

ANNUAL REPORT 2010-11

(FOR THE PERIOD APRIL 2010 TO MARCH 2011)

KRISHI VIGYAN KENDRA –HIREHALLI (TUMKUR)

PART I - GENERAL INFORMATION ABOUT THE KVK

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

KVK Address	Telephone		E mail	Web Address
	Office	FAX		
KRISHI VIGYAN KENDRA, HIREHALLI, TUMKUR-572 168	0816- 2243792	0816-2243214	iihrkvk@gmail.com	www.iihr.ernet.in

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

Address	Telephone		E mail	Web Address
	Office	FAX		
INDIAN INSTITUTE OF HORTICULTURAL RESEARCH Hessaraghatta Lake Post, Bangalore- 560089	080- 28466420	080- 28466291	director@iihr.ernet.in	www.iihr.ernet.in

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. L.B. NAIK	080-25449212	9449816584	lbnaik@iihr.ernet.in

1.4. Year of sanction: 28th, March 2009

1.5. Staff Position (as 31st March 2010)

Sl. No.	Sanctioned Post	Name of the Incumbent	Designation	M/F	Discipline	Highest Qualification (for PC, SMS and Prog. Asstt.)	Pay Scale	Basic Pay	Date of Joining KVK	Permanent /Temporary	Category (SC/ST/OBC/ Others)
1	Programme Co-ordinator	Dr. L.B.Naik	Principal Scientist & Programme Coordinator	M	Agronomy	Ph.D. Agronomy					
2	Subject Matter Specialist	Sri K.N. Jagadish,	SMS (Agril Extension)	M	Agril.Extension	M.Sc. Agriculture	15600 - 39100+5400	21630	17.11.2009	Permanent	OBC
3	Subject Matter Specialist	Sri P.R.Ramesh,	SMS(Soil Science)	M	Soil Science	M.Sc. Agriculture	15600 - 39100+5400	21630	17.11.2009	Permanent	OBC
4	Subject Matter Specialist	Sri Prashanth J.M	SMS(Horticulture)	M	Horticulture	M.Sc. Agri Horticulture	15600 - 39100+5400	21630	24.11.2009	Permanent	Others
5	Subject Matter Specialist	Sri B. Hanumanthe Gowda	SMS(Plant Protection)	M	Plant Protection	M.Sc. Agriculture	15600 - 39100+5400	21630	02.12.2009	Permanent	Others
6	Subject Matter Specialist	Ms. Radha R.Banakar	SMS(Home Science)	F	Home Science	M.Sc. Agriculture	15600 - 39100+5400	21630	05.12.2009	Permanent	Others
7	Subject Matter Specialist	Dr. Somashekhar	SMS (Plant Breeding)	M	Plant Breeding	Ph.D. Agriculture	15600 - 39000+5400	21630	07.12.2009	Permanent	Others
8	Programme Assistant (Lab Tech.)/T-4	Sri Shivashenkaramurthy	Programme Assistant (Lab.Tech.)	M	Agronomy	M.Sc. Agriculture	9300 - 34800+4200	11360	30.09.2009	Permanent	SC
9	Programme Assistant (Computer)/ T-4	Ms. Jyoti Appu Naik	Computer Programmer	F	Information Science	B.E.	9300 - 34800+4200	11360	01.10.2009	Permanent	PH
10	Programme Assistant/ Farm Manager/T-4	Sri K.S.Sanna Manjunath	Farm Manager	M	Agronomy	M.Sc. Agriculture	9300 - 34800+4200	11360	08.10.2009	Permanent	OBC
11	Assistant	Sri D. Krishnappa	Accounts	M	Accounts	SSLC	9300 - 34800+4200	15460	14.10.2009	Permanent	Others
12	Jr.Stenographer	Smt.Veda Kurnalli	Stenographer	F	Stenographer	PUC	5200 - 20200+2400	9910	17.02.2010	Permanent	Others
13	Driver	Sri M.H.Ningappa	Driver	M	Driver	SSLC	5200 - 20200+2000	8460	30.12.2009	Permanent	Others
14	Driver	Sri Hemanth Kumar	Driver	M	Driver	PUC	5200 - 20200+2000	8460	04.01.2010	Permanent	OBC
15	Supporting staff	Smt Jaya	Supporting Staff	F	Supporting Staff	-	5200 - 20200+1800	8820	23.07.2009	Permanent	SC
16	Supporting staff	Sri P.Narayanappa	Supporting Staff	M	Supporting Staff	-	5200 - 20200+1800	8820	24.07.2009	Permanent	SC

1.6. Total land with KVK (in ha.) : 16.08 ha.

Sl. No.	Item	Area (ha)
1	Under Buildings	1.6
2.	Under Demonstration Units	3.28
3.	Under Crops	10.70
4.	Orchard/Agro-forestry	0.50
5.	Others	-

1.7. Infrastructural Development:

A) Buildings

Sl. No.	Name of building	Source of funding	Stage		Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
			Complete	Incomplete				
			Completion Date	Plinth area (Sq.m)				
1.	Administrative Building (550 Sq. Mts)	ICAR	-	-	-	-	-	Yet to be constructed
2.	Farmers Hostel (305 Sq. Mts)	ICAR	-	-	-	-	-	Yet to be Constructed
3.	Staff Quarters	-	-	-	-	-	-	-
4.	Rain Water Harvesting System	ICAR	-	-	8.00 Lakhs	March 2010		Ongoing
5	Threshing floor	IIHR	-	-	-	-	-	-
6	Farm Godown	IIHR	-	-	-	-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Bolero Diesel Jeep	2009	5,96,783	43450	Good
Motor Cycle	2010	52,658	4950	
Honda – Aviator	2010	46025	1800	
Power Tiller	2010	1, 42,400	92 hrs	
Tractor	2011	560000	24 hrs	

C) Equipments & AV Aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Fax Machine	2010	21,381	Good
Xerox Machine	2010	67,262	
Camera Nikon – Digital	2010	24,950	
Computer with Accessories	2010	49,900	
White Board with Stand	2010	1,500	
LCD Projector with Accessories	2010	1,00,000	

1.8. A). Details SAC meeting conducted in 2010-11

Sl.No.	Date	Number of Participants	No. of absentees	Salient Recommendations	Action taken
1.	29.3.2010	21	06	<ol style="list-style-type: none"> 1. It is suggested to take up the soil and water testing in Tumkur taluk 2. It is advised to lay out the demonstration in farmers fields on intercropping instead of mono-cropping. 3. It is advised to give technical guidance for producing quality seeds in the farmers field 4. Thrust should be given to water harvesting technology and integrated farming system 5. Activities related to floriculture, poly house production can be taken up with the help of Department of Horticulture. 6. It is suggested to take up the animal related activities with the help of state veterinary Department and SMS (Animal Science), KVK, Konehalli 7. Emphasis should be given for micro irrigation system for increasing water use efficiency 8. Resources of other KVK can be utilized for better implementation of various Programmes 9.Emphasis should be given on aerobic paddy cultivation in area like Pavagada 10. Groundnut diggers can be used efficiently for harvesting groundnut crop 11. Tamarind processing machine should be demonstrated at KVK premises to motivate tamarind processing 12. Establishment of Nutrition kitchen garden in KVK farm 13. It is suggested to demonstrate the success stories of the farmer 	All these suggestions were taken into consideration in formulating the Action Plan and implemented during the year 2010-11

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.	Dry Land Agriculture
2.	Dry Land Horticulture
3.	Dairy

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

Sl. No.	Agro-climatic Zone	Characteristics
1.	Central Dry Zone (Zone IV) Taluku: Koratgere, Madhugiri, Sira, Pavagada	<ul style="list-style-type: none"> • This zone covers an area of 4.74 Lakhs hectare • The Annual rainfall ranges from 454 and 718 mm, of which more than 55% received in Kharif season. • The elevation ranges from 639 and 1197m • Soils are red sandy loams in major areas, shallow to deep black in remaining areas. • The major crops grown are Ragi, Paddy, Redgram, Groundnut, Sunflower, Coconut, Arecanut, Mango, Banana,

		Tomato, Brinjal, Beans, Peas, Aster, Dairy
2.	Eastern Dry Zone (Zone V) Taluk: Tumkur	<ul style="list-style-type: none"> • This zone covers an area of 1.04 Lakh hectares. • The Annual rainfall ranges from 679 and 889 mm, of which more than 50% received in Kharif season. • The elevation is 818 m from sea level. • Soils are red loamy in major areas, shallow to deep black in remaining areas. • The major crops grown are Groundnut, Maize, Paddy, Ragi, Redgram, Tomato, Brinjal, Mango, Sapota, Arecanut, Coconut, Aster, Dairy

Sl. No.	Agro Ecological Situation	Characteristics
1.	Agro eco sub region-1	Hot moist, semiarid ESR with LGP 150-180 days (LGP-length of growing period)

2.3 Soil type/s

Sl. No.	Soil Type	Characteristics	Area in ha
1.	Red Sandy Loam	<ul style="list-style-type: none"> • Colour given by haematites or Yellow limonites • Poor in soil fertility • Low base exchange capacity • Deficient in organic matter • Low water holding capacity • The pH ranges from 5.5.-6.5 • Low cohesion, plasticity & swelling 	6,15,230
2.	Red Loam	<ul style="list-style-type: none"> • Colour given by oxides of iron • Poor in soil fertility • Low- medium base exchange capacity • Deficient in organic matter • Low water holding capacity • The pH ranges from slightly acidic or neutral • Low cohesion , plasticity & swelling 	2,04,093
3.	Shallow Black Soil	<ul style="list-style-type: none"> • Colour varying from dark brown to dark yellowish brown • Soil with more than 35 per cent clay and crack when dry. • High soil fertility • High base exchange capacity • High organic matter content • High water holding capacity • The pH ranges from 7.5 - 8.5 • High cohesion, plasticity & swelling 	2,45,432

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

Sl. No.	Crop	Area (ha)	Production (Metric tons)	Productivity (kg /ha)
1.	Paddy	39753	85396	3009
2.	Ragi	187252	309759	1653
3.	Maize	20065	59702	2985
4.	Jowar	2245	2629	1222
5.	Redgram	15689	11386	872
6.	Groundnut	142906	13417	896
7.	Sunflower	11611	9132	651
8.	Cotton	668	2848	487
9.	Mango	11929	229207	19210
10.	Sapota	738	10283	13930
11.	Arecanut	22058	37220	2000
12.	Coconut	132587	20912	0.16 Lakhs nuts/ha
13.	Banana	4909	140178	28580
14.	Tomato	632	22806	36090
15.	Brinjal	312	10900	34940
16.	French Bean	191	2173	11380
17.	Gourds	494	10275	20800
18.	Dry Chilli	2498	4996	2000
19.	Onion	414	7938	19170
20.	Aster	959	9590	10000
21.	Jasmine	955	4893	5120
22.	Chrysanthemum	705	10575	15000
23.	Mari Gold	110	1100	10000
24.	Crossandra	154	770	5000

* Source: Dept of Agriculture, Tumkur & Tumkur at a Glance 2009-10 and Horticultural Crop Statistics of Karnataka State at a glance: 2008-09

2.5. Weather data

Month	Rainfall (mm)	Temperature ° C		Relative Humidity (%)	
		Maximum	Minimum	7.00 hrs	13.00hrs
Jan 2010	4.2	28.3	12.1	60.0	40.6
Feb 2010	0.5	30.6	11.4	61.3	45.6
Mar 2010	5.4	33.0	17.3	69.0	43.4
Apr 2010	58.0	34.7	20.4	82.0	64.9
May 2010	96.9	30.7	20.3	70.7	54.8
Jun 2010	56.8	29.8	20.1	68.5	54.2
Jul 2010	114.9	29.0	19.3	72.5	56.1
Aug 2010	129.3	29.4	20.0	76.0	60.0
Sep 2010	97.5	28.1	19.7	83.2	66.0
Oct 2010	115.4	29.4	17.6	54.8	46.4
Nov 2010	157.3	27.4	17.8	77.5	60.7
Dec 2010	0.0	26.9	17.7	73.7	53.5

* Dept. of Agriculture, Tumkur

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

Category	Population	Production(milk) 000 tons	Productivity(lt/animals)
Cattle			
<i>Crossbred</i>	62906	54	5.5745
<i>Indigenous</i>	440888	56	2.0671
Buffalo	217528	68	2.5382
Sheep meat 000 tons			
<i>Crossbred</i>	9		--
<i>Indigenous</i>	884643	17.31	--
Goats	322373	16.60	--
Pigs	--	--	--
<i>Crossbred</i>	632	0.23	--
<i>Indigenous</i>	12411		--
Rabbits	465	NA	--
Poultry	egg production in lakhs		
Hens	642382	--	--
<i>Desi</i>		273	--
<i>Improved</i>		71	--
Category	Area	Production	Productivity
<i>Inland(Fishes)</i>	1306 ha	16717 M.Tonnes	650-700 kg/ha

2.7 :District Profile has been prepared and submitted Yes / No: Yes

2.8 : OPERATIONAL AREA DETAILS FOR THE YEAR 2010-11

Sl.No.	Taluk	Name of the Block	Name of the Village	How long the Village is covered under Operational Area of the KVK (specify the years)	Major Crops & Enterprises	Major Problem Identified	Identified Thrust Areas
1.	Tumkur	Haralur	Haralur, Beemasandra, Bairsandra, Gollahalli, Neralpur	One Year Six Months	Groundnut, Maize, Paddy, Ragi, Redgram, Tomato, Brinjal, Mango, Sapota, Arecanut, Coconut, Aster, Dairy	<ol style="list-style-type: none"> 1. Use of local varieties and low yield. 2. No seed treatment 3. Poor soil and nutrient management 4. Tikka disease, root grub, Red and hairy caterpillar in Groundnut. 5. Zinc (Zn), Iron (Fe) deficiency in Maize and Zn in Paddy 6. Pod borer and sterile mosaic disease in red gram. 7. Shoot and fruit Borer in Brinjal 8. Powdery mildew and hoppers in Mango. 9. Lack of skill in nursery technique & management, 10. Lack of knowledge about importance of soil & water testing, 11. Lack of knowledge in pre and post harvest technology management. 12. Lack of knowledge for income generating activities, malnutrition and unhygienic practices. 13. Dropping and splitting of areca nuts 	<ol style="list-style-type: none"> 1. Popularization of HYV / hybrids 2. Seed production techniques in vegetables and field crops 3. Integrated Nutrient Management and Soil test based fertilizer application 4. Integrated Pest & Disease Management 5. Propagation techniques in fruits and vegetables 6. Income generating activities, 7. Value added products 8. Nutrition education and hygiene 9. Post harvest technology in vegetables and fruits

2.	Koratagere	Kymanhalli,	Chikkavalli, Kymanhalli, Bidalot, Kodlahalli	One Year Six Months	Maize, Paddy, Ragi, Redgram, Tomato, Sunflower, Banana, Groundnut, Mango, Sapota, Arecanut, Coconut, Aster, Dairy, Frenchbean, Brinjal & Marigold.	<ol style="list-style-type: none"> 1. Use of local varieties and low yield. 2. No seed treatment 3. Poor soil and nutrient management 4. Tikka disease, root grub, Red and hairy caterpillar in groundnut. 5. Zn, Fe deficiency in Maize and Zinc in Paddy 6. Pod borer, and sterile mosaic disease in red gram. 7. Flower and Fruit dropping, Powdery mildew and hoppers in Mango . 8. Low yield in Banana 9. Dropping and splitting of areca nuts. 10. Lack of skill in nursery technique & management 11.lack of knowledge about importance of soil & water testing, 12.Lack of knowledge regarding pre and post harvest technology management. 13. Lack of knowledge in income generating activities, malnutrition and unhygienic practices. 14.Druidgery 15. Shoot and fruit Borer, Bacterial blight in Brinjal. 	<ol style="list-style-type: none"> 1.Popularization of HYV / hybrids 2.Seed Production Techniques in vegetables and field crops 3. Bud necrosis in sun flower 4. Management of saline soil in Paddy. 5.Integrated Nutrient Management and Soil test based fertilizer application 6.Integrated Pest & disease Management 7.Propagation techniques and post harvest in fruits and vegetables 8.Income generating activities, 9.Value added products 10.Nutrition education and hygiene 11.Druidgery reduction
3.	Madhugiri	Badavanhalli,	Badavanhalli, Siddapur, Siridragallu, Vadderahalli				

4.	Pavagada	Shilapur	Kotgudda, Shilapur, Mugadal Betta, Arkyatanhalli	One Year Six Months	Groundnut, Sunflower, Ragi, Maize, Paddy, Redgram, Tomato, Brinjal & Dairy,	<ol style="list-style-type: none"> 1. Use of local varieties and low yield. 2. Moisture stress 3. No seed treatment 4. Poor soil and nutrient management 5. Tikka disease, collar rot, root grub in Groundnut. 6. Insufficient water for paddy cultivation 7. Pod borer and sterile mosaic disease in red gram. 8. Shoot and fruit Borer Bacterial blight in Brinjal. 9. Lack of knowledge about importance of soil & water testing, 10. Lack of knowledge in pre and post harvest technology management. 11. Lack of knowledge for income generating activities, malnutrition and unhygienic practices. 12. Drudgery 	<ol style="list-style-type: none"> 1. Popularization of HYV / hybrids 2. Soil and water conservation 3. Seed Production Techniques in field crops 3. Management of Bud necrosis in sun flower 4. Aerobic paddy cultivation 4. Integrated Nutrient Management and Soil test based fertilizer application 5. Integrated Pest & disease Management 6. Income generating activities, 8. Value added Products 9. Nutrition education and hygiene 10. Drudgery reduction.
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5.	Sira	Kataveeranahalli	Hendore, Kataveeranahalli, Chikkanahalli, Veerapura and Kamagondanahalli	One Year Six Months	Groundnut, Maize, Paddy, Ragi, Cotton, Redgram, Vegetables Mango, Sapota, Arecanut, Coconut, Aster, Dairy & Brinjal	<ol style="list-style-type: none"> 1. Use of local varieties and low yield. 2.No seed treatment 3.Poor soil and nutrient management 4. Tikka disease, root grub, Red and hairy caterpillar in Groundnut. 5. Zn, Fe deficiency in Maize and Zn in Paddy 6. Pod borer, and sterile mosaic disease in red gram. 7. Powdery mildew and hoppers in Mango. 8. Lack of skill in nursery technique & management, 9.Lack of knowledge about importance of soil & water testing, 10. Lack of knowledge regarding pre and post harvest technology management. 11. Lack of knowledge in income generating activities, malnutrition and unhygienic practices. 12.Dropping and splitting of areca nuts 13. Shoot and fruit Borer in Brinjal. 14. Leaf reddening, flower drop, Black arm, Sucking pest and Bollworms problem in cotton 	<ol style="list-style-type: none"> 1. Popularization of HYV / hybrids 2. Seed Production Techniques in vegetables and field crops 3.Integrated Nutrient Management and Soil test based fertilizer application 4.Integrated Pest & Disease Management 5.Propagation techniques and post harvest in fruits and vegetables 6.Income generating activities, 7.Value added Products 8.Nutrition education and hygiene 9. ICM in Cotton
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2.9 Priority thrust areas

Sl. No.	Thrust area
1.	High Yielding Varieties / Hybrids
2.	Seed Treatment with Bio Fertilizers and Fungicides
3.	Soil Test based Fertilizer Application
4.	Integrated Nutrient Management
5.	Intercropping / Mixed / Multistoried Cropping System
6.	Seed Production Techniques in Vegetables and Field Crops
7.	Integrated Pest & Disease Management
8.	Post Harvest Technology in Vegetables and Fruits
9.	Soil and Water Conservation
10.	Drudgery Reduction
11.	Income Generating Activities
12.	Child and Women Care and balanced Nutrition
13.	Integrated Cropping System
14.	Propagation Techniques in Fruits and Vegetables
15.	Fodder Production and Dairy Farming
16.	Mushroom Cultivation

PART III- TECHNICAL ACHIEVEMENTS

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

OFT				FLD			
1				2			
Number of OFTs		Number of farmers		Number of FLDs		Number of farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
10	10	42	42	16	16	150	150
Training				Extension Programmes			
3				4			
Number of Courses		Number of Participants		Number of Programmes		Number of participants	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
85	57	1500	1478	719	880	35000	31181
Seed Production (Qtl.)				Planting materials (Nos.)			
5				6			
Target		Achievement		Target		Achievement	
12.015		2.5		61000		48000	
Livestock, poultry strains and fingerlings (No.)				Bio-products (Kg)			
7				8			
Target		Achievement		Target		Achievement	

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.)	Supply of seeds (Qtl.)	Supply of planting materials (No.)	Supply of livestock (No.)	Supply of bio products		
													No.	Kg	
1.	Soil and water conservation	Paddy	Salinity		Management of saline soils in paddy	1			6	1.25			2	8	
	Soil and water conservation		Limited water		Aerobic paddy cultivation	3			4	0.07			2	4	
2.	High yielding variety and cropping system	Ragi	Mono cropping		Ragi based double cropping system	1			5	2.1			2	20	
3.	ICM	Maize	1.Zinc deficiency 2.Downy mildew and TLB disease 3.Low yield		Enhancing productivity through ICM				6	0.75					
4.	Integrated Pest & disease Management High Yielding varieties / Hybrids and Drudgery Reduction	Groundnut	Drudgery		Groundnut Decorticator	2			3	-			-	-	
			1. Collar rot	Management of collar rot in groundnut			1			5	-			3	253
			1. Smaller seed size	Assessment of GPBD-5 a bold seeded variety			2			8	0.6			-	-
5.	ICM	Redgram	Low yield due to seed drill sowing	Enhancing the productivity in Red gram production system (Transplanting)		2			5	0.09			-	-	
	PHT		Storage Problem		Safe Storage of Pulses	1	1		3	-			-	-	
6.	ICM	Mango	1.Flower & fruit dropping 2.Fruit fly 3.Powdery mildew		ICM in Mango	3			8	-			-	-	

	Intercropping system		Mono - cropping in Mango	Assessment of Mucuna as a intercrop in Mango					6	0.8			-	-
7.	ICM	Banana	1.Low plant population 2.Low yield & income	Paired row planting system in banana	-	2			7		4800		-	-
	INM		1.Lower bunch size and yield	-	Micronutrient management in Banana		1			6	-	-		-
8.	INM	Arecanut	1.Splitting of nuts and low yield	Management of nut splitting in Arecanut	-	2			5	-	-		-	-
	IDM		Anabe Roga	-	Integrated Management of Anabe Roga		1		1	8	-	-		1
9.	IPM	Coconut	Mite problem	Management of mites					5	-	-		1	1000
10.	IDM	Pomegranate	Bacterial blight	-	Integrated Management of Bacterial blight				6	-	-		-	-
11.	High yielding varieties	Tomato	1. Local varieties 2.Low acidity and TSS	Performance and assessment of tomato varieties	-				5	1.125 kg			-	-
	INM		1.Low nutrient use efficiency	Assessment of microbial consortium for tomato production	-				5	-			1	4
	ICM		1.Local varieties 2. Bacterial blight and leaf curl	-	ICM in tomato	2			10	200 gms			3	512.2
12.	IPM	Brinjal	1. Bacterial wilt 2. Low yield	-	ICM in brinjal	1	1		7	375 gms			2	252

13.	ICM	French Bean	1. Rust Disease 2. Low Yield	-	ICM in French bean	1	1		6	1.3			1	250
14.	High yielding variety	Dolichos	1. Low yield	-	Popularization of Arka Jay high yielding variety.	1			5	0.74			-	-
15.	IPDM	Cabbage	1. Diamond Black Moth (DBM)	-	Integrated Pest Management in Cabbage	1		1	7	0.05			2 1	20 650 ml
16.	High yielding varieties	Aster	1. Smaller Flower Size and diameter 2. Dull colour and low yield	Assessment of HYV Phule Ganesh		3		1	12	0.015			-	-
17.	High yielding varieties	Fodder	1. Non Availability of Green Fodder	-	Enrichment of dry fodder			1	4	14000 root slips				

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.	Assessment of Groundnut varieties	UAS, Dharwad	Groundnut	5		2	
2.	Management of Collar rot disease in Groundnut	UAS, Bangalore and PDBC, Bangalore		3		1	
3.	Ground nut Decorticator	UAS, Bangalore			10	2	
4.	Enhancing the productivity in Red gram production system	UAS, Dharwad	Red gram	5		2	
5.	Safe Storage of Pulses				5	2	
6.	Assessment of Mucuna (Medicinal plant) as intercrop in Mango.	CHES, Hirehalli (IIHR, Bangalore)	Mucuna	4			
7.	Paired row with Zig zag and pit method of Planting in Banana	UAS, Bangalore, NRC on Banana, Thirchi and CARD KVK, Pattanamthitta, Kerala	Banana	3		2	
8.	Management of Nut Splitting in Arecanut	UAS, Bangalore, CPCRI, Kasaragod	Arecanut	5		2	

9.	Integrated Management of eriophid mite in Coconut	UAS, GKVK and TNAU, CBE	Coconut	2		-	
10.	Performance and assessment of tomato varieties	IIHR Bangalore, UAS, Bangalore UAS, Dharwad	Tomato	5		-	
11.	Assessment of microbial consortium for Tomato production	IIHR, Bangalore,		5		-	
12.	ICM in Tomato	IIHR, Bangalore,			10	2	
13.	Performance of Assessment of China Aster Varieties	IIHR, Bangalore MPKV, Rahuri	China Aster	5		4	
14.	Management of Saline Soils	UAS, Bangalore	Paddy		10	1	
15.	Aerobic Paddy Cultivation	UAS, Bangalore			4	3	
16.	Ragi based sequential cropping system	UAS, Bangalore	Ragi		12	1	
17.	ICM in Maize	UAS, Bangalore	Maize		12	-	
18.	ICM in Mango	IIHR, Bangalore	Mango		10	3	
19.	Micro nutrient in Banana	IIHR, Bangalore	Banana		10	1	
20.	IDM in Arecanut	CPCRI, Kasargod	Arecanut		10	2	
21.	Enrichment of dry fodder		Fodder		7	1	
22.	IDM in Pomogranate	IIHR, Bangalore	Pomogranate		10	-	
23.	Popularization of Arka Jay variety	IIHR, Bangalore	Dolichos		10	1	
24.	IPM in Cabbage	IIHR, Bangalore	Cabbage		10	2	
25.	ICM in Brinjal	IIHR, Bangalore	Brinjal		10	2	
26.	Integrated Crop Management in Frenchbean	IIHR, Bangalore	Frenchbean		10	2	

3.B2 contd..

No. of farmers covered															
OFT				FLD				Training				Others (Specify)			
General		SC/ST		General		SC/ST		General		SC/ST		General		SC/ST	
M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
5								58	4						
4		1						28	5						
				8			2	38	8	4	2				
5								89	21	-	-				
					5			21	17	2	3				
5	-	-	-	-	-	-	-	-	-	-	-	--	-	-	-
3	-	-	-	-	-	-	-	44	-	7					
5	-	-	-	-	-	-	-	41	5	-	-	-			
2															
4		1													
3		2													
				8		2		50		3					
5								70			9				

			9	-	1	-	16	6	4	2				
			4				67	3	7	2				
			9		3		21	8		1				
			10		2									
			8		2		68	8	4	1				
			10				22		4					
			10				60	15	10					
			7				20	3	2	1				
			10											
			8		2		21	5	2					
			7		3		45	4	4					
			10				88	17						
			8		2		3	39		3				

PART IV - On Farm Trial

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Integrated Nutrient Management					1			1		2
Varietal Evaluation		1			1		1			3
Integrated Pest Management		1						1		2
Integrated Crop Management			1			2				3
Total		2	1		2	2	1	2		10

4.A2. Abstract on the Number of Technologies Refined in respect of Crops -nIL

4.A3. Abstract on the Number of Technologies Assessed in respect of Livestock Enterprises -Nil

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

4.B. Achievements on technologies Assessed and Refined

4.B.1. Technologies Assessed under various Crops

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha
Integrated Nutrient Management	Arecanut	Management of Nut Splitting in Arecanut	5	5	1
	Tomato	Assessment of microbial consortium for tomato production	5	5	1
Varietal Evaluation	China Aster	Assessment of china aster varieties		5	1
	Groundnut	Assessment of Groundnut varieties	5	5	2
	Tomato	Performance and assessment of tomato varieties	5	5	1
Integrated Pest Management	Coconut	Integrated Management of eriophid mite in Coconut	2	2	3
Integrated Crop Management	Banana	Assessment of paired row and pit method of planting in Banana	3	3	1

	Redgram	Enhancing the productivity in Redgram production system Through transplanting	6	6	3.6
	Mango	Assessment of Mucuna (Medicinal plant) as intercrop in Mango	4	4	1
Integrated Disease Management	Groundnut	Management of Collar Rot disease in Groundnut	3	3	3.6
Total			43	43	12.6

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

4.B.3. Technologies assessed under Livestock and other enterprises :Nil

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

4.C1. Results of Technologies Assessed

Results of On Farm Trial

1. Banana

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter				Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
							To1	To2	To3	To4				
1	2	3	4	5	6	7	8				9	10	11	12
Banana	Irrigated	Less population and low yield	Assessment of paired row and Pit method of planting	03	2.0 x1.2 x1.2mt paired row 3.6 x 1.8 m pit method	No of fingers/bunch, bunch weight kg yield (t/ha)	126.6	127	129.2	125.6	Paired row has given higher yield, More no of fingers compare to others	-	-	-

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice)	-	34.3t/ha	t/ha	103270	1.94
Technology option 2	UAS B	33.5 t/ha	t/ha	99836	1.49
Technology option 3	NRCB, Tiruchirapalli	41.4 t/ha	t/ha	124920	2.50
Technology option 4	NRCB, Tiruchirapalli	36.2 t/ha	t/ha	100390	2.10

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

- Title of Technology Assessed: Assessment of paired row and pit method of planting in banana
- Problem Definition : Low population and yield
- Details of technologies selected for assessment : TO2 : 1.8 x1.8 mt
TO3: 2.0x1.2x1.2 mt
TO4: 3.6 x1.8 mt
- Source of technology : NRCB, Tiruchirapalli
- Production system and thematic area : Irrigated and Plant population
- Performance of the Technology with performance indicators More no of fingers and higher yield (t/ha)
- Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques
- Final recommendation for micro level situation : Paired row with zigzag method
- Constraints identified and feedback for research : -
- Process of farmers participation and their reaction : The assessed treatments performed very well when compared to farmers practice & High yielding ability

2.China Aster

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameter s of assessment	Data on the parameter			Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement	
								No of flowers	Flower Diameter (g)					Yield (t/ha)
1	2	3	4	5	6	7	8			9	10	11	12	
China aster	Irrigated	Local variety & low yield	Assessment of china aster varieties	05	Assessment of Kamini and PG-pink varieties	No of flowers /plant Flower	TO1:FP	28	4.40	2.62	More No of flowers per plant and yield compare to practice farmers	The assessed treatments performed very well when compared to farmers	NO	-
							TO2:	39.2	4.80	3.85				

						weight Yield t /ha	TO3:	45	5.07	4.60		practice High yielding ability and Attractive colour		
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Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice): Local variety	-	2.62	t/ha	49,725	2.70
Technology option 2 : Kamini	IIHR, Bangalore	3.85	t/ha	82,130	3.46
Technology option 3 : PG -pink	MPKV, Rahuri	4.60	t/ha	1,04,630	4.13

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

1. Title of Technology Assessed : Assessment of China aster varieties
2. Problem Definition : Local Variety & low yield
3. Details of technologies selected for assessment :

Technology option 1 (Farmer's practice): Local variety
Technology option 2 : Kamini
Technology option 3 : PG -pink
4. Source of technology : IIHR Bangalore & MPKV, Rahuri
5. Production system and thematic area : Irrigated and HYV
6. Performance of the Technology with performance indicators: No. of flowers per plant, Flower diameter and Yield (t/ha)
7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques
8. Final recommendation for micro level situation: Kamini and PG pink performed well during the winter season
9. Constraints identified and feedback for research : Nil
10. Process of farmers participation and their reaction: The assessed treatments performed very well when compared to farmers practice & High yielding ability and Attractive colour

3.Redgram

Crop/enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter			Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement	
1	2	3	4	5	6	7	8			9	10	11	12	
Redgram	Rainfed	Low yield	Enhancing productivity in Redgram production system through transplanting	06	T1: Direct sowing at 60x15 cm T2: Direct sowing at 90x15 cm T3: Transplanting at 120x30cm T4: Transplanting at 120x45 cm	No of flowers /plant Flower weight Yield t /ha	TO1:FP	84573	146.8	1317	Higher yield is obtained in the recommended practice (TO2) as it has higher plant population. Among transplanting method transplanting at 120x45 cm is good	It is practically impossible to do it. It is difficult for poor farmers to follow it as transplanting cost is involved.	Direct sowing at 90x15 cm and raising some seedlings for gap filling	Cost of transplanting will be reduced and easy for gap filling
							TO2	69474	153.0	1583				
							TO3	27763	162.2	1327				
							TO4	22135	166.8	1489				

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 : Direct sowing at 60x15 cm	-	1317	kg/ha	40,580	3.35
Technology option 2 : Direct sowing at 90x15 cm	UAS Bangalore	1583	Kg/ha	48,670	3.32
Technology option 3 : Transplanting at 120x30cm	UAS Dharwad	1327	Kg/ha	36,330	2.17
Technology option 4 : Transplanting at 120x45 cm	UAS Dharwad	1489	Kg/ha	43,460	2.69

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

1. Title of Technology Assessed : Enhancing productivity in Red gram production system through transplanting
2. Problem Definition : Low yield
3. Details of technologies selected for assessment :

Technology option 1 (Farmer's practice): Direct sowing at 60x15 cm
Technology option 2 : Direct sowing at 90x15 cm
Technology option 3 : Transplanting at 120x30cm
Technology option4: Transplanting at 120x45 cm
4. Source of technology : UAS,Banglore and UAS, Dharwad
5. Production system and thematic area : Rainfed
6. Performance of the Technology with performance indicators: Higher yield is obtained in the recommended practice (TO2) as it has higher plant population.Among transplanting method transplanting at 120x45 cm is good
7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques : It is practically impossible do it. is difficult to poor farmers follow it as transplanting cost is involved.
8. Final recommendation for micro level situation: Nil
9. Constraints identified and feedback for research: Transplanting cost is higher
10. Process of farmers participation and their reaction: it is accepted by the farmers and they are interested in direct sowing along with raising some seedling for gap filling.

4. Mucuna

Crop/enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter			Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
								Bio-Mass	Yield (kg/ha)				
1	2	3	4	5	6	7	8			9	10	11	12
Mucuna	Rainfed	Low yield	Assessment of Mucuna (Medicinal Plant) as intercrop in Mango	4	T1: Mango + Ragi T2: Mango + Cowpea (Pulses) T3: Mango + Mucuna	Seed Production and Bio - Mass	TO1:FP	4 ton	1100 kg	Higher yield is obtained along with Bio-Mass in (TO 3) the compared to TO1	Low cost technology is (TO3) with minimal inputs	Nil	Nil
							TO2	6 ton	280 kg				
							TO3	9 ton	1215				

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 : Mango + Ragi	-	1100 kg	kg/ha	4900	0.98
Technology option 2 : Mango + Cow Pea	UAS Bangalore	280 kg	Kg/ha	2800	1.0
Technology option 3 : Transplanting at 120x30cm	IIHR,Bangalore CHES,Hirehalli	1215 kg	Kg/ha	28250	3.44

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

1. Title of Technology Assessed : Assessment of Mucuna (Medicinal Plant) as intercrop in Mango
2. Problem Definition : Low yield
3. Details of technologies selected for assessment :

Technology option 1 (Farmer's practice): Mango + Ragi
Technology option 2 : Mango + Cow Pea
Technology option 3 : Mango + Mucuna
4. Source of technology : UAS,Bangalore and IIHR, Bangalore (CHES, Hirehalli)
5. Production system and thematic area : Rainfed
6. Performance of the Technology with performance indicators: Higher yield is obtained along with Bio-Mass in (TO 3) the compared to TO1
7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques : Low cost technology is (TO3) with minimal inputs
8. Final recommendation for micro level situation: Nil
9. Constraints identified and feedback for research: Climber spread to Mango trees
10. Process of farmers participation and their reaction: It is accepted by the farmers but they look for buy back system for seeds and suggested by farmers it is good for organic farming.

5. Groundnut

Crop/enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter				Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
							Technology Options	% Disease incidence	% Discolored Seeds	% Yield (Kg/ha)				
Ground Nut	Dry land	Severe incidence of Collar rot	Management of collar rot disease in ground nut	3	Recommended practice: ST with Trichoderma @ 4g/kg. ST with <i>Pseudomonas fluorescens</i> @4g/kg seeds & soil	Percent Diseases incidence. Percent Discolored seeds	Technology Option I	39.04	23.08	568	Less disease incidence and increased yield	1.Effective control of disease and higher yield 2. Pseudomonas culture should be made available	Nil	Nil
						Technology Option II	23.01	14.05	842					
						Technology Option III	12.01	7.50	1083					

					treatment with Pseudomonas @ 2.5kg & Neemcake @ 2.5q with FYM 5 tons/ha.	Per cent Yield									
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Technology Assessed	Source of Technology	Production (Kg/ha)	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice): Nil	Nil	568	Kg/ha	-	
Technology option 2: ST with <i>Trichoderma</i> @ 4g/kg.	UAS, Bangalore	842	Kg/ha	1288.00	
Technology option 3: ST with <i>Pseudomonas fluorescense</i> @4g/kg seeds & soil treatment with <i>Pseudomonas</i> @ 2.5kg & neemcake @ 2.5q with FYM 5 tons/ha.	PDBC, Bangalore	1183	Kg/ha		

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

- Title of Technology Assessed: Management of collar rot disease in groundnut
- Problem Definition : It mainly affects the trunk/stem portion of the plant. Rotting of the plant causes hindering the upward translocation. Since economic portion of the plant inside the soil and remain in the soil at the time of harvest.
- Details of technologies selected for assessment: Technology Option 1 : Farmer's practice: Nil
Technology Option 2 :
Recommended practice: ST with *Trichoderma* @ 4g/kg.
Extent of adoption : 40-50%
Source : UAS, Bangalore
Reason of no/ low adoption : In efficiency of present bio agent alone
Technology Option 3: Assessment: ST with *Pseudomonas fluorescense* @4g/kg seeds & soil treatment with *Pseudomonas* @ 2.5kg & neemcake @ 2.5q with FYM 5 tons/ha.
Justification : In addition to the disease management it protects the crop throughout the cropping period
Source : PDBC, Bangalore
- Source of technology: PDBC, Bangalore
- Production system and thematic area: Rain fed situation and Disease management
- Performance of the Technology with performance indicators: The lowest disease incidence and yield was recorded in Tech.Option-III(12.01% and) compared to Farmers practice(39.04%) and yield was 1083 kg/ha and 568 Kg/ha respectively.
- Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques:
- Final recommendation for micro level situation: ST with *Pseudomonas fluorescense* @4g/kg seeds & soil treatment with *Pseudomonas* @ 2.5kg & neemcake @ 2.5q with FYM 5 tons/ha.

9. Constraints identified and feedback for Research:

10. Process of farmers participation and their reaction: There are several farmers were actively involved in group meetings as well as results demonstration and opinioned that the technology was very useful in controlling the disease.

6. Ground nut

Crop/enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter			Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement	
								No of Pods/plant	Test weight(g)					Yield (kg./ha)
1	2	3	4	5	6	7	8			9	10	11	12	
Ground nut	Rain fed	Old variety , low yield and small size kernals	Evaluation of groundnut varieties	05	Assessment of TMV-2,GPBD-4 and GPBD-5 varieties	No of pods/plant, yield and economics	TO1:FP ,TMV-2	14.1	33.2	2162	GPBD-5 Variety performed better with more test weight compared to other two varieties	GPBD-5 seed has got lesser dormancy, because of which germination is noticed because of delayed harvest	NO	-
							TO2: GPBD-4	16.2	36.1	2361				
							TO3: GPBD-5	16.5	39.6	2418				

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice): TMV-2	-	2162	Kg/ha	18254	2.10
Technology option 2 : GPBD-4	UAS,Dharwad	2361	Kg/ha	19540	2.32
Technology option 3 : GPBD-5	UAS,Dharwad	2418	Kg/ha	20547	2.34

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

- Title of Technology Assessed : Assessment of TMV-2,GPBD-4 and GPBD-5 varieties
- Problem Definition : low yield and lower test weight
- Details of technologies selected for assessment :

Technology option 1 (Farmer's practice): TMV-2
Technology option 2 : GPBD-4
Technology option 3 : GPBD-5
- Source of technology : UAS,Dharwad
- Production system and thematic area : Rainfed and HYV
- Performance of the Technology with performance indicators: No.of pods/Plant, Test weight, Yield in kg/ha
- Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques
- Final recommendation for micro level situation: GPBD-4 and GPBD-5 Performed well with better test weight,
- Constraints identified and feedback for research : Nil
- Process of farmers' participation and their reaction: GPBD-5 Variety performed better with more test weight compared to other two varieties, GPBD-5 seed has got lesser dormancy, because of which germination is noticed because of delayed harvest

7. Tomato

Crop/enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter			Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8			9	10	11	12
Tomato	Rain fed	Low yield	Assessment of tomato varieties for rain fed situation.	05	Assessment of DMT2, Vaibhav, Meghali	No of Fruits/plant, Fruit yield(tons/ha)	TO1:FP local variety	No. of Fruits/Plant	Fruit Yield (tons/ha)	Meghali performed better than other varieties including check		NO	-
								36.2	20.1				
							TO2: DMT-2	56.7	26.74				
							TO3: Vaibhav	41.64	19.65				
						TO4: Arka Meghali	57.16	27.64					

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice): Local variety	-	20.1	Ton/ha	35300	2.412
Technology option 2 : DMT-2	UAS,Dharwad	26.74	Ton/ha	55220	3.200
Technology option 3 : Vaibhav	UAS,Bangalore	19.65	Ton/ha	33950	2.358
Technology option 3 : Arka Meghali	IIHR Bangalore	27.64	Ton/ha	57920	3.316

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

- Title of Technology Assessed : Assessment of DMT-2, Vaibhav and Meghali varieties
- Problem Definition : low yield in Rainfed situation
- Details of technologies selected for assessment :

Technology option 1 (Farmer's practice): Local variety
Technology option 2 : DMT-2
Technology option 3 : Vaibhav
Technology option 3 : A.Meghali
- Source of technology : UAS,Dharwad,UAS Bangalore and IIHR Bangalore
- Production system and thematic area : Rainfed and HYV
- Performance of the Technology with performance indicators: No. of Fruits/Plant, Yield in tons/ha
- Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques
- Final recommendation for micro level situation: DMT-2 and Arka Meghali gave better yield compared to other varieties
- Constraints identified and feedback for research : Nil
- Process of farmers' participation and their reaction:

8. Tomato

Crop/enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter			Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement	
1	2	3	4	5	6	7	8			9	10	11	12	
								TO1-FP	TO2-RP	TO3-AP				
Tomato	Irrigated	Low nutrient use efficiency, poor soil fertility, low yield	Assessment of microbial consortium for Tomato Production	5	Assessment of microbial consortium specific to Tomato	No of Fruits/plant, yield/plant, Fruit yield(tons/ha) Avg. fruit weight	No.of fruits/plant	40.6	43.2	47.4	Use of Microbial Consortium Supply of nutrients and increase the yield of plants	Reduce the usage of chemical fertilizers and pesticides.	NO	-
						Yield/plant (kg)	2.2	2.8	3.1					
						Avg. fruit weight (gms)	28.5	35	38					
						Yield /Ha	42.2	46.56	52.2					

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice):	-	42.2	Ton/ha	90350	3.4
Technology option 2 : RP	IIHR, Bangalore	46.56	Ton/ha	101860	3.69
Technology option 3 : AP	IIHR, Bangalore	52.2	Ton/ha	132760	4.8

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

- Title of Technology Assessed : Assessment of microbial consortium for tomato production
- Problem Definition : Low nutrient use efficiency, poor soil fertility, low yield
- Details of technologies selected for assessment :

Technology option 1 (Farmer's practice): Complex fertilizers -2 bags
Technology option 2 : FYM 25t/ha+ RDF 180:100:60 NPK kg/ha
Technology option 3 : FYM 25t/ha+ RDF 135:75:60 NPK kg/ha + Microbial consortium 5kg/ha

- Source of technology : IIHR Bangalore
- Production system and thematic area : Irrigated and INM
- Performance of the Technology with performance indicators: No. of Fruits/Plant, Yield in tons/ha
- Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques
- Final recommendation for micro level situation: Combined use of microbial consortium to Tomato increases the Nutrient use efficiency and yield of plant resulting it reduces the application of inorganic fertilizers and pesticides
- Constraints identified and feedback for research : Nil
- Process of farmers' participation and their reaction:

9.Coconut

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter				Results of assessment	Feedback from the farmer	Any refineme nt needed	Justi ficati on for refin eme nt
							8	9	10	11				
1	2	3	4	5	6	7	8	9	10	11	12			
Coconut	Dry land	Incidence of mites	Integrated management of Eriophid mite in coconut	2	Technology Option I: *Application of 20-25kg of FYM/palm, *250 gm/palm complex fertilizer. Technology Option II: *50 kg FYM, 500:320:1200g NPK per palm / year, 5 Kg Neem cake / palm, 50 g borax / palm / year, 50g MgS04 / palm / year, Eco neem Plus 1% (10ml/palm, 3 times / year) Technology Option III: *50 kg FYM, 500:320:1200g NPK per palm / year, 5 Kg Neem cake / palm Nutritional tonic (250 ml / palm twice a year at 6 months interval)	Per cent Damage. Per cent Damage grade Yield/ Palm/Year	Technolo gy Options	Per cent Damage	Per cent Damage grade	Yield/ 100Palm /Year	Less mite infestatio n and increased yield	Coco tonic should made available in all pesticides shop	Nil	Nil
						Technolo gy Option I	71.05	4.11	7700					
						Technolo gy Option II	38.06	2.86	12700					
						Technolo gy Option III	34.05	2.11	14200					

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Technology Assessed	Source of Technology	Production (Kg/ha)	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology Option I : *Application of 20-25kg of FYM/palm, *250 gm/palm complex fertilizer.	Nil	7700	nuts/100 palm/year	31900.00	1: 4.83
Technology Option II : *50 kg FYM, 500:320:1200g NPK per palm / year, 5 Kg Neem cake / palm, 50 g borax / palm / year, 50g MgS04 / palm / year, Eco neem Plus 1% (10ml/palm, 3 times / year)	UAS, Bangalore	12700	nuts/100palm/year	64100.00	1: 5.90
Technology Option III: *50 kg FYM, 500:320:1200g NPK per palm / year, 5 Kg Neem cake / palm Nutritional tonic (250 ml / palm twice a year at 6 months interval).	TNAU, CBE	14200	nuts/100palm/year	86100.00	1: 6.47

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

1. Title of Technology Assessed : Integrated management of Eriophid mite in coconut
2. Problem Definition : Severe mite incidence results in quality deterioration of nuts.
3. Details of technologies selected for assessment:
 - Technology Option I : *Application of 20-25kg of FYM/palm, *250 gm/palm complex fertilizer.
 - Technology Option II : *50 kg FYM, 500:320:1200g NPK per palm / year, 5 Kg Neem cake / palm, 50 g borax / palm / year, 50g MgS04 / palm / year, Eco neem Plus 1% (10ml/palm, 3 times / year)
 - Technology Option III: *50 kg FYM, 500:320:1200g NPK per palm / year, 5 Kg Neem cake / palm Nutritional tonic (250 ml / palm twice a year at 6 months interval)
4. Source of technology: TNAU,CBE
5. Production system and thematic area: Rain fed situation and Pest management
6. Performance of the Technology with performance indicators: Highest returns obtained in the Tech. option III(Rs.86100.00) compared to Farmers practice (Rs.31900.00)
7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques:
8. Final recommendation for micro level situation: *50 kg FYM, 500:320:1200g NPK per palm / year, 5 Kg Neem cake / palm Nutritional tonic (250 ml / palm twice a year at 6 months interval)
9. Constraints identified and feedback for Research: Uniform method of management of pests was not followed by cluster of peoples.
10. Process of farmers participation and their reaction: There are several farmers were actively involved in group meetings as well as results demonstration and opinioned that the technology should be followed by all individual farmers for effective control of pests.

10. Arecanut

Crop/enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Arecanut	Irrigated	Nut splitting and yield loss	Management of nut splitting in Arecanut	5	Application of Borax	% of nut splitting, Bunch weight/palm, Yield (t/ha)	In progress				

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice):	-				
Technology option 2 : RP	UAS, Bangalore				
Technology option 3 : AP	CPCRI, Kasargod				

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

- Title of Technology Assessed : Management of nut splitting in Arecanut
- Problem Definition : Nut splitting, yield loss
- Details of technologies selected for assessment :

Technology option 1 (Farmer's practice): FYM application + Complex fertilizers -2 bags
Technology option 2 : FYM 12kg/tree +RDF 100:40:140 NPK gm/tree
Technology option 3 : FYM 12kg/tree +RDF 100:40:140 NPK gm/tree +Borax 30 gm

- Source of technology : UAS, Bangalore and CPCRI , Kasargod
- Production system and thematic area : Irrigated and INM
- Performance of the Technology with performance indicators: % of nut splitting, bunch weight/palm, yield(t/ha)
- Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques
- Final recommendation for micro level situation: Combined use of microbial consortium to Tomato increases the Nutrient use efficiency and yield of plant resulting it reduces the application of inorganic fertilizers and pesticides
- Constraints identified and feedback for research : Nil
- Process of farmers' participation and their reaction:

4.D1. Results of Technologies Refined

Results of On Farm Trial -Nil

PART V - FRONTLINE DEMONSTRATIONS

5.A. Summary of FLDs implemented during 2010-11

Sl. No.	Category	Farming Situation	Season and Year	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
									Proposed	Actual	SC/ST	Others	Total	
1	Cereals	Rainfed	Kharif 2010	Paddy	MAS-946-1		ICM	Aerobic Paddy cultivation	1.0	1.0		4	4	
		Irrigated	Kharif 2010	Paddy	IR30864		ICM	Management of Saline Soils	2	2	1	9	10	
		Irrigated	Kharif 2010	Maize		NAH-1137		ICM	ICM in Maize	5	5	2	10	12
2	Millets	Rainfed	Kharif 2010	Cow pea - Ragi	C-152 ML-365		Cropping System	Sequential cropping of Cowpea followed by Ragi	5	5	3	9	12	
3		Vegetables	Irrigated	Rabi-2010	Brinjal		Arka-Anand	ICM	ICM in Brinjal	1	1		10	10
	Rainfed		Kharif 2010	Tomato		Arka ananya	ICM	ICM in Tomato	2	2	2	8	10	
	Irrigated		Kharif 2010	Frenchbean	Arka Suvidha		ICM	ICM in Frenchbean	2	2	2	8	10	
	Irrigated		Rabi 2010	Dolichos	Arka Jay		Popularization of variety	Popularization of Arka Jay	2	2	2	8	10	
	Irrigated		Rabi 2010	Cabbage	Unnathi		IPM	IPM in Cabbage	2	2	3	7	10	
4	Fruit		Rainfed	Summer 2011	Mango	Alphanso		ICM	ICM in Mango	2	2	2	8	10
		Irrigated	Kharif 2010	Banana	G-9 and Yelliki		INM	INM in Banana	2	2		10	10	
		Irrigated	Rabi 2010	Pomogranate	Bhagava		IDM	IDM in Pomogranate	2	2		10	10	
5	Fodder	Irrigation	Kharif 2010	Fodder crops	Co-3		Fodder production	Introduction of CO-3 variety	0.5	0.5		7	7	
6	Plantation	Rainfed/Irrigated	Kharif 2010	Arecanut	Hirehalli Tall		IDM	IDM in Arecanut	100 palms	100 palms		10	10	

	Implements (Groundnut Decorticator)	Rainfed	Rabi 2010	Ground nut	GPBD-4		Drudgery	Ground nut Decorticator	10 units	3 units	2	8	10	Unit cost was exceeded than proposed
7	Others (specify)	Rainfed	Summer 2011	Redgram	Local		PHT	Safe storage of pulses	5 units	5 units		5	5	

5.A. 1. Soil fertility status of FLDs plots during 2010-11

Sl. No.	Category	Farming Situation	Season and Year	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Season and year	Status of soil			Previous crop grown
										N	P	K	
1	Cereals	Rainfed	Kharif 2010	Paddy	MAS-946-1		ICM	Aerobic Paddy cultivation	Kharif 2010	M	L	M	Horsegram
		Irrigated	Kharif 2010	Paddy	IR30864		ICM	Management of Saline Soils	Kharif 2010	M	L	M	Diancha
		Irrigated	Kharif 2010	Maize		NAH-1137	ICM	ICM in Maize	Kharif 2010	M	L	M	Dolichos
2	Millets	Rainfed	Kharif 2010	Cow pea - Ragi	C-152 ML-365		Cropping System	Sequential cropping of Cowpea followed by Ragi	Kharif 2010	M	L	M	Cowpea
3	Vegetables	Irrigated	Rabi-2010	Brinjal		Arka-Anand	ICM	ICM in Brinjal	Rabi-2010	M	L	M	Ragi
		Rainfed	Kharif 2010	Tomato		Arka ananya	ICM	ICM in Tomato	Kharif 2010	M	L	M	-
		Irrigated	Kharif 2010	Frenchbean	Arka Suvridha		ICM	ICM in Frenchbean	Kharif 2010	M	L	M	Tomato
		Irrigated	Rabi 2010	Dolichos	Arka Jay		Popularization of variety	Popularization of Arka Jay	Rabi 2010	M	L	M	Ragi
		Irrigated	Rabi 2010	Cabbage	Unnathi		IPM	IPM in Cabbage	Rabi 2010	M	L	M	Maize
4	Fruit	Rainfed	Summer 2011	Mango	Alphanso		ICM	ICM in Mango	Summer 2011	M	L	M	-
		Irrigated	Kharif 2010	Banana	G-9 and Yelliki		INM	INM in Banana	Kharif 2010	M	L	M	Tomato and Aster
		Irrigated	Rabi 2010	Pomogranate	Bhagava		IDM	IDM in Pomogranate	Rabi 2010	M	L	M	
5	Fodder	Irrigation	Kharif 2010	Fodder crops	Co-3		Fodder production	Introduction of CO-3 variety	Kharif 2010	M	L	M	
6	Plantation	Rainfed/ Irrigated	Kharif 2010	Arecanut	Hirehalli Tall		IDM	IDM in Arecanut	Kharif 2010	M	L	M	
7	Others	Rainfed	Rabi 2010	Ground nut	GPBD-4		Drudgery	Ground nut Decorticator	Rabi 2010				
8	Others	Rainfed	Summer 2011	Redgram	Local		PHT	Safe storage of pulses	Summer 2011				

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		
Cereals	Aerobic Paddy Cultivation	MAS-946-1		Rainfed	05	1.0	51.2	41.5	45.2	42.5	6.35	16500	45200	28,700	1.74	20500	42500	22000	1.10	
Paddy	Management of Saline Soils	IR-30864		Irrigated	10	2	39.6	35.2	38.3	33.1	15.7	26504	49470	22966	1.87	23976	39750	15774	1.66	
	ICM in Maize		NAH 1137	Irrigated	12	5	63	50.3	56.2	52.6	6.84	13800	50580	36780	3.66	13200	47340	34140	3.58	
Millets	Sequential cropping of Cowpea followed by Ragi	C-152 & ML-365		Rainfed	12	05	Cow pea 6.5 & Ragi 22.6	5.9 18.7	Cow pea 6.2 & Ragi 20.3	15.8	20.1	16,800	48,398	31,598	1.88	6080	15,800	9,720	1.60	
Vegetables	ICM in Brinjal	-	Arka Anand	Irrigated	5	1	295	216	259.6	221	17.46	32750	181720	148970	5.54	29750	132600	102850	4.40	
	IPM in Cabbage	-	Unnati	Irrigated	10	2	22.2	15.4	18.2	15.8	18.18	33000	127400	94400	3.9	29800	102700	72900	3.44	
	ICM in French Bean	A.Suvidha		Irrigated	10	2	181.2	124.2	161.8	121.4	20.38	21342	80900	59558	3.79	17245	60700	43455	3.51	
	ICM in Tomato		Arka Ananya	Irrigated	10	2	542.4	356.8	516.1	345.7	49.29	38421	154830	96589	4.02	34214	103710	69496	3.03	
	Popularization of Arka jay	Arka jay		Rainfed	10	2	141.5	94.2	130.1	84.7	53.6	18345	65050	46705	3.5	17504	42350	24846	2.41	
Fruit	ICM in Mango	Alphonso	-	Rainfed	05	01	Demo is in progress Results awaited													
	IDM in Pomogranate	Bhagwa	-	Irrigated	2	2.00	9.23	7.81	8.52	2.35		85000	681600	596600		78000	211500	133500	2	
	Micronutrient in Banana	G-9		Irrigated	10	2	38.1 t/ha	35.9 t/ha	37 t/ha	31.5t/ha	17.46	93500	135864	42364	1.45	88000	113886	25886	1.29	
Fodder	Introduction of CO-3 fodder variety	Co-3		Irrigated	05	0.5	On going													
Plantation	IDM in Arecanut	Local		Irrigated	10	100 palms	On going													
Others -Safe storage method	Safe storage method of pluses	Red gram	-	Rainfed	05	05	-	On going												

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

5.B.2. Livestock and related enterprises -Nil

5.B.3. Fisheries -Nil

5.B.4. Other enterprises -nil

5.B.5. Farm implements and machinery

Name of the implement	Cost of the implement in Rs.	Name of the technology demonstrated	No. of Demo	Area covered under demo in ha	Labour requirement in Mandays		% save	Savings in labour (Rs./ha)	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demo	Check			Gross cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Ground nut decorticator	3000	Ground nut decorticator	3		1	9	88	Rs.800/qt	-	-	-	-	-	-	-	-

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

** BCR= GROSS RETURN/GROSS COST

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

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Local
Ground nut decorticator (seed damage %)	10	3

5.B.6. Cotton

5.B.6.1. Summary of demonstrations conducted under FLD cotton

Sl. No.	Category	Technology Demonstrated	Variety	Hybrid	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
						Proposed	Actual	SC/ST	Others	Total	
	Production Technology										
	IPM										
	Farm Implements										

5.B.6.2 Production technology demonstrations-Nil

Performance of demonstrations-Nil

Performance of Bt hybrids, Desi hybrids, non-Bt hybrids and Varieties in Front Line Demonstrations in cotton during 2010-11-Nil

5.B.6.3 Integrated pest management demonstrations-Nil

5.B.6.4 Demonstrations on farm implements-Nil

5.B.6.5 Extension Programmes organized in Cotton Demonstration Plots-Nil

5.B.6.6 Technical Feedback on the demonstrated technologies on all crops / enterprise

S. No	Crop / Enterprise	Name of the technology demonstrated	Feed Back
1.	Groundnut	Ground nut Decorticator	Decorticator should be mechanized
2.	Tomato	ICM in Tomato	Need for development of shelf life varieties and suitable for long distance transport
3.	Paddy	Management of Saline Soils	Need for development of resistant varieties to saline soils
4.	Paddy	Aerobic Paddy Cultivation	Popularization and Timely availability of seeds
5.	Maize	ICM in Maize	Need for development of dual purpose varieties baby corn and seeds
6.	Arecanut	IDM in Arecanut	Need to create the awareness among the farmers on management of anabe roga
7.	Pomogranate	IDM in Pomogranate	Need for development of low cost effective technology for bacterial blight of Pomogranate
8.	Dolichos	Popularization of Arka Jay variety	Need for high yielding rust resistance varieties
9.	Brinjal	ICM in Brinjal	Need of development of wilt resistance in bottle brinjal
10.	Frenchbean	Integrated Crop Management in Frenchbean	Need for rust resistance varieties

5.B.6.7 Farmers' reactions on specific technologies

S. No	Crop / Enterprise	Name of the technology demonstrated	Feed Back
1	Paddy	Aerobic cultivation	Non availability of timely supply of seeds Technology of cone-weeder need to be upgraded Resistance varieties
2	Mango	ICM	Need of regular bearing technology instead of alternate bearing of fruits
3	Groundnut	Groundnut	Plates needs to be size specific and use of rust proof or steel once.
4	Tomato	ICM in Tomato	Expressed good opinion about the hybrid and its performance which yielded higher than local varieties by adopting package of practices
5	Paddy	Management of Saline Soils in Paddy	Expressed good opinion about IR 30864 Salt tolerant variety which yield more than local varieties and also application of daincha improves the soil structure
6	Maize	ICM in Maize	Need for timely supply of seed and at subsidies rates
7	Arecanut	IDM in Arecanut	Cluster approach and effective plant protection measures should be provided
8	Pomogranate	IDM in Pomogrante	By practicing recommended IDM practices can be minimize the blight disease
9	Dolichos	Popularization of Arka Jay	Arka Jay found to be performed better than other dolichos
10	Brinjal	ICM	By adopting ICM technology effectively managed shoot and fruit borer, as well as wilt at the same time we can reduce the cost of cultivation without affecting the yield levels.
11	Frenchbean	ICM in French Bean	Fibre less fetched more price in the market and no. of picking can be delayed

5.B.6.8 Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organised	Number of participants	Remarks
1	Field days	3	95	--
2	Farmers Training	30	813	-
3	Media coverage	20	-	-
4	Training for extension functionaries	4	112	-

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										
Cereals																	
Bajra																	
Maize	ICM in Maize	NAH 1137	12	5	63	50.3	56.2	52.6	6.84	13800	50580	36780	3.66	13200	47340	34140	3.58
Vegetable crops																	
Tomato	ICM in Tomato	Arka Ananaya	10	2	542.4	356.8	516.1	345.7	49.29	38421	154830	96589	4.02	34214	103710	69496	3.03
Cabbage	IPM in Cabbage	Unatti	10	2	22.2	15.4	18.2	15.8	18.18	33000	127400	94400	3.9	29800	102700	72900	3.44
Brinjal	ICM in Brinjal	Arka Anand	10	1	295	216	259.6	221	17.46	32750	181720	148970	5.54	29750	132600	102850	4.40
Total			42	10	380.2	281.7	334	262.4	42.48	79550	359700	280150	13.1	72750	282640	209890	11.42

H-High L-Low, A-Average

*Please ensure that the name of the hybrid is correct pertaining to the crop specified

PART VII. TRAINING

7.A.. Farmers' Training 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
Horticulture										
a) Vegetable Crops										
Production of low value and high volume crop	1	21	5	26	2	-	2	23	5	28
Others (pl.specify) Seed Production in Vegetables	1	26	-	26	3	-	3	29	-	29
b) Fruits										

Cultivation of Fruit	1	13	-	13	2	-	2	15	-	15
Nursery Management	1	8	2	10	-	-	-	8	2	10
Soil Health and Fertility Management										
Integrated nutrient management	2	48	-	48	4	-	4	52	-	52
Production and use of organic inputs										
Management of Problematic soils	1	16	6	22	4	2	6	20	8	28
Value addition	1	-	22	22	-	3	3	-	25	25
Women empowerment										
Location specific drudgery production										
Integrated Disease Management	1	28	-	28	3	-	3	31	-	31
TOTAL	9	160	35	195	18	5	23	178	40	218

7.B.. Farmers' Training 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										
Resource Conservation Technologies										
Cropping Systems	1	20	3	23	5	2	7	25	5	30
Seed production	2	91	15	106	2	-	2	93	15	108
Nursery management										
Integrated Crop Management	2	47	6	53	3	-	3	50	6	56
Others (pl.specify)-Organic Farming in Oil Seed Crops	1	24	4	28	5	2	7	29	6	35
Horticulture										
a) Vegetable Crops										
Production of low value and high volume crop	1	24	6	30	-	--	-	24	6	30
Off-season vegetables	2	65	43	108	-	2	2	65	45	110
Others (pl.specify)-ICM in Cole Crops	1	24	2	26	3	-	3	27	2	29
b) Fruits										
Cultivation of Fruit	1	37	5	42	-	-	-	37	5	42
Management of young plants/orchards	1	18	3	21	2	1	3	20	4	24
c) Ornamental Plants										

Nursery Management	1	9	3	12	-	-	-	9	3	12
Management of potted plants										
Export potential of ornamental plants	1	28	2	30	-	-	-	28	2	30
Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	1	-	22	22	-	8	8	-	30	30
Storage loss minimization techniques	1	19	6	25	1	2	3	20	8	28
Value addition										
Women empowerment	1	-	28	28	-	2	2	-	30	30
Women and child care	1	-	25	25	-	1	1	-	26	26
Agril. Engineering										
Post Harvest Technology	2	38	8	46	4	2	6	42	10	52
Plant Protection										
Integrated Pest Management	2	53	4	57	-	-	-	53	4	57
Integrated Disease Management	3	81	18	99	9	1	10	90	19	109
TOTAL	27	623	210	833	34	23	57	657	233	890

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
Seed production	2	26	11	37	3	1	4	29	12	41
TOTAL	2	26	11	37	3	1	4	29	12	41

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
Post Harvest Technology	1	3	11	14	1	1	2	4	12	16
Any other (pl.specify) Health and hygiene education to rural youth	1		55	55		6	6		61	61
TOTAL	2	3	66	69	1	7	8	4	73	77

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Integrated Pest Management	2	43	7	50	6		6	49	7	56
Protected cultivation technology	1	20	3	23	2	1	3	22	4	26
Low cost and nutrient efficient diet designing	1		28	28		2	2		30	30
Total	4	63	38	101	8	3	11	71	41	112

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Livestock feed and fodder production	1	20	3	23	2	1	3	22	4	26
Household food security										
Others-Production Technology of Fruit Crops	1	19	1	20	6	2	8	25	3	28
Total	2	39	4	43	8	3	11	47	7	54

7.G. Sponsored training programmes- Nil

7.H. Details of vocational training programmes carried out by KVKs for rural youth

S.No.	Area of training	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
1	Post harvest technology and value addition										
1.a.	Value addition	1	-	30	30	-	-	-	-	30	
	Grand Total	1		30	30					30	

PART VIII – EXTENSION ACTIVITIES

Extension Programmes (including activities of 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	2	160	20	180	9	5	14	6	4	10
Exhibition	10	1994	6980	26974	56	30	86	908	271	1179
Workshop	2	90	22	112	5	3	8	15	10	25
Group meetings										
Lectures delivered as resource persons	16	769	219	988	7	5	12	62	14	76
Newspaper coverage	5									
Radio talks	1									
TV talks	14									
Popular articles	6									
Extension Literature	11	50	5	55	2	1	3	3		3
Advisory Services	362	580	47	627	4	3	7	24		24
Scientific visit to farmers field	7	31	5	36	1		1	6		6
Farmers visit to KVK	198	653	53	706	7	2	9			
Diagnostic visits	96	109	7	116	6	1	7	6		6
Exposure visits	4	92	23	115	3	2	5	3		3
Celebration of important days (specify) International Womens Day, World Food Day, Environment Day	3	36	86	122	6	4	10			
Any Other (Specify)HRD Programmes	6									
Total	743	22564	7467	30031	106	56	162	1033	299	1332

PART IX – PRODUCTION OF SEED, PLANT AND LIVESTOCK MATERIALS

9.A. Production of seeds by the KVKs

Breeder seed

Crop category	Name of the crop	Variety	Hybrid	Quantity of seed (Kg)	Value (Rs.)	Number of farmers to whom provided
Vegetables	French Bean	Arka Komal	-	450.50	67500.00	Handed over to IIHR
	Radish	A.Nishant		70.00	17500.00	Handed over to IIHR
	Tomato	Arka sourabh	-	4.8	26820.00	Handed over to IIHR
	Brinjal	Arka Shrish	-	42.80	27820.00	Handed over to IIHR
	Okra	Arka Anamika	-	218.00	151200.00	Handed over to IIHR
	Onion	A.Bindu		30.00	36000.00	Handed over to IIHR
	Ridge Gourd	Arka sumeet	-	89.18	31213.00	Handed over to IIHR
	Dolichos	Arka jay		150	22500.00	
Others (specify)	Mucuna	-	-	600	48000.00	
Total				1726.12	428553.00	

Certified/T.L seeds,Produced under NHM Scheme:

Crop category	Name of the crop	Variety	Hybrid	Quantity of seed (Kg)	Value (Rs.)	Number of farmers to whom provided
Vegetables	French Bean	Arka suvidha	-	450.50	40500	Being sold at KVK
	Radish	A.Nishant		80	20000	Being sold at KVK
	chilli	Arka lohit	-	13	13000	Being sold at KVK
Total				1726.12	73500	
GROSS TOTAL					502053.00	

9.B. Production of planting materials by the KVKs

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

Ornamental plants						
Medicinal and Aromatic						
Plantation	Areca nut Seedlings	Hirehalli Tall	--	54451	544510	60
	Coconut	Arsikere Tall	--	150	3750	
Total				54601	548260	60

9.C. Production of Bio-Products-Nil

9.D. Production of livestock materials-Nil

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 ((Date of start, Periodicity, number of copies distributed etc.)

(B) Literature developed/published

Item	Title	Authors name	Number
Research papers			
Technical reports	Action Plan Report 2010-11 Annual Review Meet 2009-10 SAC Meeting Report 2009-10 Monthly DARE Report Monthly Cabinet Report Monthly Report	KVK Staff, Hirehalli	6
News letters			
Technical bulletins			
Popular articles	Nutritional Garden	Radha R.Banakar, M.Shivashenkarmurthy	
Extension literature	Bettada Nelli	M.Shivashenkarmurthy,J.M.prashanth, P.R.Ramesh and K.N.Jagadish	1000
	Bettada Nellyalli Moulyavardhita Padarthagalu	Radha R.Banakar, J.M.Prashanth, M.Shivashenkarmurthy, B.Hanumnathegowda	1000
	Bettada Nelli Prachandolona	J.M.Prashanth, Dr. Somashekar, M.Shivashenkarmurthy,K.S.SannaManjunath	1000
	General benefits of Amla	M.Shivashenkarmurthy, K.S.SannaManjunath	1500
Others (Pl. specify) News Paper Coverage	Togaribele bijotpadane :Salahe - 22/7/2010 Krushi kendradalli Aahara dinacharane- 23/10/2010 Hirehalliyalli Bale Kshetrotasava- 28/11/2011 Krushi Tantrajnnann Mahiti Vargavne Kendra-15/2/2011	KVK Staff, Hirehalli	4
TOTAL			4510

10.B. Details of Electronic Media Produced-Nil

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
-Nil-**

10.E. Give details of indigenous technology practiced by the farmers in the KVK operational area which can be considered for technology development (in detail with suitable photographs)

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK
1.	Arecanut	Application of Tank Silt @ 50tons/ha	Supply of nutrients , better drainage and aeration
2.	Pulses	Coating of Caster Oil to the pulses and stored in the earthen pots	Physical barriers for pest
3.	Mango	Ragi and Paddy husk as a mulching material	To check evaporation and weed growth
4.	Coconut	Root feeding with neem oil	Reduction of stem bleeding

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

1. Identification of courses for farmers/farm women

- PRA technique and need analysis through individual & group discussion
- As per the suggestions and guidelines of members of SAC

2. Rural Youth

- Survey and discussion
- Feedback from rural youths

3. In service personnel

- Discussion with District and taluk level officers to know the areas of interest/choice of extension workers based on field problems
- Collaborative activities, meetings and discussions with line departments.
- SAC interactions
- Diagnostic visits

10.G. Field activities

- i. Number of villages adopted : 8
- ii. No. of farm families selected : 85
- iii. No. of survey/PRA conducted : 6

10.H. Activities of Soil and Water Testing Laboratory

- 1. Status of establishment of Lab : Yet to be establish
- 2. Year of establishment :
- 3. List of equipments purchased with amount :

Details of samples analyzed so far since establishment of SWTL:Nil

Details of samples analyzed during the 2010-11 :-Nil

10.I. Technology Week celebration :Nil

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

- A. Introduction of alternate crops/varieties :Nil
- B. Major area coverage under alternate crops/varieties:Nil
- C. Farmers-scientists interaction on livestock management:Nil
- D. Animal health camps organized :Nil
- E. Seed distribution in drought hit states:Nil
- F. Large scale adoption of resource conservation technologies
- G. Awareness campaign ;Nil

PART XI. IMPACT

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

11.B. Cases of large scale adoption – Nil-

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

- As a result of on-campus trainings on composting cultures to the farmers, are adopting for compost cultures (25 %) in vermicomposting and use of bio fertilizers in composting
- Farmers have realized the importance of ICM technology (Vegetables) and only 45% of the IPM components are being voluntarily used by the farmers.
- Farmers have realized the importance of soil testing by various training programmes & as a result 32 farmers have analyzed their soil.
- As a result of FLD & training programmes farmers are following sequential cowpea-ragi cropping system. The farmers are accepted the technology.
- SHG group at Tumkur taluk underwent the training & started preparation of value added candles, phenyl, soap and detergent & market linkage is established.

PART XII - LINKAGES

12.A. Functional linkage with different organizations

Name of organization	Nature of linkage
State Department of Horticulture	Trainings, FLD, Joint Diagnostic Survey
State Department of Agriculture	Trainings, FLD, Joint Diagnostic Survey
Watershed Department	Training and Collaborative activities
Department of Animal Husbandry and Fisheries	Trainings and Technical information
BAIF NGO, Tiptur	Trainings and Technical information
ORDER NGO, Tumkur	Trainings, FLD's and Technical information
AWARE NGO, Tumkur	Trainings
UAS, Bangalore	Trainings and FLD's
UAS, Dharwad	Trainings and FLD's
UHS, Bagalkot e	Trainings and FLD's
Veterinary University ,Bidar	Trainings and FLD's

NB The nature of linkage should be indicated in terms of joint diagnostic survey, joint implementation, participation in meeting, contribution received for infrastructural development, conducting training programmes and demonstration or any other

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

Name of the scheme	Date/ Month of initiation	Funding agency	Amount (Rs.)
Karnataka State Amla Campaign	July 2010	KAMPA	8,00,000
Network Project on Climate Change on Impact, Adaptation and Vulnerability of Indian Agriculture to Climate Change	January 2011	CRIDA, Hyderabad	30,00,000
Mass Multiplication of Selected Medicinal Plants	March 2011	NMMP, New Delhi	4,00,000

12.C. Details of linkage with ATMA

a) Is ATMA implemented in your district Yes/ No

Yes

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

Collecting technical information and training programmes

Coordination activities between KVK and ATMA during 2010-11- Nil**12.D. Give details of programmes implemented under National Horticultural Mission**

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Constraints if any
1.	Certified Vegetable Seed Production	Project approved under NHM Scheme	200000	200000	-
2.	Integrated Mushroom Unit	Project approved under NHM Scheme	1500000	-	-

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

12.F. Details of linkage with RKVY - Nil

12. G Kisan Mobile Advisory Services - Nil

PART XIII- PERFORMANCE OF INFRASTRUCTURE IN KVK

13.A. Performance of demonstration units (other than instructional farm): Nil

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.	Cost of inputs	Gross income	
Spices & Plantation crops									
Arecanut	Feb, 2010	-		Hirehalli tall	Seedlings	54451	108902.0	544510	-
Coconut	Nov, 2010			Arsikere tall	Seedlings	150	500	3750	
Vegetables French Bean	1.10.2010	15.1.2011	0.8	Arka Komal	Seeds	450.50 kg		67500	Handed over to IIHR
Radish	26.10.2010	28.2.2011	0.2	Arka Nishant	Seeds	70 kg		17500	Handed over to IIHR
Tomato	26.9.2010	25.1.2011	0.1	Arka Sourabh	Seeds	4.8 kg		26820	Handed over to IIHR
Brinjal	15.4.2010	15.9.2010	0.4	Arka Shrish	Seeds	42.80 kg		27820	Handed over to IIHR
Okra	15.6.2010	8.10.2010	1	Arka Anamika	Seeds	218 kg		151200	Handed over to IIHR
Onion	25.6.2010	15.3.2011	0.1	Arka .Bindu	Seeds	30 kg		36000	Handed over to IIHR
Ridge Gourd	4.4.2010	15.7.2010	1	Arka Sumeet	Seeds	89.18 kg		31213	Handed over to IIHR
Dolichos	27.10.2010	2.3.2011	1	Arka Jay	Seeds	150 kg		22500	Handed over to IIHR
French Bean	2.11.2010	26.2.2011	1	Arka Suvidha	Seeds	450.50		40500	Being sold at KVK
Radish	2.11.2010	26.2.2011	0.8	Arka .Nishant	Seeds	80		20000	Being sold at KVK
Chilli	4.6.2010	12.12.2010	0.2	Arka lohit	Seeds	13		13000	Being sold at KVK
Others (specify)									
Mucuna	8.6.2010	4.1.2011	1		Seeds	600 kg		48000	

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

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

13.E. Utilization of hostel facilities:Nil

13.F. Database management

S. No	Database target	Database created
1	Farmers Database	Under process
2	Technology Inventory for the District	Under process
3	Database for Technologies assessed and Refined	Under process
4	Frontline Demonstrations Database	Under process
5	Training Database	Under process
6	Database of Extension Programmes	Under process
7	Seeds and Planting Material Database	Under process
8	KVK Inventory of Assets	Under process

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

PART XIV - FINANCIAL PERFORMANCE

14.A. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Branch code	Account Name	Account Number	MICR Number	IFSC Number
With Host Institute							
With KVK							

14.B. Utilization of funds under FLD on Cotton (Rs. in Lakh)

Nil

S. No	Items / Head	Opening balance if any	Remittance by ZPD VIII Bangalore	Actual expenditure dubitable to Council A/C	Closing balance if any	Remarks
1	Production Technology – 50 ha					
	a. Essential inputs					
	b. POL, hiring vehicle, Kisan melas, printed materials, reports, demonstration boards					
	Total					
2.	Farm Implements – 75 ha					
	a. New equipments					
	b. Contingencies					
	Total					

14.C. Utilization of KVK funds during the year 2010-11 (Rs. in lakh)

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances	4500000	4500000	4392872
2	Traveling allowances	125000	125000	64106
3	Contingencies			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	220000	220000	220000
B	POL, repair of vehicles, tractor and equipments	200000	200000	200000
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	120000	120000	120000
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	30000	30000	30000
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	150000	150000	150000
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	70000	70000	70000
G	Training of extension functionaries	25000	25000	25000
H	Maintenance of buildings	90000	90000	90000
I	Establishment of Soil, Plant & Water Testing Laboratory			
J	Library	5000	5000	5000
K	Extension Activities	30000	30000	30000
L	Farmers Filed School	25000	25000	25000
TOTAL (A)		5590000	5590000	5421978
B. Non-Recurring Contingencies				
1	Works			
a.	Admn. Building(1 st installment)	2000000	2000000	2000000
b.	Farmers Hostel(1 st installment)	1700000	1700000	1700000
2	Equipments including SWTL & Furniture			
a.	Generator	100000	100000	99851
b.	LCD Projector with accessories	100000	100000	100000
c.	Tractor with implements	500000	500000	500000
3	Vehicle (Four wheeler/Two wheeler, please specify)			
4	Library (Purchase of assets like books & journals)	10000	10000	10000
TOTAL (B)		4410000	4410000	4409851
C. REVOLVING FUND		0	0	186708
GRAND TOTAL (A+B+C)		10000000	10000000	10018537

14.D. 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 2008 to March 2009				
April 2009 to March 2010	100000	105000	33336	171634
April 2010 to March 2011	171634	382870	186708	367796

15. Details of HRD activities attended by KVK staff during 2010-11

Name of the staff	Designation	Title of the training programme	Institute where attended	Dates
Radha R Banakar	SMS (Home Science)	Spawn (Mushroom Seed) Production	IIHR, Bangalore	17th – 19th June 2010
Radha R Banakar	SMS (Home Science)	Mushroom cultivation	IIHR, Bangalore	21st June 25th 2010
K.N. Jagadish	SMS (Agri Extn)	Mass media	MANAGE, Hyderabad	5-9th July, 2010
Somashekar	SMS (Plant Breeding)	Oil Seed and Pulses at	UAS, Dharward	26-30th, 2010
Radha R Banakar	SMS (Home Science)	Post technology in horticulture crops	IIHR, Bangalore	17-24th, Aug,2010
Prashanth JM	SMS (Hort)	Climate change and water productivity	CRIDA, Hyderabad	16-29th Sept, 2010
Ramesh P.R	SMS (Soil Science)	Climate change and water productivity	CRIDA, Hyderabad	16-29th Sept, 2010
Shivashenkarmurthy	Prg. Asst (Agronomy)	Climate change and water productivity	CRIDA, Hyderabad	16-29th Sept, 2010
Somashekar	SMS (Plant Breeding)	Advances in Quality Seed Production, Processing and Marketing	UAS, Bangalore	13th to 4th Sept. ,2010
Prashanth JM	SMS (Hort)	Fish culture in IFS	UAS, Bangalore	11-13th,Jan, 2011
Shivashenkarmurthy	Prg. Asst (Agronomy)	Fish culture in IFS	UAS, Bangalore	11-13th,Jan, 2011
Radha R Banakar	SMS (Home Science)	Interface meeting for SMS Home science	UAS, Bangalore	8-9th , Feb, 2011

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

SUMMARY FOR 2010-11

I. TECHNOLOGY ASSESSMENT

Summary of technologies assessed under various crops

Thematic areas	Crop	Name of the technology assessed	No. of trials
Integrated Nutrient Management	Areca nut	Management of Nut Splitting in Arecanut	5
	Tomato	Assessment of microbial consortium for Tomato production	5
Varietal Evaluation	China Aster	Assessment of china aster varieties	5
	Groundnut	Assessment of Groundnut varieties	5
	Tomato	Performance and assessment of tomato varieties	5
Integrated Pest Management	Coconut	Integrated Management of eriophid mite in Coconut	2
Integrated Crop Management	Banana	Assessment of paired row and pit method of planting in Banana	3
	Redgram	Enhancing the productivity in Redgram production system through transplanting	6
	Mango	Assessment of Mucuna (Medicinal plant) as intercrop in Mango.	4
Integrated Disease Management	Groundnut	Management of Collar Rot disease in Groundnut	3
Total			43

Summary of technologies assessed under livestock:Nil

Summary of technologies assessed under various enterprises:Nil

Summary of technologies assessed under home science:Nil

II. TECHNOLOGY REFINEMENT-Nil

III. FRONTLINE DEMONSTRATION

Cotton

Frontline demonstration on cotton:Nil

Other crops

Crop	Thematic area	Name of the technology demonstrated	No. of KVKs	No. of Farmer	Area (ha)	Yield (q/ha)		% change in yield	Other parameters		*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
						Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Cereals	ICM	Aerobic Paddy cultivation		4	1	45.2	42.5	6.35			16500	45200	28,700	1.74	20500	42500	22000	1.10
	ICM	Management of Saline Soils		10	2	38.3	33.1	15.7			26504	49470	22966	1.87	23976	39750	15774	1.66
	ICM	ICM in Maize		12	5	56.2	52.6	6.84			13800	50580	36780	3.66	13200	47340	34140	3.58
Millets	Cropping System	Sequential cropping of Cowpea followed by Ragi		12	5	Cow pea 6.2 & Ragi 20.3	15.8	20.1			16,800	48,398	31,598	1.88	6080	15,800	9,720	1.60
Vegetables	ICM	ICM in Brinjal		10	1	259.6	221	17.46			32750	181720	148970	5.54	29750	132600	102850	4.40
	ICM	ICM in Tomato		10	2	18.2	15.8	18.18			33000	127400	94400	3.9	29800	102700	72900	3.44
	ICM	ICM in Frenchbean		10	2	161.8	121.4	20.38			21342	80900	59558	3.79	17245	60700	43455	3.51
	Popularization of variety	Popularization of Arka Jay		10	2	516.1	345.7	49.29			38421	154830	96589	4.02	34214	103710	69496	3.03
	IPM	IPM in Cabbage		10	2	130.1	84.7	53.6			18345	65050	46705	3.5	17504	42350	24846	2.41
Fruit	ICM	ICM in Mango		10	2	In progress												
	INM	INM in Banana		10	2	37 t/ha	31.5t/ha	17.46			85000	681600	596600		78000	211500	133500	2
	IDM	IDM in Pomogranate		10	2	8.52	2.35				93500	135864	42364	1.45	88000	113886	25886	1.29
Fodder	Fodder production	Introduction of CO-3 variety		7	0.5	In progress												
Plantation	IDM	IDM in Arecanut		10	100 palms	10.89	7.89	In progress										
	PHT	Safe storage of pulses		5	5 units	Ongoing												
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

Livestock :Nil

Fisheries :Nil

Other enterprises :Nil

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)	Field observation (output/man hour)		% change in major parameter	Labor reduction (man days)				Cost reduction (Rs./ha or Rs./Unit ect.)				
						Demonstration	Check										
Groundnut Decorticator	Groun nut	Ground nut decorticator		3		1	9	88									

Other enterprises

Demonstration details on crop hybrids

Crop	Name of the Hybrid	No. of farmers	Area (ha)	Yield (kg/ha) / major parameter			Economics (Rs./ha)			
				Demonstration	Local check	% change	Gross Cost	Gross Return	Net Return	BCR
Cereals										
Maize	NAH 1137	12	5	56.2	52.6	6.84	13800	50580	36780	3.66
Vegetable crops										
Tomato	Arka Ananaya	10	2	516.1	345.7	49.29	38421	154830	96589	4.02
Cabbage	Unatti	10	2	18.2	15.8	18.18	33000	127400	94400	3.9
Brinjal	Arka Anand	10	1	259.6	221	17.46	32750	181720	148970	5.54

IV. Training Programme

Farmers' Training 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
a) Vegetable Crops										
Production of low value and high volume crop	1	21	5	26	2	-	2	23	5	28
Others (pl.specify)-Seed Production in Vegetables	1	26	-	26	3	-	3	29	-	29
Cultivation of Fruit	1	13	-	13	2	-	2	15	-	15
Nursery Management	1	8	2	10	-	-	-	8	2	10

Integrated nutrient management	2	48	-	48	4	-	4	52	-	52
Production and use of organic inputs										
Management of Problematic soils	1	16	6	22	4	2	6	20	8	28
Integrated Disease Management	1	28	-	28	3	-	3	31	-	31
TOTAL	9	160	35	195	18	5	23	178	40	218

Farmers' Training 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										
Cropping Systems	1	20	3	23	5	2	7	25	5	30
Seed production	2	91	15	106	2	-	2	93	15	108
Nursery management										
Integrated Crop Management	2	47	6	53	3	-	3	50	6	56
Others (pl.specify)- Organic Farming in Oil Seed Crops	1	24	4	28	5	2	7	29	6	35
Production of low value and high volume crop	1	24	6	30	-	--	-	24	6	30
Off-season vegetables	2	65	43	108	-	2	2	65	45	110
Others (pl.specify)- ICM in Cole Crops	1	24	2	26	3	-	3	27	2	29
Cultivation of Fruit	1	37	5	42	-	-	-	37	5	42
Management of young plants/orchards	1	18	3	21	2	1	3	20	4	24
Nursery Management	1	9	3	12	-	-	-	9	3	12
Management of potted plants										
Export potential of ornamental plants	1	28	2	30	-	-	-	28	2	30
Integrated nutrient management	1	30	2	32	-	-	-	30	2	32
Soil and water testing	1	15	5	20	-	-	-	15	5	20
Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	1	-	22	22	-	8	8	-	30	30

Storage loss minimization techniques	1	19	6	25	1	2	3	20	8	28
Value addition										
Women empowerment	1	-	28	28	-	2	2	-	30	30
Women and child care	1	-	25	25	-	1	1	-	26	26
Post Harvest Technology	2	38	8	46	4	2	6	42	10	52
Plant Protection										
Integrated Pest Management	2	53	4	57	-	-	-	53	4	57
Integrated Disease Management	3	81	18	99	9	1	10	90	19	109
TOTAL	27	623	210	833	34	23	57	657	233	890

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
Seed production	2	26	11	37	3	1	4	29	12	41
TOTAL	2	26	11	37	3	1	4	29	12	41

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
Post Harvest Technology	1	3	11	14	1	1	2	4	12	16
Any other (pl.specify) Health and hygiene education to rural youth	1		55	55		6	6		61	61
TOTAL	2	3	66	69	1	7	8	4	73	77

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Integrated Pest Management	2	43	7	50	6		6	49	7	56

Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology	1	20	3	23	2	1	3	22	4	26
Low cost and nutrient efficient diet designing	1		28	28		2	2		30	30
Total	4	63	38	101	8	3	11	71	41	112

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Livestock feed and fodder production	1	20	3	23	2	1	3	22	4	26
Household food security										
Any other (pl.specify)	1	19	1	20	6	2	8	25	3	28
Total	2	39	4	43	8	3	11	47	7	54

Sponsored training programmes -Nil

Details of vocational training programmes carried out for rural youth

S.No.	Area of training	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
1	Crop production and management										
2	Post harvest technology and value addition										
2.a.	Value addition	1	-	30	30	-	-	-	-	30	30
5.b.	Others (pl.specify)										
	Grand Total	1		30	30					30	30

V. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services		362	24	658
Diagnostic visits		96	6	129
Field Day		02	10	204
Group discussions				
Kisan Ghosthi				

Film Show				
Self -help groups				
Kisan Mela				
Exhibition	10	27060	1179	28239
Scientists' visit to farmers field	07	37	06	43
Plant/animal health camps				
Farm Science Club				
Ex-trainees Sammelan				
Farmers' seminar/workshop	02	120	25	145
Method Demonstrations				
Celebration of important days				
Special day celebration	03	132	-	132
Exposure visits	04	120	03	123
Others (pl.specify)				
Farmers visit to KVK	198	715	-	715
Lectures delivered as resource person	16	1000	76	1076
Extension Literature	11	58	03	61
Total	711	30193	1332	31525

Details of other extension programmes

Particulars	Number
Electronic Media	-
Extension Literature	04
News Letter	-
News paper coverage	04
Technical Articles	05
Technical Bulletins	-
Technical Reports	06
Radio Talks	01
TV Talks	14
Animal health camps (Number of animals treated)	-
Others (pl.specify)	-
Total	34

VI. PRODUCTION OF SEED/PLANTING MATERIAL

Production of seeds by the KVKs

Crop category	Name of the crop	Name of the variety (if hybrid pl. specify)	Quantity of seed (q)	Value (Rs)	Number of farmers
Vegetables					
	French Bean	Arka Komal	450.50	67500.00	Handed over to IIHR
	Radish	A.Nishant	70.00	17500.00	Handed over to IIHR
	Tomato	Arka sourabh	4.8	26820.00	Handed over to IIHR
	Brinjal	Arka Shrish	42.80	27820.00	Handed over to IIHR
	Okra	Arka Anamika	218.00	151200.00	Handed over to IIHR
	Onion	A.Bindu	30.00	36000.00	Handed over to IIHR
	Ridge Gourd	Arka sumeet	89.18	31213.00	Handed over to IIHR
	Dolichos	Arka jay	150	22500.00	Handed over to IIHR
	French Bean	Arka suvidha	450.50	40500	Being sold at KVK
	Radish	A.Nishant	80	20000	Being sold at KVK
	chilli	Arka lohit	13	13000	Being sold at KVK
Others (specify)	Mucuna	-	600	48000.00	Handed over to IIHR
Total					

Production of planting materials by the KVKs

Crop category	Name of the crop	Name of the variety (if hybrid pl. specify)	Number	Value (Rs.)	Number of farmers
Medicinal and Aromatic					
	Areca nut Seedlings	Hirehalli Tall	54451	544510	60
	Coconut	ArsikereTall	150	3750	-
Total			54601	548260	60

Production of Bio-Products:Nil

Production of livestock and related enterprise materials:Nil

VII. DETAILS OF SOIL, WATER AND PLANT ANALYSIS 2010-11:Nil

VIII. SCIENTIFIC ADVISORY COMMITTEE

Number of SACs conducted
01

IX. NEWSLETTER

Number of issues of newsletter published

X. RESEARCH PAPER PUBLISHED

Number of research paper published

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

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

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