PRA, group of 10 farmers selected for conducting front line demonstration in Doddachakanahalli village of Hassan taluk during 2013-14 and 10 farmers in Channagihalli Kattaya Hobli of Hassan district during 2015-16.

**Horizontal Spread of Technology :** The technology was spread through conducting FLD (20 farmers ), Off campus training & On campus training(126) , Field days (233), Field Visits (100) , face to Face contact with farmers in KVK, telephone contact , SMS Messages (3000) , through News paper coverage, TV and radio programmes. Totally 3479 farmers have adopted the technology for the period of 2013-14 &2015-16.

### Results:

Soil test based fertilizer application at the rate Rs 75:75:100 Kg NPK per hectare as per the recommend practises along with RD FYM @ 10.0 ton per ha recorded higher yield of 105q/ha and /ha and 98.76 q/ha in demonstrated plot compared to farmers practice (87.81q/ha and 88.3 q/ha). The quantity of fertilizer application in terms of NP nutrient reduced to an extent of 50 per cent where potash application was made as per recommended doors. The cost of fertilizer was saved to Rs 3500/ha. The farmers obtained addition income of Rs 25765 and 13990 through adopting technology compare to farmer practice.

**Up scaling of technology:-** The technology was reached to nearly 2500 farmers through face to face contact, field days, off campus training programmes field visits along with line department officials TV Programmes and Radio programmes SMS messages sent to farmers and through phone contact.

In general, through soil test based fertilizer recommendation has reduced N & P fertilizer application by 1350 tonnes. By this an amount of Rs 1,45,50,000 can be saved towards cost of Urea for potato crop of Hassan district(18000 ha) and similarly with respect to P (DAP) fertilizer saved amount worth of Rs1,62,00,000. The application of potash fertilizer as on based dose @ 100 Kg per hectare was encouraged as it gives drought tolerance and disease resistance to crop and recorded less incidence of late blight of Potato (10-15%)

**Conclusion:-**

The technology is accepted by farmers and majority of farmers now applying on soil test basis once in 5 years. The yield levels of crop now increased to an extent of 95-96q/ha depending on micro climatic conditions of the villages/area (Rainfall pattern) under rain fed condition during kharif season.

**Table 1: Soil Fertility Status: 2013-14 & 2015-16**

<b>2013-14</b>				
<b>pH</b>	<b>OC(%)</b>	<b>N</b>	<b>P</b>	<b>K</b>
6.5	0.56	289.3	35.8	155.6
<b>2015-16</b>				
6.2	0.48	278.3	48.2	172.0

**Table: 2: Yield and Economics of crop influenced by Soil Test Based fertilizer application**

<b>Parameters</b>	<b>Demo</b>	<b>Check</b>	<b>Demo</b>	<b>Check</b>
	<b>2013-14</b>		<b>2015-16</b>	
Tuber Yield (q/ha)	105	87.81	98.76	88.3
Gross Return (Rs)	173250	144886	148140	132450
Net Return	127560	101785	83640	69650
B:C Ratio	3.79	3.36	2.29	2.10
% increase in yield	<b>19.57</b>		<b>11.84</b>	

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

**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)**

<b>Sl.No.</b>	<b>Crop / Enterprise</b>	<b>ITK Practiced</b>	<b>Purpose of ITK</b>
1	Areca nut	-	-
2	Coconut	-	-
3	Potato	-	-
4	Coconut	-	-
5	Storage of grains	-	-
6	Coconut	-	-

7	Redgram	-	-
8	Poultry	-	-
9	Livestock	-	-
10	Cattle	-	-
11	Ragi	-	-
12	Sunflower	-	-
13	Storage of grains	-	-

**10.F. Indicate the specific training need analysis tools/methodology followed for**

- Identification of courses for farmers/farm women: Participatory methods during Situation Analysis
- Rural Youth : Participatory methods during Situation Analysis
- In-service personnel : Intractary Approach and discussion with the Line Department Heads and Gross-root level workers

**10.G. Field activities**

- i. Number of villages adopted :
- ii. No. of farm families selected :
- iii. No. of survey/PRA conducted :

**10.H. Activities of Soil and Water Testing Laboratory**

- 1. Status of establishment of Lab : Operational
- 2. Year of establishment : 2005
- 3. 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
	<b>Laboratory Wares</b>		
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

**Details of samples analyzed so far since establishment of SWTL till March 2015:**

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)
Soil Samples	9365	7664	3410	468250
Water Samples	2068	1821	1122	124080
Plant samples	12	3	3	1440
Manure samples	20	20	9	2400
Others – Copper Sulphate	37	13	14	2900
Lime	251	76	55	24980
<b>Total</b>	<b>11753</b>	<b>9597</b>	<b>4613</b>	<b>624050</b>

**Details of samples analyzed during the 2015-16 :**

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)
Soil Samples	1663	1325	676	88850
Water Samples	1305	1108	563	78300
Lime samples	20	20	14	4700
Organic Manure samples	0	0	0	0
Plant	0	0	0	0
<b>Total</b>	<b>2988</b>	<b>2453</b>	<b>1253</b>	<b>171850</b>

**10.I. Technology Week celebration during 2015-16 Yes/No**

**Yes**

Period of observing Technology Week: From 14.10.2015 to 18.10.2015

Total number of farmers visited : 261

Total number of agencies involved : 5 departments and 10 private companies

Number of demonstrations visited by the farmers within KVK campus : 04

Other Details

Types of Activities	No. of Activities	Number of Farmers	Related crop/livestock technology
Gosthies	-	-	-
Lectures organized	5	373	Scientific dairying, Management of fodder crops, Importance of biofuel plants, Comprehensive horticulture development and Mechanization in Agriculture

Types of Activities	No. of Activities	Number of Farmers	Related crop/livestock technology
Exhibition	1	261	Agriculture and allied subject related stalls
Film show	--	--	-
Fair	-	-	-
Farm Visit	--	--	-
Diagnostic Practicals	-	-	-
Supply of Literature (No.)	--	--	-
Supply of Seed (q)	-	-	-
Supply of Planting materials (No.)	-	-	-
Bio Product supply (Kg)	-	-	-
Bio Fertilizers (q)	-	-	-
Supply of fingerlings	-	-	-
Supply of Livestock specimen (No.)	-	-	-
Total number of farmers visited the technology week	-		-

#### 10. J. Interventions on drought mitigation (if the KVK included in this special programme)

##### A. Introduction of alternate crops/varieties

State	Crops/cultivars	Area (ha)	Number of beneficiaries

##### B. Major area coverage under alternate crops/varieties

Crops	Area (ha)	Number of beneficiaries
Oilseeds	-	-
Pulses	-	-
Tuber crops	-	-
<b>Total</b>	-	-

##### C. Farmers-scientists interaction on livestock management

State	Livestock components	Number of interactions	No. of participants
-	-	-	-
<b>Total</b>	-	-	-

##### D. Animal health camps organized

State	Number of camps	No. of animals	No. of farmers
<b>Karnataka</b>			

<b>Total</b>			
--------------	--	--	--

E. Seed distribution in drought hit states: under IFSD Programme of State Govt Programme

State	Crops	Quantity (qtl)	Coverage of area (ha)	Number of farmers
Karnataka	-	-	-	-
-	-	-	-	-
<b>Total</b>				

F. Large scale adoption of resource conservation technologies

State	Crops/cultivars and list of resource conservation technologies introduced	Area (ha)	Number of farmers
Karnataka	Demonstration of high yielding varieties of Ragi,	609.6	1500
	Red gram ( BRG-1 & BRG-2)	52.0	130
Karnataka	Bio fuels plants	16,339 Nos	1647
Karnataka	Horticulture saplings & Green manure crops	1010 Nos	14
<b>Total</b>			

G. Awareness campaign

State	Meetings		Gosthies		Field days		Farmers fair		Exhibition		Film show	
	No.	No. of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers
Parthenium Awareness Week	02	54	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	-	-	-	-	-	-	-	-	-	-	-	-

## **PART XI. IMPACT**

**11.A. Impact of KVK activities (Not to be restricted for reporting period).**

Village Name	Skill Transfer	Adopti on (%)	Impact Before	Impact After	Measures Taken
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Handanakere	Drought Resistant Variety ML-365 of Finger Millet	12	Parameters Recorded Check ( Giddaragi) Plant height (cm) 78.0 Number of tillers /hill 16.0 Number of fingers/hill 5.0 Grain Yield (q/ha) 20 Straw Yield (tonnes/ha) 3.6	Parameters Recorded Demo (ML-365) Plant height (cm) 85.0 Number of tillers /hill 18.0 Number of fingers/hill 8.0 Grain Yield (q/ha) 31.25 Straw Yield (tonnes/ha) 4.0	FLD: Demonstration of Drought Resistant Variety ML-365 of Finger Millet (2014-15 and 2015-16) 02 5.75ha. 17 Demonstration under RKVY IFSD (State). 08 76ha 190 Training Programs to farmers (On & Off campus ) 12 -- 292 Field days 02 -- 212 Seed material produced, sold & distributed 6,625Kgs Popular articles published in dailies 04 News coverage published 08
Hassan	Coconut climber	39	--	A climber charges Rs. 30 per palm for harvesting of nuts and Rs. 50 for crown cleaning and plant protection aspects. On an average the member of the association is earning an income of Rs. 7,800-12,500 per month along with his daily farming work which made them a subsidiary occupation in generating income. Our trainees are also invited by many other institutes/KVKs as a master trainee to train the participants of the training. From which they are earning good income for their livelihood.	KVK, Kandali, Hassan, in collaboration with Coconut Development Board, Bangalore and Karnataka State Rural Livelihood Promotion Scheme, GOK organized 2 (6 days each) vocational training programme on Palm Climbing and Plant Protection under Friends of Coconut Tree (FOCT) programme for self employment for 60 young farmers/farm women of the district during the year 2015-16. In each training programme training schedule, modules and lesson plan were developed to organize the training in more effective and efficient way. The resource persons of our institute along with outside institutes technical persons and local progressive farmers were engaged to take up the technical sessions in the programme. An ex-trainee of previous batch programme Mr. Praveen was invited as a master trainer, who successfully taught the skill of climbing the palm by using climbing equipment, crown cleaning and mulching operations to the trainees. The technical sessions organized in most effective way by using different methodologies and aids including exposure visits and more emphasis was given on skill development in palm climbing and plant protection aspects by using systematic method demonstrations.

**11.B. Cases of large scale adoption**  
(Please furnish detailed information for each case)

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

**PART XII - LINKAGES**

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

Name of organization	Nature of linkage
Coffee Board	Capacity Building for Small women coffee growers
Zilla Panchayat	Capacity Building for Entrepreneurship Development, Meetings Hostel Building for Ladies
Department of Agriculture	Collaboration for diagnostic visits, ATMA implementation, Conducting FLDs, Bi-monthly workshops, Meetings and Kharif Campaigns, Guest Lectures
Department of Animal Husbandry and Veterinary Services	Animal Health Camps, field visits
Veterinary College	Technical seminars, organizing extension functionaries training program
Information & Broadcasting	News coverage in News papers
Department of Sericulture	Input supply-Vermicompost, HRD on soil sampling and fertility management
Department of Horticulture	Diagnostic visits, Human Resource Development, Technical Sessions, , Field Visits, National Horticulture Mission programs and Meetings
Department of Fisheries	Human Resource Development, Technical sessions and field visit
Hassan Cooperative Milk Producers Association, Hassan	Human Resource Development, Technical sessions and field visit

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

#### 12.B. List 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.)
Coconut climber and plant protection	2015-16	KSLRPS	90,000
PPV & FRA	2015-16	GOI	80,000
Rabi campaign	2015-16	GOI	80,000
Pre kharif campaign	2015-16	GOI	80,000

#### 12.C. Details of linkage with ATMA

a) Is ATMA implemented in your district Yes

If yes, role of KVK in preparation of SREP of the district?

#### Coordination activities between KVK and ATMA during 2015-16

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

#### 12.D. Give details of programmes implemented under National Horticultural Mission

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Constraints if any
-	Model Nursery	Production & marketing of saplings			-

**12.E. Nature of linkage with National Fisheries Development Board**

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

**12.F. Details of linkage with RKVY**

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks
1					

**12. G Kisan Mobile Advisory Services**

Month	No. of SMS sent	No. of farmers to which SMS was sent	No. of feedback / query on SMS sent
April 2015	4	2547	-
May 2015	--	--	-
June 2015	5	3028	-
July 2015	8	3036	-
August 2015	3	3037	-
September 2015	--	--	-
October 2015	--	--	-
November 2015	1	3381	-
December 2015	2	3381	-
January 2016	--	--	-
February 2016	1	3381	-
March 2016	--	--	-
	24	21791	

**PART XIII- PERFORMANCE OF INFRASTRUCTURE IN KVK**

**13.A. 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. (No.)	Cost of inputs	Gross income	
1	Mango Scion Bank	2007-08	0.99	-	-	-	-	-	-
				-	Mango Fruit	1250		15000.00	Sold out
2	Fodder museum	2008-09		Co-3	Fodder slips	118535		1,18,535.00	Sold to farmers
3	Vermicompost	2008-09		-					
-	-	-	-						
-	-	-	-						
-	-	-	-						
-	-	-	-						
-	-	-	-						
-	-	-	-						

### 13.B. 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	
Greengram	16.04.2015	--	0.5	KKM-3	--	65 kg	--	1625	
Redgram+Cowpea	03.05.2015	--	2.5	BRG-1+IT-38956	--	--	--	--	Seed processing in Progress
Maize+Redgram	09.05.2015	--	0.5	Hema+BRG-1	--	--	--	--	
Redgram	06.06.2015	--	3.0	BRG-1	--	--	--	--	
Ginger	09.06.2015	--	0.1	Varada, Maran, Reo-de-jenerio					
Potato	18.06.2015	--	0.1	Kufri surya, Kufri Himalini and kufri Jyothi					

### 13.C. 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	Earthworm-	135	5000	33812.50	Sold to farmers
-		-	-	-	-

**13.D. 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	Dairy	Cross breeds	Milk	4022.44 ltr	35,000	71999.56	Sold to dairy
2	Poultry	Giriraja	3-4 week old Birds	4938	25,000	296280	-
3	Piggery	Yorkshire cross	Piglets	67	55,000	148900	-

**13.E. Utilization of hostel facilities**

Accommodation available (No. of beds) : 40

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
April 2015	58	10	--
May 2015	158	10	
June 2015	88	8	
July 2015	47	6	
August 2015	7	52	--
September 2015	109	11	--
October 2015	30	1	--
November 2015	152	6	--
December 2015	54	1	--
January 2016	0	0	--
February 2016	0	0	--
March 2016	0	0	
Total	<b>703</b>	<b>105</b>	--

**13.F. Database management**

S. No	Database target	Database created
1	Nine fold classification of land	
2	Number and size of operational holdings	-
3	Weather parameters of the district. (for a minimum period of ten years)	-
4	Details of soil profile	Yes
5	Detailed cropping pattern (for a minimum period of ten years)	Yes
6	Area, production and productivity of major crops	Yes
7	Details of livestock wealth in the district	-
8	Production and productivity of livestock produces	Yes
9	Area under irrigation from different sources	Yes

S. No	Database target	Database created
10	Seasonal availability of labour	Yes
11	Trend in wholesale price of major crop and livestock products (for a minimum period of ten years)	-
12	Details on input agencies	-
13	Details on infrastructural facilities available for production, post harvest and marketing	-
14	Trainees data base since inception Details of institutional credit facilities	-

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

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

## PART XIV - FINANCIAL PERFORMANCE

### 14.A. 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	GKVK, Bangalore	-	-	-	-	-
With KVK	Canara Bank	Hassan	05311010	S.B.	45203	573015302	CNRB0000531
With KVK	Corporation Bank	Kandali	190	S.B.	019000101019381	573017303	CORP0000190
With KVK	Corporation Bank	Kandali	190	S.B.	019000101019441	573017303	CORP0000190
With KVK	Corporation Bank	Kandali	190	S.B.	019000101017028	573017303	CORP0000190

**14.B. Utilization of KVK funds during the year 2015-16 (Rs. in lakh)**

Sl. No.	PARTICULARS	Allotted	expenditure	Balance
<b>A.</b>	<b><u>RECURRING CONTIGENCIES:</u></b>			
<b>1</b>	Pay & Allowances	7893000	6225753	1667247
<b>2</b>	Travelling Allowances	100000	100000	0
	<b>Contingencies</b>			0
<b>3</b>	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter	115000	114909	91
<b>4</b>	POL, repair of vehicles, tractor and equipment's	115000	114990	10
<b>5</b>	Meals/refreshment for trainees (@Rs.75/day/trainee for residential and @ Rs.40/day/trainee for non-residential trainings)	50000	50000	0

<b>6</b>	Training material (need based materials and equipment's for conducting the training)	25000	21627	3373
<b>7</b>	Frontline demonstration	115000	109703	5297
<b>8</b>	NFSM(FLD)	150000	148100	1900
<b>9</b>	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	24000	19484	4516
<b>10</b>	Extension Activities	70000	69935	65
<b>11</b>	Library (Purchase of Journal, Periodicals, News Paper and Magazines)	5000	4360	640
<b>B.</b>	<b><u>NON-RECURRING CONTINGENCIES</u></b>			0
<b>12</b>	Equipment's and Furniture	400000	400000	0
	<b>GRAND TOTAL (A+B+C)</b>	<b>9062000</b>	<b>7378861</b>	<b>1683139</b>



**14.C. Status of revolving fund (Rs. in lakh) for the three years-General**

<b>Year</b>	<b>Opening balance as on 1<sup>st</sup> April</b>	<b>Income during the year</b>	<b>Expenditure during the year</b>	<b>Net balance in hand as on 1<sup>st</sup> April of each year</b>
April 2012 to March 2013	640120	1932311	2220813	351618
April 2013 to March 2014	351618	1158270	1164429	345459
April 2014 to March 2015	345033	1164628	1033661	476426
April 2015 to March 2016	476426	1333615	1259555	6041100

**14.C1. Status of revolving fund (Rs. in lakh) for the three years-Nursery**

<b>Year</b>	<b>Opening balance as on 1<sup>st</sup> April</b>	<b>Income during the year</b>	<b>Expenditure during the year</b>	<b>Net balance in hand as on 1<sup>st</sup> April of each year</b>
April 2011 to March 2012	142672	425069	388492	179244
April 2012 to March 2013	179244	119991	265087	34148
April 2013 to March 2014	34148	255285	103541	185892
April 2014 to March 2015	98176	121733	155898	64011
April 2015 to March 2016	64011	175200	118942	120269

**15. Details of HRD activities attended by KVK staff during 2015-16**

Name of the staff	Designation	Title of the training programme	Institute where attended	Dates
Dr. Pankaja H.K.	Ag. Extension	Induction training programme	STU, Hebbal	10/28/2015 to 11-07-2015
Dr. Kantaraju	Animal Science	Induction training programme	STU, Hebbal	10/28/2015 to 11-07-2015
Dr. Kantaraju	Animal Science	Epidemiology and impact assessment of livestock disease: concepts Application and strategies	NIVEDI, Yelahanka, Bengalure	12/14/2015 to 12/21/2015
Dr. Pankaja H.K.	Ag. Extension	Communication skills for effective extension delivery	STU, Hebbal	3/14/2016 to 3/17/2016

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

**SUMMARY FOR 2014-15**

**I. TECHNOLOGY ASSESSMENT**

**Technologies Assessed under various Crops**

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha (Per trail covering all the Technological Options)
Integrated Nutrient Management	Ginger	Effect of Foliar Spray of Micronutrient Mixture in Ginger	3	02	0.8
	Potato	Assessment of foliar spray of vegetable special in Potato	3	05	2.0
Varietal Evaluation	Chilli	Assessment of chilli hybrid KBCH-1	3	03	1.8
<b>Total</b>			9	10	4.6

**Technologies assessed 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	-	-	-	-

<b>Total</b>		
--------------	--	--

#### Summary of technologies assessed under various enterprises

Thematic areas	Enterprise	Name of the technology assessed	No. of trials
-	-	-	-
-	-	-	-

#### Summary of technologies assessed under home science

Thematic areas	Enterprise	Name of the technology assessed	No. of trials
Value addition in turmeric Processing			

## II. TECHNOLOGY REFINEMENT

#### Technologies Refined under various Crops

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha (Per trail covering all the Technological Options)
Integrated Nutrient Management	-	-	-	-	-
	-	-	-	-	-
<b>Total</b>	-	-	-	-	-

#### Summary of technologies assessed under refinement of various livestock

Thematic areas	Name of the livestock enterprise	Name of the technology refined	No. of trials
Disease Management	-	-	-
<b>Total</b>			

#### Summary of technologies refined under various enterprises

Thematic areas	Enterprise	Name of the technology assessed	No. of trials
-	-	-	-

#### Summary of technologies refined under home science

Thematic areas	Enterprise	Name of the technology assessed	No. of trials
-	-	-	-
	-	-	-

### III. FRONTLINE DEMONSTRATION

#### Crops

Crop	Thematic area	Name of the technology demonstrated	No. of KVKs	No. of Farmer	Area (ha)	Yield (q/ha)		% change in yield	Other parameters		*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
						Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Maize	INM	Integrated Nutrient Management in Maize		4	4	64.46	59.78	7.82	--	--	25600	64460	38860	2.51	24500	59750	32250	2.44
Paddy	IPM	Management of stem borer in paddy		20	4	48.25	44.2	9.16	--	--	22003	67,878	45,875	2.09	21500	65310	43,810	2.04
Ragi	Varietal introduction	Demonstration of Drought Tolerant Ragi : ML-365		5	2	35.0	28	25	--	--	18100	63000	44900	3.48	17200	50400	33200	2.93
Paddy	Varietal introduction	Demonstration of KRH-4 hybrid paddy		10	4	77.5	73.5	5.44	--	--	33000	104625	71625	3.17	35000	99225	64225	2.83
Potato	INM	Soil Test Based Nutrient Management in Potato		5	4	98.76	88.3	11.84	--	--	64500	148140	83640	2.29	62800	132450	69300	2.10
Banana	INM	INM in banana		5	4	58.14	53.04	9.61	--	--	65000	290714	225714	4.4	61500	265214	203714	4.31

Chilli	Varietal introduction	Demonstration of chilli hybrid Arka Kyathi		5	1	In progress												
French bean	Varietal introduction	Demonstration of French bean Variety Arka Sharath		5	0.50	13.4	10.8	23.85	--	--	50000	1,89,500	1,39,500	3.79	50000	1,28,540	78,540	2.57
Bottle gourd	Varietal introduction	Demonstration of high yielding Bottle gourd Variety Arka Bahar		5	1	In progress												
Cucumber	ICM	ICM in cucumber		11	2	In progress												
Hebbal Avare-4	Varietal introduction	Demonstration of Hebbal Avare-4		5	4	12.25	10.72	14.27	--	--	18000	49000	31000	2.72	17000	42880	25800	2.52
Ginger	IPM	Management of Shoot Borer in Ginger		7	1.4	14.46	13.52	6.95	--	--	135000	362000	227000	1.6	160000	338000	185000	1.84
Pepper	INM	Value addition in Pepper		10	4	1225	968.7	26.45	--	--	9,18,750	3,32,000	5,86,750	2.76	7,26,562	3,20,000	4,06,562	2.27

### Livestock

Category	Thematic area	Name of the technology demonstrated	No. of KVKs	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
						Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Dairy	Dairy management	Demo of area specific mineral mixture in milch animals		3	15	1586.8	1464.6	8.34	--	--	11000	38087	27087	3.40	10500	35144	24644	3.34

Dairy	Dairy management	Integrated Calf Management		3	15	<table><tr><td rowspan="3">Name of the farmer</td><td colspan="6">Body weight(kgs)</td></tr><tr><td colspan="2">2<sup>nd</sup> month</td><td colspan="2">3<sup>rd</sup> month</td><td colspan="2">4<sup>th</sup> month</td></tr><tr><td>Demo</td><td>Check</td><td>Demo</td><td>Check</td><td>Demo</td><td>Check</td></tr><tr><td>Gurappa</td><td>42</td><td>32</td><td>48</td><td>37</td><td>56</td><td>39</td></tr><tr><td>Vedavathi</td><td>32</td><td>29</td><td>39</td><td>34</td><td>47</td><td>41</td></tr><tr><td>Shobha</td><td>38</td><td>31</td><td>44</td><td>38</td><td>51</td><td>43</td></tr><tr><td colspan="6">In Progress</td></tr></table>	Name of the farmer	Body weight(kgs)						2 <sup>nd</sup> month		3 <sup>rd</sup> month		4 <sup>th</sup> month		Demo	Check	Demo	Check	Demo	Check	Gurappa	42	32	48	37	56	39	Vedavathi	32	29	39	34	47	41	Shobha	38	31	44	38	51	43	In Progress					
						Name of the farmer		Body weight(kgs)																																												
								2 <sup>nd</sup> month		3 <sup>rd</sup> month		4 <sup>th</sup> month																																								
							Demo	Check	Demo	Check	Demo	Check																																								
						Gurappa	42	32	48	37	56	39																																								
						Vedavathi	32	29	39	34	47	41																																								
						Shobha	38	31	44	38	51	43																																								
						In Progress																																														

### Fisheries

Category	Thematic area	Name of the technology demonstrated	No. of KVKs	No. of Farmer	No. of units / ha	Major parameters (Yield kg/ha)		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
						Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Fishery	Fisheries	Demonstration of Composite fish culture in farm pond		08	8 Units	1165.6	829.5	40.51	--	--	23750	133250	109500	5.6	13593	66375	52781	4.9
	Total			05	2.0													

### Other enterprises

Category	Name of the technology	No. of KVKs	No. of Demo	Units/ Area	Yield (q/ha)	% Increase	Other parameter	*Economics of demonstration (Rs./unit) or (Rs./m2)	*Economics of check (Rs./unit) or (Rs./m2)
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	demonstrated			{m <sup>2</sup> }	Demo		Check if any		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR	
Maize	Value addition branding & marketing linkages in maize	--	2 SHG's (30)	2 SHG's	Maize flour	40	25	60	--	--	3520	6400	2880	1.81	2880	4000	1120	1.38	
					Nutrimix	150	100	50	--	--	2850	7500	4650	2.63	2100	5000	2900	2.38	
					Maize rava	40	30	33	--	--	1100	2000	9000	1.81	900	1500	600	1.66	
Nutrition garden	Demonstration of nutrition garden for nutrition security among school children	--	5	5 unit	--	--	73.00	39.72	83.78	--	--	850	2920	2070	3.47	550	1589	1039	2.94
Terrace garden	Demonstration of terrace gardening in urban and semi urban area	--	11	11	--	--	66	26.81	146.17	--	--	609	2640	2030	4.46	450	1072	622.72	2.41

#### Women empowerment:NIL

Category	Name of technology	No. of KVKs	No. of demonstrations	Name of observations	Demonstration	Check
<b>Women</b>	-	-	-	-	-	-

#### Farm implements and machinery :NIL

Name of the implement	Crop	Name of the technology demonstrated	No. of KVKs	No. of Farmer	Area (ha)	Filed observation (output/man hour)		% change in major parameter	Labor reduction (man days)				Cost reduction (Rs./ha or Rs./Unit ect.)			
						Demonstration	Check									

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

\*\* BCR= GROSS RETURN/GROSS COST

#### Other enterprises

#### Demonstration details on crop hybrids

Crop	Name of the Hybrid	No. of farmers	Area (ha)	Yield (kg/ha) / major parameter			Economics (Rs./ha)			
				Demonstration	Local check	% change	Gross Cost	Gross Return	Net Return	BCR
<b>Cereals</b>										
Maize	Ganga Kaveri	4	4	64.46	59.78	7.82	25600	64460	38860	2.51
<b>Total</b>		4	4	64.46	59.78	7.82	25600	64460	38860	2.51

## IV. Training Programme

### 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
Integrated Crop Management	3	18	19	37	17	13	30	35	32	67
Others (pl.specify) Crop production and marketing	4	298	7	305	7	0	7	305	7	312
Cultivation of Fruit	1	23	7	30	0	0	0	23	7	30
Others (pl.specify) livestock management	1	30	2	32	0	0	0	30	2	32



Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Others (pl.specify) Mushroom cultivation	1	0	32	32	0	0	0	0	32	32
Plant protection and coconut climbing	2	49	2	51	7	0	7	56	2	58
Integrated fish farming	1	8	1	9	4	1	5	12	2	14
<b>TOTAL</b>	13	426	70	496	35	14	49	461	84	545

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production	7	75	81	156	11	28	39	86	109	195
Others (pl.specify) Production	2	32	9	41	2	0	2	34	9	43
Integrated nutrient management	4	46	9	55	15	8	23	61	17	78
Dairy Management	2	13	14	27	6	9	17	19	23	42
Value addition	1	0	1	0	0	29	29	0	30	30
Integrated Pest Management	5	104	0	104	13	12	25	117	12	129
Integrated fish farming	1	20	3	23	2	2	4	22	5	27
<b>TOTAL</b>	22	290	117	406	49	88	139	339	205	544

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
<b>TOTAL</b>										

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

Area of training	No.	No. of Participants								
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	of Cour ses	General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops										
<b>TOTAL</b>										

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field/ Horticulture crops	3	50	9	59	35	13	48	85	22	107
<b>Total</b>	3	50	9	59	35	13	48	85	22	107

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
<b>Total</b>										

**7.G. Sponsored training programmes conducted :NIL**

Sl.No.	Area of training	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total

Sl.No.	Area of training	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
<b>1</b>	<b>Crop production and management</b>										
	<b>Total</b>										

**Details of sponsoring agencies involved**

- 1. CDB, Bangalore**
- 2. KSRLPS Bangalore**

3. Horticulture Department, Hassan

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

Sl.No.	Area of training	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
<b>1</b>	<b>Crop production and management</b>										
	<b>Grand Total</b>										

**V.EXTENSION PROGRAMME**

Activities	No. of Programmes	No. of farmers	No. of Extension personnel	Total
Field Day	12	956	569	1525
Exhibition	19	368089	362	368451
Film Show	29	1283	0	1283
Method Demonstrations	32	1207	34	1241
Lectures delivered as resource persons	189	10932	0	10932
Advisory Services	73	141026	0	141026
Farmers visit to KVK	608	0	0	0
Diagnostic visits	23	43	0	43

Exposure visits	8	264	82	346
Soil health Camp	2	76	0	76
Animal Health Camp	1	0	0	0
World food day	1	71	0	71
Women in agriculture day	1	74	0	74
Kisan Day	1	103	0	103
Important meetings	23	0	0	0
Farm Trails	2	0	0	0
Teaching Aids developed	23	0	0	0
KMAS Service	24	3381	0	3381
Total	1071	527505	1047	528552

#### Details of other extension programmes

Particulars	Number
News Letter	
News paper coverage	141
Technical Articles	65
Radio Talks	7
TV Talks	5
<b>Total</b>	<b>218</b>

## VI. PRODUCTION OF SEED/PLANTING MATERIAL

### .A. Production of seeds by the KVKs

Crop category	Name of the crop	Variety	Hybrid	Quantity of seed (qtl)	Value (Rs)	Number of farmers to whom provided
Cereals (crop wise)						
	Ragi(Bulk)	ML-365		0.50	1000.00	APMC
	Maize (Bulk)	Hema		7.80	10296.00	APMC
	Maize(Bulk)	Hema		28.7	30996.00	APMC
	Greengram	KKM-1		65	1625.00	APMC
Commercial crops						
Vegetables	Tomato	ArkaRakshak		1296.8 kg	15906.00	7
	Chilli	Jwala		70 kg	1260.00	5
Flower crops	Gladiolus	--		3 no	6.00	1
fruits	Banana		GraineNaine	9.5 kg	190.00	2
	Papaya		Red lady	14.5 kg	217.50	3

	Sapota	Cricket ball		221 kg	4420.00	3
	Jack Fruits	Local		1 kg	35.00	1
	Mango	Alphanso		1250 kg	15000.00	1
Spices						
Fodder crop seeds	Fodder	Co-3 (Cuttings)		118535 no	1,18,535.00	28
	Fodder	Co-3(Root slips)		7480 no	3740.00	8
Others (specify)	Paddy straw	BR-2655		118535 kg	9000.00	1
	Coconuts	Arasikere Tall		121	1210.00	2
	Coconuts	Arasikere Tall		1425.57 Kg	24948.00	APMC
	Coconut Fronds	Arasikere Tall		100	100.00	1
	Coconut Husk	Arasikere Tall		1000	500.00	1
	Coconut Fronds	Arasikere Tall		100	100.00	1
	Coconut Husk	Arasikere Tall		1000	500.00	1
<b>Total</b>					<b>239584.5</b>	

#### 9.B. Production of planting materials by the KVKs

Crop category	Name of the crop	Variety	Number	Value (Rs.)	Number of farmers to whom provided
Commercial					
Fruits	Papaya	Redlady	9224	92240	34
Vegetable	Drumstick	PKM-1	7535	75350	23
Medicinal and Aromatic					
	Chakramuni		342	3420	47
	Insulin		268	2680	24
	Coleus		11	110	1
	Amruthaballi		4	40	1
	Curry leaf		136	1360	56
<b>Total</b>			<b>17520</b>	<b>175200</b>	

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

Bio Products	Name of the bio-product	Quantity Kg	Value (Rs.)	Number of farmers to whom provided
Bio Agents	Earthworms	18.5	4625	17
Others (specify)	Banana special	1250	187500	87

<b>Total</b>	-	1268.5	192125	
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#### 9.D. Production of livestock materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	Number of farmers to whom provided
<b>Dairy animals</b>				
Cows	Cross breeds	1592.5	44590.00	5
		4932	91167.00	Society
Calves	Cross bred	1	250.00	1
Others (Pl. specify) Aged cows	Cross bred			
Duals (broiler and layer)	Giriraja	1213	75390	47
Birds	Giriraja	6.7	1005.00	1
Piglet	Yorkshier	31	68200.00	12
Adult Pig		895.66 kg	53740.00	4
<b>Total</b>			334342	

#### VII. DETAILS OF SOIL, WATER AND PLANT ANALYSIS: 2015-16

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)
<b>Soil Samples</b>	1663	1325	676	88850
<b>Water Samples</b>	1305	1108	563	78300
<b>Lime samples</b>	20	20	14	4700
<b>Organic Manure samples</b>	0	0	0	0
<b>Plant</b>	0	0	0	0
<b>Total</b>	<b>2988</b>	<b>2453</b>	<b>1253</b>	<b>171850</b>

#### VIII. SCIENTIFIC ADVISORY COMMITTEE

<b>Number of SACs conducted : 1</b>

#### IX. NEWSLETTER

<b>Number of issues of newsletter published : 1</b>

#### X. RESEARCH PAPER PUBLISHED

<b>Number of research paper published : -</b>

**XI. DETAILS ON RAIN WATER HARVESTING STRUCTURE AND MICRO-IRRIGATION SYSTEM**

<b>Activities conducted</b>				
<b>No. of Training programmes</b>	<b>No. of Demonstration s</b>	<b>No. of plant materials produced</b>	<b>Visit by farmers (No.)</b>	<b>Visit by officials (No.)</b>
-	-	-	-	-