



UNIVERSITY OF HORTICULTURAL  
SCIENCES, BAGALKOT



**ANNUAL PROGRESS REPORT**  
**(APRIL 2014-MARCH 2015)**

**ICAR-KRISHI VIGYAN KENDRA, KOLAR**  
**KARNATAKA**

## PART I – GENERAL INFORMATION ABOUT THE KVK

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

KVK Address	Telephone		E mail	Web Address
Krishi Vigyan Kendra College of Horticulture Tamaka, Kolar- 563 103	Office 08152 243099	Fax 08152 243028	Kvkkolar2012@gmail.com	

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

Address	Telephone		E mail	Web Address
	Office	Fax		
University of Horticultural Sciences, Bagalkot	08354201354	08354235152	<a href="mailto:vc@uhsbagalkot.edu.in">vc@uhsbagalkot.edu.in</a> <a href="mailto:doe@uhsbagalkot.edu.in">doe@uhsbagalkot.edu.in</a>	<a href="http://www.uhsbagalkot.edu.in">www.uhsbagalkot.edu.in</a>

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

Name	Telephone / Contact		
	Residence	Mobile	Email
K.Thulasi Ram	9448633234	9480696395	thulasiram_1968@yahoo.co.in

### 1.4. Year of sanction: December, 2012

1.5. Staff Position (as on 31<sup>st</sup> March 2015)

Sl. No.	Sanctioned post	Name	Designation	M/F	Discipline	Qualification	Pay Scale	Basic pay	Date of joining KVK	Permanent	Category
1	Programme Coordinator	K. Thulasiram	Programme Coordinator	M	Ag. Entomology	M.Sc	37400-67000+9000 AGP	49240	26-12-2012	Permanent	Other
2	Subject Matter Specialist	Dr.B.M.Maruti Prasad	Subject Matter Specialist	M	Horticulture	Ph.D	15600-39100+6000 AGP	22920	26-12-2012	Permanent	Other
3	Subject Matter Specialist	B.R.Premalatha	Subject Matter Specialist	F	Agronomy	M.Sc	15600-39100+6000 AGP	22920	26-12-2012	Permanent	Other
4	Subject Matter Specialist	Dr.K.R.Shashidhar	Subject Matter Specialist	M	Sericulture	Ph.D	15600-39100+6000 AGP	21600	17-01-2014	Permanent	SC
5	Subject Matter Specialist	NoorullaHaveri	Subject Matter Specialist	M	Plant Protection	M.Sc	15600-39100+6000 AGP	21600	27-01-2014	Permanent	OBC
6	Subject Matter Specialist	Dr.DeepaTerdal	Subject Matter Specialist	F	Home Science	Ph.D	15600-39100+6000 AGP	21600	03-02-2014	Permanent	SC
7	Subject Matter Specialist	Vacant	-	-	-	-	-	-	-	Permanent	-
8	Programme Assistant (Lab Tech.)/T-4	Santhosha H.M.	Programme Assistant (Lab Technician)	M	Horticulture	Ph.D	9300-34800+4200 AGP	13500	03-06-2014	Permanent	Other
9	Programme Assistant (Computer)/ T-4	C.S.GnanaSudha	Programme Assistant (Computer)	F	Computer Science	M.C.A.	9300-34800+4200 AGP	13500	27-01-2014	Permanent	SC
10	Farm Manager	UmeshNaik	Farm Manager	M	Agriculture	B.Sc	9300-34800+4200 AGP	13500	03-03-2014	Permanent	SC
11	Accountant	H.N.Ravishankar	Assistant	M	-	M.Com	16000-29600	16000	22-03-2013	Permanent	SC
12	Jr. Stenographer	Savitri G. Rudrapur	Stenographer	F	-	M.Com	20000-36300	20000	12-03-2014	Permanent	OBC
13	Driver	Pradeep	Driver	M	-	SSLC	6734	-	08-01-2014	Temporary	SC
14	Driver	-	-	-	-	-	-	-	-	-	-
15	Supporting staff	Yalaguradappa Belgal	Gardner	M	-	PUC	9600-14450	9600	18-11-2013	Permanent	Other
16	Supporting staff	Srinivass D. Gasti	Gardner	M	-	PUC	9600-14450	9600	02-03-2014	Permanent	SC

1.6. Total land with KVK (in ha) : 4 ha

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

1.7. Infrastructural Development: NIL

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	-	-	-	-	-	-	-
2.	Farmers Hostel	-	-	-	-	-	-	-
3.	Staff Quarters	-	-	-	-	-	-	-
	1	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-
	5	-	-	-	-	-	-	-
	6	-	-	-	-	-	-	-
4.	Demonstration Units	-	-	-	-	-	-	-
	1	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-
5	Fencing	-	-	-	-	-	-	-
6	Rain Water harvesting system	-	-	-	-	-	-	-
7	Threshing floor	-	-	-	-	-	-	-
8	Farm godown	-	-	-	-	-	-	-
9		-	-	-	-	-	-	-
10		-	-	-	-	-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Hero Splendor plus	2013	54600	4731	Good
Honda Activa	2013	61345	4943	Good
Bolero ZLX	2014	661886	20257	Good

C) Equipments & AV aids:

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Vegetable preservator	2014	3000	Good
Sealing machine	2014	1700	Good
Gas cylinder and stove	2014	5857	Good
Mixer and juicer	2014	4200	Good
Micro Oven	2014	5800	Good
Pressure Cooker	2014	1400	Good

1.8. Details SAC meeting conducted in 2014-15

Sl.No.	Date	No. of Participants	No. of absentees	Salient Recommendations	Action taken
1.	12.09.2014	30	1	Suggested to submit projects on mechanization in mango and vegetable crops.	Project submitted to NHB
2.				Advised to collect the mobile numbers of the participants during the trainings and other Extension activities and categorize them in the form of Taluk wise, Block wise and also crop wise for KMAS services.	Collected 6400 farmers numbers and categorized crop wise and taluk wise
3.				Suggested that KVK has to take up the production and sale of different micronutrient formulations and	Started producing mango special micronutrient

				mango fruit fly traps developed by IIHR and make them available in the KIOSK.	
4.				Suggested to have the rain water and roof water harvesting structures in the farm and buildings.	A farm pond has been dug and moisture conservation techniques are taken up in the form of catch pits, bu
5.				Identify the mango growers and create awareness among them to go for natural ripening in mango.	Groups have been identified and trainings will be imparted in March and April, 2015
6.				Create awareness among the farmers/ farm women about food processing and post harvest technology and value added products in mango and jack.	During training programmes information on post harvest technology and value added products in mango and jack is being given
7.				Suggested to have a KIOSK/ sales counter near the gate to sell planting material, value added products, micronutrient specials and other necessary information to farmers.	IFFCO has come forward to contribute a KIOSK for this purpose and will be materialized shortly

## 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	Irrigated (bore well)	Tomato- Ragi, Potato- Ragi, Vegetables- Ragi, Mulberry, Coconut, Sapota, papaya,Guavaetc.
2	Tank Irrigated	Paddy
3	Rainfed	Ragi based mixed cropping, Groundnut based intercropping, Maize, Pigeon pea, Horse gram, Field bean, Mango, Cashew, Tamarind etc.
4	Enterprises	Sericulture, Dairy, Poultry, Sheep and Goat rearing

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

S. No	Agro-climatic Zone	Characteristics
1	Eastern dry zone	This zone consists of an area of 1.808 mha. The annual rainfall ranges from 679.1-888.9 mm. More than 50 % of it is received during the Kharif season. The elevation is 800-900 m and the soils are red loamy in major areas, lateritic in the remaining areas

S.No	Agro ecological situation	Characteristics
	Semi –arid climate	The district receives an annual rainfall of 744 mm received in 45 rainy days. The duration of the monsoon, however, seems to be shrinking with the first three months in the year receiving very little rainfall in recent times. The rainfall distribution has two peaks, one during May and another during September. It is characterized by erratic and uneven distribution. Predominantly the tube wells/bore wells are the major source of irrigation in the district. There are about 41,311 ha of land being irrigated through such bore wells. The number of irrigation pump sets existing in the district is 50,366. Tanks and open wells are the other sources of irrigation.

### 2.3. Soil type/s

S. No	Soil type	Characteristics	Area in ha
1	Medium deep, red clayey soil	Red to a bright reddish-orange in color. They are typically quite acidic, often having a pH of less than 5.	7026
2	Medium deep, red gravelly soil	Red in color which is mainly due to ferric oxides. They are usually poor growing soils, low in nutrients and humus.	17946
3	Deep, red clayey loam soil	Clay loam is a soil mixture that contains more clay than other types of rock or minerals. These soils contains a good amount of plant nutrients and supports most types of plants and crops	88400
4	Deep, red clayey soil	Soil mixture contains less clay component. Nutritionallypoor.	119720
5	Deep, red gravelly clay soil	Same as clayey loam but gravelly in nature	20363
6	Deep, lateritic clayey soil	These soils are rich in iron and aluminium. Nearly all laterites are rusty-red because of iron oxides.	16813
7	Deep, lateritic gravelly clayey soil	Characteristically similar to the lateritic clayey but stony and gravelly nature less suitable for arable crop cultivation	10940
8	Deep, alluvial clayey soil (salt affected)	A soil deposit developed on floodplain and delta deposits. Soil supports good crop growth.	92843
9	Red gravelly clay soils (Rocky land)	They are less clayey and sandier and are poor in important minerals like lime, phosphorous and nitrogen. Red soil is acidic like that of the Lateritic soil.	11036

\*NBSS & LUP, RS, Bangalore (2013-14)

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

S. No	Crop	Area (ha)	Production (Metric tons)	Productivity (kg /ha)
Field crops				
1.	Ragi	55002	106879	1943
2.	Ground nut	6767	7288	1076

3.	Field bean	6476	3355	518
4.	Red gram	2506	1845	736
5.	Rice	1917	3984	2078
6.	Maize	1022	3157	3089
7.	Horse gram	550	664	1207
8.	Niger	289	45	155
9.	Mustard	214	28	130
10.	Tomato	9695	547753	57.13
Vegetable crops				
11.	Potato	6951	107928.2	15.46
12.	Beans	3299	34639.5	10.50
13.	Cabbage	1758	34039	19.63
14.	Knol-khol	1605	25680	16.00
15.	Green chilli	1441	29463	20.60
16.	Carrot	1387	27046.5	19.50
17.	Brinjal	1235	39520	32.00
18.	Radish	1029	12348	12.00
19.	Cauliflower	732	12078	16.50
20.	Onion	525	5521.5	18.91
21.	Capsicum	450	9000	20.00
22.	Ladies finger	322	2898	9.00
Fruit crops				
23.	Mango	46722	374140	40.07
24.	Banana	3720	91486	33.74
25.	Sapota	3403	52320	14.80
26.	Guava	475	8530	17.80
27.	Papaya	367	27628	75.22
28.	Grapes	219	4284	12.81
29.	Citrus	78	1558	19.78
30.	Pomegranate	42.2	1015	15.93
Plantation crops				
31.	Coconut	6657	691 (L. nuts)	0.12
32.	Cashewnut	2196	4246	2.01
33.	Arecanut	3.75	5.6	1.36
Spice crops				
34.	Tamarind	3489	14656	4.77
35.	Coriander	233	152.75	3.13
36.	Ginger	163	1837	11.61
37.	Dry chilli	150	274.9	1.57
38.	Turmeric	43	396.5	12
39.	Garlic	29	223.5	7.71
Flower crops				
40.	Marigold	655	6395	9.71
41.	Rose	556	963.9(L. flowers)	1.73
42.	Chrysanthemum	210	2995	14.1
43.	Aster	162	1567	9.58
44.	Jasmine	161	1101	6.87
45.	Crossandra	100	500	5.06
46.	Dhavana	774	7660	9.90
47.	Geranium	65	924	14.22

\* Statistical survey, Horticultural & Agricultural dept. (2014-15)

## 2.5. Weather data

Month	Rainfall (mm)		Temperature °C		Relative Humidity (%)
	Normal	Actual (14-15)	Maximum	Minimum	
Apr	29.00	6.10	32.73	21.36	50
May	84.20	77.10	34.09	22.09	59
Jun	53.80	86.04	30.96	21.22	74
Jul	76.00	49.98	28.38	20.45	78
Aug	87.00	47.80	28.19	20.41	77
Sep	145.20	73.86	29.03	20.20	74
Oct	143.80	137.18	26.83	20.06	76
Nov	60.40	31.20	27.70	17.86	72
Dec	24.20	11.30	27.51	17.64	69
Jan	3.80	2.28	28.00	16.16	62
Feb	5.40	0.00	31.14	16.82	50
Mar	11.20	25.20	33.00	20.16	47
Total	724.00	548.04			

Department of Agriculture, Kolar (2014-15)

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

Category	Population	Production	Productivity
<b>Cattle</b>			
Crossbred	151906	-	-
Indigenous	88563	-	-
Buffalo	49771	-	-
<b>Sheep</b>			
Crossbred	556	-	-
Indigenous	365838	-	-
Goats	88167	-	-
<b>Pigs</b>			
Crossbred	199	-	-
Indigenous	2738	-	-
Rabbits	305	-	-
<b>Poultry</b>			
Hens	424347	-	-
Desi	398575	-	-
Improved	25772	-	-
Ducks	1277	-	-
Turkey and others	90	-	-

Category	Area	Production	Productivity
<b>Fish</b>			
Marine	-	-	-
Inland	41.980 lakh (Fish seed stock)	2437.93 Tonnes	-
Prawn	-	-	-
Scampi	-	-	-
Shrimp	-	-	-

\* Dept. of animal husbandry & veterinary science, Kolar

2.7 District profile has been updated for 2014-15 Yes/No: Yes

## 2.8 Details of operational area / Villages

Sl.No.	Taluk	Name of the block	Name of the village	Duration	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Mulbagal	Mulbagal	Lingapura	1 Year	Potato, Tomato, Cabbage, Pole beans, Marigold, chrysanthemum, Ragi, Field Bean	Disease and pest severity and Injudicious use of insecticides and fungicides	Integrated Disease Management
2	Mulbagal	Mulbagal	Khadripura	1 Year	Potato, tomato, Cabbage, Pole beans, Carrot, Beetroot, Radish, Cucumber, Marigold, chrysanthemum, Ragi, Field Bean, Groundnut	Pest menace and Injudicious use of insecticides and fungicides	Integrated Pest Management
3	Mulbagal	Mulbagal	Khadripura	1 Year	Potato, tomato, Cabbage, Pole beans, Marigold, chrysanthemum, Ragi, Field Bean	Indiscriminate use of Fungicides for disease management	Integrated Disease Management
4	Mulbagal	Byrakuru	H.G. Halli	1 Year	Groundnut, Redgram, Mulberry, tomato, carrots	Low yields	New variety
5	Kolar	Sugutur	Kallur	1 Year	Red gram, Ragi, Field Bean, Mulberry, Potato, tomato, Cabbage, Pole beans, Marigold,	Local varieties and pest and disease problem	Integrated Pest Management
6	Kolar	Kolar	Yadahalli	1 Year	Ragi, Red gram, Field Bean, Mulberry, Potato, tomato, Cabbage, Pole beans, Marigold	Local varieties, low yields & blast disease memace	Varietal Evaluation
7	Kolar	Sugutur	Chitnalli	1 Year	Mango, Potato, tomato, Ragi, Field Bean, Red gram,	Poor management of Orchards and pest and disease problem	Integrated Crop Management
8	Kolar	Sugutur	Totli	1 Year	Potato, tomato, Cabbage, Pole beans, Marigold, chrysanthemum, Ragi, Field Bean	Poor management of orchards and pest and disease problem	Integrated Crop Management
9	Kolar	Kolar	Hoovalli	1 Year	Mulberry, Ragi, Field bean, Red gram	High incidence of silkworm disease and low cocoon yield	Integrated Disease Management
10	Kolar	Kolar	Hoovalli	1 Year	Mulberry, Ragi, Field bean, Red gram	High incidence of diseases and improper use of bed disinfectants	Integrated Disease Management
11	Kolar	Kolar	Hoovalli	1 Year	Mulberry, Ragi, Field bean, Red gram	Malnutrition	Nutritional imbalance
12	Kolar	Kolar	Nadupalli	1 Year	Mulberry, Ragi, Field bean, Red gram	severe infestation of Uzifly and low cocoon yield	Integrated Pest Management in silk worm raring
13	Bangarpet	Sundarpalya	Raisandra	1 Year	Davana, Banana, Ragi, potato, Tomato, Groundnut, Red gram	Low yields	Integrated Crop Management
14	Kolar	Sugutur	Matnalli	1 Year	Mulberry, Mango, Redgram, ragi, Tomato	Loss of freshness and nutrients	Storage loss
15	Kolar	Kolar	Matnalli	1 Year	Mulberry, Ragi, Redgram	Nutritional imbalance in adolescent girls	Iron deficiency in adolescent girls



## 2.9 Priority thrust areas

Sl. No	Thrust area
1	Yield optimization through improved varieties
2	Popularization of IPM and IDM
3	Organic farming
4	Improved Crop Management Practices in major fruits, vegetables and flower crops
5	Pest and disease management in mulberry and silkworm rearing
6	Addressing nutritional imbalance among farm women, adolescent girls and school children

PART III - TECHNICAL ACHIEVEMENTS

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

OFT				FLD			
4				12			
Number of OFTs		Number of farmers		Number of FLDs		Number of farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
4	3	53	50	12	12	114	101

Training				Extension Programmes			
74				1156			
Number of Courses		Number of Participants		Number of Programmes		Number of participants	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
55	74	1555	5188	385	1156	5850	10358

Livestock, poultry strains and fingerlings (No.)		Bi-products (Kg) Mango special	
Target	Achievement	Target	Achievement
--	--	--	1821 kg







addition										
Drudgery Reduction	-	-	-	-	-	-	-	-	-	-
Storage Technique	-	-	-	-	-	-	-	-	-	-
Mushroom cultivation	-	-	-	-	-	-	-	-	-	-
Others	1	-	-	-	-	-	-	-	-	1
Total	1			1	1					3

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Integrated Nutrient Management	-	-	-	-	-	-	-	-	-	-
Varietal Evaluation	-	-	-	-	-	-	-	-	-	-
Integrated Pest Management	-	-	-	-	-	-	-	-	-	-
Value addition	-	-	-	-	-	-	-	-	-	-
Drudgery Reduction	-	-	-	-	-	-	-	-	-	-
Storage Technique	-	-	-	-	-	-	-	-	-	-
Mushroom cultivation	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-

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

Thematic areas	Cattle	Poultry	Piggery	Rabbitry	Fisheries	TOTAL
Evaluation of Breeds	-	-	-	-	-	-
Nutrition Management	-	-	-	-	-	-
Disease of Management	-	-	-	-	-	-
Value Addition	-	-	-	-	-	-
Production and Management	-	-	-	-	-	-
Feed and Fodder	-	-	-	-	-	-
Small Scale income generating enterprises	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-

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

Thematic areas	Cattle	Poultry	Piggery	Rabbitry	Fisheries	TOTAL
Evaluation of Breeds	-	-	-	-	-	-
Nutrition Management	-	-	-	-	-	-
Disease of Management	-	-	-	-	-	-
Value Addition	-	-	-	-	-	-
Production and Management	-	-	-	-	-	-
Feed and Fodder	-	-	-	-	-	-
Small Scale income generating enterprises	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-

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

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

Thematic areas	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	-	-	-	-	-
	-	-	-	-	-
Varietal Evaluation	-	-	-	-	-
	-	-	-	-	-
Integrated Pest Management	Sericulture	Effectiveness of silkworm rearing bed disinfectants	15	15	3 crops
	-	-	-	-	-
Integrated Crop Management	-	-	-	-	-
	-	-	-	-	-
Integrated Disease Management	Potato	Integrated Management of Late blight of potato	5	5	1
	-	-	-	-	-
Small Scale Income Generation Enterprises	-	-	-	-	-
	-	-	-	-	-
Value addition	-	-	-	-	-
	-	-	-	-	-
Drudgery Reduction	-	-	-	-	-
	-	-	-	-	-
Storage Technique	-	-	-	-	-
	-	-	-	-	-
Mushroom cultivation	-	-	-	-	-
	-	-	-	-	-
Others	Home science	Assessment of nutritional status of farm women through composite flour mix supplementation	2	30	30 farm women
Total			22	55	

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

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

##### 4.B.3. 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	-	-	-	-
Nutrition management	-	-	-	-
Total				

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

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials	No. of farmers
Evaluation of breeds	-	-	-	-

Nutrition management	-	-	-	-
Small scale income generating enterprises	-	-	-	-
Total				

4.C1. Results of Technologies Assessed  
Results of On Farm Trial

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter Late blight (%PDI)	Results of assessment Yield (t/ha)	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Potato	Irrigated	Late blight	Management of Late blight of Potato	5	TO1:Mancozeb (0.2%),Dimethomorph (0.1%) + Mancozeb (0.2%), CoC(0.3%), Fenamidone + MancozebMetalaxyl + Mancozeb (0.2%), Cymoxanil + Mancozeb (0.3%) Propineb (0.2%), Chlorothalonil (0.2%)1 g, fenamidon + mancozeb 3 g	%PDI Yield and B:C ratio	24.99	20.10	Less incidence of late blight disease and relatively higher yield was found in alternative practice compared to farmers practice and recommended practice	-	-
				TO2:Tuber treatment with Mancozeb (0.25%) Foliar sprays: Metalaxyl+mancozeb (0.2%),Cymoxanil + Mancozeb (0.3%)	18.14		21.04				
				TO3:Soil application of Trichoderma and Pseudomonas Prophylatic–Mancozeb (0.2%)Cymoxanil + Mancozeb (0.3%) Dimethomorph (0.1%) with Mancozeb (0.2%) Fenamidon+mancozeb (0.3%)	11.14		24.32				

Continued...

Technology Assessed	Source of Technology	Production	Unit	Net Return (Profit) in Rs. / ha	BC Ratio
13	14	15	16	17	18
TO1: Mancozeb (0.2%),Dimethomorph (0.1%) + Mancozeb (0.2%), CoC(0.3%), Fenamidone + MancozebMetalaxyl + Mancozeb (0.2%), Cymoxanil + Mancozeb (0.3%) Propineb (0.2%), Chlorothalonil (0.2%)1 g, fenamidon + mancozeb 3 g	ITK	20.10	(t/ha)	40588	1.25
TO2: Tuber treatment with Mancozeb (0.25%) Foliar sprays: Metalaxyl+mancozeb (0.2%),Cymoxanil + Mancozeb (0.3%)	UASB	21.04	(t/ha)	58214	1.38
TO3: Soil application of Trichoderma and Pseudomonas Prophylatic–Mancozeb (0.2%)Cymoxanil + Mancozeb (0.3%) Dimethomorph (0.1%) with Mancozeb (0.2%) Fenamidone+mancozeb (0.3%)	CPRI, Shimla	24.32	(t/ha)	87590	1.56



Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter {Disease incidence(%)}	Results of assessment {Defective cocoon (%)}	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Mulberry	Irrigated	High incidence of diseases, improper use of bed disinfectants	Effectiveness of silkworm rearing bed disinfectants	3	T-1 Bundh powder	Disease incidence percentage, Defective cocoons & Cocoon yield	4.53	6.24	Among the disinfectants AnkushVijetha Green Was recorded low disease incident and low defective cocoon percentage followed by Rakshak and lime powder compared to farmers practice and better cocoon price/better returns	-	-
					T-2 Slaked lime powder		4.30	5.97			
					T-3AnkushVijetha Green		0.49	0.82			
					T-4 Rakshak		0.60	0.87			

Continued...

Technology Assessed	Source of Technology	Production	Unit	Net Return (Profit) in Rs. / ha	BC Ratio
13	14	15.0	16	17	18
T-1 Bundh powder	ITK	72.5	(kg/100 dfls)	10,417	1.91
T-2 Slaked lime powder	UASB	72.54	(kg/100 dfls)	10,490	1.93
T-3AnkushVijetha Green	CSR&TI, Mysore	81.10	(kg/100 dfls)	13,546	2.18
T-4 Rakshak	SSTL, Bangalore	80.30	(kg/100 dfls)	13,429	2.17

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter		Results of assessment (% increase)	Feedback from the farmer	Any refineme nt needed	Justificatio n for refinement
							8	9				
1	2	3	4	5	6	7	Before	After	10	11	12	
Food Science and Nutrition	--	Malnutrition and health care for vulnerable	Impact of composite flour mixes on farm women (especially vulnerable)	2	T-1 Normal family diet	Body mass index	15.92	17.59	1.67	Among the technologies the Anthropometric indices such as BMI, WHR andHb level increased in demo group over the check group.	-	-
						Waist to hip ratio	0.72	0.74	0.02			
						Heamoglobin (mg/dl)--	8.93	8.99	0.06			
					T-2 Composite flour mixes products as a supplementary food (100g/day) for three months	Body mass index	17.00	22.10	5.10			
						Waist to hip ratio	0.78	0.82	0.04			
						Heamoglobin (mg/dl)--	7.89	12.51	4.62			

Continued...

Sl. No.	Parameters	Demo		% increase	Check		% increase
		Before	After		Before	After	
1	Body mass index	17.00	22.10	5.10	15.92	17.59	1.67
2	Waist to hip ratio	0.78	0.82	0.04	0.72	0.74	0.02
3	Hemoglobin (mg/dl)	7.89	11.51	4.25	8.93	8.99	0.06

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 the technology assessed	: Management of Late blight of Potato
2.	Problem Definition	: Late blight

3. Details of technologies selected for assessment:

Category	Source of Technology	Technology details
Farmers practice (Injudicious use of fungicides)	ITK	Mancozeb (0.2%),Dimethomorph (0.1%) + Mancozeb (0.2%), CoC(0.3%), Fenamidone + MancozebMetalaxyl + Mancozeb (0.2%), Cymoxanil + Mancozeb (0.3%) Propineb (0.2%), Chlorothalonil (0.2%)1 g, fenamidon + mancozeb 3 g
Recommended practice	UAS (B)	Tuber treatment with Mancozeb (0.25%) Foliar sprays: Metalaxyl+mancozeb (0.2%),Cymoxanil + Mancozeb (0.3%)
Alternative practice	CPRI, Shimla	Soil application of Trichoderma and Pseudomonas Prophylatic–Mancozeb (0.2%)Cymoxanil + Mancozeb (0.3%) Dimethomorph (0.1%) with Mancozeb (0.2%) Fenamidone+ Mancozeb (0.3%)

4. Source of technology : CPRI, Shimla, UAS(B)

5. Production system and thematic area : Integrated disease management

6. Performance of the Technology with performance indicator:

Field No.	Farmers Practice (TO1)		Recommended practice (TO2)		Alternative practice (TO3)	
	PDI	Yield( t/ha)	PDI	Yield( t/ha)	PDI	Yield( t/ha)
1	26.04	20.75	19.21	21.34	10.97	23.83
2	25.06	19.65	18.91	20.13	11.01	23.07
3	24.39	20.00	17.58	21.55	11.40	24.91
4	24.82	19.88	17.76	20.87	11.07	24.61
5	24.68	20.23	17.26	21.35	11.27	25.21
Avg.	24.99	20.10	18.14	21.04	11.14	24.32

- 7) Feedback, matrix scoring of various technology parameter done through farmer participation/other scoring techniques : Soil enrichment with Trichoderma and PSB offers initial protection against the disease
- 8) Final recommendation for micro level situation: : May be included in the spray schedule of the crop
- 9) Constraints identified and feedback for research : -
- 10) Process of farmers participation and their reaction: :Participatory approach  
 Group discussion, Method demonstration & Field visits  
 Effective control, economical & Higheryield

1.	Title of the technology assessed	: Effectiveness of silkworm rearing bed disinfectants
2.	Problem Definition	: Improper use of bed disinfectants

3. Details of technologies selected for assessment:

Category	Source of Technology	Technology details
Farmers practice	ITK	Bundh powder
Recommended practice	CSR&TI Mysore	Slaked Lime powder
Alternative practice 1	CSR&TI Mysore	AnkushVijetha Green
Alternative practice 2	SSTL,Bangalore	Rakshak

4. Source of technology : ITK , CSR&TI Mysore, SSTL,Bangalore

5. Production system and thematic area : Integrated pest management in silkworm rearing

6. Performance of the Technology with performance indicator:

Field No.	(TO1) Bundh powder			(TO2) Slaked Lime powder			(TO3) Ankush Vijetha Green			(TO4) Rakshak		
	Disease incidence (%)	Defective cocoon (%)	Cocoon yield (kg/100 df'l's)	Disease incidence (%)	Defective cocoon (%)	Cocoon yield (kg/100 df'l's)	Disease incidence (%)	Defective cocoon (%)	Cocoon yield (kg/100 df'l's)	Disease incidence (%)	Defective cocoon (%)	Cocoon yield (kg/100 df'l's)
1	4.44	6.00	70.95	4.00	5.20	71.28	0.33	0.66	81.62	0.44	0.78	76.16
2	4.22	5.80	71.54	4.26	5.91	69.78	0.44	0.78	76.16	0.60	0.93	84.09
3	4.35	6.15	74.02	4.40	6.22	72.27	0.40	0.73	79.33	0.67	0.10	78.22
4	4.58	6.22	73.85	4.04	5.32	71.67	0.67	1.00	84.48	0.75	1.09	76.81
5	4.71	6.48	74.61	4.35	6.15	74.02	0.58	0.91	79.63	0.47	0.80	82.41
6	4.26	5.91	69.78	4.53	6.47	75.18	0.35	0.69	81.60	0.55	0.89	78.31
7	4.48	6.08	73.06	4.08	5.44	73.37	0.47	0.80	82.41	0.62	0.96	83.17
8	4.84	6.62	71.93	4.22	5.80	71.54	0.42	0.75	78.41	0.69	1.02	75.97
9	4.66	6.40	72.93	4.40	6.27	70.95	0.55	0.89	78.31	0.49	0.82	84.63
10	4.31	6.03	68.89	4.62	6.64	72.21	0.38	0.71	77.10	0.53	0.87	81.46
11	4.80	6.57	72.82	4.13	5.56	74.20	0.53	0.87	81.46	0.73	1.07	78.61
12	4.62	6.33	72.10	4.31	6.03	68.89	0.62	0.96	83.17	0.51	0.84	84.16
13	4.53	6.17	75.18	4.17	5.68	75.89	0.51	0.84	84.16	0.64	0.96	84.05
14	4.40	6.22	72.27	4.58	6.52	73.85	0.60	0.93	84.09	0.71	1.05	76.84
15	4.75	6.55	73.71	4.48	6.37	73.06	0.49	0.82	84.63	0.58	0.91	79.63
Avg	4.53	6.24	72.51	4.30	5.97	72.54	0.49	0.82	81.10	0.60	0.87	80.30

- 7) Feedback, matrix scoring of various technology parameter done through farmer participation/other scoring techniques : Timely application chemicals with correct dosage and spray interval effectively manages the disease.
- 8) Final recommendation for micro level situation: : May be included in the spray schedule of the crop
- 9) Constraints identified and feedback for research : -
- 10) Process of farmers participation and their reaction: : Participatory approach, Group discussion, Method demonstration & Field visits, Effective control, economical & Higher yield

1. Title of the technology assessed : Assessment of nutritional status of farm women through composite flour mix supplementation
2. Problem Definition : Malnutrition
3. Details of technologies selected for assessment: :

Category	Source of Technology	Technology details
Farmers practice	ITK	T-1 Normal family diet(Ragimudde, bassaru, rice, chapathi)
Recommended practice	UAS (B)	T-2 Composite flour mixes products as a supplementary food (100g/day) for three months along with normal family diet

4. Source of technology : UAS (B)
5. Production system and thematic area : Malnutrition
6. Performance of the Technology with performance indicator:

Field No.	Check						Demo					
	Body mass index		Waist to hip ratio		Heamoglobin (mg/dl)		Body mass index		Waist to hip ratio		Heamoglobin (mg/dl)	
	Before	After	Before	After	Before	After	Before	After	Before	After	Before	After
1	17.0	17.0	0.7	0.7	8.9	8.8	17.0	22.2	0.7	0.8	8.9	11
2	16.5	16.5	0.7	0.8	7.5	9.1	16.5	21.7	0.7	0.8	9.1	11.5
3	16.5	16.5	0.7	0.78	8.2	8.2	16.5	22.7	0.7	0.83	8.2	12
4	17.0	17.0	0.8	0.78	8.0	9.6	17.0	21.4	0.8	0.8	9.6	12.9
5	14.0	16.0	0.8	0.78	8.0	8.5	14.0	21.5	0.8	0.88	8.9	12.1
6	17.0	17.0	0.7	0.79	7.5	8.5	17.0	21.5	0.7	0.81	8.5	11.1
7	16.5	16.5	0.7	0.78	8.0	8.5	16.5	22.8	0.7	0.81	8.7	11.5
8	15.0	17.0	0.7	0.79	7.0	9.2	15.0	22.8	0.7	0.81	9.2	11.5
9	17.0	17.0	0.7	0.79	8.5	9.5	17.0	22.4	0.7	0.8	9.5	11.1
10	16.9	16.9	0.7	0.78	8.1	9.8	16.9	21.2	0.7	0.8	9.8	11.5
11	16.0	17.5	0.7	0.81	8.1	9.4	15.0	23.9	0.7	0.85	9.4	12.1
12	15.0	17.9	0.7	0.78	7.5	8.4	17.9	21.0	0.7	0.8	8.4	11.5
13	17.9	17.0	0.7	0.79	8.0	8.9	14.1	21.5	0.7	0.8	8.9	11
14	13.0	17.0	0.8	0.78	7.0	8.5	14.0	22.6	0.8	0.83	8.7	11
15	14.0	17.8	0.8	0.75	8.0	9.1	13.0	22.0	0.8	0.85	9.1	11
Avg	15.95	16.97	0.73	0.78	8.93	8.99	15.89	22.08	0.73	0.82	7.89	11.52

7. Feedback, matrix scoring of various technology parameter done through farmer participation/other scoring techniques : Timely feeding trial was given and better nutrition status was observed

8. Final recommendation for micro level situation: : May be included with daily diet of farm women which enhances the health in general

9. Constraints identified and feedback for research -

10. Process of farmers participation and their reaction: Group discussion, Training, Method demonstration

## 4.D1. Results of Technologies Refined : NIL

## 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	Production	Unit	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: NIL

## PART V - FRONTLINE DEMONSTRATIONS

## 5.A. Summary of FLDs implemented during 2014-15

S N	Category	Farming Situation	Season and Year	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Area (ha)		No. of farmers/ demonstration			Reasons
									Proposed	Actual	SC/ST	Others	Total	
1	Oil seeds	Rain fed	kharif2 014	Groundnut	K-6	-	Varietal introduction	Improved variety and bio fertilizers	2	2	10	-	10	-
2	Pulses	Rainfed	Kharif 2014	Redgram	BRG-5	-	Variety introduction& disease management	Popularization of improved variety and IPM in red gram	4	4	2	8	10	-
3	Milletts	Rainfed	Kharif 2014	Ragi	KMR-301	-	Variety introduction	Improved variety KMR 301 & bio fertilizers	4	4	1	9	10	-
4	Vegetables	Irrigated	Kharif 2014	Cabbage	-	Unnati	IPDM	IPM & IDM in cabbage	0.8	0.8	-	4	4	-
5	Vegetables	Irrigated	Khairf 2014	Tomato	-	Arka Rakshak	IPDM	Demonstration of Triple disease resistant hybrid IPDM	0.6	0.6	-	03	03	-
6	Fruit	Rainfed	Rabi 2014	Mango	Alphonso	-	Integrated crop management	Demonstration of ICM	4	4	2	8	10	-
7	Enterprise	Irrigated	Rabi 2014	Mulberry		V1	Integrated pest management	Ecofriendly practices for management of mulberry	1500dfls	1500dfls	-	10	10	-
8		Irrigated	Rabi 2014	sericulture		PM X CSR2	Production and management	Integrated management Uzyfly in silkworm raring	1500dfls	1500dfls	-	10	10	-
9		Irrigated	Rabi 2014	Sericulture		PM X CSR 2	Production and management	Effective disinfection of silkworm rearing house	1500dfls	1500dfls	-	15	15	-
10	Medicinal and aromatic	Irrigated	Rabi 2014	Davana	-	-	Integrated crop management	Use of gibberlic acid	1	1	2	3	5	-
	Others (specify)													
11	Others	-	2014	Home science	--	--	Loss of nutrients and shelf life of vegetables	Demonstration of vegetable preserator	04	01	01	00	01	-
12	Others	-	2014	Home science	--	--	Prevalence of anemia	Iron Rich Food supplementation For Combating Anaemia In Adolescent Girls	-	-	02	28	30	--

## 5.A. 1. Soil fertility status of FLDs plots during 2014-15: Not carried out

Sl. No.	Category	Farming Situation	Season and Year	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Season and year	Status of soil			Previous crop grown
										N	P	K	
	Oilseeds	-	-	-	-	-	-	-	-	-	-	-	-

## 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
							H	L	A										
Oilseeds (Groundnut)	Promotion of improved variety and bio fertilizers	K-6	-	Rainfed	10	2	9.0	7.0	7.96	6.09	30.71	34875	31840	-3035	0.91	32562	24360	-8202	0.75
Pulses (Redgram)	Popularization of improved variety and IPM	BRG-5	-	Rainfed	10	4	175.0	112.5	143.75	121.25	18.55	35375	172500	137125	4.86	32562	145500	112937	4.47
Millets (Finger millet)	Promotion of improved variety and biofertilizers and blast management	KMR-301		Rainfed	10	4	30.5	24.5	27.36	20.75	31.85	25775	46816	21041.5	1.81	23150	35955.4	12805.5	1.56
Vegetables (Tomato)	Integrated pest and disease management		Araka Rakshak	Irrigated	3	0.6	530	508	516.6	463.3	10.31	171976	284166	112190	1.65	174295	254833	80538	1.46
(Cabbage)	Integrated pest and disease management		Unnati	Irrigated	4	0.8	525	460	490	418.7	14.55	163617	343000	179383	2.09	164607	293125	140952	1.78
Aromatic Crops (Davana)	Yield Maximization Through Growth Regulators in Davana	-	-	-	5	1	12.10	10.40	11.35	9.10	26.76	14518	72688	57532	4.06	11642	54624	43102	3.70



Fruit (Mango)	Integrated pest, disease and micro nutrient management in mango	Totapuri/Benishan		Rainfed	10	4	Demonstration is still going on												
Silkworm rearing	Effective disinfection of silkworm rearing house	PM X CSR 2	--	Irrigated	15	1500 dfls	84.36	79.74	82.05 (kg/100 dfls)	72.69 (kg/100 dfls)	11.41	11856	25439	13583	2.14	11487	21807	10981	1.90
Silkworm rearing	IPM of Uzifly in silkworm rearing	PM X CSR 2	--	Irrigated	10	1000 dfls	8463	76.87	80.75 (kg/100 dfls)	72.33 (kg/100 dfls)	10.43	11430	24923	13493	2.18	11400	21315	9915	1.87
Mulberry	Eco-friendly practices for management of mulberry leaf roller	V1	--	Irrigated	10	4 ha	13915	10435	121.75	111.98	8.02	22947	60873	37926	2.65	23082	57475	32910	2.42
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

\*\* BCR= GROSS RETURN/GROSS COST

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

#### 5.B.1.1. Results of Frontline Demonstrations of Home Science

Crop	Name of the technology demonstrated	No. of demo	Name of the School	School strength	Check			Demo		
					Monthly Expenditure (Vegetable purchase)		Purchase pattern	Monthly Expenditure (Vegetable purchase)		Purchase pattern
					Qty	Rs		Qty	Rs	
Home Science	Introduction of vegetable preservator	1	Government primary school, Matnhalli	90	145kg	3000	Daily	175 kg	3200	Twice in a week

Crop	Name of the technology demonstrated	No. of demo	Indices	Check		% increase	Demo		% increase
				Before	After		Before	After	
Home science	Iron Rich Food Products For Combating Anaemia In Adolescent Girls	2	Body mass index	16.00	21.00	5.00	14.85	15.05	0.20
			Heamoglobin (mg/dl)	7.97	12.06	4.09	8.04	9.15	1.11

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	
<b>Groundnut (K-6)</b>				
No. of pods/plant	29.20		19.85	
Plant height (cm)	29.93		25.30	
<b>Redgram (BRG-5)</b>				
Plant height (cm)	160.98		152.81	
No. of pods/plant	144.60		130.90	
% pod borer incidence	5.70		7.20	
Wilt Incidence(%)	0.83		4.35	
SMD Incidence(%)	2.77		4.55	
<b>Ragi (KMR-301)</b>				
Plant height (cm)	90.36		82.50	
No. of tillers/plant	7.30		5.80	
Straw yield (t)				
<b>Tomato (arakarakshak)</b>				
Whitefly/leaf	1.72		3.26	
Fruit borer/plant	1.43		3.50	
% Early blight	1.98		5.21	
% Late blight	11.5		18.90	
% ToLCV	3.26		6.30	
% ToSpo virus	1.10		2.86	
<b>Cabbage (Unnati)</b>				
% Black rot incidence	3.75		7.10	
DBM/plant	2.55		4.32	
Bugs/plant	2.45		4.82	
<b>Mango(Alphonso)</b>				
Hoppers/panicle	5.60		9.20	
% Powdery mildew	7.40		12.00	
Fruit fly catches /trap	10.60		-	
<b>Davana</b>				
Herbage (T/h)	11.35		9.10	
Oil yield (kg/h)	5.91		4.55	
<b>Effective disinfection of silkworm rearing house</b>				
Disease incidence (%)	0.53		4.55	
Defective cocoons (%)	0.49		4.93	
<b>IPM of Uzyfly in silkworm rearing</b>				
No. of uzyfly traps	28.90		0.00	
Uzy fly infected cocoon	0.84		6.14	
<b>Eco-friendly practices for management of mulberry leaf roller</b>				
Initial pest incidence (Nos)	4.77		4.91	
pest incidence 45 DAS (Nos)	0.38		2.26	
Demonstration of vegetable preservator in schools	Demo		Check	
Shelf life	Monthly Expenditure (Vegetable purchase) on daily basis		Monthly Expenditure (Vegetable purchase) on weekly basis	
	Qty	Rs.	Qty	Rs.
	145kg	3000	175 kg	3200
<b>Iron Rich Food Products For Combating Anaemia In Adolescent Girls</b>				
	Demo		Check	
	Before	After	Before	After
Body mass index	16.00	21.00	14.85	15.05
Heamoglobin (mg/dl)	7.97	12.06	8.04	9.15

## 5.B.2. Livestock and related enterprises: NA

Type of livestock	Name of the technology demonstrated	Breed	No. of Demo	No. of Units	Yield (q/ha)			% 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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

\*\* BCR= GROSS RETURN/GROSS COST

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

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

## 5.B.3. Fisheries : NA

Type of Breed	Name of the technology demonstrated	Breed	No. of Demo	Units / Area (m <sup>2</sup> )	Yield (q/ha)			% Increase	*Economics of demonstration (Rs./unit) or (Rs./m <sup>2</sup> )				*Economics of check (Rs./unit) or (Rs./m <sup>2</sup> )				
					Demo				Check if any	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					H	L	A										
Common carps	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

\*\* BCR= GROSS RETURN/GROSS COST-H-High L-Low, A-Average

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

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

## 5.B.4. Other enterprises: NA

Enterprise	Name of the technology demonstrated	Variety / species	No. of Demo	Units / Area (m <sup>2</sup> )	Yield (q/ha)			% Increase	*Economics of demonstration (Rs./unit) or (Rs./m <sup>2</sup> )				*Economics of check (Rs./unit) or (Rs./m <sup>2</sup> )				
					Demo				Check if any	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					H	L	A										
Oyster mushroom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

\* 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 : NA

Name of the implement	Cost of the implement in Rs.	Name of the technology demonstrated	No. of Demo	Area covered under demo in ha	Labour requirement in Mandays		% save	Savings in labour (Rs./ha)	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)				
					Demo	Check			Gross cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

\*\* BCR= GROSS RETURN/GROSS COST

Data on additional parameters other than 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	05	210	
2	Farmers Training	07		
3	Media coverage	10		
4	Training for extension functionaries	02		
5	Others (Please specify)	-		

## PART VI – DEMONSTRATIONS ON CROP HYBRIDS

Demonstration details on crop hybrids

Type of Breed	Name of the technology demonstrated	Name of the hybrid	No. of Demo	Area (ha)	Yield (q/ha)				% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demo		Check	Gross Cost		Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR	
					H	L	A										
Tomato	Demonstration of triple disease resistant hybrid (Arka Rakshak) & IPDM in tomato	Arka Rakshak	03	0.6	530	508	516.6	463.3	10.31	171976	284166	112190	1.65	174295	254833	80538	1.46
Cabbage	Integrated Pest and disease management	Unnati	04	0.8	525	460	490	418.7	14.55	163617	343000	179383	2.09	164607	293125	140952	1.78
Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

H-High L-Low, A-Average







Bimonthly workshops	04	-	-	00	-	-	-	-	-	140
Workshop/meeting with extension personnel	16	-	-	59	-	-	-	-	-	20
KMAS	184	-	-	-	-	-	-	-	-	-
Total	1156	-	-	9875	-	-	-	-	-	483

## PART IX – PRODUCTION OF SEED, PLANT AND LIVESTOCK MATERIALS

## 9.A. Production of seeds by the KVKs: Nil

Crop category	Name of the crop	Variety	Hybrid	Quantity of seed (qtl)	Value (Rs)	Number of farmers to whom provided
Total	-	-	-	-	-	-

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

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

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

Bio Products	Name of the bio-product	Quantity Kg	Value (Rs.)	Number of farmers to whom provided
Others (specify) MangoSpecial	Mango micronutrient mixture	1821	2,73,150	400

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

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	Number of farmers to whom provided
Total	-	-	-	-

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

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

## (A) KVK News Letter : Published 4 issues

Date of start	Periodicity	Number of copies printed	Number of copies distributed
April 2015	Quarterly	1500	700

## (B) Literature developed/published

Item	Title	Authors name	Number
Research papers	Shelf life of chocolate from elite cowpea(vignaanguiculata(L.) Walp) Genotypes- A Value added product	DeepaTerdal, UshaRavindra	1
News letters	KVK Newsletter (4)	All KVK staff	1500
Popular articles	Hippu nerale Besayadalli Savayava Gobbaragala Mahathva matthu Nirvahana Kramagalu	Shashidhar, K.R., DeepaTerdal, NoorullaHaveri, K. Thulasiram	-
	Hippu neraleyalli Bihara Kambali Keetada Samagra Nirvahana Kramagalu	Shashidhar, K.R., DeepaTerdal, NoorullaHaveri, K. Thulasiram	-
	Hippu neraleyalli Rasa hiruva Keetagala Nirvahana Kramagalu	Shashidhar, K.R., K. Thulasiram NoorullaHaveri, DeepaTerdal	-
	Surakshitha Keetanasakagala balake	NoorullaHaveri, K. Thulasiram, Shashidhar, K.R.	-
	Ahara poshane mattu arogya niyantranadalli jaivika thantragnana	DeepaTerdal, Shashidhar, K.R. NoorullaHaveri, K. Thulasiram	-
	Madhumeha Rogakke Srustiya Koduge Menthyekalu	DeepaTerdal, Shashidhar, K.R., UmehaNaik	-
	Gruha Kai thotadinda Gramanthara hagu Pattanadalli Aahara matthu Prathakshathayannu Hechhisuvudu	DeepaTerdal, UmehaNaik, Shashidhar, K.R.	-



	Mavu beleya Pramukha Keeta, Rogagalu hagu Nirvahana Kramagalu	NoorullaHaveri , K. Thulasiram, Shashidhar, K.R.,	-
	Hani Neeravari Paddathi	Santhosh, H.M.,K. Thulasiram, DeepaTerdal, Shashidhar, K.R. NoorullaHaveri	-
	Tomato Beleya Pramukha Rogagalu Hagu Nirvahana Kramagalu	Anjaneya reddy and Noorullah Haveri	-
	Sailage- Sarvakaalada hasiru mevru	UmeshNaik, K. Thulasiram, Shashidhar, K.R., DeepaTerdal	
	Jaayikaayiyalli gandu jaatiya maragala nirvahane	Santhosh, H.M., Maruthi Prasad.B.N and K. Thulasiram,	
Extension literature (Folders-11)	Hasiru Mane tantragnana	Dr. B.N.Mauthi Prasad, Dr. Santhosh H.M	1000
	Nerale beleya sudharita besaya kramagalu	Dr. Santhosh, Dr.B.N.MauthiPrasad ,K.Thulasiram	1000
	Hippu nerale besayadalli samagra roganirvahane	Dr.K.R. Shashidhar, K. Thulasiram, NoorullaHaveri, UmeshNaik	1000
	Tomato Beleyalli sasyasamrakshane	NoorullaHaveri, K. Thulasiram, Dr.K.R. Shashidhar, K. Dr. Santosh H.M.	1000
	Ruchiyada mattu sugandhabharita moulyavardhita halasina hannina padharthagal	Dr. DeepaTerdal, Dr.K.R. Shashidhar, K. Dr. Santosh H.M.	1000
	Reshme hulu sakanikeyalli sonkunivarane mattu nirmalyate	Dr.K.R. Shashidhar, K. Thulasiram, NoorullaHaveri, Dr. DeepaTerdal	1000
	Poorna onavalayakke sooktavada mevina belegalu	Premalatha, UmeshNaik	1000
	Hippunerale besayadalli samagra poshakamshagal	Dr.K.R. Shashidhar, K. Thulasiram, NoorullaHaveri, UmeshNaik	1000
	Alugadde Beleyalli samgra peede nirvahane	NoorullaHaveri, K. Thulasiram, Dr.K.R. Shashidhar, K. Dr. Santosh H.M.	1000
	Raktaheenateya niyantranadalli hannu mattu tarakarigala mahatva	Dr. DeepaTerdal	1000
	Bale beleyaa adhunika beesaya kramagalu	Dr. B.N. Maruthi Prasad, Dr. Santosh H.M., K. Thulasiram	1000
Others (Abstracts) National conference/Seminar	Studies on biochemical constituents of S <sub>36</sub> mulberry (Morusindica L.) as influenced by organic based nutritional management and its impact on silkworm (B.mori L.) bio-assay (Poster Presentation)	K.R. Shashidhar, T.K.Narayanswamy, R.N.Bhaskar, S. Chandrashekar and M.A. Shankar	-
	Effect of certain botanicals on commercial trials of silkworm (B.mori L.) (Oral Presentation)	R. Raganatha, N. Chandramohan, K.R. Shashidhar, R. Muralidhar and S. Chandrashekar	-

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

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):NIL

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)

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK

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

- Identification of courses for farmers/farm women: Discussion with farmers, extension functionaries
- Rural Youth
- Inservice personnel: Discussion with farmers, extension functionaries

10.G. Field activities

- i. Number of villages adopted
- ii. No. of farm families selected:

iii. No. of survey/PRA conducted: 04

10.H. Activities of Soil and Water Testing Laboratory: Nil

Status of establishment of Lab : Yet to establish

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

Sl. No	Name of the Equipment	Qty.	Cost
	-	-	-
Total			

Details of samples analyzed so far since establishment of SWTL: Yet to establish SWTL

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)
Soil Samples	-	-	-	-
Water Samples	-	-	-	-
Plant samples	-	-	-	-
Manure samples	-	-	-	-
Others (specify)	-	-	-	-
Total	-	-	-	-

Details of samples analyzed during the 2014-15: NIL

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)
Soil Samples	-	-	-	-
Water Samples	-	-	-	-
Plant samples	-	-	-	-
Manure samples	-	-	-	-
Others (specify)	-	-	-	-
Total	-	-	-	-

10.I. Technology Week celebration during 2014-15 : NIL

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

#### PART XI. IMPACT

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

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
-	-	-	-	-

NB: Should be based on actual study, questionnaire/group discussion etc. with ex-participants.

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
KSDA	Training programmes, diagnostic field visits, surveys, meetings etc
KSDH	Training programmes, diagnostic field visits, surveys, meetings etc
Veterinary & Animal husbandary	Training programmes, diagnostic field visits, surveys, meetings etc
Sericulture	Training programmes, diagnostic field visits, surveys, meetings etc
Karnataka Milk Federation	Training programmes, diagnostic field visits, surveys, meetings etc
Dept. of Fisheries	Meetings etc

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 Externally Funded Projects / schemes undertaken by the KVK and operational now, which have been financed by State Govt./Other Agencies

Name of the scheme	Role of KVK	Date/ Month of initiation	Funding agency	Amount (Rs.)
Front line demonstration on cashew	Guiding beneficiary farmers planted cashew at Cikkballapur and Kolar about advances in production technology like HDP, training and pruning, pest & disease management, fertilizer management	11.11.2012 to 31.03.2015	DCCD Kochi	9.1 lakh

## 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?

KVK is involved in preparation of second phase of SREP of Kolar district and other programmes like trainings, field days, FFS etc., as and when required.

## Coordination activities between KVK and ATMA during 2014-15

S. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK	Other remarks (if any)
01	Meetings	-	-	-	-
02	Research projects	-	-	-	-
03	Training programmes	-	-	-	-
04	Demonstrations	-	-	-	-
05	Extension Programmes	-	-	-	-
	KisanMela	-	-	-	-
	Technology Week	-	-	-	-
	Exposure visit	-	-	-	-
	Exhibition	-	-	-	-
	Soil health camps	-	-	-	-
	Animal Health Campaigns	-	2	-	-
	Others (Pl. specify)	-	-	-	-
06	Publications	-	-	-	-
	Video Films	-	-	-	-
	Books	-	-	-	-
	Extension Literature	-	-	-	-
	Pamphlets	-	-	-	-
	Others (Pl. specify)	-	-	-	-
07	Other Activities (Pl. specify)	-	-	-	-
	Watershed approach	-	-	-	-
	Integrated Farm Development	-	-	-	-
	Agri-preneurs development	-	-	-	-
		-	-	-	-

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

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

## 12.E. Nature of linkage with National Fisheries Development Board :NA

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 :NA

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

## 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
August	5	28	-
September	42	37157	-
October	22	57853	-
November	28	73976	-



## 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							
With KVK	State Bank of India	Kolar	6029	KVK, Kolar	34004434216	563002101	SBIN0006029

## 14.B. Utilization of KVK funds during the year 2014-15(Rs. in lakh)

S. No.	Particulars	Sanctioned	Released	Expenditure
<b>A. Recurring Contingencies</b>				
1	Pay & Allowances	5750000	5750000	6405493
2	Traveling allowances	75000	75000	65006
3	Contingencies			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	40000	40000	89010
B	POL, repair of vehicles, tractor and equipments	150000	150000	276247
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	20000	20000	31212
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	20000	20000	138883
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	224000	224000	125737
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	40000	40000	33113
G	Training of extension functionaries	10000	10000	0
H	Integrated farming system	10000	10000	0
I	Maintenance of buildings	0	0	0
J	Establishment of Soil, Plant & Water Testing Laboratory	0	0	0
k	Library	0	0	753
L	Extension activities	10000	10000	38201
M	Farmers field school	10000	10000	0
<b>TOTAL (A)</b>		<b>6359000</b>	<b>6359000</b>	<b>7203655</b>
<b>B. Non-Recurring Contingencies</b>				
1	Works	0.00	0.00	0.00
2	Equipments including SWTL & Furniture	0.00	0.00	0.00
3	Vehicle (Four wheeler/Two wheeler, please specify)	0.00	0.00	0.00
4	Library (Purchase of assets like books & journals)	0.00	0.00	0.00
<b>TOTAL (B)</b>		<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>C. REVOLVING FUND</b>		<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>GRAND TOTAL (A+B+C)</b>		<b>6359000</b>	<b>6359000</b>	<b>7203655</b>

## 14.C. Status of revolving fund (Rs. in lakh) for the three years:

Year	Opening balance as on 1 <sup>st</sup> April	Income during the year	Expenditure during the year	Net balance in hand as on 1 <sup>st</sup> April of each year
April 2014 to March 2015	1,00,000	1,34,920	1,12,130	1,22,790

## 15. Details of HRD activities attended by KVK staff during 2014-15

Name of the staff	Designation	Title of the training programme	Institute where attended	Dates
Noorulla Haveri	Subject Matter Specialist	Training programme on professional skills for trainers of Extension institutes of agriculture and allied departments	National Institute of Agricultural Extension Management (Manage)	07-11 July.2014

K. Thulasiram	Programme coordinator	IPM in horticultural crops - a refresher course	NBAIR Bangalore	23-25 July 2014
Dr.K.R.Shashidhar	Subject Matter Specialist	Orientation programme on Mandated activities of the KVK- phase II	Manage Hyderabad	14-17 Oct.2014
Dr. Deepa Terdal	Subject Matter Specialist	Home science Workshop	UAS Dharwad	28-30 Oct 2014
Dr.B.M. Maruti Prasad	Subject Matter Specialist	Advances in production of Quality planting material in plantation crops	ICAR- CPCRI Regional station kayamkulam	18-27 Nov.2014
Noorulla Haveri	Subject Matter Specialist	Training on Participatory Impact Monitoring and Assessment	JSS ICAR KVK Mysore	01-06 Dec 2014
Dr.K.R.Shashidhar	Subject Matter Specialist	Innovative extension approaches	Vijayapura	03-06 Dec. 2014
Dr. DeepaTerdal	Subject Matter Specialist	Orientation programme on Mandated activities of the KVK- phase II	Vijayapur	03-06 Dec 2014
B.R.Premalatha	Subject Matter Specialist	Land resource Inventory (LRI) for enhancing productivity through Agro-technology transfer	GKVK, Bangalore	03-23 Dec 2014
Smt. C.S. Gnana Sudha	Programme Assistant (Computer)	Training Programme on Database Management Systems	JSS ICAR KVK Mysore	16-17 Dec 2014

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

Summary of technologies assessed under various crops

Thematic areas	Crop	Name of the technology assessed	No. of trials
Integrated Disease Management	Potato	Management of late blight of Potato	05
Integrated Pest Management	Mulberry	Effectiveness of silkworm rearing bed disinfectants	03
Total			08

Summary of technologies assessed under livestock: NIL

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials
Disease Management	-	-	-
Total			-

Summary of technologies assessed under various enterprises: NIL

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
Others	Home science	Impact of Composite mix flour on farm women	02

### II. TECHNOLOGY REFINEMENT

Summary of technologies refined under various crops: NIL

Thematic areas	Crop	Name of the technology refined	No. of trials
Integrated Nutrient Management	-	-	-
	-	-	-
Varietal Evaluation	-	-	-
	-	-	-
Total			-

Summary of technologies assessed under refinement of various livestock : NIL

Thematic areas	Name of the livestock enterprise	Name of the technology refined	No. of trials
Disease Management	-	-	-
Evaluation of Breeds	-	-	-
Feed and Fodder management	-	-	-
Nutrition Management	-	-	-
Production and Management	-	-	-
Others (Pl. specify)	-	-	-
Total			-

Summary of technologies refined under various enterprises : NIL

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

Summary of technologies refined under home science : NIL

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



## III. FRONTLINE DEMONSTRATION

Crop	Name of the technology demonstrated	Variety	Hybrid	Farming situation	No. of Demo.	Area (ha)	Yield (q/ha)				% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
							Demo			Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
							H	L	A										
Oilseeds (Groundnut)	Promotion of improved variety and bio fertilizers	K-6	-	Rainfed	10	2	9.0	7.0	7.96	6.09	30.71	34875	31840	-3035	0.91	32562	24360	-8202	0.75
Pulses (Redgram)	Popularization of improved variety and IPM	BRG-5	-	Rainfed	10	4	175.0	112.5	143.75	121.25	18.55	35375	172500	137125	4.86	32562	145500	112937	4.47
Millets (Finger millet)	Promotion of improved variety and biofertilizers and blast management	KMR-301		Rainfed	10	4	30.5	24.5	27.36	20.75	31.85	25775	46816	21041.5	1.81	23150	35955.4	12805.5	1.56
Vegetables (Tomato)	Integrated pest and disease management		Araka Rakshak	Irrigated	3	0.6	530	508	516.6	463.3	10.31	171976	284166	112190	1.65	174295	254833	80538	1.46
(Cabbage)	Integrated pest and disease management		Unnati	Irrigated	4	0.8	525	460	490	418.7	14.55	163617	343000	179383	2.09	164607	293125	140952	1.78
Aromatic Crops (Davana)	Yield Maximization Through Growth Regulators in Davana	-	-	-	5	1	12.10	10.40	11.35	9.10	26.76	14518	72688	57532	4.06	11642	54624	43102	3.70
Fruit (Mango)	Integrated pest, disease and micro nutrient management in mango	Totapuri/Benishan		Rainfed	10	4	Demonstration is still going on												
Silkworm rearing	Effective disinfection of silkworm rearing house	PM X CSR 2	--	Irrigated	15	1500 dfls	84.36	79.74	82.05 (kg/100 dfls)	72.69 (kg/100 dfls)	11.41	11856	25439	13583	2.14	11487	21807	10981	1.90
Silkworm rearing	IPM of Uzifly in silkworm rearing	PM X CSR 2	--	Irrigated	10	1000 dfls	8463	76.87	80.75 (kg/100 dfls)	72.33 (kg/100 dfls)	10.43	11430	24923	13493	2.18	11400	21315	9915	1.87

Mulberry	Eco-friendly practices for management of mulberry leaf roller	V1	--	Irrigated	10	4 ha	13915	10435	121.75	111.98	8.02	22947	60873	37926	2.65	23082	57475	32910	2.42
Others (pl. specify)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

\*\* BCR= GROSS RETURN/GROSS COST

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

#### 5.B.1.1. Results of Frontline Demonstrations of Home Science

Crop	Name of the technology demonstrated	No. of demo	Name of the School	School strength	Check			Demo		
					Monthly Expenditure (Vegetable purchase)		Purchase pattern	Monthly Expenditure (Vegetable purchase)		Purchase pattern
					Qty	Rs		Qty	Rs	
Home Science	Introduction of vegetable preservator	1	Government primary school, Matnhalli	90	145kg	3000	Daily	175 kg	3200	Twice in a week

Crop	Name of the technology demonstrated	No. of demo	Indices	Check		% increase	Demo		% increase
				Before	After		Before	After	
Home science	Iron Rich Food Products For Combating Anaemia In Adolescent Girls	2	Body mass index	16.00	21.00	5.00	14.85	15.05	0.20
			Heamoglobin (mg/dl)	7.97	12.06	4.09	8.04	9.15	1.11

## Livestock :

Category	Thematic area	Name of the technology demonstrated	No. of KV Ks	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total			-	-	-	-												

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

\*\* BCR= GROSS RETURN/GROSS COST

## Fisheries

Category	Thematic area	Name of the technology demonstrated	No. of KV Ks	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
Common carps	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total			-	-	-	-												

\* 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

Category	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.) or Rs./unit				*Economics of check (Rs.) or Rs./unit				
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR	
Others (pl. specify)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total			-	-	-	-												

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

\*\* BCR= GROSS RETURN/GROSS COST

Women empowerment: NIL



Capacity Building and Group Dynamics	-	-	-	-	-	-	-	-	-	-
Agro-forestry	-	-	-	-	-	-	-	-	-	-
Others (Pl. specify) Sericulture	02	50	-	50	-	-	-	50	-	50
TOTAL	04	50	105	155	-	-	-	50	105	155

## 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	-	-	-	-	-	-	-	-	-	-
Integrated Crop Management	06	505	106	611	104	35	139	609	141	750
Horticulture	04	120	30	150	35	15	50	155	45	200
a) Vegetable Crops	-	-	-	-	-	-	-	-	-	-
Production of low value and high volume crop	-	-	-	-	-	-	-	-	-	-
Protective cultivation	-	-	-	-	-	-	-	-	-	-
b) Fruits	-	-	-	-	-	-	-	-	-	-
c) Ornamental Plants	-	-	-	-	-	-	-	-	-	-
d) Plantation crops	-	-	-	-	-	-	-	-	-	-
e) Tuber crops	-	-	-	-	-	-	-	-	-	-
f) Spices	-	-	-	-	-	-	-	-	-	-
g) Medicinal and Aromatic Plants	-	-	-	-	-	-	-	-	-	-
Soil Health and Fertility Management	-	-	-	-	-	-	-	-	-	-
Livestock Production and Management	-	-	-	-	-	-	-	-	-	-
Home Science/Women empowerment	20	-	1165	1165	-	876	876	-	2041	2041
Household food security by kitchen gardening and nutrition gardening	-	-	-	-	-	-	-	-	-	-
Value addition	-	-	-	-	-	-	-	-	-	-
Agril. Engineering	-	-	-	-	-	-	-	-	-	-
Plant Protection	-	-	-	-	-	-	-	-	-	-
Integrated Pest Management	10	560	130	690	190	-	190	750	130	880
Integrated Disease Management	8	180	100	280	60	50	110	240	150	390
Fisheries	-	-	-	-	-	-	-	-	-	-
Production of Inputs at site	-	-	-	-	-	-	-	-	-	-
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-
Capacity Building and Group Dynamics	-	-	-	-	-	-	-	-	-	-
Agro-forestry	-	-	-	-	-	-	-	-	-	-
Sericulture	13	134	-	134	350	-	350	134	350	484
TOTAL	61	1499	1531	3030	739	976	1715	1888	2857	4745

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Preparation of decorative items from waste cocoons	1	10	40	50	--	--	--	10	40	50
TOTAL	1	10	40	50	--	--	--	10	40	50

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	-	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-	-	-

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
Integrated Pest Management(Major field & Horticultural crops o the district)	4	95	46	141	-	-	-	-	-	-
Integrated Crop Management(Agronomy)	2	40	10	50	-	-	-	-	-	-
Horticulture(Protected cultivation structures & maintenance)	2	100	45	145	-	-	-	-	-	-
Total	8	235	101	336	-	-	-	235	101	336

Training programmes for Extension Personnel including sponsored training programmes (off campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Integrated Pest Management	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-

7.G. Sponsored training programmes conducted

S.No.	Area of training	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
1	Crop production and management	-	-	-	-	-	-	-	-	-	
	Total	-	-	-	-	-	-	-	-	-	

Details of sponsoring agencies involved: NIL

Details of Vocational Training Programmes carried out by KVKs for rural youth: NIL

S.No.	Area of training	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
1	Crop production and management	-	-	-	-	-	-	-	-	-	

#### 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	07	500	55	555	-	-	-	-	-	31
KisanMela	03	-	-	5000	-	-	-	-	-	-
KisanGhoshi	00	-	-	00	-	-	-	-	-	00
Kisan divas	01	60	10	70	-	-	-	-	-	06
Exhibition	10	1500	980	2480	-	-	-	-	-	125
Film Show	00	-	-	00	-	-	-	-	-	00
Method Demonstrations	10	65	15	85	-	-	-	-	-	05
Farmers Seminar	00	-	-	00	-	-	-	-	-	00
Group meetings	17	300	100	400	-	-	-	-	-	00
Lectures delivered as resource persons	10	80	10	90	-	-	-	-	-	00
Newspaper coverage	58	-	-	00	-	-	-	-	-	00

Radio talks	02	-	-	00	-	-	-	-	-	00
TV talks	01	-	-	-	-	-	-	-	-	-
Publication (Research Papers)	02	-	-	-	-	-	-	-	-	-
Popular articles	13	-	-	-	-	-	-	-	-	-
Extension Literature	11	-	-	-	-	-	-	-	-	-
Advisory Services/ Helpline services	279	279	-	279	-	-	-	-	-	79
Farmers visit to KVK	159	120	39	159	-	-	-	-	-	49
Field visit	273	196	73	269	-	-	-	-	-	04
Diagnostic visits	25	69	10	79	-	-	-	-	-	06
Exposure visits	02	40	-	40	-	-	-	-	-	2
Ex-trainees Sammelan	00	-	-	-	-	-	-	-	-	-
Soil health Camp	01	80	20	100	-	-	-	-	-	-
Animal Health Camp	01	45	15	60	-	-	-	-	-	06
Agri mobile clinic	00	-	-	-	-	-	-	-	-	-
Soil test campaigns	00	-	-	-	-	-	-	-	-	-
Farm Science Club Conveners meet	00	-	-	-	-	-	-	-	-	-
Self Help Group Campaigns	02	05	25	30	-	-	-	-	-	00
Mahila Mandals Conveners meetings	00	-	-	-	-	-	-	-	-	-
Celebration of important days (world food day)	01	60	10	70	-	-	-	-	-	5
Technological week	00	-	-	-	-	-	-	-	-	-
Any Other (Visit to line departments)	28	-	-	-	-	-	-	-	-	-
Any other (PRA/Survey)	02	45	5	50	-	-	-	-	-	10
Any other (AV aids developed) charts	34	-	-	-	-	-	-	-	-	-
Annual technical meet	-	-	-	-	-	-	-	-	-	-
Bimonthly workshops	04	-	-	00	-	-	-	-	-	140
Workshop/meeting with extension personnel	16	-	-	59	-	-	-	-	-	20
KMAS	184	-	-	-	-	-	-	-	-	-
Total	1156	-	-	9875	-	-	-	-	-	483

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production	-	-	-	-	-	-	-	-	-	-
TOTAL										

## 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	-	-	-	-	-	-	-	-	-	-
Integrated Crop Management	11	455	91	655	84	25	-	-	-	655
Horticulture	06	100	40	140	196	52	-	-	-	428
a) Vegetable Crops	-	-	-	-	-	-	-	-	-	-
Production of low value and high volume crop	06	90	20	110	80	58	-	-	-	248
Protective cultivation	1	36	-	36	15	-	15	51	-	51
Others (pl.specify) (Improved production technology of Rose)	1	40	-	40	-	-	-	40	-	40
Home Science/Women empowerment	16	-	1165	1165	-	780	-	-	-	1945
Household food security by kitchen gardening and nutrition gardening	1	-	35	35	-	6	-	-	-	37
Value addition	1	-	30	30	-	10	10	-	40	40





## V – EXTENSION PROGRAMMES

Activities	No. of Programmes	No. of Farmers	No. of extension personnel	Total
Field Day	07	555	31	562
KisanMela	03	5000	-	5003
KisanGhoshi	00	00	00	0
Kisan divas	01	70	06	71
Exhibition	10	2480	125	2490
Film Show	00	00	00	0
Method Demonstrations	10	85	05	95
Farmers Seminar	00	00	00	0
Group meetings	17	400	00	417
Lectures delivered as resource persons	10	90	00	100
Newspaper coverage	58	00	00	58
Radio talks	02	00	00	2
TV talks	01	-	-	1
Publication	02	-	-	2
Popular articles	13	-	-	13
Extension Literature	11	-	-	11
Advisory Services/ Helpline services	279	200	79	479
Farmers visit to KVK	159	159	49	318
Field visit	273	269	04	542
Diagnostic visits	25	79	06	104
Exposure visits	02	40	2	42
Ex-trainees Sammelan	00	-	-	0
Soil health Camp	00	-	-	0
Animal Health Camp	01	70	06	71
Agri mobile clinic	00	-	-	0
Soil test campaigns	00	-	-	0
Farm Science Club Conveners meet	00	-	-	0
Self Help Group Campaigns	02	30	-	32
MahilaMandals Conveners meetings	00	-	-	0
Celebration of important days (world food day)	01	70	-	71
Technological week	00	-	-	0
Any Other (Visit to line departments)	28	-	-	28
Any other (PRA/Survey)	02	50	-	52
Any other (AV aids developed) charts	34	-	-	34
Annual technical meet	01	-	-	1
Bimonthly workshops	04	00	-	4
Workshop/meeting with extension person	16	59	-	75
KMAS	192	-	-	192
Total	1164	9706	313	11183

## Details of other extension programmes

S No	Particulars	Number
1	Electronic Media	-
2	Extension Literature (Folders)	11
3	News Letter	04
4	Newspaper coverage	58
5	Technical Articles	-
6	Technical Bulletins	-
7	Technical Reports	-
8	Radio Talks	02
9	TV Talks	01
10	Animal health camps (Number of animals treated) (Camps)	210
11	Others (popular articles)	13

12	Publications(Research)	03
	Total	302

## VI. PRODUCTION OF SEED/PLANTING MATERIAL

## Production of seeds by the KVKs

Crop category	Name of the crop	Name of the variety (if hybrid pl. specify)	Quantity of seed (q)	Value (Rs)	Number of farmers
Others	-	-	-	-	-
Total	-	-	-	-	-

## Production of planting materials by the KVKs

Crop category	Name of the crop	Name of the variety (if hybrid pl. specify)	Number	Value (Rs.)	Number of farmers
Commercial	-	-	-	-	-
Others	-	-	-	-	-
Total	-	-	-	-	-

## Production of Bio-Products

Bio Products	Name of the bio-product	Quantity	Value (Rs.)	No. of Farmers
		Kg		
Others (Mango special)	Mango special	1821	150	400

## Production of livestock and related enterprise materials: NIL

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers
Others (Pl. specify)	-	-	-	-
Total	-	-	-	-

## VII. DETAILS OF SOIL, WATER AND PLANT ANALYSIS 2014-15: NIL

Samples	No. of Samples	No. of Farmers	No. of Villages	Amount realized (Rs.)
Soil	-	-	-	-
Water	-	-	-	-
Plant	-	-	-	-
Manure	-	-	-	-
Others (pl. specify)	-	-	-	-
Total	-	-	-	-

## VIII. SCIENTIFIC ADVISORY COMMITTEE- 2014-2015

Number of SACs conducted: 01

## IX. NEWSLETTER

Number of issues of newsletter published: 04

## X. RESEARCH PAPER PUBLISHED

Number of research paper published : 03

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

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

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