



**UNIVERSITY OF HORTICULTURAL
SCIENCES, BAGALKOT**



ANNUAL PROGRESS REPORT

(APRIL 2015 to MARCH 2016)

**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
KrishiVigyan 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	vc@uhsbagalkot.edu.in doe@uhsbagalkot.edu.in	www.uhsbagalkot.edu.in
University of Horticultural Sciences, Bagalkot	08354201354	08354235152		

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 31st March 2015)

Sl. No.	Sanctioned post	Name	Designation	M/F	Discipline	Qualification	PayScale	Basic pay	Date of joining KVK	Permanent	Category
1	Programme Coordinator	K.Thulasiram	Programme Coordinator	M	Ag. Entomology	M.Sc.(Agri)	37400-67000+9000AGP	49240	26-12-2012	Permanent	Other
2	Subject Matter Specialist	Dr. Raghunathareddy R.L	Subject Matter Specialist	M	Soil Science	Ph.D, PDF	15600-39100+6000 AGP	22920	31.08.2015	Permanent	Other
3	Subject Matter Specialist	Dr.K.R.Shashidhar	Subject Matter Specialist	M	Sericulture	Ph.D	15600-39100+6000 AGP	21600	17-01-2014	Permanent	SC
4	Subject Matter Specialist	NoorullaHaveri (SL)	Subject Matter Specialist	M	Plant Protection	M.Sc.(Agri)	15600-39100+6000 AGP	21600	27-01-2014	Permanent	OBC
5	Subject Matter Specialist	Dr.DeepaTerdal	Subject Matter Specialist	F	Home Science	Ph.D	15600-39100+6000 AGP	21600	03-02-2014	Permanent	SC
6	Subject Matter Specialist	Dr.Nagaraja K.S.	Subject Matter Specialist	M	Horticulture	Ph.D	15600-39100+6000 AGP	21600	05.11.2015	Permanent	SC
7	Subject Matter Specialist	Vacant	-	-	-	-	-	-	-	-	-
8	Programme Assistant (Lab Tech.)/T-4	Dr.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	M.Sc.(Agri)	9300-34800+4200 AGP	13500	03-03-2014	Permanent	ST
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 1	Pradeep	Driver	M	-	SSLC	7198	-	08-01-2014	Temporary	SC
14	Driver 2	-	-	-	-	-	-	-	-	-	-
15	Supporting staff	Srinivass D. Gasti	Gardner	M	-	PUC	9600-14450	9600	02-03-2014	Permanent	SC
16	Supporting staff	Mr. Shivananda		M	-	ITI	7165	-	11.02.2016	Temporary	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	7,153	Good
Honda Activa	2013	61345	7,660	Good
Bolero ZLX	2014	661886	40,536	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
Electronic balance (6 Kg)	2016	6646	Good
Weighing balance (60 Kg)	2016	9495	Good

1.8. Details SAC meeting conducted in 2014-15

Sl.No.	Date	No. of Participants	No. of absentees	Salient Recommendations	Action taken
1.				Not conducted during 2015-16	

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- Polebeans, Potato, Ragi, Vegetables, Mulberry, Coconut, Sapota, papaya, Guava etc.
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 <i>Kharif</i> 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. Nutritionally poor.	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

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	59668	115934	1943
2.	Ground nut	8608	9262	1076
3.	Avare	7003	3627	518
4.	Tur	2637	1940	736
5.	Rice	365	758	2078
6.	Maize	591	1825	3089
7.	Horse gram	9481	11443	1207
8.	Niger	96	15	155
9.	Mustard	194	25	130
Vegetable crops				
10.	Tomato	9695	547753	56.50
11.	Potato	6951	107928	15.53
12.	Beans	3299	34640	10.50
13.	Cabbage	1758	34039	19.36

14.	Knol-khol	1605	25680	16.00
15.	Green chilli	1441	29463	20.45
16.	Carrot	1387	27047	19.50
17.	Brinjal	1235	39520	32.00
18.	Radish	1029	12348	12.00
19.	Cauliflower	732	12078	16.50
20.	Onion	525	5522	10.52
21.	Capsicum	450	9000	20.00
22.	Ladies finger	322	2898	9.00
Fruit crops				
23.	Mango	48824	390961.18	8.01
24.	Banana	3720	91486.00	24.59
25.	Sapota	3403	52320	15.37
26.	Guava	475	8530.00	17.95
27.	Papaya	367	27628	75.28
28.	Grapes	219	4284	19.56
29.	Citrus and its sps.	78	1558	19.97
30.	Pomegranate	42	1016	24.07
Plantation crops				
31.	Coconut	6657.00	691.0 (Lakh nuts)	0.12
32.	Cashewnut	2196.00	4246.0	1.93
33.	Arecanut	3.75	5.60	1.49
Aromatic crops				
34.	Davana	774.00	7660.00	9.90
35.	Geranium	65.00	924.00	14.22
Spice crops				
34.	Tamarind	3489	14656	4.20
35.	Coriander	233	153	0.66
36.	Ginger	163	1837	11.27
37.	Dry chilli	150	275	1.83
38.	Turmeric	43	397	9.22
39.	Garlic	29	224	7.71
Flower crops				
40.	Marigold	655.00	6395.00	9.76
41.	Rose	556.00	963.90 (Lakh flowers)	1.73
42.	Chrysanthemum	210.00	2995.00	14.26
43.	Aster	162.00	1567.00	9.67
44.	Jasmine	161.00	1101.00	6.87
45.	Crossandra	100.00	500.00	5.06

* Statistical survey, Horticultural & Agricultural dept. (2015-16)

2.5. Weather data

Month	Rainfall (mm)		Temperature °C		Relative Humidity (%)
	Normal	Actual (15-16)	Maximum	Minimum	
Apr	29.00	105.24	35.40	17.80	68.00
May	84.20	87.58	34.80	19.20	66.50
Jun	53.80	68.40	32.40	20.00	71.00
Jul	76.00	39.94	32.40	20.70	71.00
Aug	87.00	92.30	31.90	20.40	72.00
Sep	145.20	147.78	32.20	19.40	74.00
Oct	143.80	71.78	30.40	17.00	72.50
Nov	60.40	369.34	28.20	15.40	87.00
Dec	24.20	15.52	29.00	12.50	77.00
Jan	3.80	08.70	29.40	12.60	70.00
Feb	5.40	0.00	33.60	13.40	59.00
Mar	11.20	08.10	35.80	14.90	58.00
Total	724.00	1014.68			

Department of Agriculture, Kolar(2015-16)

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

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

Category	Area	Production	Productivity
Fish		-	-
<i>Marine</i>	-	-	-
<i>Inland</i>	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 2015-16 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	Kolar	Kolar	Iragasandra	1 Year	Ragi, Field Bean, Redgram, Mulberry	Local varieties, low yields, disease incidence & delayed monsoon	Introduction of improved variety and disease management
2	Kolar/ Bangarpet	Holur/Betham angla/Sugatur	Ramapura/Natta / Busanahalli / Urigili	1 Year	Redgram, Ragi, Field Bean, Mulberry, Chilli, Tomato, Mango	Pest & disease menace	Integrated Pest & disease Management
3	Bangarpet	Sundarapalya	Vengasandra	1 Year	Groundnut, redgram, ragi, mulberry, tomato, potato	Local varieties, lack of awareness on bio fertilizers and micronutrient usage	Introduction of Improved variety KCG-6 & use of biofertilizers
4	Srinivasapur	Srinivasapur	Neelatur	1 Year	Mango, Potato, tomato, Ragi, Field Bean, Red gram,	Lack of water conserving measures, poor canopy management, Improper management of pest & diseases	Integrated Crop Management
5	Mulbagal	Mulbagal	Seegenalli	1 year	Potato, tomato, Beans, Marigold, paddy, polebeans, chikdi flat	Injudicious use insecticides & fungicides for pest & disease management & excess haulm growth	Integrated Crop Management
6	Mulbagal	Avani	Honnegannahalli	1 year	Potato, tomato, Beans, Marigold, cabbage, cauliflower, ragi	Micro nutrient deficiency and injudicious use of fungicides for late blight management	Late blight and nutrient management in Tomato
7	Mulbagal	Tayalur	Mindahalli	1 year	Potato, Tomato, Cabbage, Pole beans, Marigold, chrysanthemum, Ragi, Field Bean	Injudicious use of insecticides for DBM management	Integrated pest management in cabbage
8	Kolar	Huttur/ Bangarpet	Nernahalli & Thoraganadoddi	1 year	Mulberry, Ragi, Redgram, Fieldbean, Mango	Low leaf yield and quality, lack of awareness on bio fertilizers and micronutrients application and severe incidence of leaf roller in winter season	Integrated crop management in mulberry
9	Kolar	Kolar	Dinnehosahalli	1 year	Mulberry, Ragi, Redgram, Fieldbean, Mango	Low cocoon price and poor quality silk	Introduction of bivoltine double hybrid for quality cocoon production
10	Bangarpet	Bangarpet	Dasarahosahalli	1 year	Mango, Ragi, Fieldbean, Redgram, Tomato	Low income realization due to lack of knowledge on value addition in jack fruit	Branding and market for Processed RTE Jack fruit products
11	Srinivasapura	Srinivasapura	Kolathuru	1 year	Mango, Ragi, Fieldbean, Redgram, Tomato	Low income realization due to lack of knowledge on value addition in mango	Branding and market for Processed RTE Mango products
12	Kolar	Kolar	Irgasandra	1 Year	Ragi, Fieldbean, Cowpea, Redgram, Tomato	Low yield due to delayed and erratic rainfall	Improved method of sowing in Ragi for drought mitigation
13	Mulbagal	Mulbagal	Khadripura	2 year	Potato, Tomato, Cabbage, Pole beans, Marigold, Ragi, Field Bean	Severe Late blight incidence	Management of late blight in potato

14	Kolar	Kolar	Nadupalli	1 year	Mulberry, Ragi, Fieldbean, Redgram, Potato, Tomato	Unawareness of improved mounting methods leads to more defective cocoon, labour and time consuming	Assessment of different mountages for Quality cocoon production
15	Kolar	Sugatur	Balegere	1 year	Mulberry, Ragi, Fieldbean, Redgram, Potato, Tomato, marigold	Decline in ground water resources in the district and In-situ water losses in mulberry gardens	Assessment of irrigation systems for better WUE in Mulberry
16	Kolar	Kolar	Kenchapura	1 Year	Ragi, Fieldbean, Redgram, Potato, Tomato	Malnutrition	Assessment of nutritional status of farm women through composite flour mix supplementation
17	Bangarpet	Sundarapalya	Vengasandra	1 Year	Groundnut, redgram, ragi, mulberry, tomato, potato	Drudgery and health hazards	Improving Efficiency & Reduction in Drudgery of Farm Women in Weeding Activity by Twin Wheel & wheel Hoe weeder

2.9 Priority thrust areas

Sl. No	Thrust area
1	Yield optimization through improved varieties
2	Integrated Pest and Disease management
3	IPM Practices in major fruits and vegetables
4	Nutrient and Pest and disease management in mulberry and silkworm rearing
5	Organic farming
6	Addressing nutritional imbalance among farm women, adolescent girls and school children
7	Value addition

PART III - TECHNICAL ACHIEVEMENTS

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

OFT				FLD			
6				11			
Number of OFTs		Number of Farmers		Number of FLDs		Number of Farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
6	6	18	14	11	11	72	72

Training				Extension Programmes			
Number of Courses		Number of Participants		Number of Programmes		Number of Participants	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
49	60	1295	3631	395	997	6130	12627

Livestock, poultry strains and fingerlings (No.)		Bio-products (Kg) Mango special	
Target	Achievement	Target	Achievement
--	--	2000	1000

8	Integrated crop management	Mulberry	Low leaf yield and quality, lack of awareness on bio fertilizers and micronutrients application and sever incidence of leaf roller in winter season	-	Integrated crop management in mulberry	1	--	--	Field day	--	--	--	--	40
9	Yield optimization through improved varieties	Silkworm	Low cocoon price and poor quality silk	-	Introduction of bivoltine hybrid KRISHNARAJA (FC2 X FC1) for quality cocoon production	1	--	--	--	--	--	--	--	--
10	Value addition	Jack Fruit	Low income realization due to lack of knowledge on value addition in jack fruit	-	Linking SHGs to branding and market for of Jack fruit	1	--	--	--	--	--	--	--	--
11	Value addition	Mango	Low income realization due to lack of knowledge on value addition in mango	-	Linking SHGs to branding and market for of Mango fruit	1	--	--	--	--	--	--	--	--
12	Improved method of sowing in Ragi for drought mitigation	Ragi	Low yield due to delayed and erratic rainfall	Improved method of sowing in Ragi for drought mitigation	-		--	--	--	--	--	--	--	--
13	Integrated late blight management	Potato	Severe Late blight incidence	Management of late blight in potato	-		--	--	--	--	--	--	--	8
14	Assessment of different mountages for Quality cocoon production	Mulberry	Unawareness of improved mounting methods leads to more defective cocoon, labour and time consuming	Assessment of different mountages for Quality cocoon production	-		--	--	Field day	--	--	--	--	--

15	Water use efficiency	Mulberry	Decline in ground water resources in the district and In-situ water losses in mulberry gardens	Assessment of irrigation systems for better WUE in Mulberry	-		--	--	--	--	--	--	--	--
16	Addressing nutritional imbalance	Home science	Malnutrition	Assessment of nutritional status of farm women through composite flour mix supplementation	-	1	--	--	--	--	--	--	--	--
17	Drudgery of farm women	Home science (Groundnut)	Drudgery and health hazards	Evaluation of hand operated weeders for farm women in groundnut for drudgery reduction	-	-	--	--	Field day	--	--	--	--	--

3.B2. Details of technology used during reporting period

S.No	Title of Technology	Source of technology	Crop/enterprise	No.ofprogrammes conducted			
				OFT	FLD	Training	Others (Specify)
1	2	3	4	5	6	7	8
1	Introduction of Improved variety of ragi KMR – 204 for yield maximization	UAS Bangalore	Ragi	--	Yes	1	--
2	Introduction of new variety KCG-6 in Groundnut	UAS Bangalore	Groundnut	--	Yes	-	Field day
3	Integrated pest and disease management in red gram	UAS Bangalore	Red gram	--	Yes	1	Field day
4	Integrated crop management in Mango	UAS Bangalore	Mango	-	Yes	2	--
5	Integrated crop management in potato	UAS Bangalore	Potato	-	Yes	-	--
6	Disease and Micronutrient Deficiency Management in Tomato	IIHR & UAS Bangalore	Tomato	-	Yes	-	--
7	Integrated pest management in cabbage	IIHR	Cabbage	-	Yes	1	--
8	Integrated crop management in Mulberry	CSR & TI Mysore & UAS Bangalore	Mulberry	-	Yes	1	Field day
9	Introduction of biovoltine hybrid Krishnaraja for quality cocoon production	CSR&TI Mysore	Mulberry	-	Yes	1	--
10	Linking SHGs to branding and market for of Jack fruit	FSSAI, UAS, Bangalore	Home science	-	Yes	1	--
11	Linking SHGs to branding and market for of Mango fruit	FSSAI, UAS, Bangalore	Home science	-	Yes	1	--
12	Improved method of sowing in Ragi for drought mitigation	UAS, Bangalore	Ragi	Yes	--	--	--
13	Management of late blight in potato	UAS Bangalore & CPRI Shimla	Potato	Yes	--	--	--
14	Assessment of different mountages for Quality cocoon production	CSR & TI Mysore, KSSR & DI Bangalore	Mulberry	Yes	--	--	Field day
15	Assessment of irrigation systems for better WUE in Mulberry	ITK, UAS, Bangalore	Mulberry	Yes	--	--	--
16	Assessment of nutritional status of farm women through composite flour mix supplementation	UAS, Bangalore	Home Science	Yes	--	1	--
17	Evaluation of hand operated weeders for farm women in groundnut for drudgery reduction	UAS, Bangalore UAS, Raichur	Home Science	Yes	--	--	Field day

3.B2 contd..

No. of farmers covered															
OFT				FLD				Trainings				Others (Extn Activities)			
General		SC/ST		General		SC/ST		General		SC/ST		General		SC/ST	
M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
8	18	2	15	73	03	16	-	2295	786	341	209	7755	2502	1291	403

PART IV - On Farm Trial

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Integrated Nutrient Management		-	-	-	-	-	-	-	-	-
Varietal Evaluation	-	-	-	-	-	-	-	-	-	-
Integrated Pest Management	-	-	-	-	-	-	-	-	-	-
Integrated Crop Management	-	-	-	-	-	-	-	-	-	-
Integrated Disease Management	-	-	-	-	Potato	-	-	-	-	1
Value addition	-	-	-	-	-	-	-	-	-	-
Drudgery Reduction	-	Groundnut	-	-	-	-	-	-	-	1
Storage Technique	-	-	-	-	-	-	-	-	-	-
Mushroom cultivation	-	-	-	-	-	-	-	-	-	-
Others										1
1.Drought mitigation	Ragi	-	-	-	-	-	-	-	-	1
2. Water use efficiency				Mulberry						1
3. Improved mountages				Silkworm						1
4.Malnutrition	Composite flour									1
Total	2	1		2	1					6

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
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	-	-	-	-	-
Integrated Crop Management	-	-	-	-	-
Integrated Disease Management	Potato	Integrated Management of Late blight of potato	4	4	0.6
Small Scale Income Generation Enterprises	-	-	-	-	-
Value addition	-	-	-	-	-
Drudgery Reduction	Groundnut	Evaluation of hand operated weeders for farm women in groundnut for drudgery reduction	3	3	0.4
Storage Technique	-	-	-	-	-
Mushroom cultivation	-	-	-	-	-
Others	Ragi	Improved method of sowing in Ragi for drought mitigation	2	2	0.3
	Sericulture	Assessment of different mountages for Quality cocoon production	3	3	-
	Sericulture	Assessment of irrigation systems for better WUE in Mulberry	1	1	0.6
	Home science	Assessment of nutritional status of farm women through composite flour mix supplementation	1	30	30 farm women
Total	6		14	43	

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	Plant height(cm)	No. of ear heads/plant	Results of assessment Yield (q/ha)	No. Of tillers/plant	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7			8	9	10	11	12
Ragi	Rainfed	Moisture stress	Improved method of sowing in Ragi for drought mitigation	2	TO1:Farmer practice Broad casting	Plant height, No. of tillers, ear heads & yield	114	10.5	21.2	9.0	Transplanting in 2x2 pits conserves soil moisture	-	-
					TO2: Transplanting in pits of 1X1 ft		123	14.5	24.15	12.5			
					TO3: Transplanting in pits of 2X2 ft		130	17.5	27.35	15.5			

Continued...

Technology Assessed	Source of Technology	Production	Unit	Net Return (Profit) in Rs. / ha	BC Ratio
13	14	15	16	17	18
TO1:Farmer practice Broad casting	Farmer practice	21.2	(q/ha)	13180	1.48
TO2: Transplanting in pits of 1X1 ft	UAS (Bangalore)	24.15	(q/ha)	15235	1.51
TO3: Transplanting in pits of 2X2 ft	ITK	27.35	(q/ha)	22015	1.75

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	4	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	28.13	16.20	Technology option 3 is found to be better in managing of Late blight disease with high yield	-	-
					TO2:Tuber treatment with Mancozeb (0.25%) Foliar sprays: Metalaxyl+mancozeb (0.2%),Cymoxanil + Mancozeb (0.3%)		22.54	17.60			
					TO3:Soil application of <i>Trichoderma</i> and <i>Pseudomonas</i> Prophylatic–Mancozeb (0.2%)Cymoxanil + Mancozeb (0.3%) Dimethomorph (0.1%) with Mancozeb (0.2%) Fenamidone+mancozeb (0.3%)		17.37	19.43			

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	16.20	(t/ha)	35366	1.20
TO2:Tuber treatment with Mancozeb (0.25%) Foliar sprays: Metalaxyl+mancozeb (0.2%),Cymoxanil + Mancozeb (0.3%)	UASB	17.60	(t/ha)	69444	1.44
TO3:Soil application of <i>Trichoderma</i> and <i>Pseudomonas</i> Prophylatic–Mancozeb (0.2%)Cymoxanil + Mancozeb (0.3%) Dimethomorph (0.1%) with Mancozeb (0.2%) Fenamidone+mancozeb (0.3%)	CPRI, Shimla	19.43	(t/ha)	85451	1.51

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Cocoon Yield (kg/100dfis)	Cocooning percentage (%)	Defective cocoon (%)	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12	13
Mulberry	Irrigated	More Defective cocoon, needs more time and labour	Assessment of different mountages for quality cocoon production	3	TO1: Bamboo chandrike	Cocooning percentage, Defective cocoon (%), Cocoon Yield (Kg/100 dfis), B : C ratio	80.96	94.33	5.88	Swayandrike resulted in higher cocoon yield because of less defective cocoons	-	-
					TO2: Plastic mountages		82.96	91.14	5.11			
					TO3: Swayandrike		84.49	92.82	3.72			

Continued...

Technology Assessed	Source of Technology	Defective cocoon (%)	Production	Unit	Net Return (Profit) in Rs. / ha	BC Ratio
14	15	15.1	15.2	16	17	18
TO1: Bamboo chandrike	CSR & TI Mysore	5.88	80.96	(kg/100 dfis)	14405	1.92
TO2: Plastic mountages	CSR & TI Mysore	5.11	82.96	(kg/100 dfis)	17468	2.28
TO3: Swayandrike	KSSR & DI, Bangalore	3.72	84.49	(kg/100 dfis)	19102	2.37

Crop/enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Leaf yield per crop (q/ha)	Leaf moisture content (%)	Leaf moisture retention after 6 hr (%)	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12	13
Mulberry	Irrigated	Decline in ground water resource and in situ water losses in mulberry garden	Assessment of irrigation system for better WUE in mulberry	1	TO1: farmers practice Drip lines between two rows	Quantum of irrigation water applied, Frequency of irrigation, Leaf yield, Leaf moisture content and leaf moisture retention	108	74.86	67.72	More leaf yield, moisture content of leaf and quantity of water saved was more in case of technology option 3 sub surface irrigation followed by micro sprinkler	-	-
					TO2: Micro-sprinklers		114	77.18	69.91			
					TO3: Sub-surface irrigation		117	77.74	70.20			

Continued...

Technology Assessed	Source of Technology	Quantum of water applied per irrigation (l per ha)	Total quantity of irrigation water applied per crop (60 Days)	Leaf moisture retention after 6 hr (%)	Net Return (Profit) in Rs. / ha	BC Ratio
14	15	15.1	15.2	16	17	18
TO1: Farmers practice Drip lines between two rows	--	55,554	11,11,080	67.72	--	---
TO2: Micro-sprinklers	ITK	52,776	10,55,520	69.91	--	--
TO3: Sub-surface irrigation	UAS, Bangalore	49,999	9,99,980	70.20	--	--

Crop/enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Source of Technology	Parameters of assessment	Data on the parameter	Results of assessment (% increase)	Feedback from the farmer	Any refinement needed	Justification for refinement	
1	2	3	4	5	6	7	8	9	10	11	12	13	
Food Science and Nutrition	--	Malnutrition and health care for vulnerable	Assessment of nutritional status of farm women through composite flour mix supplementation	1	TO1: Normal family diet	Farmers Practice	Body mass index	Before 14.95	After 17.60	2.65	Among the diets composite mix flour food was recorded increase in Heamoglobin level.	-	-
							Heamoglobin (mg/dl)	7.89	8.88				
					TO :2 Composite flour mixes products as a supplementary food (100g/day) for three months	UAS, (B)	Body mass index	17.10	22.40	5.30			
							Heamoglobin (mg/dl)	7.97	11.50	3.53			

Crop/enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Total cost Rs/ha	Labour requirement in Mandays (ha)	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Home science	Rainfed	Drudgery	Improving Efficiency & Reduction in Drudgery of Farm Women in groundnut Weeding Activity by hand operated Twin Wheel & wheel Hoe weeder	3	TO1: Farmers practice Hand weeding	Labour cost, Savings in labour (Rs./ha), Time required for weeding operation/ha, Cost incurred for hoeing Rs/ha, Total cost for weeding	1616	16.00	Hand operated twin wheel hoe weeder was effective in weeding and movement found to be better because iron wheels	-	-
					TO2: herbicides Alachlor 1ltr		2016	2.25			
					TO3: Hand operated twin wheel hoe weeder		400	2.0			
					To4:Tyre Wheel hoe weeder		501	2.25			

Continued...

Technology Assessed	Source of Technology	Cost of labour (Rs/ha)	Time required for weeding operation/ha	Cost incurred for hoeing Rs/ha	Total cost Rs/ha	Net Return (Profit) in Rs. / ha	BC Ratio
13	14	15	16	17	18	19	20
TO1: Farmers practice Hand weeding	ITK	1616	129 hours	--	1600	--	--
TO2: Herbicides Imazathypyr 1ltr	UASB	616	18hours	--	2016	1000	0.49
TO3: Hand operated twin wheel hoe weeder	UAS, R	200	16hours	200	400	1416	3.54
To4:Tyre Wheel hoe weeder	UAS, R	225	18hours	276	501	1392	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 the technology assessed** **Improved method of sowing in Ragi for drought mitigation**
2. **Problem Definition** **Low yields due to delayed and erratic rainfall**
3. **Details of technologies selected for assessment:**

Category	Source of Technology	Technology details
Farmers practice	--	Broad casting
Recommended practice	UAS (B)	Transplanting in pits of 1X1 ft
Alternative practice	ITK	Transplanting in pits of 2X2 ft

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

Field No.	Farmers Practice (TO1)				Recommended practice (TO2)				Alternate practice (To3)			
	Yield (q/ha)	Plant height (cm)	Ear heads / plant	No. of tiller/ plant	Yield(q /ha)	Plant height (cm)	Ear heads / plant	No. of tiller/ plant	Yield(q/ha)	Plant height (cm)	Ear heads / plant	No. of tiller/ plant
1	20.6	112	10	11	23.4	120	12	15	26.8	128	15	17
2	21.8	116	8	10	24.9	126	13	14	27.9	132	16	16
Avg.	21.2	114	9	10.5	24.15	123	12.5	14.5	27.35	130	15.5	16.5

7. **Feedback, matrix scoring of various technology parameter through farmer participation/other scoring techniques** : Transplanting of Ragi in a pit of 2x2 feet will help in get higher even under drought situation
8. **Final recommendation for micro level situation:** : Transplanting of Ragi in a 2x2 feet pit may be incorporated as a recommendation to overcome moisture stress
9. **Constraints identified and feedback for research** : High labor requirement
10. **Process of farmers participation and their reaction:** :Participatory approach,
 - Group discussion,
 - Method demonstration & Field visits

1. **Title of the technology assessed** **: Management of Late blight in Potato**
2. **Problem Definition** : Severe late blight incidence and indiscriminate use of fungicides
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 <i>Trichoderma</i> and <i>Pseudomonas</i> Prophylatic–Mancozeb (0.2%)Cymoxanil + Mancozeb (0.3%) Dimethomorph (0.1%) with Mancozeb (0.2%) Fenamidone+mancozeb (0.3%)
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4. Source of technology : CPRI, Shimla, UAS (B)
5. Production system and thematic area : Irrigated condition and Integrated disease management
6. Performance of the Technology with performance indicator:

Field No.	Farmer's Practice (TO1)		Recommended practice (TO2)		Alternative practice (TO3)	
	PDI	Yield(t/ha)	PDI	Yield(t/ha)	PDI	Yield(t/ha)
1	25.59	18.08	19.72	19.78	12.25	22.50
2	27.94	16.70	21.87	18.45	14.20	20.25
3	30.74	13.80	28.30	14.75	24.60	15.98
4	28.24	16.20	20.28	17.40	18.45	19.00
Avg.	28.13	16.20	22.54	17.60	17.38	19.43

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 late blight disease management 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 different moutages for quality cocoon production**
2. Problem Definition : Defective cocoon, needs more time and labour
3. Details of technologies selected for assessment:

Category	Source of Technology	Technology details
TO1	CSR & TI, Mysore	Bamboo chandrike
TO2	CSR & TI, Mysore	Plastic moutages
TO3	KSSR & DI (B)	Swayandrike

4. Source of technology : CSR&TI Mysore, KSSRDIBangalore
5. Production system and thematic area : Quality cocoon production, reduction in cost of silkworm rearing

6. Performance of the Technology with performance indicator:

Field No.	(TO1) Bamboo chandrike			(TO2) Plastic moutage			(TO3) Swayandrike		
	Cocooning percentage (%)	Defective cocoon (%)	Cocoon yield (kg/100 dfl's)	Cocooning percentage (%)	Defective cocoon (%)	Cocoon yield (kg/100 dfl's)	Cocooning percentage (%)	Defective cocoon (%)	Cocoon yield (kg/100 dfl's)
1	94	6.0	79.88	90	5.31	82.80	92.68	3.59	81.72
2	95	6.45	80.80	92.57	5.75	82.48	94.16	4.24	86.16
3	94	5.2	82.20	90.85	4.28	83.60	91.66	3.33	85.60
Avg	94.33	5.88	80.96	91.14	5.11	82.96	92.82	3.72	84.49

7 Feedback, matrix scoring of various technology parameter done through farmer participation/other scoring techniques : No separate space for mounting, it avoids falling of urine & staining cocoons, time and labour saving.

8 Final recommendation for icro 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 irrigation systems for better WUE in Mulberry**

2 Problem Definition : Decline in ground water resources in the district and In-situ water losses in mulberry gardens

3. Details of technologies selected for assessment:

Category	Source of Technology	Technology details
Farmers practice	--	Surface drip irrigation system
Recommended practice	ITK	Micro sprinkler irrigation
Alternative practice	UAS (B)	Sub-Surface irrigation system

4. Source of technology : ITK, UAS (B)

5. Production system and thematic area : Irrigation system and water use efficiency

6. Performance of the Technology with performance indicator:

Parameters	TO1: (Drip line between two rows)	TO2: (Micro Sprinkler)	TO3: (Sub surface irrigation)	Average
Frequency of irrigation	Once in 3 days	Once in 3 days	Once in 3 days	---
Quantum of water applied per irrigation (l per ha)	55,554	52,776	49,999	52,776
Total quantity of irrigation water applied per crop (60 Days)	11,11,080	10,55,520	9,99,980	10,55,526
Leaf yield per crop (q/ha)	108	114	117	113
Leaf moisture content (%)	74.86	77.18	77.74	76.59
Leaf moisture retention after 6 hr (%)	67.72	69.91	70.20	69.27
Quantity of water saved per crop over farmer practice	-	55,560	1,11,100	--
% of saving in water	-	5.0	9.99	--

- 7 Feedback, matrix scoring of various technology parameter done through farmer participation/other scoring techniques : Subsurface irrigation saves water by 9.99% and also better in leaf moisture content and retention leading to higher leaf yield
- 8 Final recommendation for micro level situation: : OFT is in continuation
- 9 Constraints identified and feedback for research : ---
- 10 Process of farmers participation and their reaction: : Participatory approach
• Group discussion& Field visits

1. **Title of the technology assessed** **Evaluation of hand operated weeders for farm women in groundnut for drudgery reduction**
- 2 Problem Definition Drudgery

3. Details of technologies selected for assessment:

Category	Source of Technology	Technology details
Farmers practice	--	Manual weeding
Recommended practice	UAS (B)	Herbicide(Imazathypyr)
Alternative practice1	UAS (R)	Hand operated twin wheel weeder
Alternative practice 2	UAS (R)	To4:Tyre Wheel hoe weeder

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

Parameters	Field no.	TO1 Farmers practice	TO2 Recommended practice	AP1 Alternative practice 1	AP2 Alternative practice 2
Labour requirement in Mandays (ha)	1	14.50	2	1.75	2.25
	2	16.25	2.5	2.00	2
	3	17.75	2.25	2.25	2.5
	Average	16.17	2.25	2.00	2.25
Cost of labour (Rs/ha)	1	1450	550	175	225
	2	1625	675	200	200
	3	1775	625	225	250
	Average	1616.67	616.67	200.00	225.00
Savings in labour(Rs./ha)	1	--	900	1275	1225
	2	--	950	1425	1425
	3	--	1150	1550	1525
	Average	--	1000.00	1416.67	1391.67

Time required for weeding operation/ha	1	116	16	14	18
	2	130	20	16	16
	3	142	18	18	20
	Average	129.33	18.00	16.00	18.00
Cost incurred for hoeing Rs/ha	1	--	--	175	276.48
	2	--	--	200	245.76
	3	--	--	225	307.20
	Average	---	--	200.00	276.48
Cost incurred for herbicide spray Rs/ha	1	--	1400	--	--
	2	--	1400	--	--
	3	--	1400	--	--
	Average	--	1400	--	--
Total cost Rs/ha	1	1450	1950	350	501
	2	1625	2075	400	445
	3	1775	2025	450	557
	Average	1616.67	2016.67	400.00	501.48

3. Details of technologies selected for assessment: :

1. **Title of the technology assessed** : **Assessment of nutritional status of farm women through composite flour mix supplementation**
2. **Problem Definitio** : **Malnutrition**

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.	Farmers practice				Recommended practice			
	Body mass index		Heamoglobin (mg/dl)		Body mass index		Heamoglobin (mg/dl)	
	Before	After	Before	After	Before	After	Before	After
1	14.0	17.0	8.0	8.1	16.0	22.0	8.0	10.5
2	15.0	18.0	8.0	9.6	16.0	23.0	8.0	10.5
3	16.0	16.0	7.8	8.0	15.0	21.0	7.5	11.0
4	13.0	17.0	8.5	10.0	17.0	22.0	8.5	10.7
5	16.0	19.0	8.0	9.5	19.9	23.0	8.0	10.9
6	14.0	18.0	8.6	8.6	19.0	23.0	8.6	10.9
7	14.0	17.0	8.5	8.6	17.0	24.0	8.5	11.5
8	14.0	16.5	8.5	8.5	16.7	22.0	8.4	12.0
9	17.0	19.5	7.5	10.0	17.0	23.0	7.5	12.0
10	15.0	16.0	7.2	8.0	17.0	23.0	7.2	13.0
11	15.0	19.0	7.5	8.0	15.6	22.0	8.0	12.0
12	15.3	16.5	7.2	10.0	14.5	20.0	8.4	11.5
13	15.0	18.5	7.5	9.0	16.0	22.0	7.5	11.5
14	16.0	17.5	7.5	8.2	18.4	24.0	7.5	12.0
15	15.0	18.5	8.0	9.1	18.0	22.0	8.0	12.5
Avrg	14.95	17.60	7.89	8.88	17.10	22.4	7.97	11.50

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

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
12	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 2015-16

SN	Category	Farming Situation	Season and Year	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Area (ha)		No. of farmers/ demonstration			Reasons
									Proposed	Actual	SC/S T	Others	Total	
1	Oil seeds	Rainfed	Kharif 2015	Groundnut	KCG-6	-	Integrated crop management	Improved variety & effect of Bio fertilizers	2	2	7	3	10	-
2	Pulses	Rainfed	Kharif 2015	Redgram	BRG-1	-	Integrated pest & disease management	Integrated Pest & disease Management in Redgram& Use of Biofertilizers	4	8	5	15	20	-
3	Millets	Rainfed	Kharif 2015	Ragi	KMR-204	-	Variety introduction	Improved variety KMR 301 & bio fertilizers	4	8	5	15	20	-
4	Vegetables	Irrigated	Summer 2015	Cabbage	-	Unnati	Integrated pest management	Integrated pest management in cabbage	1	1	0	5	5	-
5	Vegetables	Irrigated	Khairf 2015	Tomato	-	Indus 1030	IPDM	Integrated Management of Late blight disease & Nutirent management	1	1	1	4	5	-
6	Vegetables	Irrigated	Rabi 2015	Potato	Kufri Jyothi	-	Integrated disease management	Integrated crop management in potato	4	4	2	8	10	-
7	Fruit	Rainfed	Rabi 2015	Mango	Alphonso	-	Integrated crop management	Integrated Pest & crop Management in Mango	2	2	0	5	5	-
8	Sericulture	Irrigated	Rabi 2015	Mulberry	V1	--	Integrated crop management	Integrated Crop Management in Mulberry	4	4	0	10	10	-
9	Sericulture	Irrigated	Rabi 2015	Silkworm rearing	--	F2xFc1	Introduction of Bivoltine hybrid KRISHNARAJA for quality cocoon production	Introduction of FC2XFC1 bivoltine silkworm Hybrid	500dfis	500dfis	0	5	5	-
Others (specify)														
10	Home science	-	2015	Mango	--	--	Small scale income	Low income realization due to	1	1	0	1	1	--

							generating Enterprise	lack of knowledge on value addition processing, packaging, labeling , and branding.						
11	Home science	-	2015	Jack fruit	--	--	Small scale income generating Enterprise	Low income realization due to lack of knowledge on value addition processing, packaging, labeling , and branding.	1	1	0	1	1	--

5.A. 1. Soil fertility status of FLDs plots during 2015-16: 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	
-	-	-	-	-	-	-	-	-	-	-	-	-	-

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)	Improved variety and bio fertilizers	KCG-6	-	Rainfed	10	2	18	11.5	14.30	11.45	24.89	44,445	78,650	34,205	1.76	40,038	62,975	22,938	1.57
Millets (Ragi)	Introduction of improved variety in Ragi, KMR-204 for yield maximization	KMR-204	--	Rainfed	20	8	25.2	12.5	17.23	14.18	21.50	28,918	49,164	20,246	1.70	26,710	40,139	13,429	1.49

Pulses (Redgram)	Integrated Pest and Disease Management in Red gram	BRG-1	--	Rainfed	20	8	46.9	14.9	27.25	22.78	19.62	31,441	41,883	10,441	1.31	29,297	34,970	5,673	1.17
Vegetables (Potato)	Integrated crop management in potato	Kufri Jyothi	--	Irrigated	10	4	25.5	16.5	21.15	17.76	19.08	1,55,240	2,67,720	1,12,480	1.73	1,59,209	2,24,933	65,724	1.41
Vegetables (Tomato)	Integrated Management of Late blight disease & Nutrient management	--	Indus 1030	Irrigated	5	1	60.5	31.5	47.64	40.98	16.25	10,3570	1,63,702	60,132	1.59	1,09,280	1,41,344	32,064	1.30
Vegetables (Cabbage)	Integrated pest management	--	Unnati	Irrigated	5	1	62.7	38.5	52.49	45.59	15.13	63,890	1,04,980	41,090	1.66	66,770	91,180	24,410	1.37
Fruits (Mango)	Integrated crop management	--	Alphanso	Rainfed	5	2	Demonstration is still going on												
Sericulture (Mulberry)	ICM in Mulberry	V1	--	Irrigated	10	4	121.73	111.79	119.40	108.03	10.52	25,860	59,699	33,839	2.31	25,500	54,015	28,515	2.19
Sericulture (Silkworm rearing)	Introduction of FC2XFC1 bivoltine silkworm Hybrid	--	F2xFc1	Irrigated	5	500 dfls	89.39	82.47	86.3	79.17	9.00	12,970	33,118	20,148	2.55	12,500	28,973	16,473	2.31

* 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	Cost of 1kg Mango jam preparation			SHG group of Kolathur produced 70 kg of Mango jam		
		Particulars	Unit	Amount	Particulars	Unit	Amount
Home science	Linking SHGs to branding and market for of Mango fruit (EDP)	Cost of 1kg Mango jam preparation	Rs/kg	80.00	Total cost of production of 70 kg of Mango jam	Rs.	5600
		Selling price of mango jam	Rs/kg	250.00	Selling price	Rs/kg	250
		Net returns	Rs/kg	170.00	Total returns	Rs.	17500
		B:C ratio	Rs/kg	3.12	Net returns	Rs.	11900
					B:C Ratio	-	3.12

Crop	Name of the technology demonstrated	Cost of 1kg jack chips preparation			SHG group of Dasarhoshalli village produced 50 kg of jack chips		
		Particulars	Unit	Amount	Particulars	Unit	Amount
Home science	Linking SHGs to branding and market for of Jack fruit (EDP)	Cost of 1 kg jack fruit chips	Rs/kg	70	Total cost of production of 50kg of chips	Rs.	3500
		Selling price of jack fruit chips	Rs/kg	300	Selling price	Rs/kg	300
		Net returns	Rs/kg	230	Total returns	Rs.	15000
		B:C Ratio		4.28	Net returns	Rs.	11500
					B:C Ratio		4.28

Crop	Name of the technology demonstrated	Cost of 1kg jack fruit jam preparation			SHG group of Dasarhoshalli village produced 40 kg of jack fruit jam		
		Particulars	Unit	Amount	Particulars	Unit	Amount
Home science	Linking SHGs to branding and market for of Jack fruit (EDP)	Cost of 1 kg jack fruit jam	Rs/kg	60	Total cost of production of 40 kg of jack jam	Rs.	2400
		Selling price of jack fruit jam	Rs/kg	250	Selling price	Rs/kg	250
		Net returns	Rs/kg	190	Total returns	Rs.	10000
		B:C Ratio		4.16	Net returns	Rs.	7600
					B:C Ratio		4.16

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
Groundnut (KCG-6)		
Plant height(cm)	36	31
No. of Pods/plant(No.)	56	38
Pod weight (g/pl)	52	36
Oil %	46.79	46.80
Ragi(KMR-204)		
Plant height (cm)	92.1	85.3
No. of ear heads/plant	9.30	6.80
No. of tillers/plant	9.50	6.65
Redgram(BRG-1)		
Pods/Plant(No.)	513	658.7
Pod borer incidence (%)	6.55	11.57
Leaf webber incidence (%)	6.12	10.81
% PDI	5.87	12.1
Potato (KufriJyothi)		
Fresh wt.(g/plant)	173.7	197.0
No. of tubers / plant (No.)	10.4	7.60
% PDI	5.74	13.54
Mites/leaf(No.)	1.60	4.80
Tomato (Indus 1030)		
Late blight(% PDI)	7.60	15.22
TSS (%)	5.24	4.85
Shelf life (days)	16.6	12.8
Cabbage (Unnati)		
DBM /Plant(No.)	1.80	5.40
Bugs/Plant(No.)	0.80	3.20
Mango(Alphonso)		
Hopper / inflorescence (No.)	7.40	13.40
% PDI	6.60	12.54
Fruit fly / trap(No.)	22	41
Mulberry(V1)		
Initial pest incidence (No. of pest / plant)	8.58	8.20
Pest incidence (7 Days after spraying)	1.70	1.82
Pest incidence (45 Days after spraying)	0.24	0.54
Silkworm rearing(FC2 X FC1)		
Disease incidence (%)	3.82	4.14
Effective rate of rearing (%)	92.53	95.85

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)			Check if any	% Increase	*Economics of demonstration (Rs./unit)				*Economics of check (Rs./unit)			
					Demo	H	L			A	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return
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 ²)	Yield (q/ha)			% Increase	*Economics of demonstration (Rs./unit) or (Rs./m ²)				*Economics of check (Rs./unit) or (Rs./m ²)			
					Demo				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 COSTH-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 ²)	Yield (q/ha)			% Increase	*Economics of demonstration (Rs./unit) or (Rs./m ²)				*Economics of check (Rs./unit) or (Rs./m ²)			
					Demo				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 laboursaved(viz., reduction in drudgery, time etc.)

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

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

Sl.No.	Activity	No. of activities organised	Number of participants	Remarks
1	Field days	03	86	--
2	Farmers Training	09	262	--
3	Media coverage	05	--	--
4	Training for extension functionaries	-	-	--
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										
F1 Hybrid	Integrated Management of Late blight disease & Nutirent management	Indus 1030	5	1	60.5	31.5	47.64	40.98	16.25	1,03,570	1,63,702	60,132	1.59	109280	141344	32064	1.30
F1 Hybrid	Integrated pest management	Unnati	5	1	62.7	38.5	52.49	45.59	15.13	63,890	1,04,980	41,090	1.66	66770	91180	24410	1.37
CSR Double Hybrid	Introduction of FC2XFC1 bivoltine silkworm Hybrid	FC2xFC1	5	500 dfls	89.39	82.47	86.3	79.17	9.00	12,970	33,118	20,148	2.55	12,500	28,973	16,473	2.31

H-High L-Low, A-Average

PART VII. TRAINING

7. A. Training of Farmers and Farm Women including sponsored training programmes (On campus) 2015-16

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	2	65	-	65	15	-	15	80	-	80
Integrated Crop Management	-	-	-	-	-	-	-	-	-	-
a) Vegetable Crops	01	40	-	40	10	-	10	50	-	50
Protective cultivation	-	-	-	-	-	-	-	-	-	-
b) Fruits	01	40	-	40	10	-	10	50	-	50
c) Ornamental Plants	-	-	-	-	-	-	-	-	-	-
d) Plantation crops	-	-	-	-	-	-	-	-	-	-
e) Tuber crops	-	-	-	-	-	-	-	-	-	-
f) Spices	-	-	-	-	-	-	-	-	-	-
g) Medicinal and Aromatic Plants	-	-	-	-	-	-	-	-	-	-
Others (pl. specify)	-	-	-	-	-	-	-	-	-	-
Soil Health and Fertility Management	01	30	-	30	5	-	5	35	-	35
Livestock Production and Management	-	-	-	-	-	-	-	-	-	-
Home Science/Women empowerment	03	-	198	198	-	32	32	-	230	230
Agril. Engineering	-	-	-	-	-	-	-	-	-	-
Plant Protection	-	-	-	-	-	-	-	-	-	-
Fisheries	-	-	-	-	-	-	-	-	-	-
Capacity Building and Group Dynamics	-	-	-	-	-	-	-	-	-	-
Agro-forestry	-	-	-	-	-	-	-	-	-	-
Sericulture	01	25	-	25	5	-	5	30	-	30
TOTAL	09	200	198	398	45	32	77	245	230	475

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	-	-	-	-	-	-	-	-	-	-
Integrated Crop Management										
Horticulture										
a) Vegetable Crops	01	11	12	23	2	2	4	13	14	27
Production of low value and high volume crop	-	-	-	-	-	-	-	-	-	-
Protective cultivation	-	-	-	-	-	-	-	-	-	-
b) Fruits	01	18	-	18	02	-	02	20	-	20
c) Ornamental Plants	-	-	-	-	-	-	-	-	-	-
d) Plantation crops	-	-	-	-	-	-	-	-	-	-
e) Tuber crops	-	-	-	-	-	-	-	-	-	-
f) Spices	-	-	-	-	-	-	-	-	-	-
g) Medicinal and Aromatic Plants	-	-	-	-	-	-	-	-	-	-
Soil Health and Fertility Management	10	951	61	1012	114	4	118	1065	65	1130

Livestock Production and Management	-	-	-	-	-	-	-	-	-	-
Home Science/Women empowerment	8	33	339	372	25	136	161	58	475	533
Household food security by kitchen gardening and nutrition gardening	-	-	-	-	-	-	-	-	-	-
Value addition	-	-	-	-	-	-	-	-	-	-
Agril. Engineering	-	-	-	-	-	-	-	-	-	-
Plant Protection	11	587	16	603	92	06	98	679	22	701
Fisheries	-	-	-	-	-	-	-	-	-	-
Production of Inputs at site	-	-	-	-	-	-	-	-	-	-
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-
CapacityBuilding and Group Dynamics	-	-	-	-	-	-	-	-	-	-
Agro-forestry	-	-	-	-	-	-	-	-	-	-
others	-	-	-	-	-	-	-	-	-	-
TOTAL	31	1600	428	2028	235	148	383	1835	576	2411

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Improved production technologies in BV Sericulture	8	253	3	256	35	2	37	288	5	293
TOTAL	8	253	3	256	35	2	37	288	5	293

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Tree mulberry cultivation & preparation of biocrafts	7	149	86	235	18	11	29	167	97	264
TOTAL	7	149	86	235	18	11	29	167	97	264

7.E.Trainingprogrammes for Extension Personnel 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
-	-	-	-	-	-	-	-	-	-	-

7.F.Trainingprogrammes 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
-	-	-	-	-	-	-	-	-	-	-

7.G. Sponsored training programmesconducted:

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	IPM in important horticulture & field crops in Kolar district	2	88	18	106	7	5	12	95	23	118
Total		2	88	18	106	7	5	12	95	23	118

Details of sponsoring agencies involved: CIPMC, Bangalore

7.H. 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	Income generation activities (preparation of biocrafts from pierced cocoons, paper bag and candle making)	03	5	53	58	1	11	12	6	64	70
Total		03	5	53	58	1	11	12	6	64	70

PART VIII – EXTENSION ACTIVITIES

Extension Programmes (including extension activities undertaken in FLD programmes) 2015-16

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	05	98	44	142	-	-	-	5	-	5
KisanMela	-	-	-	-	-	-	-	-	-	-
KisanGhosthi	-	-	-	-	-	-	-	-	-	-
Kisan divas	01	60	15	75	10	05	15	05	-	05
Exhibition	04	2425	1000	3425	800	200	1000	40	10	50
Film Show	-	-	-	-	-	-	-	-	-	-
Method Demonstrations	10	120	18	138	-	-	-	-	-	-
Farmers Seminar	-	-	-	-	-	-	-	-	-	-
Group meetings	16	200	11	211	15	10	25	-	-	-
Lectures delivered as resource persons	54	2953	867	3820	100	63	163	55	-	55
Newspaper coverage	50	-	-	-	-	-	-	-	-	-
Radio talks	-	-	-	-	-	-	-	-	-	-
TV talks	01	-	-	-	-	-	-	-	-	-
Popular articles	16	-	-	-	-	-	-	-	-	-
Extension Literature	03	-	-	-	-	-	-	-	-	-
Advisory Services/ Helpline services	246	194	23	217	-	-	-	29	-	29
Farmers visit to KVK	196	160	07	167	29	-	29	-	-	-
Field visit	188	150	13	163	27	10	37	-	-	-
Diagnostic visits	15	18	5	23	-	-	-	-	-	-
Exposure visits	03	120	0	120	-	-	-	05	-	05
Ex-trainees Sammelan	-	-	-	-	-	-	-	-	-	-
Soil health Camp	03	140	20	160	20	5	25	5	-	5
Animal Health Camp	03	184	26	210	60	20	80	6	-	6
Agri mobile clinic	-	-	-	-	-	-	-	-	-	-
Soil test campaigns	-	-	-	-	-	-	-	-	-	-
Farm Science Club Conveners meet	-	-	-	-	-	-	-	-	-	-
Self Help Group Campaigns	03	13	73	86	-	20	20	5	-	5
Mahila Mandals Conveners meetings	-	-	-	-	-	-	-	-	-	-
Celebration of important days(world food day, world soil health day & farmers day)	03	350	100	450	30	10	40	5	2	7
Technological week	01	120	110	230	30	10	40	5	3	8
Any other (PRA/Survey)	04	100	20	120	20	-	20	-	-	-
Any other (AV aids developed) charts	20	-	-	-	-	-	-	-	-	-
Awareness programme (Pre-Kharif, National Nutritional Week & PPVFRA)	03	350	150	500	150	50	200	15	05	20
Bimonthly workshops	04	-	-	-	-	-	-	180	40	220

Tri monthly workshop	04	-	-	-	-	-	-	200	50	250
KMAS	141	786140	-	786140	-	-	-	-	-	-
Total	997	7755	2502	10262	1291	403	1694	560	110	670

PART IX – PRODUCTION OF SEED, PLANT AND LIVESTOCK MATERIALS

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
Total	Drumstick	Bhagya	-	3.05 kg	6100	45

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 (Mango Special)	Mango micronutrient mixture	1000 (856 kg sold)	1,28,400	220

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 & reference)

(A) KVK News Letter : Published 4 issues

Date of start	Periodicity	Number of copies printed	Number of copies distributed
April 2015	Quarterly	2000	1200

(B) Literature developed/published

Item	Title	Authors name	Number
Research papers	Evaluation of early cauliflower (<i>Brassica oleracea</i> var. <i>botrytis</i> L.) germplasm under tropical conditions for various horticultural traits	Santhosha,H.M., Varalakshmi,V. and KrishanaManohar,R	1
News letters	KVK Newsletter (4)	All KVK staff	2000
Popular articles (16)	Krushibeleyalli iluvari ecchisuvalli bevulepita urea	Nagraj,K.S., Santhosha,H.. and Tulasiram,K	-
	Papayadalli vungura chukke nanjurogadha nirvahane	Nagaraj,K.S., Nachegowda,V. and Tulasiram,K	-
	Gunamattada hippuneralesoppu utpandaneyalli ele simparakagala mahatva	Shashidhar, K.R., Umeshanaika, NoorullaHaveri, Thulasiram, K.	-
	Hippunereleyalli hittuthigane keetadha samagranirvahana kramagalu	Shashidhar, K.R., Santhosh, H.M., NoorullaHaveri, Umeshanaika, Thulasiram, K.	-
	Hani neeravari rasaavari haagu hippunerele besaya	Shashidhar, K.R., Thulasiram, K.	-
	Hippunereleyalli ele surulikeetadha samgra nirvahana kramagalu	Shashidhar, K.R., Umeshanaika, NoorullaHaveri, Thulasiram, K.	-

	Hippunerele thotadalli mannu parikshe madisalu anusarisabekadha viganika vidhividhanagalu	Shashidhar, K.R., Jagadeesha, B.R	-
	Hydroponics emba vinuthana besaya vidhana	Santhosha,H.M and Tulasiram,K	-
	Halasu-Sudharita besaya utpadana tantrajnanagalu	B.R. Premalatha K. Thulasiram and Nurullahaveri	-
	Reshme krushi thyajygala moulyavardhane mattu balake	Shashidhar, K.R., Thulasiram, K.	-
	September suryakanthiadhika eluvaripadayuvuduheege	B.R. Premalatha and K. Thulasiram	-
	Halasinallikeetepeedegalumattuavugalasamagrahatotikramagalu	Doddabasappa,B, K. Thulasiram and Amarananjudeshwar,H	-
	Rehमेkrushiyalli sudharithautpadna thantrikathegalu	Shashidhar, K.R., Thulasiram, K.	-
	Surakshitha aharadinda utama arogya	DeepaTerdal and B.R. Premalatha	-
	Hippunerele besayadalli bevulepitha urea, rasagobbaradha balake mattu mahatva	Shashidhar, K.R., Raghunathreddy,R.L. Nagraj,K.S., Umeshanaika,	-
	Javalu, savalumattusharamannugalanirvahane	Raghunathreddy,R.L.	-
Extension Literature (Folders) 3	Totagaarika belegalige vime	Arun,M., Santhosha,H.M. and Tulasiram,K	1000
	Daalimbeyalli adhunika besaaya paddati	Nagraj,K.S., Tulasiram,K, Shashidhar,K.R. and Santhosha,H.M.	1000
	Reshmekrushiyalli hippunerele maragala besaaya paddati	Shashidhar,K.R. Tulasiram,K, Nagraj,K.S. and Santhosha,H.M.	1000

10.B. Details of Electronic Media Produced:

S. No.	Type of media (CD / VCD / DVD/ Audio-Cassette)	Title of the programme	Number
1	DVD	Pre-kharif awareness campaign	1

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 :Discussion
- 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: College lab is being utilised

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 at KVK

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 2015-16:

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)
Soil Samples	367	367	191	25,000
Water Samples	225	225	70	24,000
Plant samples	-	-	-	-
Manure samples	-	-	-	-
Others (specify)	-	-	-	-
Total	592	592	261	49,000

10.I. Technology Week celebration during 2015-16 : Yes

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.)

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 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	-	-	-	-
02	Research projects	-	-	-	-
		-	-	-	-
03	Training programmes	-	-	-	-
		-	-	-	-
04	Demonstrations	-	-	-	-
		-	-	-	-
05	Extension Programmes	-	-	-	-
	KisanMela	-	-	-	-
	Technology Week	-	-	-	-
	Exposure visit	-	-	-	-
	Exhibition	-	-	-	-
	Soil health camps	-	-	-	-
	Animal Health Campaigns	-	-	-	-
	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
April	29	139467	-
May	25	115215	-
June	27	166652	-
July	25	162811	-
August	11	66864	-
September	1	7511	-
October	4	29664	-
November	-	-	-
December	3	22266	-
January	4	16362	-
February	4	29664	-
March	4	29664	-
Total for the year 2015-16	141	786140	-

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.(Kg)	Cost of inputs	Gross income	
1	Drumstick	2014	0.21	Bhagya	Seeds	3.05	-	6100	-
2	Drumstick	2014	0.21	Bhagya	Pods	32	-	960	-

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 (Kg)	Cost of inputs	Gross income	
Cereals /Pulse (Redgram)	-	-	0.20	BRG-1	Green pods	56.12	-	1685	-
Others (specify)									
Coriander	-	-	0.04	Solar	Green leaves	168 (Bundles)	-	840	-

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	Mango special	856 Kg (sold)	40200	1,28,400	-

13.D. Performance of instructional farm (livestock and fisheries production) : Nil

Sl. No	Name of the animal	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

13.E. Utilization of hostel facilities: No Hostel Facility: Nil

Accommodation available (No. of beds)

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
April 2015	-	-	-
May 2015	-	-	-
June 2015	-	-	-
July 2015	-	-	-
August 2015	-	-	-
September 2015	-	-	-
October 2015	-	-	-
November 2015	-	-	-
December 2015	-	-	-
January 2016	-	-	-
February 2016	-	-	-
March 2016	-	-	-

13.F. Database management

Sl.No.	Database target	Database created
-	-	-

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

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 Demonstrations	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							
With KVK (Regular Account)	State Bank of India	Kolar	6029	Programme Co-ordinator, KVK, Kolar	34004434216	563002101	SBIN0006029
With KVK (Revolving fund Account)	State Bank of India	Kolar	6029	Programme Co-ordinator, (RF) KVK, Kolar	34004259049	563002101	SBIN0006029

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

S. No.	Particulars	Sanctioned	Released	Expenditure as per Audit Utilization Cert
A. Recurring Contingencies				
1	Pay & Allowances	6917000	6917000	6541330
2	Traveling allowances	100000	100000	57556
3	Contingencies			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	81000	81000	80991
B	POL, repair of vehicles, tractor and equipments	150000	150000	149672
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	95000	95000	92586
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	39000	39000	38350
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	165000	165000	160872
	a.FLD (NFSM)	49000	49000	46900
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	96000	96000	95970
G	Training of extension functionaries	0	0	0
H	Integrated farming system	0	0	0
I	Maintenance of buildings	0	0	0
J	Establishment of Soil, Plant & Water Testing Laboratory	0	0	0
k	Library	3000	3000	1085
L	Extension activities	47000	47000	44776
M	Farmers field school	0	0	0
TOTAL (A)		7742000	7742000	7310088

B. Non-Recurring Contingencies		0	0	0
1	Works	4500000	4500000	0
2	Equipments including SWTL & Furniture	0	0	0
3	Vehicle (Four wheeler/Two wheeler, please specify)	0	0	0
4	Library (Purchase of assets like books & journals)	0	0	0
TOTAL (B)		0	0	0
C. REVOLVING FUND		0	0	0
GRAND TOTAL (A+B+C)		12242000	12242000	7310088

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

Year	Opening balance as on 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st April of each year
April 2014 to March 2015	1,00,000	1,34,920	1,12,130	1,22,790
April 2015 to March 2016	1,22,790	2,48,167	1,04,267	2,94,789

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.Shashidhar K.R.	SMS (Sericulture)	Communication & Management skills for extensional professionals	NAARM, Hyderabad	1.6.2015 to 10.06.2015
Dr.DeepaTerdal	SMS (Home Science)	Dynamics of farmers empowerment & enterprenure development	UAS, Dharwad	25.11.2015 to 15.12.2105
Dr. R.L.Raghunath Reddy	SMS (Soil Science)	Farmers Producers Organiztion (FPOS)	NABARD, Bangalore	03.1.2016
Dr.Nagaraja.K.S	SMS (Horticulture)	Communication skills in effective extension delivery	SAMETI, UAS, Bengaluru	14.03.2016 to 17.03.2016

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

SUMMARY FOR 2015-16

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 in Potato	04
Improved method of sowing in Ragi for drought mitigation	Ragi	Improved method of sowing in ragi for drought mitigation	02
Water use efficiency	Mulberry	Assessment of irrigation systems for better WUE in Mulberry	01
Quality cocoon production, reduction in cost of silkworm rearing	Mulberry	Assessment of different mountages for Quality cocoon production	03
Total			10

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
Addressing nutritional imbalance	Home Science	Assessment of nutritional status of farm women through composite flour mix supplementation	1
Drudgery of farm women	Home Science	Evaluation of hand operated weeders for farm women in groundnut for drudgery reduction	03

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	**	Gross Cost	Gross Return	Net Return	**
							H	L	A										
Oilseeds (Groundnut)	Improved variety and bio fertilizers	KCG-6	-	Rainfed	10	2	18	11.5	14.30	11.45	24.89	44,445	78,650	34,205	1.76	40,038	62,975	22,938	1.57
Millets (Ragi)	Introduction of improved variety in Ragi, KMR-204 for yield maximization	KMR-204	--	Rainfed	20	8	25.2	12.5	17.23	14.18	21.50	28,918	49,164	20,246	1.70	26,710	40,139	13,429	1.49
Pulses (Redgram)	Integrated Pest and Disease Management in Red gram	BRG-1	--	Rainfed	20	8	46.9	14.9	27.25	22.78	19.62	31441	41883	10441	1.31	29297	34970	5673	1.17
Vegetables (Potato)	Integrated crop management in potato	Kufri Jyothi	--	Irrigated	10	4	25.5	16.5	21.15	17.76	19.08	1,55,240	2,67,720	1,12,480	1.73	1,59,209	2,24,933	65,724	1.41
Vegetables (Tomato)	Integrated Management of Late blight disease & Nutirent management	--	Indus 1030	Irrigated	5	1	60.5	31.5	47.64	40.98	16.25	103570	163702	60132	1.59	109280	141344	32064	1.30
Cabbage	Integrated pest management	--	Unnati	Irrigated	5	1	62.7	38.5	52.49	45.59	15.13	63890	104980	41090	1.66	66770	91180	24410	1.37
Fruit (Mango)	Integrated crop management	--	Alphanso	Rainfed	5	2	Demonstration is still going on												
Sericulture(Mulberry)	ICM in Mulberry	V1	--	Irrigated	10	4	121.73	111.79	119.40	108.03	10.52	25,860	59,699	33,839	2.31	25,500	54,015	28,515	2.19
Sericulture(Silkworm rearing)	Introduction of FC2XFC1 bivoltine silkworm Hybrid	--	F2xFc1	Irrigated	5	500 dfls	89.39	82.47	86.3	79.17	9.00	12,970	33,118	20,148	2.55	12,500	28,973	16,473	2.31
Home science*																			
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

Results of Frontline Demonstrations of Home Science*

Crop	Name of the technology demonstrated	Cost of 1kg Mango jam preparation			SHG group of Kolathur produced 70 kg of Mango jam		
		Particulars	Unit	Amount	Particulars	Unit	Amount
Home science	Linking SHGs to branding and market for of Mango fruit (EDP)	Cost of 1kg Mango jam preparation	Rs/kg	80.00	Total cost of production of 70 kg of Mango jam	Rs.	5600
		Selling price of mango jam	Rs/kg	250.00	Selling price	Rs/kg	250
		Net returns	Rs/kg	170.00	Total returns	Rs.	17500
		B:C ratio	Rs/kg	3.12	Net returns	Rs.	11900
					B:C Ratio	-	3.12

Crop	Name of the technology demonstrated	Cost of 1kg jack chips preparation			SHG group of Dasarhoshalli village produced 50 kg of jack chips		
		Particulars	Unit	Amount	Particulars	Unit	Amount
Home science	Linking SHGs to branding and market for of Jack fruit (EDP)	Cost of 1 kg jack fruit chips	Rs/kg	70	Total cost of production of 50kg of chips	Rs.	3500
		Selling price of jack fruit chips	Rs/kg	300	Selling price	Rs/kg	300
		Net returns	Rs/kg	230	Total returns	Rs.	15000
		B:C Ratio		4.28	Net returns	Rs.	11500
					B:C Ratio		4.28

Crop	Name of the technology demonstrated	Cost of 1kg jack fruit jam preparation			SHG group of Dasarhoshalli village produced 40 kg of jack fruit jam		
		Particulars	Unit	Amount	Particulars	Unit	Amount
Home science	Linking SHGs to branding and market for of Jack fruit (EDP)	Cost of 1 kg jack fruit jam	Rs/kg	60	Total cost of production of 40 kg of jack jam	Rs.	2400
		Selling price of jack fruit jam	Rs/kg	250	Selling price	Rs/kg	250
		Net returns	Rs/kg	190	Total returns	Rs.	10000
		B:C Ratio		4.16	Net returns	Rs.	7600
					B:C Ratio		4.16

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	** B C R	Gross Cost	Gross Return	Net Return	** B C R
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	** B C R	Gross Cost	Gross Return	Net Return	** B C R
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 KV Ks	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	** B C R	Gross Cost	Gross Return	Net Return	** B C R	
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

Soil Health and Fertility Management	10	951	61	1012	114	4	118	1065	65	1130
Livestock Production and Management	-	-	-	-	-	-	-	-	-	-
Home Science/Women empowerment	8	33	339	372	25	136	161	58	475	533
Household food security by kitchen gardening and nutrition gardening	-	-	-	-	-	-	-	-	-	-
Value addition	-	-	-	-	-	-	-	-	-	-
Agril. Engineering	-	-	-	-	-	-	-	-	-	-
Plant Protection	11	587	16	603	92	06	98	679	22	701
Fisheries	-	-	-	-	-	-	-	-	-	-
Production of Inputs at site	-	-	-	-	-	-	-	-	-	-
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-
CapacityBuilding and Group Dynamics	-	-	-	-	-	-	-	-	-	-
Agro-forestry	-	-	-	-	-	-	-	-	-	-
others	-	-	-	-	-	-	-	-	-	-
TOTAL	31	1600	428	2028	235	148	383	1835	576	2411

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
Improved production technologies in BV Sericulture	8	253	3	256	35	2	37	288	5	293
TOTAL	8	253	3	256	35	2	37	288	5	293

Training for Rural Youths including sponsored training programmes (off campus):

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Tree mulberry cultivation & preparation of biocrafts	7	149	86	235	18	11	29	167	97	264
TOTAL	7	149	86	235	18	11	29	167	97	264

Training programmes for Extension Personnel 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
-	-	-	-	-	-	-	-	-	-	-

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
-	-	-	-	-	-	-	-	-	-	-

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	IPM in important horticulture & field crops in Kolar district	2	88	18	106	7	5	12	95	23	118
	Total	2	88	18	106	7	5	12	95	23	118

Details of sponsoring agencies involved: CIPMC, Bangalore

Details of Vocational Training Programmes carried out by KVVs 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	Income generation activities (Preparation of biocrafts from pierced cocoons, paper bag and candle making)	03	5	53	58	1	11	12	6	64	70
	Total	03	5	53	58	1	11	12	6	64	70

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	05	98	44	142	-	-	-	5	-	5
KisanMela	-	-	-	-	-	-	-	-	-	-
KisanGhosthi	-	-	-	--	-	-	-	-	-	-
Kisan divas	01	60	15	75	10	05	15	05	-	05
Exhibition	04	2425	1000	3425	800	200	1000	40	10	50
Film Show	-	-	-	-	-	-	-	-	-	-
Method Demonstrations	10	120	18	138	-	-	-	-	-	-
Farmers Seminar	-	-	-	--	-	-	--	-	-	-
Group meetings	16	200	11	211	15	10	25	-	-	-
Lectures delivered as resource persons	54	2953	867	3820	100	63	163	55	-	55
Newspaper coverage	50	-	-	-	-	-	-	-	-	-
Radio talks	-	-	-	-	-	-	-	-	-	-
TV talks	01	-	-	-	-	-	-	-	-	-
Popular articles	16	-	-	-	-	-	-	-	-	-
Extension Literature	03	-	-	-	-	-	-	-	-	-
Advisory Services/ Helpline services	246	194	23	217	-	-	-	29	-	29
Farmers visit to KVK	196	160	07	167	29	-	29	-	-	-
Field visit	188	150	13	163	27	10	37	-	-	-
Diagnostic visits	15	18	5	23	-	-	-	-	-	-
Exposure visits	03	120	0	120	-	-	-	05	-	05
Ex-trainees Sammelan	-	-	-	-	-	-	-	-	-	-
Soil health Camp	03	140	20	160	20	5	25	5	-	5
Animal Health Camp	03	184	26	210	60	20	80	6	-	6
Agri mobile clinic	-	-	-	-	-	-	-	-	-	-
Soil test campaigns	-	-	-	--	-	-	-	-	-	-
Farm Science Club Conveners meet	-	-	-	-	-	-	-	-	-	-
Self Help Group Campaigns	03	13	73	86	-	20	20	5	-	5
Mahila Mandals Conveners meetings	-	-	-	-	-	-	-	-	-	-
Celebration of important days (world food day, world soil health day & farmers day)	03	350	100	450	30	10	40	5	2	7
Technological week	01	120	110	230	30	10	40	5	3	8
Any other (PRA/Survey)	04	100	20	120	20	-	20	-	-	-
Any other (AV aids developed) charts	20	-	-	-	-	--	-	-	-	-
Awareness programme (Pre-Kharif, National Nutritional Week & PPVFRA)	03	350	150	500	150	50	200	15	05	20
Bimonthly workshops	04	-	-	-	-	-	-	180	40	220
Tri monthly workshop	04	-	-	-	-	-	-	200	50	250
KMAS	141	786140	-	786140	-	-	-	-	-	-
Total	997	7755	2502	10262	1291	403	1694	560	110	670

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	2	65	-	65	15	-	15	80	-	80
Integrated Crop Management	-	-	-	-	-	-	-	-	-	-
a) Vegetable Crops	01	40	-	40	10	-	10	50	-	50
Protective cultivation	-	-	-	-	-	-	-	-	-	-
b) Fruits	01	40	-	40	10	-	10	50	-	50
c) Ornamental Plants	-	-	-	-	-	-	-	-	-	-
d) Plantation crops	-	-	-	-	-	-	-	-	-	-
e) Tuber crops	-	-	-	-	-	-	-	-	-	-
f) Spices	-	-	-	-	-	-	-	-	-	-
g) Medicinal and Aromatic Plants	-	-	-	-	-	-	-	-	-	-
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-
Soil Health and Fertility Management	01	30	-	30	5	-	5	35	-	35
Livestock Production and Management	-	-	-	-	-	-	-	-	-	-
Home Science/Women empowerment	03	-	198	198	-	32	32	-	230	230
Agril. Engineering	-	-	-	-	-	-	-	-	-	-
Plant Protection	-	-	-	-	-	-	-	-	-	-
Fisheries	-	-	-	-	-	-	-	-	-	-
CapacityBuilding and Group Dynamics	-	-	-	-	-	-	-	-	-	-
Agro-forestry	-	-	-	-	-	-	-	-	-	-
Sericulture	01	25	-	25	5	-	5	30	-	30
TOTAL	09	200	198	398	45	32	77	245	230	475

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										
Horticulture										
a) Vegetable Crops	01	11	12	23	2	2	4	13	14	27
Production of low value and high volume crop	-	-	-	-	-	-	-	-	-	-
Protective cultivation	-	-	-	-	-	-	-	-	-	-
b) Fruits	01	18	-	18	02	-	02	20	-	20
c) Ornamental Plants	-	-	-	-	-	-	-	-	-	-
d) Plantation crops	-	-	-	-	-	-	-	-	-	-
e) Tuber crops	-	-	-	-	-	-	-	-	-	-
f) Spices	-	-	-	-	-	-	-	-	-	-
g) Medicinal and Aromatic Plants	-	-	-	-	-	-	-	-	-	-

Soil Health and Fertility Management	10	951	61	1012	114	4	118	1065	65	1130
Livestock Production and Management	-	-	-	-	-	-	-	-	-	-
Home Science/Women empowerment	8	33	339	372	25	136	161	58	475	533
Household food security by kitchen gardening and nutrition gardening	-	-	-	-	-	-	-	-	-	-
Value addition	-	-	-	-	-	-	-	-	-	-
Agril. Engineering	-	-	-	-	-	-	-	-	-	-
Plant Protection	11	587	16	603	92	06	98	679	22	701
Fisheries	-	-	-	-	-	-	-	-	-	-
Production of Inputs at site	-	-	-	-	-	-	-	-	-	-
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-
CapacityBuilding and Group Dynamics	-	-	-	-	-	-	-	-	-	-
Agro-forestry	-	-	-	-	-	-	-	-	-	-
others	-	-	-	-	-	-	-	-	-	-
TOTAL	31	1600	428	2028	235	148	383	1835	576	2411

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Improved production technologies in BV Sericulture	8	253	3	256	35	2	37	288	5	293
TOTAL	8	253	3	256	35	2	37	288	5	293

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Tree mulberry cultivation & preparation of biocrafts	7	149	86	235	18	11	29	167	97	264
TOTAL	7	149	86	235	18	11	29	167	97	264

7.E.Training programmes for Extension Personnel 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
-	-	-	-	-	-	-	-	-	-	-

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
-	-	-	-	-	-	-	-	-	-	-

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	IPM in important horticulture & field crops in Kolar district	2	88	18	106	7	5	12	95	23	118
	Total	2	88	18	106	7	5	12	95	23	118

Details of sponsoring agencies involved: CIPMC, Bangalore

7.H. 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	Income generation activities (preparation of biocrafts from pierced cocoons, paper bag and candle making)	03	5	53	58	1	11	12	6	64	70
	Total	03	5	53	58	1	11	12	6	64	70

V – EXTENSION PROGRAMMES

Activities	No. of Programmes	No. of Farmers	No. of extension personnel	Total
Field Day	05	142	05	147
KisanMela	00	00	00	0
KisanGhoshi	00	00	00	0
Kisan divas	01	90	05	95
Exhibition	04	4425	50	4475
Film Show	00	00	00	0
Method Demonstrations	10	138	00	138
Farmers Seminar	00	00	00	00
Group meetings	16	236	00	236
Lectures delivered as resource persons	54	3983	55	4038
Newspaper coverage	50	00	00	00
Radio talks	00	00	00	00
TV talks	01	00	00	00
Popular articles	16	00	00	00
Extension Literature	03	00	00	00
Advisory Services/ Helpline services	246	217	29	246
Farmers visit to KVK	196	196	00	196
Field visit	188	163	37	200
Diagnostic visits	15	23	06	29
Exposure visits	03	120	05	125
Ex-trainees Sammelan	00	00	00	0
Soil health Camp	03	185	05	190
Animal Health Camp	03	290	06	296
Agri mobile clinic	00	00	00	00
Soil test campaigns	00	00	00	00
Farm Science Club Conveners meet	00	00	00	00
Self Help Group Campaigns	03	106	05	111
Mahila Mandals Conveners meetings	00	00	00	00

Celebration of important days (World food day, world soil health day, Kisandiwas)	03	490	07	497
Technological week	01	270	08	278
Any other (PRA/Survey)	04	140	00	140
Any other (AV aids developed) charts	20	00	00	00
Awareness Programme (Pre-Kharif, National nutrition week and PPV&FRA)	03	700	20	720
Bimonthly workshops	04	00	220	220
Trimonthly workshops	04	00	250	250
KMAS	141	786140	-	-
Total	997	11914	713	12627

Details of other extension programmes

S No	Particulars	Number
1	Electronic Media	01
2	Extension Literature (Folders)	03
3	News Letter	04
4	Newspaper coverage	50
5	Technical Articles	-
6	Technical Bulletins	-
7	Technical Reports	-
8	Radio Talks	00
9	TV Talks	01
10	Animal health camps	03
11	Others (popular articles)	16
12	Publications(Research)	01
	Total	79

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	Drumstick	Bhagya	3.05	6100	45

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	856	1,28,000	350

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 2015-16 :

Samples	No. of Samples	No. of Farmers	No. of Villages	Amount realized (Rs.)
Soil	367	367	191	25,000
Water	225	225	70	24,000
Plant	-	-	-	-
Manure	-	-	-	-
Others (pl.specify)	-	-	-	-
Total	592	592	261	49,000

VIII. SCIENTIFIC ADVISORY COMMITTEE-2015-2016

Number of SACs conducted: Nil

IX. NEWSLETTER

Number of issues of newsletter published: 04

X. RESEARCH PAPER PUBLISHED

Number of research papers published: 01

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

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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