



UNIVERSITY OF
HORTICULTURAL SCIENCES
BAGALKOT



ANNUAL PROGRESS REPORT

(APRIL 2016 TO MARCH 2017)



ICAR-KRISHI VIGYAN KENDRA
KOLAR (KARNATAKA)

PART I – GENERAL INFORMATION ABOUT THE ICAR-KVK

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

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

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

Address	Telephone		E mail	Web Address
	Office	Fax		
University of Horticultural Sciences, Bagalkot Udyanagiri, Navanagar, Bagalkot - 587104	8354-230351 / 230364	8354-230351 / 230364	vc@uhsbagalkot.edu.in de@uhsbagalkot.edu.in	www.uhsbagalkot.edu.in

1.3. Name of the Senior Scientist & Head 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 2017)

Sl. No.	Sanctioned post	Name	Designation	M/F	Discipline	Qualification	Pay Scale	Basic pay	Date of joining KVK	Permanent	Category
1	Programme Coordinator	K.Thulasiram	Senior scientist & Head	M	Ag. Entomology	M.Sc.(Agri)	37400-67000+9000AGP	55440	26-12-2012	Permanent	Other
2	Subject Matter Specialist	Dr. Raghunathareddy R.L	Scientist (Soil Science)	M	Soil Science	Ph.D, PDF	15600-39100+6000 AGP	26860	31-08-2015	Permanent	Other
3	Subject Matter Specialist	Dr.K.R.Shashidhar	Scientist (Sericulture)	M	Sericulture	Ph.D	15600-39100+6000 AGP	26860	17-01-2014	Permanent	SC
4	Subject Matter Specialist	NoorullaHaveri (SL)	Scientist (Plant Pathoogy)	M	Plant Protection	M.Sc.(Agri)	15600-39100+6000 AGP	22920	27-01-2014	Permanent	OBC
5	Subject Matter Specialist	Dr.Nagaraja K.S.	Scientist (Horticulture)	M	Horticulture	Ph.D	15600-39100+6000 AGP	24850	05-11-2015	Permanent	SC
6	Subject Matter Specialist	Dr.Chikkanna G.S	Scientist (Home science)	M	Home Science	Ph.D	15600-39100+6000 AGP	21600	22-06-2016	Permanent	Other
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	14760	06-03-2014	Permanent	Other
9	Programme Assistant (Computer)/ T-4	C.S.GnanaSudha	Programme Assistant (Computer)	F	Computer Science	M.C.A.	9300-34800+4200 AGP	14760	27-01-2014	Permanent	SC
10	Farm Manager	Umesha Naik	Farm Manager	M	Agriculture	M.Sc.(Agri)	9300-34800+4200 AGP	14760	03-03-2014	Permanent	ST
11	Accountant	H.M. Ravishankar	Assistant	M	-	M.Com	16000-29600	17200	22-03-2013	Permanent	SC
12	Jr. Stenographer	Savitri G. Rudrapur	Stenographer	F	-	M.Com	20000-36300	21000	12-03-2014	Permanent	OBC
13	Driver 1	Pradeep T.M.	Driver	M	-	VII class	8281	-	08-01-2014	contractual	SC
14	Driver 2	-	-	-	-	-	-	-	-	-	-
15	Supporting staff	Srinivass D. Gasti	Gardner	M	-	B.A.	9600-14450	10200	02-03-2014	Permanent	SC
16	Supporting staff	Srinath A.N.	Field Worker	M	-	PUC	8249	-	01-02-2016	contractual	SC

1.6. Total land with KVK (in ha) : 16 ha

S. No.	Item	Area (ha)
1	Under Buildings	-
2.	Under Demonstration Units	-
3.	Under Crops	0.8
4.	Orchard/Agro-forestry	2.0
5.	Others	13.2

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.Farm Pond	GOK		15x15x9 m	2,50,000			
	2.Mulberry varietal block, Drumstick block, Curry leaf block	ICAR	-	2000 2000 100	-	-	-	-
	3.Low cost poly house 1	ICAR	-	216	3,68,185	-	-	-
	4.Poly tunnels 4	ICAR	-	400		-	-	-
	5.Jackfruit processing unit	ICAR	-	10	3,95,265	-	-	-
	6.Hydroponic fodder unit	ICAR	-	4x2 sq.ft	30000	-	-	-
5	Fencing	-	-	-	-	-	-	-
6	Rain Water harvesting system	-	-	-	-	-	-	-
7	Threshing floor	-	-	-	-	-	-	-
8	Farm godown	-	-	-	-	-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Hero Splendor plus	2013	54600	10194	Good
Honda Activa	2013	61345	9597	Good
Bolero ZLX	2014	663706	65505	Good

C) Equipments & AV aids:

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Vegetable Handy Planter	2016	2000	Good
Branded Heavy duty load bearing cabinet (Steel Almirah)	2016	14470	Good
Branded carware brand caned seating ('S' type full arm chair)	2016	2445	Good

Knock down Type seating (Wooden peacock chair)	2016	4567	Good
Branded Indexed Cabinet 4 Drawer filing cabinet with 100 CFF(Filing cabinet)	2016	17458	Good
Branded officers Desking (T-9 Table) with 18 mm PLB Top	2016	12033	Good
Jack Fruit Chips machine	2016	8800	Good
Nikon D5300 (with free gb card + carry case +HDMI cable)	2016	34800	Good
Sealing Machine	2017	1000	Good
ISI A, "Taypcerana Bee hive Box	2017	17600	Good
Branded 12 Pigeons Wooden magazine display cabinet	2017	24390	Good
Steel Book case	2017	14470	Good
Branded officers steel table	2017	11877	Good
Remote calling bell	2017	400	Good
Dell Desktop system	2017	36500	Good
Canon Printer LBP 2900	2017	7800	Good
Hydroponic system unit(1)(72 tray)	2017	30000	Good
Soil sampling Augur set	2017	19980	Good
Executive Revolving chair	2017	12159	Good
Executive table	2017	16299	Good
Officers Revolving chair	2017	58212	Good
Pulp boiling machine	2017	94447	Good
Conventional pulp making machine	2017	54500	Good
Pulp making machine all contact parts made of food grade 304 stainless steel	2017	31700	Good
Digital Hand held refractometer for invert sugar	2017	27000	Good
Digital PH meter make: systronics india Mode 335	2017	14500	Good
Racks 6 ft (8 Angle & 6 Plates)	2017	3600	Good
Toshiba e -studio xerox machine	2017	86000	Good
Acer Desktop Computer	2017	99900	Good
Mridaparikshak soil testing Kit(Mini lab)	2017	86000	Good
Logitech webcam	2017	900	Good
Logitech R400 Presenter	2017	3120	Good
Logitech Mouse wireless	2017	700	Good
Flame photometer	2017	73758	Good

1.8. Details SAC meeting conducted in 2016-17

Sl.No.	Date	No. of Participants	No.of absentees	Salient Recommendations	Action taken
				Not conducted during 2016-17	

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 Kharif season. The elevation is 800-900 m and the soils are red loamy in major areas, lateritic in the remaining areas

S. No	Agro ecological situation	Characteristics
	Semi -arid climate	The district receives an annual rainfall of 744 mm received in 45 rainy days. The duration of the monsoon, however, seems to be shrinking with the first three months in the year receiving very little rainfall in recent times. The rainfall distribution has two peaks, one during May and another during

		September. It is characterized by erratic and uneven distribution. Predominantly the tube wells/bore wells are the major source of irrigation in the district. There are about 41,311 ha of land being irrigated through such bore wells. The number of irrigation pump sets existing in the district is 50,366. Tanks and open wells are the other sources of irrigation.
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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 (t /ha)
Field crops				
1.	Ragi	58207	104582	1796 kg/ha
2.	Ground nut	10513	14187	1349 kg/ha
3.	Avare	8023	4028	502 kg/ha
4.	Tur	3401	4213	1238 kg/ha
5.	Maize	1133	4523	3992 kg/ha
6.	Cowpea	1600	139	274 kg/ha
7.	Horse gram	628	970	1544 kg/ha
Vegetable crops				
8.	Tomato	9695	547753	56.5
9.	Potato	6951	107928	15.53
10.	Beans	3299	34640	10.50
11.	Cabbage	1758	34039	19.36
12.	Knol-khol	1605	25680	16
13.	Green chilli	1441	29463	20.45
14.	Carrot	1387	27047	19.50
15.	Brinjal	1235	39520	32
16.	Radish	1029	12348	12
17.	Cauliflower	732	12078	16.5
18.	Onion	525	5522	10.51
19.	Capsicum	450	9000	20
20.	Ladies finger	322	2898	9
Fruit crops				
21.	Mango	46772	374176	8
22.	Banana	3720	123405	3317
23.	Sapota	3403	52320	15.37
24.	Guava	565	12400	21.95
25.	Papaya	367	27628	75.28
26.	Grapes	219	4284	19.56
27.	Citrus and its sps.	78	1558	19.90
28.	Pomegranate	42	1016	24.06
Plantation crops				
29.	Coconut	6657	691	0.10
30.	Cashewnut	2196	4246	1.93
31.	Arecanut	4	6	1.49
Aromatic crops				

32.	Davana	774.00	7660.00	9.90
33.	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
Sericulture				
46.	Mulberry	17889	715560	40000
47.	Cocoon production	18105 Farmers	12772	761

* Statistical survey, Horticultural & Agricultural dept. (2016-17)

2.5. Weather data

Month	Rainfall (mm)		Temperature °C		Relative Humidity (%)
	Normal	Actual (16-17)	-	-	
Apr	3.80	8.60	-	-	-
May	5.40	0.06	-	-	-
Jun	11.20	8.44	-	-	-
Jul	29.00	2.26	-	-	-
Aug	84.20	126.76	-	-	-
Sep	53.80	80.16	-	-	-
Oct	76.00	153.36	-	-	-
Nov	87.00	44.38	-	-	-
Dec	145.20	26.58	-	-	-
Jan	143.40	22.62	-	-	-
Feb	64.40	2.76	-	-	-
Mar	24.20	80.22	-	-	-
Total	724.00	556.20	-	-	-

Department of Agriculture, Kolar(2016-17)

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

Category	Population	Production	Productivity
Cattle			
Crossbred	43904	-	-
Indigenous	149877	-	-
Buffalo	79513	-	-
Sheep			
Crossbred	292	-	-
Indigenous	73690	-	-
Goats	62140	-	-
Pigs			
Crossbred	0	-	-
Indigenous	3162	-	-
Rabbits	351	-	-
Poultry	904421	-	-

(As per 2012 District wise census, Veterinary Dept)

Category	Area	Production	Productivity
Inland	23.02lakh (Fish seed stock)	936.85 Tonnes	-

2.7 District profile has been updated for 2016-17 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	Sugatur	Balagere	1 year	Red gram, Ragi, Mango, Field bean, Tomato, Mulberry	Scanty rainfall, sterility mosaic disease, leaf webber, pod borer- redgram, lack of short duration variety-Ragi, stem borer, hopper, powdery mildew-Mango, Weevil, Trips-field bean, White fly, trips-Tomato, Trips, Tukra disease-Mulberry	Integrated Crop Management
2	Kolar	Sugatur	Mullahalli	1 year	Red gram, Ragi, Mango, Field bean, Tomato, Mulberry	Scanty rainfall, sterility mosaic disease, leaf webber, pod borer- redgram, lack of short duration variety-Ragi, stem borer, hopper, powdery mildew-Mango, Weevil, Trips-field bean, White fly, trips-Tomato, Trips, Tukra disease-Mulberry	Integrated Crop Management
3	Kolar	Sugatur	Shettymadamangala	1 year	Red gram, Ragi, Mango, Field bean, Tomato	Scanty rainfall, sterility mosaic disease, leaf webber, pod borer- redgram, lack of short duration variety-Ragi, stem borer, hopper, powdery mildew-Mango, Weevil, Trips-field bean, White fly, trips-Tomato, Trips, Tukra disease-Mulberry	Integrated Crop Management
4	Malur	Kasaba	Abbenahalli	1 year	Ragi, Filed bean, Tomato, Flower crops	Scanty rainfall, low yield , low income	Introduction of new variety KMR-204, blast & defoliator management in Ragi
5	Malur	Kasaba	Madiwala	1 year	Ragi, Filed bean, Tomato, Flower crops	Scanty rainfall, low yield, low income	Introduction of new variety KMR-204, blast & defoliator management in Ragi
6	Mulbagil	Byrakuru	Budaderu	1 year	Groundnut, Redgram, Field bean, Toamto, Potato	Low yield, micro nutrient deficiency, low income	Introduction of new variety KCG-6, bio fertilizers & micro nutrient usage in groundnut(NFSM)
7	Srinivaspura	Yeldur	Y. Hosahalli	1 year	Mango, Tomato	Inadequate water conservation methods & micro nutrient application, low fertility, improper management of pest & diseases	Integrated Nutrient Management
8	Kolar	Huthur	Kenchapura	1 year	Tomato, Guava	Bronzing in leaves & fruits & low yield	Integrated Nutrient Management
9	Bangarpet	Bethmangala	Gannerahalli	1 year	Tomato, potato, cabbage, cauliflower, Marigold	Injudicious use of chemicals, low yield, traditional method of cultivation	Integrated Crop Management
10	Kolar	Honnenahalli	Gaddekannuru	1 year	Tomato, Cauliflower, Potato, Cabbage	High pest incidence in cauliflower low/reduced yield.	Integrated Nutrient Management
11	Kolar	Huthur	Mallandahalli	1 year	Tomato, potato, cauliflower, pole beans	Injudicious use of fertilizers & micro nutrients	Integrated Nutrient Management
12	Mulbagilu	Tayaluru	Mindahalli	1 year	Cabbage, Tomato	Severe incidence of DBM & indiscriminate use of pesticides	Integrated Pest Management
13	Kolar	Holur	Nayakarahalli	1 year	Mulberry, Tomato,Chilli, Ragi, Mango etc	Water scarcity, Pest incidence & low leaf & cocoon yield	Integrated nutrient & water management

14	Bangarpet	Bangarpet	Thoraganadoddi	1 year	Mulberry, Tomato, Ragi, Fieldbean, Chilly	Low leaf yield & quality, lack of awareness on bio fertilizers and micronutrients application, Severe incidence of leaf roller winter seasons	Integrated Crop Management in Mulberry
15	Kolar	Kasaba	Nadupalli	1 year	Mulberry, Ragi, Fieldbean, potato, Tomato	Unawareness of improved mounting methods leads to more defective cocoon, labour and time consuming	Assessment of different mountages for quality cocoon production
16	Kolar	kolar	Hanchala	1 Year	Ragi, Field bean, Redgram, Potato, Tomato	Malnutrition	Assessment of malnutritional status of farm women through composite flour mix supplementation
17	Kolar	Kolar	Kallipura	1 Year	Ragi, Field bean, Redgram, Potato, Tomato	Low income realization due to lack of knowledge on minimal processing, packaging, labeling & branding.	Linking SHGs to branding & market for minimal processing of Jackfruit

2.9 Priority thrust areas

SI. No	Thrust area
1	Yield optimization through improved varieties
2	Integrated Pest and Disease management
3	IPM Practices in major fruits and vegetables
4	Water and nutrient management in mulberry and quality cocoon production
5	Promotion Organic farming
6	Value addition and malnutrition
7	Water and nutrient management in Horticulture crops

PART III - TECHNICAL ACHIEVEMENTS

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

OFT				FLD			
5				14			
Number of OFTs		Number of Farmers		Number of FLDs		Number of Farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
5	5	12	12	14	13	164	153

Training				Extension Programmes			
65				652			
Number of Courses		Number of Participants		Number of Programmes		Number of Participants	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
38	65	2850	3535	456	652	1500	17224

Livestock, poultry strains and fingerlings (No.)		Bio-products (Kg) Mango special	
		2303	
Target	Achievement	Target	Achievement
--	--	1500	2303

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

S.No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions										
				Title of OFT if any	Title of FLD if any	Number of Training (Farmers)	Number of Training (Youths)	Number of Training (Extension personnel)	Extension activities (No.)	Suppl y of seeds (Qtl.)	Supply of Planting materials (No.)	Supply of livesto ck(No.)	Supply of bio products	
													No	Kg
1	Yield optimization through improved varieties	Ragi	Local varieties, low yields, blast and defoliator management and lack of awareness on biofertilizers	-	Introduction of new variety KMR-204, blast and defoliator management in Ragi	0	--	--	3	100 kg	--	--	20	4
2	Integrated pest and disease management	Red gram	Low yields, sterility mosaic virus and insect pest management	-	Integrated crop management in Red gram var. BRG-1 (NFSM)	2	--	--	1	300 kg	--	--	60	24
3	Yield optimization through improved varieties	Groundnut	Local varieties, lack of awareness on bio fertilizers and micronutrients application	-	Introduction of new variety KCG-6/K6, bio fertilizers and micronutrients usage in groundnut (NFSM)	1	--	--	1	--	--	--	20	03
4	Integrated Crop Management	Mango	Inadequate water conservation methods and micro nutrients, low soil fertility, Improper management of pest and diseases	-	Integrated Crop Management in mango	1	--	--	1	50 kg (Mukuna 5 farmers)	--	--	--	--
5	Integrated nutrient management	Guava	Bronzing and micronutrient deficiency	-	Integrated nutrient management in guava	1	--	--	Field day	-	-	-	--	-

6	Integrated Crop Management	Potato	Haulm development at cost of tuber, late blight, mite, tuber moth and defoliator problem	-	Management of excess growth of haulm and late blight and other pest in Potato	1	--	--	Field day	--	--	--	--	--
6	Integrated pest and disease management	Tomato	Improper method of fertilizer application injudicious use of fertilizers and micro nutrient management	-	Nutrient management in tomato through fertigation	-	--	--	Field day	--	--	--	--	--
7	Integrated pest management	Cauliflower	Whiptail, brown rot		Integrated nutrient management in cauliflower	1	--	--	--	--	--	--	--	-
8	Integrated crop management	Mulberry	Scarcity of water and low leaf yield		Demonstration on tree mulberry for rainfed sericulture	2	-	--	--	--	--	--	08	70
8	Integrated crop management	Mulberry	Injudicious use of chemical fertilizers, lack of awareness on bio fertilizers and micronutrients application, Lack of awareness on application of silkworm growth promoter	-	Nutrient management in mulberry & Use of Silkworm growth enhancer for higher cocoon yield	1	--	--	Field day	--	--	--	10	70
9	Yield optimization through improved varieties	Sericulture	Low grade silk & cocoon price	-	Introduction of bivoltine hybrid KRISHNARAJA for quality cocoon production	2	--	--	Field day	--	--	--	--	--

10	Malnutrition	Home science	Malnutrition	-	Nutritional security of adolescent girls through nutrition garden	4	--	--	--	Seed kit 2 box	--	--	--	--
10	Value addition	Jack Fruit	Low income realization due to lack of knowledge on minimal processing, packaging, labeling and branding.	-	Linking SHGs to branding and market for of Jack fruit	1	--	--	--	--	--	--	--	--
11	Value addition	Jack Fruit	Low income realization due to lack of knowledge on minimal processing, packaging, labeling and branding.	-	Linking SHGs to branding and market for of Jack fruit	1	--	--	--	--	--	--	--s	--
12	Integrated pest management	Cabbage	Severe incidence of DBM & indiscriminate use of pesticides	Evaluation of various pest management practices in cabbage	-	--	--	1	--	--	--	--	--	--
13	Assessment of irrigation system for better WUE in mulberry	Sericulture	Decline in ground water resource and in situ water losses in mulberry garden	Assessment of irrigation system for better WUE in mulberry	-	--	--	1	--	--	--	--	--	--

14	Assessment of different mountages for Quality cocoon production	sericulture	More Defective cocoon, needs more time and labour	Assessment of different mountages for quality cocoon production	-		--	--	Field day	--	--	--	--	--
15	Drudgery of farm women	Home science (Groundnut)	Drudgery	Improving Efficiency & Reduction in Drudgery of Farm women in groundnut Weeding Activity by hand operated Twin Wheel & wheel Hoe weeder	-	1	--	--	1	--	--	--	--	--
17	Drudgery of farm women	Home science	Drudgery and health hazards	Evaluation of transplanter in horticulture crops for increasing work efficiency and reducing Drudgery	-	-	--	--	1	--	--	--	--	--

3.B2. Details of technology used during reporting period

S.No	Title of Technology	Source of technology	Crop/enterprise	No. of programmes conducted			
				OFT	FLD	Training	Others (Specify)
1	2	3	4	5	6	7	8
1	Introduction of new variety KMR-204, blast and defoliator management in Ragi	UAS Bangalore	Ragi	--	Yes	--	--
2	Introduction of new variety KCG-6/K6, bio fertilizers and micronutrients usage in groundnut (NFSM)	UAS Bangalore	Groundnut	--	Yes	1	--
3	Integrated crop management in Red gram var. BRG-1 (NFSM)	UAS Bangalore	Red gram	--	Yes	2	--
4	Integrated crop management in Mango	UAS Bangalore	Mango	-	Yes	1	--
5	Integrated nutrient management in guava	IIHR (B)	Guava	-	Yes	1	Field day
6	Management of excess growth of haulm and late blight and other pest in Potato	UHS(B)	Potato	-	Yes	1	Field day
7	Nutrient management in tomato through fertigation	IIHR(B)	Tomato	-	Yes	-	Field day
8	Integrated nutrient management in cauliflower	IIHR(B)	Cauliflower	-	Yes	1	--
9	Integrated crop management in Mulberry	CSR & TI Mysore	Mulberry	-	Yes	2	Field day
10	Integrated nutrient management in mulberry & Use of Silkworm growth enhancer for higher cocoon yield	CSRTI Mysore & UAS, B	Sericulture	-	Yes	1	Field day
11	Introduction of bivoltine hybrid KRISHNARAJA for quality cocoon production	CSR & TI Mysore	Sericulture	-	Yes	-	--
12	Linking SHGs to branding and market for minimal processing of Jack fruit	UAS, Bangalore, UAS(D)	Home science	-	Yes	1	--
13	Nutritional security of adolescent girls through nutrition garden	UASB	Home science	-	Yes	--	--
14	Evaluation of various pest management practices in cabbage	IIHR(B), RD, Reliance Polymers	Cabbage	Yes	--	--	--
15	Assessment of irrigation system for better WUE in mulberry	ITK & UAS(B)	Mulberry	Yes	--	--	--

16	Assessment of different mountages for quality cocoon production	CSR & TI Mysore, KSSR & DI Bangalore	Sericulture	Yes	--	--	Field day
17	Improving Efficiency & Reduction in Drudgery of Farm Women in groundnut Weeding Activity by hand operated Twin Wheel & wheel Hoe weeder	UAS(B), UAS(R)	Home science	Yes	--	--	--
18	Evaluation of transplanter in horticulture crops for increasing work efficiency and reducing Drudgery	ITK, ANGRAU, Telangana	Home Science	Yes	--	--	--

3. B2contd..

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
9	1	1	0	123	44	11	25	1491	1567	225	252	11673	1297	2562	285

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	Others	TOTAL
Integrated Nutrient Management		-	-	-	-	-	-	-	-	-	-
Varietal Evaluation	-	-	-	-	-	-	-	-	-	-	-
Integrated Pest Management	-	-	-	-	Cabbage	-	-	-	-	-	1
Integrated Crop Management	-	-	-	-	-	-	-	-	-	-	
Integrated Disease Management	-	-	-	-	-	-	-	-	-	-	
Value addition	-	-	-	-	-	-	-	-	-	-	-
Drudgery Reduction	-	Groundnut	-	-	-	-	-	-	-	-	1
Storage Technique	-	-	-	-	-	-	-	-	-	-	-
Mushroom cultivation	-	-	-	-	-	-	-	-	-	-	-
Sericulture 1. Water use efficiency 2. Improved mountages	-	-		Mulberry Silkworm (Cocoon production)	-	-	-	-	-	-	2
Others 1 Home science	-	-	-		-	-	-	-	-	Malnutrition	1
Total	-	1	-	2	1	-	-	-	-	1	5

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

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	Cabbage	Evaluation of various pest management practices in cabbage	03	03	0.6
Integrated Crop Management	-	-	-	-	-
Integrated Disease Management					
Small Scale Income Generation Enterprises	-	-	-	-	-
Value addition		-	-	-	-
Drudgery Reduction	Home science	1.Improving Efficiency & Reduction in Drudgery of Farm Women in groundnut Weeding Activity by hand operated Twin Wheel & wheel Hoe weeder	03	03	0.4
		2.Evaluation of transplanter in horticulture crops for increasing work efficiency and reducing Drudgery	02	02	0.4
Storage Technique	-	-	-	-	-
Mushroom cultivation	-	-	-	-	-

Others	Mulberry	1.Assessment of irrigation system for better WUE in mulberry	01	01	0.4
	Silkworm (Cocoon production)	2.Assessment of different mountages for quality cocoon production	03	03	100 dfls
Total		05	12	12	1.8

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)

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	-	-	-	-

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	-	-	-	-

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	DBM/plant	No. of sprays	Cost of PP/ha	Days to harvest	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7			8	9	10	11	12
Cabbage	Irrigated	Severe incidence of DBM & indiscriminate use of pesticides	Evaluation of various pest management practices in cabbage	03	TO1:Indiscriminate use of pesticides	DBM/plant Days to harvest Yield (tons/ha.)	6.20	14	51200	6.20	Farmers realised that the yields of cabbage under Polypropylene cover is high with very low pesticide application and the only problem is providing hoops to polypropylene cover is difficult and labour intensive.	-	-
					TO2: Integrated pest management		3.40	06	4600	3.40			
					TO3: Polypropelene non-woven crop cover		0.60	01	720+37500 = 38220	0.60			

Continued...

Technology Assessed	Source of Technology	Production	Unit	Net Return (Profit) in Rs. / ha	BC Ratio
13	14	15	16	17	18
TO1:Indiscriminate use of pesticides	---	68.06	(t/ha)	135133.30	1.66
TO2: Integrated pest management	IIHR (B)	70.03	(t/ha)	183366.70	2.10
TO3: Polypropelene non-woven crop cover	RD, Reliance Polymers	73.29	(t/ha)	175233.30	1.92

Crop/enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Total quantity of irrigation water applied / crop (60 days) in liter	Quantity of water saved per crop	Water applied/plant	Leaf moisture %	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12	13	14
Sericulture	Irrigated	Decline in ground water resource and in situ water losses in mulberry garden	Assessment of irrigation system for better WUE in mulberry	01	TO1: farmers practice Drip lines between two rows	Total quantity of irrigation water applied / crop (60 days) in l, Quantity of water saved per crop , Water applied/pl, Leaf moisture %	11,11,080	-	6.0	75.04	Farmer expressed difficulty in laying laterals at subsurface by digging the soil and problem in intercultivation since it has to be carried out in single direction instead of two sides. Overall they felt that water saving and freshness of mulberry is good in subsurface and sprinkler irrigation compared to drip lines in between two rows.	-	-
					TO2: Micro-sprinklers		10,55,520	55560	5.7	76.83			
					TO3: Sub-surface irrigation		9,99,980	1,11,100	5.4	76.99			

Continued...

Technology Assessed	Source of Technology	Production	Unit	Net Return (Profit) in Rs. / ha	BC Ratio
15	16	17	18	19	20
TO1: farmers practice Drip lines between two rows	-	9.85	(t/ha)	2,28,692	2.38
TO2: Micro-sprinklers	ITK	10.64	(t/ha)	2,48,439	2.40
TO3: Sub-surface irrigation	UAS(B)	11.09	(t/ha)	2,66,031	2.50

Crop/enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Cocoon Yield (kg/100dfles)	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
Sericulture	Irrigated	More Defective cocoon, needs more time and labour	Assessment of different mountages for quality cocoon production	03	TO1: Bamboo chandrike	Cocooning percentage, Defective cocoon (%), Cocoon Yield (Kg/100 dfles), B : C ratio	81.64	95.83	5.72	Farmers expressed that usage of swayandrike and plastic moutage doesn't require separate space for mounting, it avoids falling of urine & staining cocoons and easy handling compare to bamboo chandrike, they also felt that time and labour saving.	-	-
					TO2: Plastic mountages		84.57	92.85	5.40			
					TO3: Swayandrike		85.60	94.44	4.11			

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	5.72	81.64	(kg/100 dfles)	17825	2.14
TO2: Plastic mountages	CSR & TI Mysore	5.40	84.57	(kg/100 dfles)	21217	2.55
TO3: Swayandrike	KSSR & DI, Bangalore	4.11	85.60	(kg/100 dfles)	22370	2.60

Crop/enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Women Labour	Time (Hr)	Man Days (Hr)	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12	13
Home science	Rainfed	Drudgery	Evaluation of transplanter for increasing efficiency and reducing drudgery of farm women in tomato	02	TO1: Farmers practice Manual transplanting	Women Labour , Time(Hr), Man Days (Hr), Area (1 Acre)	8	8	64	Farmers expressed that the usage of equipments for transplanting is laborious though labour requirement is less. When the soil is wet at the time of transplanting, requires more time compared to conventional method because the seedlings do not fall freely from the equipment and remains within the transplanter. However, when the transplneters are used under dry conditions, it works better. But farmers normally take up transplanting under wet conditions only. overall they felt that conventional transplanting method is good compared to transplanter.	-	-
					TO2: Use of transplanter for tomato and capsicum(ITK)		2	12	24			
					TO3: Use of transplanter in tomato and capsicum (ANGRAU,Telangana)		2	16	32			

Continued...

Technology Assessed	Source of Technology	Women Labour	Time (Hr)	Man Days (Hr)	Cost	Net Return (Profit) in Rs. / ha	BC Ratio
14	15	15.1	15.2	16	17	18	19
TO1: Farmers practice Manual transplanting	-	8	8	64	1760	--	---
TO2: Use of transplanter for tomato and capsicum(ITK)	ITK	2	12	24	900	--	--
TO3: Use of transplanter in tomato and capsicum (ANGRAU,Telangana)	(ANGRAU, Telangana)	2	16	32	1200	--	--

Crop/enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Source of Technology	Parameters of assessment	Labour requirement/Acre	Labour requirement in Mandays (ha)	Cost of labour (Rs/ha)	Savings in labour (Rs./ha)	Time required for weeding operation/ha	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	10.1	10.2	10.3	10.4	10.5	11	12	13
Home science	Rainfed	Drudgery	Evaluation of hand operated weeders for farm women in groundnut	03	TO1: Farmers practice Hand weeding	Farmer's Practice	Labour requirement/Acre, Labour requirement in Mandays (ha), Cost of labour (Rs/ha), Savings in labour (Rs./ha), Time required for weeding operation/ha	08	20	4400	-	160 hours	Farmers realized that the usage of Hand operated twin wheel weeder is good compared to Tyre Wheel hoe weeder It requires less time & cost for weeding compared to conventional weeding method & also reduces farmers Drudgery	-	-
					TO2: Herbicides Alachlor 1ltr	UAS, (B)		03 (2 M+1W)	03	2220	2180	24 hours		-	-
					TO3: Hand operated twin wheel hoe weeder	-		02	04	880	3520	32 hours		-	-
					TO4: Tyre Wheel hoe weeder	-		02	05	1100	3300	40hours		-	-

Continued...

Technology Assessed	Source of Technology	Labour requirement/Acre	Labour requirement in Mandays (ha)	Cost of labour (Rs/ha)	Savings in labour (Rs./ha)	Time required for weeding operation/ha	Total cost Rs/ha	Net Return (Profit) in Rs./ha	BC Ratio
13	14	15.1	15.2	15.3	15.4	15.5	16	17	18
TO1: Farmers practice:Hand weeding	ITK	08	20	4400	-	160 hours	4400	--	--
TO2: Herbicides :Alachlor 1ltr	UASB	03 (2 M+1W)	03	820	3580	24 hours	820	--	--
AP1 :Hand operated twin wheel hoe weeder	UAS, R	02	04	880	3520	32 hours	80	-	-
AP2 :Tyre Wheel hoe weeder	UAS, R	02	05	1100	3300	40 hours	1100	--	--

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 Evaluation of various pest management practices in cabbage
2. Problem Definition Severe incidence of DBM & indiscriminate use of pesticides
3. Details of technologies selected for assessment:

Category	Source of Technology	Technology details
Farmers practice	---	Indiscriminate use of pesticides
Recommended practice	IIHR (B)	Integrated pest management
Alternative practice	RD, Reliance Polymers	Polypropylene non-woven crop cover

4. Source of technology :UAS (B)
5. Production system and thematic area : Rainfed and pest management practices in cabbage
6. Performance of the Technology with performance indicator:

Field No.	Farmers Practice (TO1)				Recommended practice (TO2)				Alternate practice (TO3)			
	DBM/plant	No. of sprays	Days to harvest	Yield	DBM/plant	No. of sprays	Days to harvest	Yield	DBM/plant	No. of sprays	Days to harvest	Yield
1	6.0	14	90	69.18	3.80	06	89	71.59	0.40	01	82	75.14
2	4.6	14	86	71.00	2.20	06	87	72.00	0.60	01	82	74.75
3	8.0	14	85	64.00	4.20	06	85	66.50	0.80	01	79	70.00
Avg.	6.20	14	87	68.06	3.40	06	87	70.03	0.60	01	81	73.29

7. Feedback, matrix scoring of various technology parameter through farmer participation/other scoring techniques :Farmers realized that the yields of cabbage under Polypropylene cover is high with very low pesticide application and the only problem is providing hoops (Supporting structure) to polypropylene cover is difficult and labour intensive.
8. Final recommendation for micro level situation: : --
9. Constraints identified and feedback for research : --
10. Process of farmers participation and their reaction: : Participatory approach,
 - Group discussion,
 - Method demonstration & Field visits

1. Title of the technology assessed : Assessment of irrigation system for better WUE in mulberry
2. Problem Definition : Decline in ground water resource and in situ water losses in mulberry garden
3. Details of technologies selected for assessment:

Category	Source of Technology	Technology details
Farmers practice Drip lines between two rows	-	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 : Irrigated condition and Integrated crop management
6. Performance of the Technology with performance indicator:

Field No.	Farmer's Practice (TO1)					Recommended practice (TO2)					Alternative practice (TO3)				
	Leaf Yield (t/ha /crop)	Total quantity of irrigation water applied / crop (60 days) in l	Quantity of water saved per crop	Water applied/pl	Leaf moisture %	Leaf Yield (t/ha/ crop)	Total quantity of irrigation water applied / crop (60 days) in l	Quantity of water saved per crop	Water applied/pl	Leaf moisture %	Leaf Yield (t/ha /crop)	Total quantity of irrigation water applied / crop (60 days) in l	Quantity of water saved per crop	Water applied/pl	Leaf moisture %
1	9.85	11,11,080	-	6.0	75.04	10.64	10,55,520	55560	5.2	76.83	11.09	9,99,980	1,11,100	5.4	76.99
Avg.	9.85	11,11,080	-	6.0	75.04	10.64	10,55,520	55560	5.2	76.83	11.09	9,99,980	1,11,100	5.4	76.99

7 Feedback, matrix scoring of various technology parameter done through farmer participation/other scoring techniques

: Farmer expressed difficulty in laying laterals at subsurface by digging the soil and problem in intercultivation since it has to be carried out in single direction instead of two sides. Overall they felt that water saving and freshness of mulberry is good in subsurface and sprinkler irrigation compare to drip lines in between two rows.

8 Final recommendation for micro level situation:

: Sub surface & sprinkler irrigation in Mulberry found better

9 Constraints identified and feedback for research

: Farmer expressed difficulty in laying laterals at subsurface by digging the soil and problem in intercultivation -

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 mountages for quality cocoon production

2. Problem Definition

: More 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 mountages
TO3	KSSR & DI (B)	Swayandrike

4 Source of technology

: CSR&TI Mysore, KSSR & DI, Bangalore

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 mountage			(TO3) Swayandrike		
	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)	Cocooning percentage (%)	Defective cocoon (%)
1	79.51	96.0	5.41	84.36	91.42	4.68	85.36	93.33	4.46
2	84.48	94.5	5.07	85.52	92.85	5.53	86.84	95.83	3.47
3	90.95	97.0	6.70	83.85	94.28	6.0	84.60	94.16	4.42
Avg	81.64	95.83	5.72	85.54	92.85	5.40	85.60	94.44	4.11

- 7 Feedback, matrix scoring of various technology parameter done through farmer participation/other scoring techniques : Farmers expressed that usage of swayandrike and plastic mountage doesn't require separate space for mounting, it avoids falling of urine & staining cocoons and easy handling compare to bamboo chandrike, they also felt that time and labour saving.
- 8 Final recommendation for micro level situation: : ---
- 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 : Evaluation of transplanter for increasing efficiency and reducing drudgery of farm women in tomato
- 2 Problem Definition : Drudgery

3. Details of technologies selected for assessment:

Category	Source of Technology	Technology details
Farmers practice	--	Manual transplanting
Recommended practice	ITK	Use of transplanter for tomato and (Kamal kisan)
Alternative practice	(ANGRAU, Telangana)	Use of transplanter in tomato (ANGRAU, Telangana)

4. Source of technology : ITK, (ANGRAU, Telangana)
5. Production system and thematic area : Irrigated, Farm Implement & mechanization
6. Performance of the Technology with performance indicator:

Field No.	(TO1) (Manual transplanting)				(TO2) Kamal Kisan Transplanter				(TO3) ANGRAU Transplanter			
	Women Labour	Time (Hr)	Man Days (Hr)	cost	Women Labour	Time (Hr)	Man Days (Hr)	cost	Women Labour	Time (Hr)	Man Days (Hr)	cost
1	9	6.5	58.5	1980	2	11	22	825	2	16	32	1200
2	7	10	70	1540	2	13	26	975	2	18	36	1350
3	8	8	64	1760	2	12	24	900	2	14	28	1050
Avg	8	8	64	1760	2	12	24	900	2	16	32	1200

- 7 Feedback, matrix scoring of various technology parameter done through farmer participation/other scoring techniques : Farmers expressed that the usage of equipments for transplanting is laborious though labour requirement is less. When the soil is wet at the time of transplanting, requires more time compared to conventional method because the seedlings do not fall freely from the equipment and remains within the transplanter. However, when the transplnaters are used under dry conditions, it works better. But farmers normally take up transplanting under wet conditions only. overall they felt that conventional transplanting method is good compared to transplanter.
- 8 Final recommendation for micro level situation: : ---
- 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 Improving Efficiency & Reduction in Drudgery of Farm Women in groundnut Weeding Activity by hand operated Twin Wheel & wheel Hoe weeder
- 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 (Imazatypyr)
Alternative practice1	UAS (R)	Hand operated twin wheel weeder
Alternative practice 2	UAS (R)	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:

Field No.	TO1 Manual weeding			TO2 Recommended practice (Imazatypyr spray @ 20-25 DAS)			TO3 Hand operated twin wheel hoe weeder			TO4 Tyre Wheel hoe weeder		
	Labour requirement /Acre	Labour requirement in Mandays (ha)	Cost of labour (ha)	Labour requirement/ Acre	Labour requirement in Mandays (ha)	Cost of labour (ha)	Labour requirement /Acre	Labour requirement in Mandays (ha)	Cost of labour (Rs/ha)	Labour requirement/ Acre	Labour requirement in Mandays (ha)	Cost of labour (Rs/ha)
1	07	21	4620	03 (2M+1W)	03	820+1400	02	03	660	02	04	880
2	09	19	4180	03	03	820+1400	02	05	1100	02	06	1320
Avg	08	20	4400	03	03	2220	02	04	880	02	05	1100

- 7 Feedback, matrix scoring of various technology parameter done through farmer participation/other scoring techniques : Farmers realized that the using of Hand operated twin wheel weeder is more efficient compared to Tyre Wheel hoe weeder It requires less time and cost for weeding compared to conventional weeding method and also reduces farmers Drudgery . Overall they felt that Hand operated twin wheel weeder is good compared to conventional weeding method.
- 8 Final recommendation for micro level situation: : ---
- 9 Constraints identified and feedback for research : ---
- 10 Process of farmers participation and their reaction: : Participatory approach
 Group discussion& Field visits

PART V - FRONTLINE DEMONSTRATIONS

5.A. Summary of FLDs implemented during 2016-17

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/ST	Others	Total	
1	Pulses	Rainfed	Kharif 2016	Redgram	BRG-1	-	Integrated crop management	Integrated crop management in Red gram var. BRG-1 (NFSM)	20	24	10	50	60	-
2	Oil seeds	Rainfed	Kharif 2016	Groundnut	K-6	-	Integrated nutrient management	Efficacy of bio fertilizers and micronutrients usage in groundnut	8	8	7	13	10	-
3	cereals	Rainfed	Kharif 2016	Ragi	KMR-204	-	Variety introduction	Introduction of new variety KMR-204, blast and defoliator management in Ragi	8	8	-	20	20	-
4	Fruit	Rainfed	Rabi 2016	Mango	Alphonso	-	Integrated crop management	Integrated Pest & crop Management in Mango	2	2	-	5	5	-
5	Fruit	Rainfed	Kharif 2016	Guava	Allahabad safed	-	Integrated nutrient management	Integrated nutrient management in guava	1.2	1.2	-	3	3	-
6	Vegetables	Irrigated	Khairf 2016	Tomato	-	Indus 1030	Integrated nutrient management	Nutrient management in tomato through fertigation management	1	1	2	3	5	-
7	Vegetables	Irrigated	Rabi 2016	Potato	Kufri Jyothi	-	Integrated disease management	Management of excess growth of haulm and late blight and other pest in Potato	2	2	2	8	10	-
8	Vegetables	Irrigated	Rabi 2016	Cauliflower	NS-60	-	Integrated nutrient management	Integrated nutrient management in cauliflower	1	1	0	5	5	-
9	Sericulture	Rainfed	Rabi 2016	Mulberry	V-1	--	Integrated crop management	Demonstration on tree mulberry for rainfed sericulture	3.20	3.20	2	6	8	-

10	Sericulture	Irrigated	Rabi 2016	Mulberry	V1 PMXCSR2	-	Integrated nutrient management	Integrated nutrient management in mulberry & Use of Silkworm growth enhancer for higher cocoon yield	4	4	0	10	10	-
11	Sericulture	Irrigated	Rabi 2016	Silkworm	-	FC2XFC1	-	Introduction of bivoltine hybrid KRISHNARAJA for quality cocoon production	5 nos	5 nos	0	5	5	-
12	Home science	-	Rabi 2016	Malnutrition	-	-	-	Demonstration of nutritional garden for improving the nutritional status of adolescent girls	1 unit	1 unit	21	29	1	-
13	Home science	-	Rabi 2016	Jack fruit	--	--	Small scale income generating Enterprise	Linking SHGs to branding and market for minimal processing of jackfruit	2 nos	2 nos	0	2	2	--

5.A. 1. Soil fertility status of FLDs plots during 2016-17: 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										
(Pulses) Redgram	Integrated crop management in Red gram var. BRG-1 (NFSM)	BRG-1	-	Rainfed	60	24	7.18	1.43	3.91	3.52	11.07	14035.00	15625.00	1590.00	1.10	13723.33	14091.67	368.33	1.01
(Oilseeds) Groundnut	Efficacy of bio fertilizers and micronutrients usage in groundnut	k-6	--	Rainfed	20	8	6.25	1.88	3.46	2.96	15.33	19727.50	15581.25	-4146.25	0.78	19227.50	13314.38	-5913.13	0.69
(Cereals) Ragi	Introduction of new variety KMR-204, blast and defoliator management in Ragi	KMR-204	--	Rainfed	20	8	3.8	0.5	1.714	1.54	10.86	12123.00	7495.50	-4627.50	0.62	11741.25	6168.54	-5572.71	0.54
(Fruits) Mango	Integrated crop management in mango	Alphonso	--	Rainfed	5	2	Demonstration is still going on												
(Fruits) Guava	Integrated nutrient management in guava	Allahabad safed	--	Rainfed	3	1.2	28.06	22.10	25.08	21.84	14.83	223822	501600	277778	2.24	205840	436800	230960	2.12
(Vegetables) Tomato	Nutrient management in tomato through fertigation	--	Indus 1030	Irrigated	5	1	62.5	55	59.22	52.28	13.27	477057.00	1539720.00	1062663.00	3.22	466954.00	1359280.00	892326.00	2.90

(Vegetables) Potato	Integrated disease management	Kufri Jyothi	--	Irrigated	10	4	29.7	24.88	26.67	21.47	24.21	162627.00	349175.40	186548.00	2.14	158782.00	281107.70	122325.75	1.77	
(Vegetables) Cauliflower	Integrated nutrient management in cauliflower	NS-60	--	irrigated	5	1	27.75	24	25.55	22.90	11.57	158500	383250	224750	2.41	153200	320600	167400	2.09	
Sericulture (Tree Mulberry)	Demonstration on tree mulberry for rainfed sericulture	V1	--	Rainfed	8	3.2	Demonstration is still going on													
Sericulture (Tree Mulberry)	Integrated nutrient management in mulberry & Use of Silkworm growth enhancer for higher cocoon yield	V-1 PMXCSR2	--	Irrigated	10	4	13.34	10.91	11.54	9.92	16.33	33,550	92,807	59,257	2.76	32,500	81,887	49,377	2.52	
Sericulture (Silkworm)	Introduction of bivoltine hybrid KRISHNARAJA for quality cocoon production	--	FC2 X FC1	Irrigated	5	500 dfls	92.70	80.09	87.24	80.11	8.90	12950	36488	23538	2.81	12500	30153	17613	2.40	

* 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*:

1. Demonstration of nutritional garden for improving the nutritional status of adolescent girls

Nutritional status of the subjects (before and after intervention)

Sl. No.	Indices	Check (n=25)		Demo (n=25)		% increase over check
		Before	After	Before	After	
1	Height	141.07	141.07	141.07	141.07	-
2	Weight(kg)	40.40	41.50	40.47	42.40	12.8
3	BMI (Body mass index)	20	21	20	22	13.3

Indices	Check (n=25)	Demo (n=25)	% increase over check
Waist to hip ratio (WHR) Normal <0.8	11 (7.3%)	14(9.3%)	10.0
Heamoglobin (Normal 12mg/dl)	8	12	13.3

2. Linking SHGs to branding and market for minimal processing of jackfruit

Group 1

Materials	Quantity	Cost(Rs)
Jackfruit	125Kg(12/kg)	1500/-
Sugar	50Kg(43/kg)	2100/-
LPG Gas	14.5kg	960/-
Other ingredients	-	2250/-
Packaging Materials (Labels and Banner)	-	2000/-
Total Cost		8810/-

Sl. No.	Item	Quantity	Units sold	Price	Returns
1	Jack Fruit Jam	100 gm	150	30	4500
2	Jack Chips	100 gm	150	20	3000
3	Jack Fruit Halwa	50 gm	250	10	2500
4	Jack Fruit Juice	150 ml	442	10	4420
5	Jack Manchurian	5 Pieces	150	10	1500
Total					15920

Linking SHGs to branding and market for minimal processing of jackfruit

Group 2

Materials	Quantity	Cost(Rs)
Jackfruit	85Kg(12/kg)	1020/-
Sugar	30Kg(43/kg)	1290/-
LPG Gas	5kg	320/-
Other ingredients	-	1800/-
Packaging Materials (Labels and Banner)	-	1000/-
Total Cost		5430/-

Sl No.	Item	Quantity	Units sold	Price	Returns
1	Jack Fruit Jam	100 gm	166	20	3320
2	Jack Chips	100 gm	65	20	1300
3	Jack Fruit Halwa	50 gm	192	10	1920
4	Jack seed chatni powder	50 gm	45	10	450
5	Aonla Murabba	2 Pieces	50	10	500
Total					7490

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
Redgram (BRG-1)		
Pods/Plant (No.)	246.92	227.60
Leaf weber (No. Per plant)	1.20	2.20
% Sterility mosaic disease	4.55	12.02
Wilt (%)	0.80	10.40
Groundnut(KCG-6/K-6)		
Plant height(cm)	35.42	31.83
No. of Pods/plant	24.43	16.86
Pod weight (g/pl)	29.28	20.01
Ragi(KMR-204)		
Plant height (cm)	72.00	51.75
No. of fingers/plant	6.55	4.43
No. of tillers/plant	3.90	3.27
Mango(Alphonso/Totapuri)		
Hoppers incidence /Inflor.	8.20	11.60
Powdery mildew (% PDI)	7.80	12.30
Fruit fly catches/week	56	78
Guava(Allahabadsafed)		
Bronzing incidence (%)	5.34	31
% recovery	82.18	0
Tomato(Indus 1030)		
TSS of fruits(Brix)	5.38	4.32
Firmness of fruits (lbs)	5.25	4.84
Fruit keeping quality (Days)	18.40	13.80
Fertigation cost	94384	124446
Potato(Kurfi Jyothi)		
Fresh weight of plants(gm)	185.45	200.87
No. of tubers / plant	10.30	7.30
Late blight % PDI	7.06	13.83
Mites/leaf	0.60	3.20
Cauliflower(NS-60)		
Brown rot (%)	2.10	8.60
Whiptail incidence (%)	5.00	13.00
Mulberry(V1)		
Leaf yield/tree or plant (kg)	1.480	0.529
Leaf yield (kg / acre /crop)	636.27	2562.12
Leaf moisture content (%)	73.45	72.25
No. of dfls reared/crop/yr	50	150
Mulberry(V-1,FC2xFC1, PMXCSR2)		
Leaf yield/plant(kg)	0.95	0.84
Cocoon Yield (Kg/100 dfls)	84.41	79.58
No. of cocoons/ kg	466	558
Single cocoon weight (g)	2.152	1.809
Single Shell weight (g)	0.507	0.443
Shell percentage(%)	23.56	22.06
Silkworm(FC2XFC1)		
Disease incidence (%)	3.94	4.32
Effective rate of rearing (%)	95.90	95.67
Cocoon Yield (Kg/100 dfls)	87.24	80.11

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

Type of livestock	Name of the technology demonstrated	Breed	No. of Demo	No. of Units	Yield (q/ha)			% Increase	*Economics of demonstration Rs./unit				*Economics of check (Rs./unit)				
					Demo				Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR	
					H	L	A										
Dairy	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

** BCR= GROSS RETURN/GROSS COST

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

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

5.B.3. Fisheries :NA

Type of Breed	Name of the technology demonstrated	Breed	No. of Demo	Units/ Area (m ²)	Yield (q/ha)			% Increase	*Economics of demonstration (Rs./unit) or (Rs./m ²)				*Economics of check (Rs./unit) or (Rs./m ²)			
					Demo				Check if any	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return
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				Check if any	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return
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 underFLD

Sl.No.	Activity	No. of activities organized	Number of participants	Remarks
1	Field days	06	153	--
2	Farmers Training	14	438	--
3	Media coverage	02	-	--
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										
-	Nutrient management in tomato through fertigation	Indus 1030	5	1	62.5	55	59.22	52.28	13.27	477057.00	1539720.00	1062663.00	3.22	466954.00	1359280.00	892326.00	2.90
-	Integrated nutrient management in cauliflower	NS-60	5	1	27.75	24	25.55	22.90	11.57	158500	383250	224750	2.41	153200	320600	167400	2.09
-	Introduction of silkworm bivoltine hybrid Krishnaraja	FC2XFC1	5	-	92.70	80.09	87.24	80.11	8.90	12950.00	36488.00	23538.00	2.81	12500	30153.00	17613.00	2.40

H-Highest L-Lowest, A-Average

Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	-	-	-	-	-	-	-	-	-	-
Value addition	2	45	380	425	5	6	11	50	386	436
Agril. Engineering	-	-	-	-	-	-	-	-	-	-
Plant Protection	1	50	5	55	10	0	10	60	5	65
Fisheries	-	-	-	-	-	-	-	-	-	-
Production of Inputs at site	-	-	-	-	-	-	-	-	-	-
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-
CapacityBuilding and Group Dynamics	1	50	10	60	5	2	7	55	12	67
Agro-forestry	-	-	-	-	-	-	-	-	-	-
Others Progressive Farmers to farmers	5	170	125	295	50	42	92	220	217	437
TOTAL	32	892	1276	2168	194	165	349	1076	1491	2567

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 sericulture	4	128	0	128	24	0	24	152	0	152
TOTAL	4	128	0	128	24	0	24	152	0	152

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, bivoltine silkworm rearing & value addition	5	265	21	286	35	4	39	300	25	325
TOTAL	5	265	21	286	35	4	39	300	25	325

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
Importance of Balanced diet in Human Nutrition	2	0	90	90	0	10	10	0	100	100
TOTAL	2	0	90	90	0	10	10	0	100	100

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
Importance of Balanced diet in Human Nutrition	6	0	152	152	0	18	18	0	170	170
TOTAL	6	0	152	152	0	18	18	0	170	170

7.G. Paid training programmes conducted (On campus):

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	Minimal processing, packaging, labelling & branding of Jack Fruit	1	-	12	0	0	3	15	0	15	15
Total		1	-	12	0	0	3	15	0	15	15

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	Entrepreneurship development	03	0	57	57	0	12	12	0	69	69
Total		03	0	57	57	0	12	12	0	69	69

PART VIII – EXTENSION ACTIVITIES

Extension Programmes (including extension activities undertaken in FLD programmes) 2016-17

Nature of Extension Programme	No. of Programmes	No. of Participants (General)			No. of Participants SC / ST			No. of extension personnel		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	07	151	44	195	30	08	38	7	0	7
KisanMela	-	-	-	-	-	-	-	-	-	-
KisanGhonthi	-	-	-	--	-	-	-	-	-	-
Kisan divas	01	250	10	260	50	5	55	300	20	320
Exhibition(Particiapated/ Orgzanised)	13	2595	800	3392	395	195	590	880	200	1080
Film Show	09	399	135	534	71	20	91	-	-	-
Method Demonstrations	16	502	51	552	51	8	59	10	2	12
Farmers Seminar	05	455	130	585	25	20	45	0	0	0
Group meetings	10	172	16	188	35	2	37	0	0	0
Lectures delivered as resource persons	62	2248	884	3132	238	140	378	25	5	30
Newspaper coverage	21	-	-	-	-	-	-	-	-	-
Radio talks	02	-	-	-	-	-	-	-	-	-
TV talks	-	-	--	-	-	-	-	-	-	-
Popular articles	15	-	-	-	-	-	-	-	-	-
Extension Literature	13	839	318	1157	125	72	197	-	-	-
Advisory Services/ Helpline services (Over phone)	333	283	9	292	30	11	41	20	9	29
Farmers visit to KVK	773	674	11	685	84	0	84	-	-	-
Field visit	208	191	0	191	17	0	17	-	-	-
Diagnostic visits	15	15	0	15	0	0	0	-	-	-
Exposure visits	03	63	0	63	12	0	12	-	-	-
Animal Health Camp	03	142	25	167	30	8	38	10	5	15
Self Help Group Campaigns	05	75	15	90	20	5	25	20	3	23
Celebration of important days(world food day, world soil health day & farmers day)	03	534	133	667	75	17	92	30	5	35
Technological week	01	4	110	114	0	10	10	12	5	18
Any other (NCIPM survey)	07	25	0	25	5	0	5	30	0	30
Any other (FFS)	01	10	0	10	5	0	5	20	0	20
Awareness programme (Pre-Kharif, National Nutrition Week & PPVFRA)	04	4073	1932	6005	455	185	640	20	10	30
Bimonthly workshops	03	173	45	218	3	2	5	176	47	223
Tri monthly workshop	03	130	160	290	20	5	25	150	165	315
KMAS	72	671043								
Total	1608	14003	4828	18827	1776	713	2489	1710	476	2187

Mera Gaon-Mera Gaurav Activities carried out up to 31st March, 2016

Activities and Sub-activities	Total	Year 2016-17						
		May	June	July	August	September	October	February
No. of villages covered (Setymadamngala, Mullahalli, Balagere)	04	04	04	02	02	03	03	03
No. of FLDs implemented	02	1. Integrated crop management in Red gram var. BRG-1 2. Integrated nutrient management in mulberry & Use of Silkworm growth enhancer for higher cocoon yield						
No. of Farmers	70							
No. of OFT implemented	01	1. Assessment of irrigation system for better WUE in mulberry						
No. of Farmers	01							
No. of Visits made	19	02	01	02	04	04	04	02
No. of Demonstrations	04	02	00	00	01	00	01	00
No. of Farmers meeting	13	02	01	01	01	03	02	03
SC/ST Farmers	188	34	05	21	22	31	37	38
Others Farmers	579	87	15	59	74	127	115	102
Total Farmers	767	121	20	80	96	158	152	140

Integrated Farming System (IFS) Demonstration

Farmer Name: Narayanappa T S/o Thammappa,

Parshvaganahalli, Kolar Tq & District

Age: 55 years

Existing Components

Sl. No	Existing Components	Area/ No	Income/ Year
1	Mulberry Garden (Tree Method)	2.5 acre	3,50,000
2	Ragi Cultivation	1 acre	10,000
3	Farm Pond	1	0
4	Red sandal (Border Crop)	180 plants	0
5	Cow	01	0
Total			3,60,000

Interventions made through IFS

Sl.No	Introduced Components	No	Income/ Year
1	Bee cages (Apiary)	04	6,000/-
2	Curry leaf Saplings	60	-
3	Jamun saplings	20	-
4	Melia dubia (Hebbevu)	20	-
5	Vermi Compost Bag	01	2,500
6	Silage Bag	01	1,200
Total			9,700/-

Integrated Farming System (IFS) Demonstration

Farmer Name: M. Babu S/o Munivenkatappa

Kallakere, Kasaba Hobli, Bangarapet Tq, Kolar District

Age: 37 years

Existing Components

Sl.No	Existing Components	Area/ No	Income/ Year
1	Mulberry Garden (Tree Method)	1.5 acre	2,50,000
2	Ragi Cultivation	1 acre	10,000
3	Fodder Crops	0.10 acre	-
4	Farm Pond	1	-
5	Flower/ Vegetable Crops	0.2 acre	25,000
6	Cow	2	50,000
Total			335000

Interventions made through IFS

Sl.No	Introduced Components	No	Income/ Year
1	Bee cages (Apiary)	04	2500/-
2	Curryleaf Saplings	60	-
3	Jamun saplings	20	-
4	Melia dubia (Hebbevu)	20	-
5	Vermi Compost Bag	01	3000
6	Silage Bag	01	800
Total			6300

Farmer Field School

Crop: Marigold

Technology : Integrated Crop Production

Village: Akkammanadinne

Farmer: Sri.Venkateshappa

No. of sessions: 5

- Nutrient management through organic and in organic fertilizers
- Weed and water management
- Pest management
- Differentiation between disease and insect damage
- Identification of natural enemies

Particulars	Demo	Check
Yield (t/ha)	42.5	36.75
% increase	15.64	--
Cost of cult.	112000	134000
Gross returns	850000	735000
Net returns	738000	601000

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	-	9.55	19100	40

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	2303 (2249 kg sold)	337350	195

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 2016	Quarterly	200	200

(B) Literature developed/published

Item	Title	Authors name	Number
Research papers			
News letters	KVK e- Newsletter (4)	All KVK staff	200
Popular articles (15)	Role of sunhemp in mulberry garden soil health management	Dr. Shashidhar K.R, Umesha Naik, K.Thulasiram	-
	Health beneficiaries or medicinal properties of drumstick	Dr. K.S.Nagaraj, K.Thulasiram, Umesha Naik, Shashidhar K.R	-
	Nutrient value of Banana	Dr. K.S.Nagaraj, K.Thulasiram, Dr. Shashidhar K.R, Umesha Naik	-
	Neem coated urea	Dr. K.S.Nagaraj, Santhosha H.M, , K.Thulasiram	-
	Arka Mango special	Dr. K.S.Nagaraj, K.Thulasiram, Dr. Shashidhar K.R, Umesha Naik	-
	Management of Root knot nematode in Mulberry	Shashidhar K.R, K.Thulasiram	-
	Tamarind- An Indian Date	Dr. K.S.Nagaraj, Dr. Shashidhar K.R, Umesha Naik	-
	Effect of climate change on agriculture growth	Umesha Naik , Dr. Shashidhar K.R, Dr. K.S.Nagaraj, K.Thulasiram, Santhosha H.M.	-
	Integrated management of uzifly in Silkworm rearing	Shashidhar K.R, K.Thulasiram	-
	Importance of soil & climate in production of Horticultural crops	Dr. K.S.Nagaraj, Dr. V. Nache gowda, K.Thulasiram	-
	Tissue culture	Sagar B.S, Sahitya B.R, Vinutha S.N, Dr. Nagaraj K.S	-
	Role of biofertilizers in mulberry cultivation	Shashidhar K.R, Umesha Naik, Dr. Nagaraj K.S, K.Thulasiram	-
	Fruit fly management in Mango	Dr. K.S.Nagaraj, K.Thulasiram, Santhosha H.M, Umesha Naik	-
	Nematode management in banana	Dr. K.S.Nagaraj, K.Thulasiram, Shashidhar K.R Santhosha H.M, Umesha Naik	-
	Farm pond utilization in mulberry cultivation	Dr. Shashidhar K.R, Dr. K.S.Nagaraj, K.Thulasiram	-
Extension Literature (Folders) 07	Godambi beleya Adhunika Besaya Paddati	Dr. K.S.Nagaraj, Shashidhar K.R, Umesha Naik	-
	Role if integrated nutrient on soil fertility management	Dr.Raghunatha Raeddy R.L., Dr. Shashidhar K.R, Dr. Basavaraju T.B., K.Thulasiram	-
	Huli, Javalu, savalu mattu sharamannugalanirvahane	Dr.Raghunatha Raeddy R.L, Dr. Aravind kumar J.S, Dr. Santhosha H.M, K.Thulasiram	-
	Improved production technologies in mulberry under dryland condition	Dr. Shashidhar K.R, Dr.Raghunatha Raeddy R.L, K.Thulasiram, Dr. Santhosha H.M, Umesha Naik	-
	Integrated Uzifly management in silkworm rearing	Dr. Shashidhar K.R, Dr. K.S.Nagaraj, , K.Thulasiram	-
	Manushyana arogyadha mele Florises na dushparinamagalu mattu adhara nivarane	Dr. Chikkanna G.S, , K.Thulasiram, Umesha Naik	-
	Dalimbe yalli roga mattu keetagala nirvahnae	Dr. Noorulla Haveri, K.Thulasiram, Dr. K.S.Nagaraj, Dr. Santhosha H.M	-

10.B. Details of Electronic Media Produced:

S. No.	Type of media (CD / VCD / DVD/ Audio-Cassette)	Title of the programme	Number
1	DVD	1. Pradhan Mantri Fasal Beema yojane 2. World soil day & Pre Rabi campaign	2

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 utilized

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 of samples analyzed during the 2016-17: (COH Lab)

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)
Soil Samples	580	580	338	1,16,000
Water Samples	321	321	303	64200
Plant samples	-	-	-	-
Manure samples	-	-	-	-
Others (specify)	-	-	-	-
Total	901	901	641	1,80,200

10.I. Technology Week celebration during 201-17 : Yes, 21.12.2016 to 25.12.2016

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.)
Enhancing farmers income and welfare	Entire project will be implemented by KVK	May 2017	Karnataka Agricultural Price Commission, Bengaluru	25,00,000

12.C. Details of linkage with ATMA

a) Is ATMA implemented in your district : Yes

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

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 2016-17

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	-	-	-	-

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	2	15965	-
May	3	25542	-
June	5	42588	-
July	11	85209	-
August	8	71725	-
September	9	83752	-
October	2	20616	-
November	7	66860	-
December	7	66387	-
January	9	96984	-
February	1	10598	-
March	8	84817	-
Total for the year 2016-17	72	671043	-

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	0.50	Bhagya	Seeds	9.55	-	19100	-
2	Drumstick	2014	0.21	--	Pods	28	-	840	-

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	
Leafy vegetables	June 2016	August,2016	0.10 ac/4.0 (guntas)	-	-	-	-	-	-
1. coriander				Solar	Leafy vegetable	73.20 (366 Bundles)		1865=00	
2. Palak				Local		6.0(30 Bundles)		300=00	
3.Amaranthus				Local		4.8(24 Bundles)		240=00	
4.Dill				Local		23.0 (115 Bundles)		1150=00	
5.French bean	August 2016	October, 2016	0.75 ac/30.0 (guntas)	Arka Arjyn	Pods	6.0		30=00	

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	2249	150/kg	337350	-

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
KVK (Regular Account)	State Bank of India	Kolar	6029	Senior scientist & Head,KVK, Kolar	34004434216	563002101	SBIN0006029
KVK (Revolving fund Account)	State Bank of India	Kolar	6029	Senior scientist & Head,,(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	7322000	7322000	7113387
2	Traveling allowances	80000	80000	67389
3	Contingencies			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	180000	180000	144492
B	POL, repair of vehicles, tractor and equipments	225000	225000	224621
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	70000	70000	51741
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	50000	50000	49635
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	200000	200000	177178
	a.FLD (NFSM)			
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	30000	30000	26280
G	Training of extension functionaries	15000	15000	5810
H	Integrated farming system			
I	Maintenance of buildings			
J	Establishment of Soil, Plant & Water Testing Laboratory	50000	50000	49522
k	Library	10000	10000	6275
L	Extension activities	75000	75000	63922
M	Farmers field school	20000	20000	4977
N	Display Boards	10000	10000	9618
0	IFS	30000	30000	29598
TOTAL (A)		8367000	8367000	8024445
B. Non-Recurring Contingencies				
1	Works	800000	800000	763465
2	Equipments including SWTL & Furniture	500000	500000	498064
3	Vehicle (Four wheeler/Two wheeler, please specify)			
4	Library (Purchase of assets like books & journals)			
TOTAL (B)		1300000	1300000	1261529
C. REVOLVING FUND				
GRAND TOTAL (A+B+C)		9667000	9667000	9285974

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	3,29,919	145320	3,07,389
April 2016 to March 2017	3,07,389	5,39,004	124079	7,39,472

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. R.L.Raghunatha Reddy	Scientist(Soil Science)	Workshop on Fourth Faculty Development Programme - 2016	UHS Bagalkot	26/9/2016 to 28/9/2016
Dr.Shashidhar K.R.	Scientist(Sericulture)	Workshop on Fourth Faculty Development Programme - 2016	UHS Bagalkot	26/9/2016 to 28/9/2016
Dr. Nagaraj.K.S.	Scientist(Horticulture)	Workshop on Fourth Faculty Development Programme - 2016	UHS Bagalkot	26/9/2016 to 28/9/2016
Dr. Nagaraj.K.S.	Scientist(Horticulture)	Strategic Research & Extension Planning	EEI and SAMETI	8/8/2016 to 11/8/2016
Dr.Shashidhar K.R.	Scientist(Sericulture)	Rural Entrepreneurship development for farmers empowerment	ICAR - New Delhi & ICAR - KVK Vijayapura	2/1/2017 to 11/1/2017
Dr.Shashidhar K.R.	Scientist(Sericulture)	Participatory impact assessment & monitoring (PIMA)	ICAR - KVK, Erode	21/2/2017 to 25/2/2017

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

SUMMARY FOR 2016-17

I. TECHNOLOGY ASSESSMENT

Summary of 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	Cabbage	Evaluation of various pest management practices in cabbage	03	03	0.6
Integrated Crop Management	-	-	-	-	-
Integrated Disease Management					
Small Scale Income Generation Enterprises	-	-	-	-	-
Value addition		-	-	-	-
Drudgery Reduction	Home science	1.Improving Efficiency & Reduction in Drudgery of Farm Women in groundnut Weeding Activity by hand operated Twin Wheel & wheel Hoe weeder	03	03	0.4
		2.Evaluation of transplanter in horticulture crops for increasing work efficiency and reducing Drudgery	02	02	0.4
Storage Technique	-	-	-	-	-
Mushroom cultivation	-	-	-	-	-
Others	Mulberry	1.Assessment of irrigation system for better WUE in mulberry	01	01	0.4
		2.Assessment of different mountages for quality cocoon production	03	03	100 dfls
Total		05	12	12	1.8

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
Malnutrition	Home Science	Nutritional security of adolescent girls through nutrition garden	50
EDP	Home Science	Linking SHGs to branding and market for minimal processing of Jack fruit	01

II. TECHNOLOGY REFINEMENT

Summary of technologies refined under various crops: NIL

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

Summary of technologies assessed under refinement of various livestock :NIL

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

Summary of technologies refined under various enterprises :NIL

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

Summary of technologies refined under home science : NIL

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

III. FRONTLINE DEMONSTRATION

Crop	Name of the technology demonstrated	Variety	Hybrid	Farming situation	No. of Demo.	Area (ha)	Yield (q/ha)				% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
							Demo			Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
							H	L	A										
(Pulses) Redgram	Integrated crop management in Red gram var. BRG-1 (NFSM)	BRG-1	-	Rainfed	60	24	7.18	1.43	3.91	3.52	11.07	14035.00	15625.00	1590.00	1.10	13723.33	14091.67	368.33	1.01
(Oilseeds) Groundnut	Introduction of new variety KCG-6/K6, bio fertilizers and micronutrients usage in groundnut (NFSM)	KCG-6/k-6	--	Rainfed	20	8	6.25	1.88	3.46	2.96	15.33	19727.50	15581.25	-4146.25	0.78	19227.50	13314.38	-5913.13	0.69
(Cereals) Ragi	Introduction of new variety KMR-204, blast and defoliator management in Ragi	KMR-204	--	Rainfed	20	8	3.8	0.5	1.714	1.54	10.86	12123.00	7495.50	-4627.50	0.62	11741.25	6168.54	-5572.71	0.54
(Fruits) Mango	Integrated crop management in mango	Alphonso /Totapuri	--	Rainfed	5	2	Demonstration is still going on												
(Fruits) Guava	Integrated nutrient management in guava	Allahabad safed	--	Rainfed	3	1.2	28.06	22.10	25.08	21.84	14.83	223822	501600	277778	2.24	205840	436800	230960	2.12
(Vegetables) Tomato	Nutrient management in tomato through fertigation	--	Indus 1030	Irrigated	5	1	62.5	55	59.22	52.28	13.27	477057.00	1539720.00	1062663.00	3.22	466954.00	1359280.00	892326.00	2.90

(Vegetables) Potato	Integrated disease management	Kufri Jyothi	--	Irrigated	10	4	29.7	24.88	26.67	21.47	24.21	162627.00	349175.40	186548.00	2.14	158782.00	281107.70	122325.75	1.77	
(Vegetables) Cauliflower	Integrated nutrient management in cauliflower	NS-60	--	irrigated	5	1	27.75	24	25.55	22.90	11.57	158500	383250	224750	2.41	153200	320600	167400	2.09	
Sericulture (Tree Mulberry)	Demonstration on tree mulberry for rainfed sericulture	V1	--	Rainfed	8	3.2	Demonstration is still going on													
Sericulture (Tree Mulberry)	Integrated nutrient management in mulberry & Use of Silkworm growth enhancer for higher cocoon yield	V-1 PMXCSR2	--	Irrigated	10	4	13.34	10.91	11.54	9.92	16.33	33,550	92,807	59,257	2.76	32,500	81,887	49,377	2.52	
Sericulture (Silkworm)	Introduction of bivoltine hybrid KRISHNARAJA for quality cocoon production	--	FC2 X FC1	Irrigated	5	-	92.70	80.09	87.24	80.11	8.90	12950	36488	23538	2.81	12500	30153	17613	2.40	

* 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*

Nutritional status of the subjects (before and after intervention)

Sl. No.	Indices	Check (n=25)		Demo (n=25)		% increase over check
		Before	After	Before	After	
1	Height	141.07	141.07	141.07	141.07	-
2	Weight(kg)	40.40	41.50	40.47	42.40	12.8
3	BMI (Body mass index)	20	21	20	22	13.3

Indices	Check (n=25)	Demo (n=25)	% increase over check
Waist to hip ratio (WHR) Normal <0.8	11 (7.3%)	14(9.3%)	10.0
Heamoglobin (Normal 12mg/dl)	8	12	13.3

Linking SHGs to branding and market for minimal processing of jackfruit

Materials	Quantity	Cost(Rs)
Jackfruit	125Kg(12/kg)	1500/-
Sugar	50Kg(43/kg)	2100/-
LPG Gas	14.5kg	960/-
Other provisions	-	2250/-
Packaging Materials (Labels and Banner)	-	2000/-
Total Cost		8810/-

Sl No.	Item	Quantity	Units sold	Price	Returns
1	Jack Fruit Jam	100 gm	150	30	4500
2	Jack Chips	100 gm	150	20	3000
3	Jack Fruit Halwa	50 gm	250	10	2500
4	Jack Fruit Juice	150 ml	442	10	4420
5	Jack Manchurian	5 Pieces	150	10	1500
Total					15920

Linking SHGs to branding and market for minimal processing of jackfruit

Group 2

Materials	Quantity	Cost(Rs)
Jackfruit	85Kg(12/kg)	1020/-
Sugar	30Kg(43/kg)	1290/-
LPG Gas	5kg	320/-
Other ingredients	-	1800/-
Packaging Materials (Labels and Banner)	-	1000/-
Total Cost		5430/-

Sl No.	Item	Quantity	Units sold	Price	Returns
1	Jack Fruit Jam	100 gm	166	20	3320
2	Jack Chips	100 gm	65	20	1300
3	Jack Fruit Halwa	50 gm	192	10	1920
4	Jack seed chatni powder	50 gm	45	10	450
5	Aonla Murabba	2 Pieces	50	10	500
Total					7490

Livestock : NIL

Category	Thematic area	Name of the technology demonstrated	No. of KV Ks	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
						Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Dairy	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total			-	-	-	-												

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

** BCR= GROSS RETURN/GROSS COST

Fisheries : NIL

Category	Thematic area	Name of the technology demonstrated	No. of KV Ks	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
						Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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 : NIL

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	** BCR	Gross Cost	Gross Return	Net Return	** BCR	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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

Farm implements and machinery

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

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

** BCR= GROSS RETURN/GROSS COST

Other enterprises: Nil

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										
-	Nutrient management in tomato through fertigation	Indus 1030	5	1	62.5	55	59.22	52.28	13.27	477057.00	1539720.00	1062663.00	3.22	466954.00	1359280.00	892326.00	2.90
-	Integrated nutrient management in cauliflower	NS-60	5	1	27.75	24	25.55	22.90	11.57	158500	383250	224750	2.41	153200	320600	167400	2.09
-	Integrated pest management	FC2XFC1	5	-	92.70	80.09	87.24	80.11	8.90	12950	36488	23538	2.81	12500	30153	17613	2.40

Household food security by kitchen gardening and nutrition gardening	-	-	-	-	-	-	-	-	-	-
Value addition	2	45	380	425	5	6	11	50	386	436
Agril. Engineering	-	-	-	-	-	-	-	-	-	-
Plant Protection	1	50	5	55	10	0	10	60	5	65
Fisheries	-	-	-	-	-	-	-	-	-	-
Production of Inputs at site	-	-	-	-	-	-	-	-	-	-
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-
CapacityBuilding and Group Dynamics	1	50	10	60	5	2	7	55	12	67
Agro-forestry	-	-	-	-	-	-	-	-	-	-
Others Progressive Farmers to farmers	5	170	125	295	50	42	92	220	217	437
TOTAL	32	892	1276	2168	194	165	349	1076	1491	2567

IV.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 sericulture	4	128	0	128	24	0	24	152	0	152
TOTAL	4	128	0	128	24	0	24	152	0	152

V.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 , bivoltine silkworm rearing & value addition	5	265	21	286	35	4	39	300	25	325
TOTAL	5	265	21	286	35	4	39	300	25	325

VI.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
Importance of Balanced diet in Human Nutrition	2	0	90	90	0	10	10	0	100	100
Total	2	0	90	90	0	10	10	0	100	100

VII.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
Importance of Balanced diet in Human Nutrition	6	0	152	152	0	18	18	0	170	170
Total	6	0	152	152	0	18	18	0	170	170

VIII.G. Paid 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	Minimal processing, packaging, labeling & branding of Jack Fruit	1	-	12	0	0	3	15	0	15	15
Total		1	-	12	0	0	3	15	0	15	15

Details of sponsoring agencies involved:

IX.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	Entrepreneurship development	03	0	57	57	0	12	12	0	69	69
Total		03	0	57	57	0	12	12	0	69	69

VIII – EXTENSION ACTIVITIES

Extension Programmes (including extension activities undertaken in FLD programmes)

Nature of Extension Programme	No. of Programmes	No. of Participants (General)			No. of Participants SC / ST			No. of extension personnel		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	07	151	44	195	30	08	38	7	0	7
KisanMela	-	-	-	-	-	-	-	-	-	-
KisanGhosthi	-	-	-	-	-	-	-	-	-	-
Kisan divas	01	250	10	260	50	5	55	300	20	320
Exhibition(Participated/ Organised)	13	2595	800	3392	395	195	590	880	200	1080
Film Show	09	399	135	534	71	20	91	-	-	-
Method Demonstrations	16	502	51	552	51	8	59	10	2	12
Farmers Seminar	05	455	130	585	25	20	45	0	0	0
Group meetings	10	172	16	188	35	2	37	0	0	0
Lectures delivered as resource persons	62	2248	884	3132	238	140	378	25	5	30
Newspaper coverage	21	-	-	-	-	-	-	-	-	-
Radio talks	02	-	-	-	-	-	-	-	-	-
TV talks	-	-	-	-	-	-	-	-	-	-
Popular articles	15	-	-	-	-	-	-	-	-	-
Extension Literature	13	839	318	1157	125	72	197	-	-	-
Advisory Services/ Helpline services (Over phone)	333	283	9	292	30	11	41	20	9	29
Farmers visit to KVK	773	674	11	685	84	0	84	-	-	-
Field visit	208	191	0	191	17	0	17	-	-	-
Diagnostic visits	15	15	0	15	0	0	0	-	-	-
Exposure visits	03	63	0	63	12	0	12	-	-	-
Animal Health Camp	03	142	25	167	30	8	38	10	5	15
Self Help Group Campaigns	05	75	15	90	20	5	25	20	3	23
Celebration of important days(world food day, world soil health day & farmers day)	03	534	133	667	75	17	92	30	5	35
Technological week	01	4	110	114	0	10	10	12	5	18
Any other (NCIPM)	07	25	0	25	5	0	5	30	0	30
Any other (FFS)	01	10	0	10	5	0	5	20	0	20
Awareness programme (Pre-Kharif, National Nutrition Week & PPVFRA)	04	4073	1932	6005	455	185	640	20	10	30
Bimonthly workshops	03	173	45	218	3	2	5	176	47	223
Tri monthly workshop	03	130	160	290	20	5	25	150	165	315
KMAS	72	671043								
Total	1608	14003	4828	18827	1776	713	2489	1710	476	2187

NERA GAON-MERA GAURAV Activities carried out up to 31st March, 2016

Activities and Sub-activities	Total	Year 2016-17						
		May	June	July	August	September	October	February
No. of villages covered (Setymadamngala, Mullahalli, Balagere)	04	04	04	02	02	03	03	03
No. of FLDs implemented	02	3. Integrated crop management in Red gram var. BRG-1 4. Integrated nutrient management in mulberry & Use of Silkworm growth enhancer for higher cocoon yield						
No. of Farmers	70							
No. of OFT implemented	01	2. Assessment of irrigation system for better WUE in mulberry						
No. of Farmers	01							
No. of Visits made	19	02	01	02	04	04	04	02
No. of Demonstrations	04	02	00	00	01	00	01	00
No. of Farmers meeting	13	02	01	01	01	03	02	03
SC/ST Farmers	188	34	05	21	22	31	37	38
Others Farmers	579	87	15	59	74	127	115	102
Total Farmers	767	121	20	80	96	158	152	140

Integrated Farming System (IFS) Demonstration
Farmer Name: Narayanappa T S/o Thammappa,
Parshvaganahalli, Kolar Tq & District
Age: 55 years

Existing Components

Sl. No	Existing Components	Area/ No	Income/ Year
1	Mulberry Garden (Tree Method)	2.5 acre	3,50,000
2	Ragi Cultivation	1 acre	10,000
3	Farm Pond	1	0
4	Red sandal (Border Crop)	180 plants	0
5	Cow	01	0
Total			3,60,000

Interventions made through IFS

Sl.No	Introduced Components	No	Income/ Year
1	Bee cages (Apiary)	04	6,000/-
2	Curry leaf Saplings	60	-
3	Jamun saplings	20	-
4	Melia dubia (Hebbevu)	20	-
5	Vermi Compost Bag	01	2,500
6	Silage Bag	01	1,200
Total			9,700/-

Integrated Farming System (IFS) Demonstration
Farmer Name: M. Babu S/o Munivenkatappa
Kallakere, Kasaba Hobli, Bangarapet Tq, Kolar District
Age: 37 years

Existing Components

Sl.No	Existing Components	Area/ No	Income/ Year
1	Mulberry Garden (Tree Method)	1.5 acre	2,50,000
2	Ragi Cultivation	1 acre	10,000
3	Fodder Crops	0.10 acre	-
4	Farm Pond	1	-
5	Flower/ Vegetable Crops	0.2 acre	25,000
6	Cow	2	50,000
Total			335000

Interventions made through IFS

Sl.No	Introduced Components	No	Income/ Year
1	Bee cages (Apiary)	04	2500/-
2	Curryleaf Saplings	60	-
3	Jamun saplings	20	-
4	Melia dubia (Hebbevu)	20	-
5	Vermi Compost Bag	01	3000
6	Sailage Bag	01	800
		Total	6300

Farmer Field School

Crop: Marigold

Technology : Integrated Crop Production

Village: Akkammanadinne

Farmer: Sri.Venkateshappa

No. of sessions: 5

- Nutrient management through organic and in organic fertilizers
- Weed and water management
- Pest management
- Differentiation between disease and insect damage
- Identification of natural enemies

Particulars	Demo	Check
Yield (t/ha)	42.5	36.75
% increase	15.64	
Cost of cult.	112000	134000
Gross returns	850000	735000
Net returns	738000	601000

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production	-	-	-	-	-	-	-	-	-	-
Integrated Crop Management	-	-	-	-	-	-	-	-	-	-
a) Vegetable Crops	-	-	-	-	-	-	-	-	-	-
Protective cultivation	-	-	-	-	-	-	-	-	-	-
b) Fruits	-	-	-	-	-	-	-	-	-	-
c) Ornamental Plants	-	-	-	-	-	-	-	-	-	-
d) Plantation crops	-	-	-	-	-	-	-	-	-	-
e) Tuber crops	-	-	-	-	-	-	-	-	-	-
f) Spices	-	-	-	-	-	-	-	-	-	-
g) Medicinal and Aromatic Plants	-	-	-	-	-	-	-	-	-	-
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-
Soil & water Health and Fertility Management	1	20	0	20	5	0	5	25	0	25
Livestock Production and Management	-	-	-	-	-	-	-	-	-	-
Home Science/Women empowerment	7	4	276	280	0	47	47	4	323	327
Agril. Engineering	-	-	-	-	-	-	-	-	-	-
Plant Protection	-	-	-	-	-	-	-	-	-	-
Fisheries	-	-	-	-	-	-	-	-	-	-
CapacityBuilding and Group Dynamics	-	-	-	-	-	-	-	-	-	-
Agro-forestry	-	-	-	-	-	-	-	-	-	-
Sericulture	4	92	0	92	18	0	18	110	0	110
TOTAL	12	116	276	392	23	47	70	139	323	462

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	6	200	461	661	27	70	97	227	531	758
Horticulture										
a) Vegetable Crops	6	84	80	164	9	11	20	93	31	124
Production of low value and high volume crop	-	-	-	-	-	-	-	-	-	-
Protective cultivation	-	-	-	-	-	-	-	-	-	-
b) Fruits	2	38	50	88	7	5	12	45	55	100
c) Ornamental Plants	-	-	-	-	-	-	-	-	-	-
d) Plantation crops	-	-	-	-	-	-	-	-	-	-
e) Tuber crops	-	-	-	-	-	-	-	-	-	-
f) Spices	-	-	-	-	-	-	-	-	-	-
g) Medicinal and Aromatic Plants	-	-	-	-	-	-	-	-	-	-
Soil Health and Fertility Management	1	50	5	55	5	0	5	55	5	60
Livestock Production and Management	-	-	-	-	-	-	-	-	-	-
Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	-	-	-	-	-	-	-	-	-	-
Value addition	2	45	380	425	5	6	11	50	386	436
Agril. Engineering	-	-	-	-	-	-	-	-	-	-
Plant Protection										
Fisheries	-	-	-	-	-	-	-	-	-	-
Production of Inputs at site	-	-	-	-	-	-	-	-	-	-
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-
CapacityBuilding and Group Dynamics	-	-	-	-	-	-	-	-	-	-
Agro-forestry	-	-	-	-	-	-	-	-	-	-
Others Progressive Farmers to farmers	5	170	125	295	50	42	92	220	217	437
TOTAL	22	587	1101	1688	103	134	237	690	1225	1915

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 sericulture	4	128	0	128	24	0	24	152	0	152
TOTAL	4	128	0	128	24	0	24	152	0	152

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 ,biovoltine silkworm rearing & value addition	6	265	21	286	35	4	39	300	25	325
TOTAL	6	265	21	286	35	4	39	300	25	325

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
Importance of Balanced diet in Human Nutrition	2	0	90	90	0	10	10	0	100	100
Total	2	0	90	90	0	10	10	0	100	100

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
Importance of Balanced diet in Human Nutrition	6	0	152	152	0	18	18	0	170	170
Total	6	0	152	152	0	18	18	0	170	170

7.G. Paid training programmes conducted: (On Campus)

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	Minimal processing, packaging, labelling & branding of Jack Fruit	1	-	12	0	0	3	15	0	15	15
Total		1	-	12	0	0	3	15	0	15	15

Details of sponsoring agencies involved:

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	Entrepreneurship development	03	0	57	57	0	12	12	0	69	69
Total		03	0	57	57	0	12	12	0	69	69

V – EXTENSION PROGRAMMES

Activities	No. of Programmes	No. of Farmers	No. of extension personnel	Total
Field Day	07	233	7	240
KisanMela	-	-	-	0
KisanGhoshi	-	-	-	0
Kisan divas	-	-	-	-
Exhibition	13	3982	1080	5062
Film Show	09	625	-	625
Method Demonstrations	16	611	12	623
Farmers Seminar	05	630	0	630
Group meetings	10	225	0	225
Lectures delivered as resource persons	62	3510	30	3540
Newspaper coverage	21	0	-	0
Radio talks	02	0	-	0
TV talks	-	0	-	0
Popular articles	15	0	-	0
Extension Literature	13	1354	-	1354
Advisory Services/Helpline services	333	333	29	362
Farmers visit to KVK	773	769	-	769

Field visit	208	208	-	208
Diagnostic visits	15	15	-	15
Exposure visits	03	75		75
Ex-trainees Sammelan	-	0	-	0
Soil health Camp	-	0	-	0
Animal Health Camp	03	205	15	220
Agri mobile clinic	-	0	-	0
Soil test campaigns	-	0	-	0
Farm Science Club Conveners meet	-	0	-	0
Self Help Group Campaigns	05	115	23	138
Mahila Mandals Conveners meetings	-	0	-	0
Celebration of important days (World food day, world soil health day, Kisan diwas)	03	759	35	794
Technological week	01	124	18	142
Any other (PRA/Survey)		0		0
Any other (AV aids developed) charts	01	0		0
Awareness Programme (Pre-Kharif, National nutrition week and PPV&FRA)	04	2117	30	2147
Bimonthly workshops	03	-	223	223
Trimonthly workshops	03	-	315	315
KMAS	72	-	-	-
Total	1600	15890	1817	17707

Details of other extension programmes

Sl.No	Particulars	Number
1	Electronic Media	01
2	Extension Literature (Folders)	07
3	News Letter	04
4	Newspaper coverage	21
5	Technical Articles	-
6	Technical Bulletins	-
7	Technical Reports	-
8	Radio Talks	02
9	TV Talks	-
10	Animal health camps	03
11	Others (popular articles)	15
12	Publications(Research)	-
	Total	53

VI. PRODUCTION OF SEED/PLANTING MATERIAL

Production of seeds by the KVKs

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	0.50	Bhagya	Seeds	9.55	-	19100	-
2	Drumstick	2014	0.21	--	Pods	28	-	840	-

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	
Leafy vegetables	June 2016	August,2016	0.10 ac/4.0 (guntas)	-	-	-	-	-	-
1. coriander				Solar	Leafy vegetable	73.20 (366 Bundles)	-	1865=00	-
2. Palak				Local		6.0(30 Bundles)	-	300=00	-
3. Amaranthus				Local		4.8(24 Bundles)	-	240=00	-
4. Dill				Local		23.0 (115 Bundles)	-	1150=00	-
5. French bean	August 2016	October, 2016	0.75 ac/30.0 (guntas)	Arka Arjyn	Pods	6.0	-	30=00	-

Production of Bio-Products

Bio Products	Name of the bio-product	Quantity	Value (Rs.)	No. of Farmers
		Kg		
Others (Mango special)	Mango special	2249	337350	195

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 2016-17 :

Samples	No. of Samples	No. of Farmers	No. of Villages	Amount realized (Rs.)
Soil	580	580	338	1,16,000
Water	321	321	303	64,200
Plant	-	-	-	-
Manure	-	-	-	-
Others (pl. specify)	-	-	-	-
Total	901	901	641	1,80,200

VIII. SCIENTIFIC ADVISORY COMMITTEE-2016-2017

Number of SACs conducted: Nil

IX. NEWSLETTER

Number of issues of newsletter published: 04

X. RESEARCH PAPER PUBLISHED

Number of research paper published: NIL

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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