ANNUAL REPORT 2013-14

(FOR THE PERIOD APRIL 2013 TO MARCH 2014)

KRISHI VIGYAN KENDRA (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-572 104	0816-2243175	0816-2243177	**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, iihrdirector@gmail.com**	**www.iihr.ernet.in**

1.3. Name of the Programme Co-ordinator with phone & mobile No

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. N.Loganandhan		8277252099	loganandhan@gmail.com

1.4. Year of sanction: 24th, March 2009

1.5. Staff Details as on 31.03.2014

Sl. No.	Sanctioned Post	Name of the Incumbent	Designation	M/ F	Discipline	Highest Qualification (for PC, SMS and Prog. Asst.)	Pay Scale	Basic Pay	Date of Joining KVK	Permanent /Temporary	Category (SC/ST/ OBC/ Others)
1.	Programme Co-ordinator	Dr. N.Logannadhan	Programme Coordinator	M	Agril.Extn	Ph.D. Agriculture	37400-67000+9000	46400	02.08.2013	Permanent	Others
2.	SMS	Sri K.N. Jagadish	SMS (Agril.Extn.)	M	Agril.Extn.	M.Sc. Agriculture	15600 - 39100+5400	23640	17.11.2009	Permanent	OBC
3.	SMS	Sri P.R.Ramesh	SMS (Soil Science)	M	Soil Science	M.Sc. Agriculture	15600 - 39100+5400	23640	17.11.2009	Permanent	OBC
4.	SMS	Sri Prashanth J.M	SMS (Horticulture)	M	Horticulture	M.Sc. Agri Horticulture	15600 - 39100+5400	23640	24.11.2009	Permanent	Others
5.	SMS	Sri B. Hanumanthe Gowda	SMS (Plant Protection)	M	Plant Protection	M.Sc. Agriculture	15600 - 39100+5400	23640	02.12.2009	Permanent	Others
6.	SMS	Ms. RadhaR.Banakar	SMS (Home Science)	F	Home Science	M.Sc. Home Science	15600 - 39100+5400	23640	05.12.2009	Permanent	Others
7.	SMS	Dr. Somashekhar	SMS (Plant Breeding)	M	Plant Breeding	Ph.D. Agriculture	15600 - 39000+5400	23640	07.12.2009	Permanent	Others
8.	Farm Manager	Sri H.D.Parashuram	Farm Manager	M	Horticulture	B.Sc.	9300 - 34800+4600	18950	25.07.2013	Permanent	Others
9.	Prog. Asst. (Comp.)	Ms. Jyoti Appu Naik	Prog. Asst. (Comp.)	F	Information Science	B.E.	9300 - 34800+4200	15210	01.10.2009	Permanent	PH
10.	Prog. Asst. (Lab Tech.)	Mr Shashidhara K N	Prog. Asst. (Lab Tech.)	M	Crop Physiology	M.Sc Agri	9300 - 34800+4200	13910	17.10.2012	Permanent	SC
11.	Assistant	Vacant	Assistant				9300 - 34800+4200				
12.	Jr.Stenographer	Smt.VedaKurnalli	Jr.Stenographer	F	Stenographer	DCP	5200 - 20200+2400	10840	17.02.2010	Permanent	Others
13.	Driver	Sri M.H.Ningappa	Driver	M	Driver	S.S.L.C.	5200 - 20200+2000	9560	30.12.2009	Permanent	Others
14.	Driver	Sri Hemanth Kumar	Driver	M	Driver	S.S.L.C	5200 - 20200+2000	9260	04.01.2010	Permanent	OBC
15.	Supporting Staff	Sri G.Manjanna	Supporting Staff	M	Supporting Staff	S.S.L.C.	5200 - 20200+1800	7430	1.11.2011	Permanent	SC
16.	Supporting Staff	Vacant					5200 - 20200+1800				

1.6. Total land with KVK (in ha) : 16.8 ha

S. 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

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR	20.10.2012					
2.	Farmers Hostel	ICAR	20.10.2012					
3.	Staff Quarters							
	1							
	2							
	3							
	4							
	5							
	6							
4.	Demonstration Units							
	1							
	2							
	3							
	4							
5	Fencing							
6	Rain Water harvesting system							
7	Threshing floor							
8	Farm godown							
9								
10								

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total Kms. Run	Present status
Bolero Diesel Jeep	2009	596783		Good condition
Motor Cycle	2010	52658		
Honda – Aviator	2010	46025		
Power Tiller	2010	1 42400		
Tractor	2011	560000		

C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Fax Machine	2010	21381	Good condition
Xerox Machine	2010	67262	
Camera Nikon – Digital	2010	24950	
Computer with Accessories	2010	49900	
White Board with Stand	2010	1500	
LCD Projector with Accessories	2010	100000	

1.8. Details SAC meeting conducted in 2013-14

Sl. No.	Date	Number of Participants	No. of absentees	Salient Recommendations	Action taken
1.	30.09.2013	62	05	Useful massages through local radio can be disseminated, where entire farming community will be covered	The technologies were disseminated through FM Radio Siddarth, AIR, Bangalore station at regular intervals.
2.				At least one field day should be conducted during FLD's in the farmers field.	Four Field days were conducted
3.				Apart from yield, data on other characters should also be included in the FLD's and OFT's during the presentation by each SMS.	Action was initiated for collecting all related parameters
4.				Vermi-wash should be produced at KVK, for the benefit of small farmer.	Basic infrastructure was developed
5.				Action plan of ATMA should be prepared involving SMS's of KVK.	SREP plans for Tumkur & Madhugiri taluks were prepared involving SMS-SS & SMS-Ext.
6.				Animal husbandry related activities need to be given importance.	Two Animal Health Camps were organized at Hirehalli & D.Nagenahalli especially focusing on FMD.
7.				Base line data should be there for IFS programmes by KVK.	Baseline data of two IFS farmers were collected & documented
8.				Value addition should be included in all FLD's.	Value addition was included in Ragi & Mango related FLD's
9.				Technologies should be disseminated to other line departments of the district to help large number of farmers.	Three Field days were conducted involving line department extension functionaries.
10.				Standardize Popularization for local Betel vine variety of Pavagada	Pavagada Betelvine farmers were invited for Betlevine Interaction Meet at KVK, Hirehalli and National Meet on Betelvine at IIHR, Bangalore to share their views in this regard.
11.				KCG-2, a suitable variety of Groundnut for zone 4 & 5, released for cultivation by UAS (B) – popularization.	KCG-2 is included in the OFT (2014-15)
12.				BRG-10-1 (BRG-4) should be included in the Redgram FLD	BRG-4 is included in the FLD (2014-15)
13.				Development of fodder banks for	NIFTD is being proposed

				sustaining sheeps and goats under stall feeding. Popularize the available technology.	during 2014-15
14.				Promote off season employment to farm families through. • Mushroom cultivation. • Value added products of Ragi and other millets.	Seven Training programmes were conducted on Mushroom & Ragi
15.				Minor Millets related programmes need to be promoted at KVK, as Tumkur District falls under dry zones.	Seed production in Foxtail Millet, Ragi were initiated and FLD on value addition to Ragi is under progress & In collaboration with Dhan Foundation Walkathon on minor millets was organized.
16.				Convergence programmes of different sponsored agencies are being carried out in selected 5 villages in Sira Taluk and some more programmes can be included.	FLDs on Papaya and Red gram were taken in these selected five VDP villages in Sira taluk in collaboration with ORDER NGO
17.				Importance of Ready to fruit bags in Tumkur district need to be promoted for mushroom consumption and cultivation	RTF bags from IIHR were procured and same are being supplied to interested farmers of Tumkur district
18.				Progressive farmer, expressed the need to produce the VAM and other related organic manures at the KVK itself.	Steps were taken to produce VAM, Arka Microbial Consortium, Bio digester liquid and other organic products.
19.				Radio Siddhartha (90.8 F.M) said that information can be disseminated through Radio Siddhartha, since it covers almost four taluks of Tumkur district.	Radio Siddhartha was invited to cover proceedings of District level Food Processing workshop and Betel vine interaction meet.
20.				Intervention has to be taken to manage /control bacterial blight in pomegranate	Proposal on Demonstration to manage /control bacterial blight in pomegranate has been submitted to NHB

PART II - DETAILS OF DISTRICT

2.1 Major farming systems/enterprises (based on the analysis made by the KVK)

S. 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)

S. No	Agro-climatic Zone	Characteristics
1.	Central Dry Zone (Zone IV) Taluks: Koratgere, Madhugiri, Sira, Pavagada	• 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	• 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

S. 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

S. No	Soil type	Characteristics	Area in ha
	Red Sandy Loam	• 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
	Red Loam	• 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
	Shallow Black Soil	• Colour varying from dark brown to dark yellowish brown • Soil with more than 35 per cent clay and crack when dry.	2, 45,432

		• 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	

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

S. No	Crop	Area (ha)	Production (Qtl)	Productivity (Qtl /ha)
1	Rice	10578	38892	3677
2	Jowar	2225	1176	528
3	Ragi	175024	232364	1328
	Maize	24987	59542	2383
4	M.Millets	3428	1381	403
5	Redgram	13317	5020	377
6	Black gram	1047	132	126
7	Horsegram	11713	3290	281
8	Avare	9754	2636	270
9	Greengram	11131	1824	164
10	Cowpea	4124	1263	306
11	Groundnut	84237	35827	425
12	Sesamum	345	57	164
13	Sunflower	736	788	1071
14	Castor	2290	780	340
15	Niger	1377	233	169
16	Mustard	706	109	155
17	Cotton	695	3607	5
18	Sugarcane	646	54884	85

(Source: Dept of Agriculture, Tumkur)

2.5. Weather data

Month	Rainfall (mm)	Temperature ^{0} C		Relative Humidity (%)
		Maximum	Minimum	
April 13	20.75	35.64	20.27	88.07
May 13	122.75	33.83	20.87	91.26
June 13	71.25	28.34	20.17	92.47
July 13	55.0	26.79	20.09	91.48
August 13	66.25	27.14	19.95	92.68
September 13	253.25	27.67	19.53	98.2
October 13	25.75	28.28	19.55	97.58
November 13	74.00	28.35	17.04	94.9
December 13	0.00	27.92	13.92	85.42
January 14	14.21	29.18	15.03	80.16
February 14	16.60	30.83	16.66	71.93
March 14	20.81	32.95	17.65	75.26

*** Source: Automatic weather station at Hirehalli 2013-14 (NICRA, CRIDA)**

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

Category	Population	Production	Productivity
Cattle			
Crossbred	63704	54	5.5745
Indigenous	440888	56	2.0671
Buffalo	217528	68	2.5382
Sheep	**meat 000 tons**		
Crossbred	9		--
Indigenous	884643	17.31	--
Goats	322373	16.60	--
Pigs			
Crossbred	905	0.23	--
Indigenous	12411		--
Rabbits	560	NA	--
Poultry	**egg production in lakhs**		
Hens		--	--
Desi	6,42,382	273	--
Improved		71	--
Ducks			
Turkey and others			

Category	Area	Production	Productivity
Fish			
Marine			
Inland	1306 ha	16,000 metric ton	650-700 kg/ha
Prawn			
Scampi			
Shrimp			

* Please provide latest data from authorized sources. Please quote the source

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

2.8 Details of Operational area / Villages

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	Udigere Haraluru Belgumba	, Nagasandra, Udigere Hirehalli, Haraluru, Sangapura, Kolihalli, Chikkahalli, Hebburu Belgumba, Hiregundagal, Anupanahalli, Yallapura,Honnudike,	2 years	Groundnut, Maize, Paddy, Ragi, Redgram, Tomato, Brinjal, Mango,Sapota, Arecanut, Coconut, Banana Aster,Dairy	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	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		D, Nagenahlli, Hosapalya, Baichanahalli, Vaddarahalli, Eairaksandra, Haronahalli Mallasandra, Balenahalli	2 years	Maize, Paddy, Ragi, Redgram, Tomato, Sunflower, Banana, Groundnut, Mango, Sapota, Arecanut, Coconut, Aster, Dairy, Frenchbean, Brinjal & Marigold.	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.Drudgery 15. Shoot and fruit Borer, Bacterial blight in Brinjal.	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.Drudgery reduction
3.	Madhugiri		Buduvanahalli, Somapura ,Dabbegatta	2 years			

4.	Pavagada		Venkatapur, Arasikere, Hanmantahpura		Groundnut, Sunflower, Ragi, Maize, Paddy, Redgram, Tomato, Brinjal & Dairy,	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	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.

5.	Sira		Sakshihalli, Bukkapattana, Tuppadakona,Kumbarhalli,Ramalingapura, Honnagundanahalli,Kallambal, Sakshihalli, Bukkapattana, Tuppadakona, Kumbarhalli, Ramalingapura,		Groundnut, Maize, Paddy, Ragi, Cotton, Redgram, Vegetables Mango, Sapota, Arecanut, Coconut, Aster, Dairy & Brinjal	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	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

2.9 Priority thrust areas

S. 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 and Value addition
12.	Child and women care and balanced nutrition
13.	Integrated Cropping System
14.	Propagation Techniques and Post Harvest in Fruits and Vegetables.

ART 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
03	02	09	06	19	18	120	115

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
64	46	2220	1946	680	1232	10850	5721

Seed Production (Qtl.)		Planting materials (Nos.)	
5		6	
Target	Achievement	Target	Achievement
19.60	11.68	1.5 Lakh numbers	136605

Livestock, poultry strains and fingerlings (No.)		Bio-products (Kg)	
7		8	
Target	Achievement	Target	Achievement
		4700	15946

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

Sl. No.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions										
				Title of OFT if any	Title of FLD if any	Number of Training (farmers)	Number of Training (Youths)	Number of Training (extension personnel)	Extension activities (No.)	Supply of seeds (Qtl.)	Supply of planting materials (No.)	Supply of livestock (No.)	Supply of bio products	
													No.	Kg
1.	Dryland farming	**Paddy**	Limited water		Combating Drought Vulnerability by Aerobic paddy cultivation MAS-26	01			04	0.07			2	8
2.	High yielding variety and cropping system	Ragi	Mono cropping		Addressing Drought Vulnerability by Drought tolerant Ragi ML -365	2			6	1.25			2	20
3.	ICM	Redgram	Low yield due to seed drill sowing		Enhancement of Red gram yield through demonstration of BRG-1 variety	2			5	1.5				
4.	ICM	Banana	1.Low plant population 2.Low yield & income		Demonstration of High density planting of Banana-	3			4		5400		-	-
5.	High Yielding variety	Papaya	Low Yield	-	Demonstration of High yielding variety Arka Prabhat in Papaya				4		4000		-	-
6.	Dryland farming	Jamoon	Water Scarcity		Demonstration of Dry land Horticulture crop	2			4		400			
7.	INM	Arecanut	1.Splitting of nuts and low yield	-	Management of nut splitting in Arecanut -	5			6	-	-		-	-

8.	ICM	Arecanut	Inefficient use of land, weed menace, low soil fertility, lower income	Assessment of Areca nut - French bean intercropping system for high soil fertility and higher income	-	-	-	-	-	-				
9.	ICM	Mango	Inefficient use of land, weed menace, low soil fertility, lower income	Assessment of Redgram:Green gram (1:4) as a intercrop in Mango orchard for climate resilient agriculture	-	-	-	-	-	-				
10.	IDM	Coconut	Basal stem rot **(Ganoderma wilt)**		Management of Basal stem rot **(Ganoderma wilt)** in Coconut				10				1	500
11.	INM	Tomato	1.Low nutrient use efficiency	-	Cost effective Arka Microbial consortium for tomato production	2			5	-			1	10
12.	ICM		Water Scarcity & Weed Menace	-	Use of Polythene mulch in tomato	4			5					
13.	IDM	Vegetables	Damping of f Low seedling vigour	-	Demonstration of Seedpro – A microbial plant growth promoter against soil borne pathogens in Solanaceous	1			5				1	2
14.	IPM	Brinjal	Shoot and fruit borer		Bio- intensive Management Brinjal Shoot and fruit borer	1			10				2	500 trico cards 250 Ml

15.	Variety introduction	Brinjal	Wilt & low yield		Introduction of Arka Anand hybrid	2				0.0075				
16.	IPM	Mango	Mango Fruit Fly		Cost effective Eco friendly management of fruit fly through pheromone traps in Mango	-			10				1	50 Nos
17.			Stem Borer		Management of Mango Stem Borer by Sealer cum Healer	-			5				1	15
18.	Sustainable Farm Income through Seed Production	French Bean	Low quality seed	-	Seed production of French bean Var. Arka Suvidha	1			4	1.5				
19.	Processing and Value addition	Mango	Post Harvest Losses		Demonstration on Mango Harvester, ripening chamber and Packing	-	-		3					
20.	Processing and Value addition	Ragi	Low income without value Addition		Value Addition, Labelling & Branding of Ragi Products	2	-	-	2	-	-	-	-	-
21.	Processing and Value addition	Amla	Low income without value Addition		Amla :Value Addition, Branding and Market Linkage	4	-	-	2	-	-	-	-	-

3.B2. Details of technology used during reporting period

Sl.No.	Title of Technology	Source of technology	Crop/enterprise	No .of programmes conducted			
				OFT	FLD	Training	Others (Specify)
1	2	3	4	5	6	7	8
1.	Combating Drought Vulnerability by Aerobic paddy cultivation MAS-26	UAS, Bangalore	Paddy		10	1	
2.	Addressing Drought Vulnerability by Drought tolerant Ragi ML -365	UAS,Bangalore	Ragi		10	2	
3.	Enhancement of Red gram yield through demonstration of BRG-1 variety	UAS, Bangalore	Redgram		10	2	
4.	Demonstration of High density planting of Banana-	NRC, Tirachi	Banana		5	3	
5.	Demonstration of High yielding variety Arka Prabhat in Papaya	IIHR,Bangalore	Papaya		4		
6.	Demonstration of Dry land Horticulture crop	UHS,Bagalkote	Jamoon		5	2	
7.	Management of nut splitting in Arecanut	CPCRI, Kasaragod	Arecanut		12	5	
8.	Assessment of Areca nut -French bean intercropping system for high soil fertility and higher income	CPCRI, Kasaragod	Arecanut	3		-	
9.	Assessment of Redgram:Greengram (1:4) as a intercrop in Mango orchard for climate resilient agriculture	IIHR,Bangalore,	Mango	3	-	-	
10.	Management of Basal stem rot (Ganoderma wilt) in Coconut	CPCRI, Kasaragod	Coconut		5	-	
11.	Cost effective Arka Microbial consortium for tomato production	IIHR,Bangalore,	Tomato		10	2	
12.	Use of Polythene mulch in tomato	IIHR,Bangalore,	Tomato		5	4	
13.	Demonstration of Seedpro – A microbial plant growth promoter against soil borne pathogens in Solanaceous	IIHR,Bangalore,	Brinjal		10		
14.	Bio- intensive Management Brinjal Shoot and fruit borer	IIHR,Bangalore,	Brinjal		10	1	
15.	Introduction of Arka Anand hybrid	IIHR,Bangalore	Brinjal		6	2	
16.	Cost effective Eco friendly management of fruit fly through pheromone traps in Mango	IIHR,Bangalore	Mango		15		
17.	Management of Mango Stem Borer by Sealer cum Healer	IIHR,Bangalore,	Mango				
18.	Seed production of French bean Var. Arka Suvidha	IIHR,Bangalore	French bean		10	1	
19.	Demonstration on Mango Harvester, ripening chamber and Packing	IIHR,Bangalore	Mango		5		
20.	Value Addition, Labelling & Branding of Ragi Products	UAS, Bangalore	Ragi		2 SHGs	2	
21.	Amla :Value Addition, Branding and Market Linkage	UAS, Bangalore	Amla		2 SHGs	3	

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**
				6		4		44	4	3	2				
				8		2		58	2	7	1				
				8		2		12	5	4	3				
				5				124		31					
				3		1									
				5				46	25	2	11				
				9		3		162	9	23					
3															
3															
				5											
				8	2			53	43	6	7				
				4	1			73	8	14					
				7		3									
				9		1		23	3	4					
				5		1		26	1	4					
				13		2									
				5											
				9		1		22		6					
				4		1									
					2 SHG			4	28	1	13				
					2 SHG			6	77	1	15				

PART IV - On Farm Trial

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Integrated Nutrient Management										
Varietal Evaluation										
Integrated Pest Management										
Integrated Crop Management						1		1		2
Integrated Disease Management										
Small Scale Income Generation Enterprises										
Weed Management										
Resource Conservation Technology										
Farm Machineries										
Integrated Farming System										
Seed / Plant production										
Value addition										
Drudgery Reduction										
Storage Technique										
Mushroom cultivation										
Total						**1**		**1**		**2**

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Integrated Nutrient Management										
Varietal Evaluation										
Integrated Pest Management										
Integrated Crop Management										
Integrated Disease Management										
Small Scale										

Income Generation Enterprises										
Weed Management										
Resource Conservation Technology										
Farm Machineries										
Integrated Farming System										
Seed / Plant production										
Value addition										
Drudgery Reduction										
Storage Technique										
Mushroom cultivation										
Total										

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

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

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

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

4. B. Achievements on technologies Assessed and Refined

4. B.1. Technologies Assessed under various Crops

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha (Per trail covering all the Technological Options)
Integrated Nutrient Management					
Varietal Evaluation					
Integrated Pest Management					
Integrated Crop Management	Areca nut - French bean	Assessment of Areca nut -French bean intercropping system for high soil fertility and higher income and higher income	3	3	0.8ha
	Mango-Redgram+Greengram	Assessment of Redgram:Greengram (1:4) as a intercrop in Mango orchard for climate resilient agriculture	3	3	0.8ha
Integrated Disease Management					
Small Scale Income Generation Enterprises					
Weed Management					
Resource Conservation Technology					
Farm Machineries					

Integrated Farming System					
Seed / Plant production					
Value addition					
Drudgery Reduction					
Storage Technique					
Mushroom cultivation					
Total			**06**	**06**	**1.6 ha**

4.B.2. Technologies Refined under various Crops

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha (Per trail covering all the Technological Options)
Integrated Nutrient Management					
Varietal Evaluation					
Integrated Pest Management					
Integrated Crop Management					
Integrated Disease Management					
Small Scale Income Generation Enterprises					
Weed Management					
Resource Conservation Technology					
Farm Machineries					
Integrated Farming System					
Seed / Plant production					
Value addition					
Drudgery Reduction					
Storage Technique					
Mushroom cultivation					
Total					

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

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials	No. of farmers
Evaluation of breeds				
Nutrition management				
Disease management				
Value addition				
Production and management				
Feed and fodder				
Small scale income generating enterprises				
Total				

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

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials	No. of farmers
Evaluation of breeds				
Nutrition management				
Disease management				
Value addition				
Production and management				
Feed and fodder				
Small scale income generating enterprises				
Total				

4. C1. Results of Technologies Assessed

Results of On Farm Trial

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	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	Inefficient use of space, weed menace, low soil fertility, lower income from mono cropping	Assessment of Areca nut -French bean intercropping system for high soil fertility and higher income	03	TO 1: Arecanut sole cropping	TO1: **Arecanut yield** Before Soil fertility status of the plot	1.12 t/ha/year Poor (N : 174 mg/kg P : 6.7 mg/kg K : 121 mg/kg) Organic Carbon (%) : 0..23	TO3 : Recorded Highest production and income per unit area and increase in the organic carbon content	Farmers expressed the higher income obtained from adoption of French bean as intercrop with improved soil fertility status during Rabi /summer	-	-
					TO 2: Arecanut + Vegetable Cowpea	TO2: Cowpea parameter Plant height. (cm) No. of pods/plant (No.) Length of pods (cm) Cowpea yield t/ha After Soil fertility status **Arecanut Parameter** :	 60cm 54 15 cm 2.6 Improved (N : 302 mg/kg P : 7.5 mg/kg K : 165 mg/kg) Organic Carbon (%) : 0.70 1.17t/ha/year				
					TO 3: Arecanut + Vegetable French bean	TO3: French bean parameter Plant height. (cm) No. of pods/plant (No.) Length of pods (cm) French bean yield t/ha After Soil fertility status **Arecanut Parameter**	 45 42 13 3.8 Improved (N : 308 mg/kg P : 8.4 mg/kg K : 181 mg/kg) Organic Carbon (%) : 0.75 1.21 t/ha/year				

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)	FP	Arecanut yield : 1.12	t/ha/year	1,06,000	2.70
Technology option 2	UAS (B)	Arecanut yield : 1.17 Cowpea yield : 2.60	t/ha/year t/ha	1,31,500	2.87
Technology option 3	CPCRI, Kasargod	Arecanut yield : 1.21 French bean : 3.80	t/ha/year t/ha	1,54,100	3.11

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 Areca nut -French bean intercropping system for high soil fertility and higher income
2. Problem Definition : Inefficient use of land, weed menace, low soil fertility, lower income
3. Details of technologies selected for assessment :

Technology option 1 (Farmer's practice): Mono cropping
Technology option 2 : Areca nut + Vegetable Cowpea(0.8 ha)
Technology option 3 : Areca nut + Vegetable French bean (0.8ha)

4. Source of technology : **TO1:** FP **TO2:** UAS (B) **TO3:** CPCRI, Kasargod
5. Production system and thematic area : Irrigated and Cropping system
6. Performance of the Technology with performance indicators :

   TO1: Arecanut yield: 1.12 t/ha/year

   TO2: Arecanut yield: 1.17 t/ha/year + Cowpea yield: 2.60 t/ha

   TO3: Arecanut yield: 1.21 t/ha/year + French bean yield: 3.80 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 : Highest bio mass production and income per unit area and increased in the organic carbon content in To3

9. Constraints identified and feedback for research : Low market demand on vegetable cowpea
10. Process of farmers participation and their reaction : Group discussion and positive reaction by the farmers participation

2 .Mango												
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
Mango	Rainfed	Low soil fertility, Monocropping, Lower income	Assessment of Red gram: Green gram (1:4) as a intercrop in Mango orchard for climate resilient agriculture	03	Mango Sole crop Mango + Horsegram Mango + Red gram - Green gram (1:4)	Yield q/ha Before Soil test Yield q/ha of intercrop After Soil test Yield q/ha of intercrops After Soil test	Technology Option I	Poor (N : 170 mg/kg P : 7.7 mg/kg K : 128 mg/kg) Organic Carbon (%) : 0..33	Ongoing			-
							Technology Option II	6.2 (N : 180 mg/kg P : 8.7 mg/kg K : 142 mg/kg) Organic Carbon (%) : 0..42				
							Technology Option III	1.7+7.4 (N : 184 mg/kg P : 9.4 mg/kg K : 150 mg/kg) Organic Carbon (%) : 0..63				-

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	UAS B	6.2 q/ha			
Technology option 3	IHR Bangalore	1.7 +7.4 q/ha			
Technology option 4					

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 Red gram: Green gram (1:4) as a intercrop in Mango orchard for climate resilient agriculture
2. Problem Definition : Low soil fertility, Mono-cropping, Lower income
3. Details of technologies selected for assessment :

Technology option 1 (Farmer's practice):
Technology option 2 : Mango + Horsegram
Technology option 3 : Mango + Red gram - Green gram (1:4)

4. Source of technology : UASB and IIHR Bangalore
5. Production system and thematic area :
6. Performance of the Technology with performance indicators :

Technology option 1 (Farmer's practice): -
Technology option 2 : Mango + Horsegram : 6.2 q/ha
Technology option 3 : Mango + Red gram +Green gram (1:4) : 1.7 +7.4 q/ha

7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques :
8. Final recommendation for micro level situation : On going
9. Constraints identified and feedback for research : -
10. Process of farmer's participation and their reaction : Group discussion and positive reaction by the farmers participation

4.D1. Results of Technologies Refined

Results of On Farm Trial

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

Contd..

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

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

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

PART V - FRONTLINE DEMONSTRATIONS

5.A. Summary of FLDs implemented during 2013-14

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	
	Oilseeds													
1	Pulses	Rainfed	Kharif 2013	Redgram	BGR-1		ICM	Enhancement of Red gram yield through demonstration of BRG-1 variety	5	5	2	8	10	
2	Cereals	Rainfed	Kharif 2013	Paddy	MAS-26		ICM	Combating drought vulnerability by Aerobic paddy cultivation	2	2	4	6	10	
3	Millets	Rainfed	Kharif 2013	Ragi	ML-365		Drought Mitigation	Addressing Drought Vulnerability by Drought tolerant Ragi ML -365	5	5	2	8	10	
4			Summer 2014					Value Addition, Labelling & Branding of Ragi Products	2 SHGs	2 SHGs		2	2	
5	Vegetables	Irrigated	Kharif 2013	Tomato		Private Hyd. Seed	INM	Cost effective Arka Microbial consortium for tomato production	2	2	-	10	10	
6		Irrigated	Summer 2014				ICM	Use of Polythene mulch in tomato	1	1		5	5	
7		Irrigated	Summer 2014	Vegetables		Arka Samrat	IDM	Demonstration of Seedpro – A microbial plant growth promoter against soil borne pathogens in Solanaceous vegetable crops	1	1	3	7	10	
8		Irrigated	Kharif 2013	Brinjal	Arka Shirish		IPM	Bio- intensive Management Brinjal Shoot and fruit borer	1	1	1	9	10	
9		irrigated			Arka Anand hybrid		Variety introduction	Introduction of Arka Anand hybrid	1	1	1	5	6	
10				Frenchbean	Arka Suvidha		Sustainable Farm	Seed production of French bean Var.	2	2	1	9	10	

							Income through Seed Production	Arka Suvidha						
	Flowers													
	Ornamental													
11	Fruit s	Irrigated	Kharif 2013	Banana	G-9, Yallakki		ICM	Demonstration of High density planting of Banana	1	1		5	5	
12		Irrigated	Kharif 2013	Papaya	Arka Prabhat		Variety Introduction	Demonstration of High yielding variety Arka Prabhat in Papaya	1	1	1	3	4	
13				Jamoon				Demonstration of Dry land Horticulture crop	1	1		5	5	
14				Mango			IPM	Cost effective Eco friendly management of fruit fly through pheromone traps in Mango	5	5	2	13	15	
15								Management of Mango Stem Borer by Sealer cum Healer	1	1		5	5	
16							Drudgery Reduction & PHT	Mango Harvester, Ripening chamber and Packing	5 Nos	5 Nos		5	5	
17				Amla	NA-7			Amla :Value Addition, Branding and Market Linkage	2 SHGs	2SHGs		2	2	
	Spices and condiments													
	Commercial													
	Medicinal and aromatic													

	Fodder													
18	Plantation	Rainfed/ Irrigated	Kharif 2013	Arecanut	Hirehalli Tall		INM	Management of nut splitting in Arecanut -	2	2	3	9	12	
19		Rainfed	Summer	Coconut	Aresikere tall		IDM	Management of Basal stem rot (*Ganoderma wilt)* in Coconut	2.5	2.5		5	5	
	Fibre													
	Dairy													
	Poultry													
	Rabbitry													
	Pigerry													
	Sheep and goat													
	Duckery													
	Common carps													
	Mussels													
	Ornamental fishes													
	Oyster mushroom													

	Button mushroom													
	Vermicompost													
	Sericulture													
	Apiculture													
	Implements													

5.A. 1. Soil fertility status of FLDs plots during 2013-14

Sl. No.	Category	Farming Situation	Season and Year	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Season and year	Status of soil			Previous crop grown
										N	P	K	
	Oilseeds												
1	Pulses	Rainfed	Kharif 2013	Redgram	BRG-1		ICM	Enhancement of Red gram yield through demonstration of HYV BRG-4	Kharif 2013	M	M	L	Ragi
2	Cereals	Rainfed	Kharif 2013	Paddy	MAS-26		ICM	Combating drought vulnerability by Aerobic paddy cultivation	Kharif 2013	M	L	M	Ragi
3	Millets	Rainfed	Kharif 2013	Ragi	ML-365		Drought Mitigation	Addressing Drought Vulnerability by Drought tolerant Ragi ML -365	Kharif 2013	M	L	M	Cowpea
4								Value Addition, Labelling & Branding of Ragi Products	Summer 2014	-	-	-	-
5	Vegetables	Irrigated	Kharif 2013	Tomato		Private Hyd. Seed	INM	Cost effective Arka Microbial consortium for tomato production	Kharif 2013	L	L	M	Aster
6		Irrigated	Summer 2014					Use of Polythene mulch in	Summer 2014	M	L	M	Ragi

								tomato					
7		Irrigated	Summer 2014	Vegetables		Arka Samrat	ICM	Demonstration of Seedpro – A microbial plant growth promoter against soil borne pathogens in Solanaceous vegetable crops	Summer 2014	M	L	M	Redgram
8		Irrigated	Kharif 2013	Brinjal	Arka Shirish		IPM	Bio- intensive Management Brinjal Shoot and fruit borer	Kharif 2013	M	M	L	Aster
9		Irrigated	Kharif 2013	Brinjal	Arka Anand		HYV	Introduction of wilt resistance Arka Ananda	Kharif 2013	M	M	L	-
10		Irrigated	Rabi 2013	French bean	Arka Suvidha		Sustainable Farm Income through Seed Production	Seed production of French bean Var. Arka Suvidha	Rabi 2013	M	L	M	Ragi
	Flowers												
	Ornamental												
11	Fruit	Irrigated	Rabi 2013	Banana		G-9	ICM	Demonstration of High density planting of Banana	Rabi 2013	M	M	L	Aster
12		Irrigated	Kharif 2013	Papaya		Arka Prabhat	HYV	Demonstration of High yielding variety Arka Prabhat in Papaya	Kharif 2013	M	L	M	Ragi
13		Rainfed	Rabi 2013	Jamoon	Gokak		HYV	Demonstration of Dry land Horticulture crop	Rabi 2013	M	L	M	Ragi
14		Rainfed	Summer 2014	Mango	Alphanso		IPM	Cost effective Eco friendly management of fruit fly through pheromone traps in Mango	Summer 2014	M	L	L	-
15		Rainfed	Summer 2014	Mango	Alphanso		IPM	Management of Mango Stem Borer by Sealer cum Healer	Summer 2014	M	L	L	-
16		Rainfed	Summer 2014	Mango	Alphanso		PHT	Mango Harvester, Ripening chamber and Packing	Summer 2014	-	-	-	-
17		Rainfed	Summer 2014	Amla	NA7		PHT	Amla :Value Addition, Branding and Market Linkage	Summer 2014				
	Spices and condiments												

	Commercial												
	Medicinal and aromatic												
	Fodder												
18	Plantation	Irrigated	Kharif 2013	Arecanut	Local variety		INM	Management of nut splitting in Arecanut -	Kharif 2013	M	L	M	-
19		Rainfed	Kharif 2013	Coconut	Arsikere		IDM	Management of *Ganoderma* wilt in coconut	Kharif 2013	M	L	M	-
	Fibre												

5.B. Results of Frontline Demonstrations

5.B.1. Crops

Crop	Name of the technology demonstrated	Variety	Hybrid	Farming situation	No. of Demo.	Area (ha)	Yield (q/ha)				% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
							Demo			Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
							H	L	A										
Oilseeds																			
Pulses	Enhancement of Red gram yield through demonstration of HYV BRG-1	BRG-1		Rainfed	10	5	16.8	14.2	14.8	13.2	12.12	22500	62000	39500	2.75	25400	55000	29600	2.1
Cereals	Combating drought vulnerability by Aerobic paddy cultivation	MAS-26		Rainfed	10	2	42.2	32.2	37.3	33.1	12.69	19580	39980	20400	2.04	17450	24450	7000	1.4

Millets	Addressing Drought Vulnerability by Drought tolerant Ragi ML -365	ML-365		Rainfed	10	5	30.2	19.2	24.3	18.7	29.95	14550	29160	14610	2.0	13450	22440	9000	1.66
	Value Addition, Labelling & Branding of Ragi Products	ML-365		Rainfed	2 SHGs	2 SHGs			On going										
Vegetables	Cost effective Arka Microbial consortium for tomato production		Private Hyd. Seed	Irrigated	10	2	522	413	515	443	16.25	65000	206000	141000	3.16	62500	177200	114700	2.8
	Use of Polythene mulch in tomato		Private Hyd. Seed	Irrigated	5	1			On going										
	Demonstration of Seedpro – A microbial plant growth promoter against soil borne pathogens in Solanaceous vegetable crops		Arka Samrat	Irrigated	10	1	262	220	250	210	19.05	38580	125000	86420	3.24	38500	105000	66500	2.72

	Bio-intensive Management Brinjal Shoot and fruit borer	Arka Shirish		Irrigated	10	5	289	188	283.6	178.9	58.52	39840	170160	130320	4.27	37450	107340	69890	2.86
	Introduction of Arka Anand hybrid in Brinjal	Arka Anand		Irrigated	6	1	216	196	204	182	12.09	39850	132600	92750	3.32	37550	100100	62550	2.66
	Seed production of French bean Var. Arka Suvidha	Arka Suvidha		Irrigated	10	2	On going												
Flowers																			
Ornamental																			
Fruit	Demonstration of High density planting of Banana	G9		Irrigated	5	1	On going												
	Demonstration of High yielding variety Arka Prabhat in Papaya	Arka Prabhat		Irrigated	3	1	On going												
	Demonstration of Dry land Horticulture crop	Gokak		Rainfed	5	1	On going												

	Cost effective Eco friendly management of fruit fly through pheromone traps in Mango	Alphanso		Rainfed	15	5	On going											
	Management of Mango Stem Borer by Sealer cum Healer	Alphanso		Rainfed	5	1	On going											
	Mango Harvester, Ripening chamber and Packing	Alphanso		Rainfed	5	2		Ongoing										
	Amla :Value Addition, Branding and Market Linkage			Rainfed	2SHGs	2SHGs		Ongoing										
Spices and condiments																		
Commercial																		

Fibre crops like cotton																			
Medicinal and aromatic																			
Fodder																			
Plantation	Management of Nut Splitting in Arecnut	Local		Irrigated	12	2	12.2	10.2	10.9	9.6	13.54	37520	180200	142680	4.8	37520	163200	125680	4.34
	Manag16ement of Basal stem rot (*Ganoderma wilt*) in Coconut	Arsikere		Rainfed	5	2.5	7440 Nuts	5680 nuts	7280 nuts	5630 nuts	29.31	43200	80080	36880	1.85	38500	61600	23100	1.60
Fibre																			
Others (pl.specify)																			

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST
H – Highest Yield, L – Lowest Yield A – Average Yield

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

Data on other parameters in relation to technology demonstrated		
Parameter with unit	**Demo**	**Check**
Plant height cm	**159**	**151**
Tillers/ plant Numbers	42	29
Panicle weight grams	28	19
Seedling root length cm	7.1	4.9
Plant height cm	68.2	48.2
Damping off Per cent	8.2	34.5
Per cent shoot infestation %	4.89	28.9
No of fruits /plant Numbers	28	18
Plant height Feet	5.2	5.8
No of fruits /plant Numbers	60	35
Plant height cm	3.9	-
Trapped adult fruit flies Numbers	37	-
No of grabs present, numbers	2	9
No of nuts /bunch, Numbers	350	308
Disease incidence, Per cent	12	28

5.B.2. Livestock and related enterprises

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

Pigerry																	
Sheep and goat																	
Duckery																	
Others (pl.specify)																	

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST

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

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

5.B.3. Fisheries

Type of Breed	Name of the technology demonstrated	Breed	No. of Demo	Units/ Area (m^2)	Yield (q/ha)				% Increase	*Economics of demonstration Rs./unit) or (Rs./m2)				*Economics of check Rs./unit) or (Rs./m2)			
					Demo			Check if any		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					H	L	A										
Common carps																	
Mussels																	
Ornamental fishes																	
Others (pl.specify)																	

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST
H-High L-Low, A-Average

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

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

5.B.4. Other enterprises

Enterprise	Name of the technology demonstrated	Variety/ species	No. of Demo	Units/ Area {m^2}	Yield (q/ha)				% Increase	*Economics of demonstration (Rs./unit) or (Rs./m2)				*Economics of check (Rs./unit) or (Rs./m2)			
					Demo			Check if any		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					H	L	A										
Oyster mushroom																	
Button mushroom																	
Vermicompost																	
Sericulture																	
Apiculture																	
Others (pl.specify)																	

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

** BCR= GROSS RETURN/GROSS COST

H-High L-Low, A-Average

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

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

5.B.5. Farm implements and machinery

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

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST

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

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

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

Sl.No.	Activity	No. of activities organised	Number of participants	Remarks
1	Field days	4	188	
2	Farmers Training	30	1016	
3	Media coverage	04	-	
4	Training for extension functionaries	-		
5	Others (Please specify)	-		

PART VI – DEMONSTRATIONS ON CROP HYBRIDS

Demonstration details on crop hybrids

Type of Breed	Name of the technology demonstrated	Name of the hybrid	No. of Demo	Area (ha)	Yield (q/ha)				% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demo			Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					H	L	A										
Cereals																	
Bajra																	
Maize																	
Paddy																	
Sorghum																	
Wheat																	
Others (pl.specify)																	
Total																	
Oilseeds																	
Castor																	
Mustard																	
Safflower																	
Sesame																	
Sunflower																	
Groundnut																	
Soybean																	
Others (pl.specify)																	
Total																	
Pulses																	
Greengram																	
Blackgram																	
Bengalgram																	
Redgram																	
Others (pl.specify)																	

Total																	
Vegetable crops																	
Bottle gourd																	
Capsicum																	
Others (pl.specify)																	
Total																	
Cucumber																	
Tomato	Cost effective Arka Microbial consortium for tomato production	Private hybrid	10	2	522	413	515	443	16.25	65000	206000	141000	3.16	62500	177200	114700	2.8
	Use of Polythene mulch in tomato	Private hybrid	5	1	Ongoing												
	Demonstration of Seedpro – A microbial plant growth promoter against soil borne pathogens in Solanaceous	Arka Samrat	10	1	262	220	250	210	19.05	38500	125000	86500	3.24	38580	105000	66420	2.72
Brinjal	Introduction of Arka Anand hybrid	Arka Anand	6	1	216	196	204	182	12.09	39850	132600	92750	3.32	37550	100100	62550	2.66
Okra																	
Onion																	
Potato																	
Field bean																	
Others (pl.specify)																	

Total																		
Commercial crops																		
Sugarcane																		
Coconut																		
Others (pl.specify)																		
Total																		
Fodder crops																		
Maize (Fodder)																		
Sorghum (Fodder)																		
Others (pl.specify)																		
Total			31	5														

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production										
Weed Management										
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming	01	14	0	14	0	0	0	14	0	14
Micro Irrigation/Irrigation										
Seed production										
Nursery management										
Integrated Crop Management	03	11	2	13	54	52	106	66	54	120
Soil and Water Conservation	02	47	3	50	2	1	3	49	4	53
Integrated Nutrient Management										
Production of organic inputs										
Production and productivity of crops	01	21	25	46	1	11	12	22	36	58
Horticulture										
a) Vegetable Crops										
Production of low value and high volume crop										
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation	01	25	0	25	16	0	16	41	0	41
Others (pl.specify)										
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit										
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques	01	15	8	23			0	15	8	23

Others (pl.specify)										
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl.specify) Commercial floriculture	01	63	0	63	13	0	13	76	0	76
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
f) Spices										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology	01	15	5	20	0	0	0	15	5	20
Post harvest technology and value addition										
Others (pl.specify)										
Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated nutrient management										
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient use efficiency										
Balanced use of fertilizers										
Soil and water testing										
Others (pl.specify)										
Livestock Production and Management										

Dairy Management										
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Animal Disease Management	01	22	0	22	0	0	0	22	0	22
Feed and Fodder technology										
Production of quality animal products										
Others (pl.specify)										
Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening										
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing										
Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition										
Women empowerment	01	05	26	31	0	0	0	5	26	31
Location specific drudgery production										
Rural Crafts										
Women and child care										
Others (pl.specify) processing and value addition	01	0	25	25	0	0	0	0	25	25
Agril. Engineering										
Farm machinery and its maintenance										
Installation and maintenance of micro irrigation systems										
Use of Plastics in farming practices										
Production of small tools and implements										
Repair and maintenance of farm machinery and implements										
Small scale processing and value addition										
Post Harvest Technology	02		40	40		7	7	0	47	47
Others (pl.specify)										
Plant Protection										
Integrated Pest Management										

Integrated Disease Management										
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others (pl.specify)										
Fisheries										
Integrated fish farming										
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture										
Hatchery management and culture of freshwater prawn										
Breeding and culture of ornamental fishes										
Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
Others (pl.specify)										
Production of Inputs at site										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production										
Organic manures production										
Production of fry and fingerlings										
Production of Bee-colonies and wax sheets										
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
Mushroom production	01	17	5	22	0	0	0	17	5	22
Apiculture										
Others (pl.specify)										
Capacity Building and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of										

SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
Others (pl.specify)										
Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (Pl. specify)										
TOTAL	**17**	**255**	**139**	**394**	**86**	**71**	**157**	**341**	**225**	**566**

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

Area of training	**No. of Courses**	**No. of Participants**								
		General			**SC/ST**			**Grand Total**		
		Male	**Female**	**Total**	**Male**	**Female**	**Total**	**Male**	**Female**	**Total**
Crop Production										
Weed Management										
Resource Conservation Technologies										
Cropping Systems	01	54	8	62	2	0	2	56	8	64
Crop Diversification										
Integrated Farming	01	42	6	48	4	1	5	46	7	53
Micro Irrigation/Irrigation										
Seed production										
Nursery management										
Integrated Crop Management	02	34	5	39	10	3	13	44	8	52
Soil and Water Conservation	01	36	7	43	5	2	7	41	9	50
Integrated Nutrient Management										
Production of organic inputs										
Others (pl.specify) Production management technology	01	8	78	86	2	20	22	10	98	108
Horticulture										
a) Vegetable Crops										
Production of low value and high volume crop										
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation	01	35	12	47	5	2	7	40	14	54
Others (pl.specify)										

b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit	02	54	15	69	6	0	6	60	15	75
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (pl.specify)										
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl.specify)										
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
f) Spices										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (pl.specify)										
Soil Health and Fertility Management										
Soil fertility management	01	44	4	48	3	2	5	47	6	53
Integrated water management										

Integrated nutrient management										
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops	02	151	7	158	11	2	13	162	9	171
Nutrient use efficiency	01	51	3	54	2	0	2	53	3	56
Balanced use of fertilizers	01	29	5	34	3	1	4	32	6	38
Soil and water testing										
Others (pl.specify)										
Livestock Production and Management										
Dairy Management										
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Animal Disease Management										
Feed and Fodder technology										
Production of quality animal products										
Others (pl.specify)										
Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening										
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing										
Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition	01	0	27	27	0	0	0	0	27	27
Women empowerment										
Location specific drudgery production										
Rural Crafts										
Women and child care										
Others (pl.specify)										
Agril. Engineering										
Farm machinery and its maintenance										
Installation and maintenance of micro irrigation systems										

Use of Plastics in farming practices										
Production of small tools and implements										
Repair and maintenance of farm machinery and implements										
Small scale processing and value addition										
Post Harvest Technology										
Others (pl.specify)										
Plant Protection										
Integrated Pest Management	01	22	7	29	3	3	6	25	10	35
Integrated Disease Management	01	21	0	21	0	0	0	21	0	21
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others (pl.specify)										
Fisheries										
Integrated fish farming										
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture										
Hatchery management and culture of freshwater prawn										
Breeding and culture of ornamental fishes										
Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
Others (pl.specify)										
Production of Inputs at site										
Seed Production										
Planting material production										
Bio-agents production	01	23	0	23	0	0	0	23	0	23
Bio-pesticides production										
Bio-fertilizer production	01	47	2	49	4	1	5	51	3	54
Vermi-compost production										
Organic manures production										
Production of fry and fingerlings										
Production of Bee-colonies and wax sheets										
Small tools and implements										

Production of livestock feed and fodder										
Production of Fish feed										
Mushroom production	02	12	25	37	6	19	25	18	44	62
Apiculture										
Others (pl.specify)										
Capacity Building and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
Others (pl.specify) ICT application	01	49	5	54	3	1	4	52	6	58
Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (Pl. specify)										
TOTAL	**22**	**712**	**216**	**928**	**69**	**57**	**126**	**781**	**273**	**1054**

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**
Nursery Management of Horticulture crops										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition										
Small scale processing										
Post Harvest Technology										

Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Soil fertility and water management	01	6	5	11	8	14	22	14	19	33
TOTAL	**01**	**6**	**5**	**11**	**8**	**14**	**22**	**14**	**19**	**33**

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
Nursery Management of Horticulture crops										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition										
Small scale processing										
Post Harvest Technology										

Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl.specify)										
TOTAL										

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										
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production										
Household food security										

Any other (pl.specify)										
Total										

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
Productivity enhancement in field crops										
Integrated Pest Management										
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Any other (pl.specify) Natural Resources Management	03	70	8	78				70	8	78
Participatory rural appraisal	03	50	10	60	-	-	-	50	10	60
Total	**6**	**120**	**18**	**138**				**120**	**18**	**138**

7.G. Sponsored training programmes conducted

S.No.	Area of training	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
1	**Crop production and management**										
1.a.	Increasing production and productivity of crops										
1.b.	Commercial production of vegetables										
2	**Production and value addition**										
2.a.	Fruit Plants										
2.b.	Ornamental plants										
2.c.	Spices crops										
3.	**Soil health and fertility management Balance use of fertilizers**	01	29	5	34	3	1	4	32	6	38
4	**Production of Inputs at site**										
5	**Methods of protective cultivation**										
6	**Others (pl.specify)**										
7	**Post harvest technology and value addition**										

7.a.	Processing and value addition	01	0	25	25	0	0	0	0	25	25
7.b.	Others (pl.specify)										
8	**Farm machinery**										
8.a.	Farm machinery, tools and implements										
8.b.	Others (pl.specify)										
9.	**Livestock and fisheries**										
10	**Livestock production and management**										
10.a.	Animal Nutrition Management										
10.b.	Animal Disease Management										
10.c	Fisheries Nutrition										
10.d	Fisheries Management										
10.e.	Others (pl.specify)										
11.	**Home Science**										
11.a.	Household nutritional security										
11.b.	Economic empowerment of women										
11.c.	Drudgery reduction of women										
11.d.	Others (pl.specify) Women and child care	01	148	53	201	22	11	33	170	64	234
12	**Agricultural Extension**										
12.a.	Capacity Building and Group Dynamics										
12.b.	Others (pl.specify)										
	Total	**3**	**177**	**83**	**260**	**25**	**12**	**37**	**202**	**95**	**297**

Details of sponsoring agencies involved

1. Department of Agriculture
2. Department of Horticulture
3. Coconut Development Board
4. State marketing Department

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	**Crop production and management**										
1.a.	Commercial floriculture										
1.b.	Commercial fruit production										
1.c.	Commercial vegetable production										
1.d.	Integrated crop management										
1.e.	Organic farming										
1.f.	Others (pl.specify) Coconut Friends	03	46	0	46	14	0	14	60	0	60
2	**Post harvest technology and value addition**										
2.a.	Value addition										
2.b.	Others (pl.specify)										
3.	**Livestock and fisheries**										

3.a.	Dairy farming										
3.b.	Composite fish culture										
3.c.	Sheep and goat rearing										
3.d.	Piggery										
3.e.	Poultry farming										
3.f.	Others (pl.specify)										
4.	**Income generation activities**										
4.a.	Vermi-composting										
4.b.	Production of bio-agents, bio-pesticides, bio-fertilizers etc.										
4.c.	Repair and maintenance of farm machinery and implements										
4.d.	Rural Crafts										
4.e.	Seed production										
4.f.	Sericulture										
4.g.	Mushroom cultivation										
4.h.	Nursery, grafting etc.										
4.i.	Tailoring, stitching, embroidery, dying etc.										
4.j.	Agril. para-workers, para-vet training										
4.k.	Others (pl.specify)										
5	**Agricultural Extension**										
5.a.	Capacity building and group dynamics										
5.b.	Others (pl.specify)										
	Grand Total	**03**	**46**	**0**	**46**	**14**	**0**	**14**	**60**	**0**	**60**

PART VIII – EXTENSION ACTIVITIES

Extension Programmes (including extension activities undertaken in FLD programmes)

Nature of Extension Programme	No. of Programmes	No. of Participants (General)			No. of Participants SC / ST			No.of extension personnel		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	4	120	24	144	9	4	13	26	5	31
Kisan Mela	1	350	180	530	40	18	58	4	3	7
Kisan Ghosthi	1	40	20	60	5		5	5	4	9
Exhibition	6	2400	380	2780	178	146	324	15	8	23
Film Show	1	30	2	32			0	2		2
Method Demonstrations	4	60	12	72	4		4			0
Farmers Seminar//Workshop	3	120	15	135	15	8	23	15	5	20
Workshop										
Group meetings										
Lectures delivered as resource persons										
Newspaper coverage	22									
Radio talks	17									
TV talks	11									
Popular articles	01									
Extension Literature	01									
Advisory Services	325	240	102	342	54	30	84	10	4	14
Scientific visit to farmers field	4	12	4	16	6		6	2		2
Farmers visit to KVK	290	402	50	452	60	7	67			
Diagnostic visits	29	40	1	41	25		25	1		1
Exposure visits	1	20		20	3		3			
Ex-trainees Sammelan										
Soil health Camp										
Animal Health Camp	1	30	9	39	5		5	4		4
Agri mobile clinic										
Soil test campaigns										
Farm Science Club Conveners meet										
Self Help Group Conveners meetings										
Mahila Mandals Conveners meetings										
Celebration of important days (specify)	4	92	30	122	38	20	58			
Any Other (Specify) Special day celebrations	2	60	15	75	5	8	13			
Total	**728**	**4016**	**844**	**4860**	**447**	**241**	**688**	**84**	**29**	**113**

PART IX – PRODUCTION OF SEED, PLANT AND LIVESTOCK MATERIALS

9.A. Production of seeds by the KVKs

Crop category	Name of the crop	Variety	Hybrid	Quantity of seed (qtl)	Value (Rs)	Number of farmers to whom provided
Cereals (crop wise)	Finger millet	ML 365		200	8000	50
Oilseeds						
Pulses						
Commercial crops						
Vegetables						
Vegetable crops	Drumstick	PKM 1		0.045	11250	55
Vegetable crops	Frenchbean	Arka Suvidha		6.18	123600	60
Vegetable crops	Okra	Arka Anamika		0.26	10400	10
Vegetable crops	Frenchbean	Arka Komal		1.50	30000	20
Vegetable crops	Radish	Arka Nishant		0.20	6000	10
Vegetable crops	Chilli green	Arka Suphal		0.25	30000	50
Vegetable crops	Cowpea	Arka Garima		1.50	27000	20
Vegetable crops	Onion	Arka Kalyan		1.50	150000	110
Vegetable crops	Pumpkin	Arka Suryamukhi		0.25	15000	30
Vegetable crops	Vegetable kit	IIHR varaieties		2500 Nos.	250000	2200
Flower crops	Tuberose	Prajwal, Vaibhav		*75000	112500	-
Spices						
Fodder crop seeds						
Fiber crops						
Forest Species						
Others (specify)						
Total					**765750**	**2565**

* Under processing and grading

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						
	Mango	Alphanso, Badami		150	5250	20
	Guava	Pink Flesh, L-49, Mridula		200	7000	30
	Lime	Seedless Lime		5	175	2
	Amla	NA 4,5,7		250	6250	25
Ornamental plants	Bird of Paradise	IIHR		2000	140000	20
Medicinal and Aromatic						
Plantation	Arecanut	Hirehalli Tall		* 58000	870000	150

	Coconut	Aresikere Tall		800	64000	40
Spices						
Tuber						
Fodder crop saplings						
Forest Species						
Others(specify)						
Total					**1092675**	**287**

*** Available in stock**

9.C. Production of Bio-Products

Bio Products	**Name of the bio-product**	**Quantity Kg**	**Value (Rs.)**	**No. of Farmers**
Bio Fertilizers				
	Banana special	6813	1021950	973
	Vegetable Special	3414	426750	853
	Mango Special	2612	391800	870
	Citrus Special	320	48000	20
Bio-pesticide				
	NeemSoap	1417	177125	185
	Pongamia Soap	950	95000	190
Bio-fungicide	Arka Microbial consortium	150	11250	32
Bio Agents	Mango fruit fly traps	11000 Nos.	605000	2200
Others				
	Amla Juice	500	50000	390
	Amla Candy	100	25000	300
	AmlaSupari	20	5000	246
	Ragi Malt	100	15000	257
	Spawn	50	2500	27
Total			**2874375**	**6543**

9.D. Production of livestock materials

Particulars of Live stock	**Name of the breed**	**Number**	**Value (Rs.)**	**Number of farmers to whom provided**
Dairy animals				
Cows				
Buffaloes				
Calves				
Others (Pl. specify)				
Poultry				
Broilers				
Layers				
Duals (broiler and layer)				
Japanese Quail				
Turkey				

Emu				
Ducks				
Others (Pl. specify)				
Piggery				
Piglet				
Others (Pl.specify)				
Fisheries				
Fingerlings				
Others (Pl. specify)				
Total				

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

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

(A) KVK News Letter ((Date of start, Periodicity, number of copies distributed etc.)
April –June 2013 100 copies
July-Sept 2013 100 copies

(B) Literature developed/published

Item	Title	Authors name	Number
Research papers	1. Employment generation potential of watershed development programmes in semi-arid tropics of India. African Journal of Agricultural Research.	Biswajit Mondal and N. Loganandhan.	04
	2.Farmer Innovations and Initiatives in Natural Resource Conservation in the Southern Region.Indian Association of Soil and Water Conservationists, Deharadun, India.	A.Raizada, O.P.S.Khola, P.K.Mishra, S.Manivannan, N.Loganandhan	
	3. Adoption of climate resilient technologies in a drought prone village in Tumkur District, Karnataka, in International Conference on Climate Change and its Implications for Water Resources and Nutrition Security, sponsored by International Life Sciences Institute – India at Bangalore, during 15-16, Nov, 2013.	Loganandhan, N., Naik, L.B, Ramesh, P.R., Prasanth, J.M., Jagadish, K.N	
	4. Papaya (*Carica papaya*) seed quality as influenced by stage of fruit harvest, post harvest repining and seed extraction. The Indian Journal of Agricultural sciences 2013 Vol 83 No8 pp 928-933.	H.C. Yogeesha, C. Vasugi, Somashekar, K Banuprakash and L.B. Naik	

Technical reports	IIHR Annual Report 2012-13 DARE Report Cabinet Report SAC Report NICRA Action Plan Report Amla Campaign Progress Report	KVK Staff	06
News letters	ICAR News letter IIHR News Letter KVK News letter CRIDA News letter		04
Technical bulletins	Betelvine Pest and Disease	Hema Bindu, Suryanarayana, BH Gowda	01
Popular articles	French bean production	Somashekar, Radha R Banakar & Manjunth KS	01
Extension literature	1.Arka Microbial Consortium – A Bio fertilizer for Sustainable Agriculture Production 2. Preservation & Processing Fruits & Vegetables (Extension	P.R.Ramesh, P.Panneerselvam, N.Loganandhan and K.N.Shasidhar, Radha R. Banakar, Somashekhar, N.Loganandhan and Prasanth, J.M.	02
Others (Pl. specify)	-		
TOTAL			**18**

10.B. Details of Electronic Media Produced

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

10.C. Success Stories / Case studies, if any (two or three pages write-up on each case with suitable action photographs. The Success Stories / Case Studies need not be restricted to the reporting period).

Success stories

1. Title: MUSHROOM CULTIVATION FOR SUSTAINABLE INCOME

Ms.Jyoti a house wife, residing in Maruti nagar of Tumkur city, undergone a training on Mushroom cultivation at Krishi Vigyan Kendra Hirehalli during the month of October 2013, where she learned cultivation of different types of Mushrooms and value addition on mushrooms and decided to go for large scale cultivation of Oyster mushroom as Tumkur weather condition is suitable for this kind of mushroom cultivation.

In the beginning, beside her house she constructed low cost room for keeping mushroom bags of size 10 x 10 feet with asbestos sheet, where approximate cost of construction was Rs.20000. For hanging the mushroom bags one over the above, she used Bamboo sticks and plastic wire were used. In that particular room at a time she can keep 300 mushrooms growing bags. She purchased Paddy straw from local farmer, polypropylene (PP) bags from local market and mushroom seeds (Spawn) from KVK Hirehalli. In order to get daily mushroom harvest, she is keeping daily 30 mushroom growing bags and she is harvesting daily an average of 10 kg of mushrooms. For marketing of mushroom, she is packing in 100 g of plastic packets and being sold at the rate of Rs.20/-. Nearby people who are residing in the adjacent area of Maruti nagar directly purchasing mushroom directly from her house. Now the demand is so high that, she is not in position to meet the demand. Now she is confident that she can able to sell 30-40 kg of Fresh Mushrooms at.

Hence, she is planning to build one more room for mushroom cultivation over the roof of her house in the future.

Ms. Jyothi, Maruthinagar, Tumkur taking up Mushroom cultivation

With adoption of this mushroom cultivation technology, she is daily getting Rs.1000/- net income, which makes almost Rs.30000/- monthly income from this enterprise.

2. Title : Effect of Arka Microbial Consortium (AMC) on growth and yield of Finger millet Varieties

Background

The finger millet cv ML 365 is promoted in the village about 42 ha and benefited the 110 farmers. The performance of the variety is significantly superior over its local variety. Dr. Shailaja Httalamani, Professor and head, department of plant breeding UAS Bangalore has the variety. While the local variety was wilting due to moisture stress,

Interventions/Process/Technology

To know the effect of Arka microbial consortium developed by IIHR, Bangalore on growth and yield of Finger millet Varieties viz., GPU-28 and ML-365 were tested at KVK, Hirehalli under ATMA FLD programme.

Impact

The finger millet cv ML-365 is demonstrated at KVK Hirehalli experimental farm. The performance of the ML-365 variety is significantly superior over the GPU-28 variety. ML 365 was full fingers with grains in milky stage. Ragi ML365 showed maximum yield (25 Quintal/ha) compared to that of GPU-28 Ragi (20 Quintal/ha). The yield of the Ragi ML365 could be increased to an extent of 25 %.

The performance of the AMC treated plots significantly superior to the control plots in both the varieties. The AMC treated Ragi ML365 showed maximum yield (28 Quintal/ha) compared to that of control Ragi ML365 (25 Quintal/ha). The yield of the Ragi ML-365 could be increased to an extent of 12 %.

The AMC treated Ragi GPU-28 showed maximum yield (22 Quintal/ha) compared to that of control Ragi GPU-28 (20 Quintal/ha). The yield of the Ragi ML365 could be increased to an extent of 10 %.

The demonstration of this technology have been widely publicized through different mass media's like news paper, radio & TV and widely used in the farmers training programme of the KVK

Results :

Crop	Variety	Mean yield (qt/ha)	% increase
Ragi ML - 365	Control	25	12
	Treated with AMC	28	
GPU-28	Control	20	10
	Treated with AMC	22	

Horizontal spread: Dissemination efforts made by this KVK with the proven results, the farmers of the district under irrigated agro-ecosystem are adopting different this technology to a greater extent.

Ragi ML-365 Treated with AMC	Ragi ML-365 Control
	

3. **Title:** Increased Productivity of Banana through Foliar Application of Banana Special

Background

Banana is second most important fruit crop of the district and it is grown mainly under pump set irrigation. The total area is 4929 ha. The planting is done in the month of June and January. The farmers of the district are not applying the recommended dose of fertilizers and they apply only DAP. It is also emphasize the micronutrient in the soil is very deficit particularly Zinc, Mg Fe and Ca. Due to the above facts there was a drastic reduction in yield to an extent of 30-35 per cent. Because of these problems farmers were getting an average yield of 20-25t/ha.

Interventions/Process/Technology

To overcome these problems and to get higher productivity in banana, the interventions were proposed under FLD during the year 2012-13. Under this component IIHR Bangalore technology Banana Special was recommended 5 sprays @5 g/lit at 30 days interval starting from 5th month from the planting.

Impact

The impact of the assessment of recommended technology in banana cultivation in irrigated agro-ecosystem of Tumkur, the results have clearly indicated that by adoption of the above technology, the yield of the banana could be increased to an extent of average 11-15%.

The demonstration of this technology have been widely publicized through different mass media's like news paper, radio & TV and widely used in the farmers training programme of the KVK.

Horizontal spread: Dissemination efforts made by this KVK with the proven results, the farmers of the district under irrigated agro-ecosystem are adopting different this technology to a greater extent (3012 ha).

Economics gains:

Performance indicators

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										
10	2	322.4	232.6	268	241	11.20	99480	179064	79584	1.8	96330	158945	62615	1.65

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	Coconut	Application of Tank Silt @ 50tons/ha	Supply of nutrients , better drainage and aeration
2	Mango	Ragi and Paddy husk as a mulching material	To check evaporation and weed growth
3	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
- Discussion with the scientist of IIHR Bangalore
- Discussion with officials of line department

2. Rural Youth

- Survey and discussion
- Feedback from rural youths
- Periodical field visits

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 : 22
ii. No. of farm families selected : 215
iii. No. of survey/PRA conducted : 03

10.H. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab : **Yet to be established**

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

Sl. No	Name of the Equipment	Qty.	Cost
1			
2			
3			
Total			

Details of samples analyzed so far since establishment of SWTL:

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

Details of samples analyzed during the 2013-14 :

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

10.I. Technology Week celebration during 2013-14 Yes/No, If Yes : No

Period of observing Technology Week: From to
Total number of farmers visited :
Total number of agencies involved :
Number of demonstrations visited by the farmers within KVK campus:

Other Details

Types of Activities	No. of Activities	Number of Farmers	Related crop/livestock technology
Gosthies			
Lectures organized			
Exhibition			
Film show			
Fair			
Farm Visit			
Diagnostic Practical's			
Supply of Literature (No.)			
Supply of Seed (q)			
Supply of Planting materials (No.)			
Bio Product supply (Kg)			
Bio Fertilizers (q)			
Supply of fingerlings			
Supply of Livestock specimen (No.)			
Total number of farmers visited the			

Types of Activities	No. of Activities	Number of Farmers	Related crop/livestock technology
Technology week			

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

A. Introduction of alternate crops/varieties

State	Crops/cultivars	Area (ha)	Number of beneficiaries

B. Major area coverage under alternate crops/varieties

Crops	Area (ha)	Number of beneficiaries
Oilseeds		
Pulses		
Cereals		
Vegetable crops		
Tuber crops		
Total		

C. Farmers-scientists interaction on livestock management

State	Livestock components	Number of interactions	No.of participants
Total			

D. Animal health camps organized

State	Number of camps	No.of animals	No.of farmers
Total			

E. Seed distribution in drought hit states

State	Crops	Quantity (qtl)	Coverage of area (ha)	Number of farmers
Total				

F. Large scale adoption of resource conservation technologies

State	Crops/cultivars and gist of resource conservation technologies introduced	Area (ha)	Number of farmers
Total			

G. Awareness campaign

State	Meetings		Gosthies		Field days		Farmers fair		Exhibition		Film show	
	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers
Total												

PART XI. IMPACT

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

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
Micronutrient Management in Banana	70	90	158945	179064
ICM in French bean (ArkaSuvidha)	25	35	34500	54030
ICM in Brinjal (ArkaAnand)	15	20	81360	99220
Enhancement of Productivity of Finger millet by drought tolerant variety ML 365	120	65	15250	30540
Popularization of Onion Arka Kalyan	30	40	30750	49310
Popularization of short duration Red gram Var-BRG-2	60	70	42102	56450
Foliar disease tolerant Ground nut variety GPBD-4	50	25	12930	20850
Arka Microbial consortium in Vegetable production	20	25	95000	125500

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

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

-NIL-

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

- Infestation of Fruit fly in Mango was a major problem in mango growing area and proper fruit fly control technology measures were not followed because of the leasing practices among the farmers. The awareness created and demonstrated on use of fruit fly trap (IIHR technology) at the appropriate time and for effective control of fruit fly at critical stage. Nearly 250 farmers adopted the technology and also farmers realized that it is a low cost technology which is effective to control fruit fly in mango.

- As a result of on-campus Vocational trainings on Coconut palm climbing and plant protection measures to the 20 rural youths and they were formed the groups as a coconut tree climbers and they are earning nearly Rs. 1200 to 2500/- per day with an average 60-75 palm climbing per day.

- Farmers have realized the importance of ICM technology (Vegetables) and only 33% of the IPM components are being voluntarily used by the farmers.

- SHG group at Tumkur taluk underwent the training & started preparation of value added of Amla and ragi. A farm women group shown interest to start entrepreneurship on value added products of Ragi and Amla.

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
Department of Women and Child Development	Trainings
NBSS &LUP Bangalore	NRM and Survey
BAIF NGO, Tiptur	Trainings and Technical Information
ORDER NGO, Tumkur	Trainings, FLD's and Technical Information
AWARE NGO, Tumkur	Trainings
APART NGO Tumkur	Organic Farming and Group Approach
MOTHER NGO Tumkur	Seed Village Concept
UAS, Bangalore	Trainings and FLDs
UAS, Dharwad	Trainings and FLDs
UHS, Bagalkote	Trainings and FLDs
Veterinary University,Bidar	Trainings and FLDs

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

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

Name of the scheme	Role of KVK	Date/ Month of initiation	Funding agency	Amount (Rs.)
Technology demonstration component of NICRA	Demonstration of Interventions	January 2011	CRIDA, Hyderabad	70 Lakhs
Integrated Mushroom Production Unit	Production of spawn material	June, 2011	NHM Karnataka	15 Lakhs
Establishment Model Nursery at KVK Hirehalli	Production of quality planting material	March 2013	NHM	25 lakhs
Participatory Vegetable Seed Production and distribution system	Participatory Vegetable Seed Production in farmers field	March 2013	NHM	40 lakhs
Leaf Tissue analysis laboratory	Analysis of samples	March 2013	NHM	20 lakhs
vKVK	Voice messages	March 2013	ICRISAT	-

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?
Designing of technical and training programmes for the year 2013-14

Coordination activities between KVK and ATMA during 2013-14

S. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK	Other remarks (if any)
01	Meetings	SREP	16	-	
02	Research projects				
03	Training programmes	Production technology of Ragi	05	02	
		Value addition of Ragi	02	01	
04	Demonstrations	Vermicompost	02	-	
05	Extension Programmes	Field day	02	-	
	Kisan Mela				
	Technology Week				
	Exposure visit				
	Exhibition				
	Soil health camps				
	Animal Health Campaigns				
	Others (Pl. specify)				
06	Publications				
	Video Films				
	Books				
	Extension Literature				
	Pamphlets				
	Others (Pl. specify)				
07	**Other Activities** (Pl. specify)				
	Watershed approach				
	Integrated Farm Development				
	Agri-preneurs development				
			11	**03**	

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	Establishment Model Nursery at KVK Hirehalli	Supply of Quality planting materials	25 Lakhs	21 Lakhs	-
2	Vegetable Seed Production	Supply of Quality seed materials	4 Lakhs	4 Lakhs	-
3	Leaf Tissue analysis laboratory	Soil, plant and water testing	20 Lakhs	20 Lakhs	-

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

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

12.F. Details of linkage with RKVY

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks
1	Participatory Vegetable Seed Production and distribution system under RKVY scheme	Quality seed production	40 lakhs	20 lakhs	

12. G Kisan Mobile Advisory Services

Month	No. of SMS sent	No. of farmers to which SMS was sent	No. of feedback / query on SMS sent
April 2013	3	375	02
May	3	500	01
June	2	550	-
July	2	765	-
August	2	765	01
September	3	765	-
October	3	765	-
November	2	765	-
December	3	765	1
January 2014	3	765	3
February	2	765	1
March 2014	2	765	1
Total for the year 2013-14	**32**		**10**

PART XIII- PERFORMANCE OF INFRASTRUCTURE IN KVK

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

Sl. No.	Demo Unit	Year of establishment	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Produce	Qty.	Cost of inputs	Gross income	

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	
Cereals									
Pulses									
Oilseeds									

Fibers									
Spices & Plantation crops									
Areca nut	Jan, 2013			Hirehalli Tall	Seedlings	58000		870000	
Coconut	Nov,2013			ArsikereTall	Seedlings	800		64000	
Floriculture									
Bird of Paradise				-	Seedlings	1250		87500	
Tuberose	July 2013			Prajwal, Vaibhav, Nirantana, Suhasini	Corms	75000		112500	
Fruits									
Mango				Alphanso, Badami	Seedlings	150		5250	
Gauva				Pink Flesh, L-49, Mridula	Seedlings	200		7000	
Lime				Seedless Lime	Seedlings	5		175	
Amla				NA 4,5,7	Seedlings	250		6250	
Vegetables									
Drumstick	-	2.8.2013	0.1	PKM-1	Seeds	4.5 kg		11250	
FrenchBean	18.10.2013	15.1.2014	2	Arka Suvidha	Seeds	618 kg		123600	
Bhendi	7.9.2013	21.1.2014	0.2	Arka Anand	Seeds	26 kg		10400	
French Bean	2.11.2013	30.1.2014	1	Arka Komal	Seeds	150 kg		30000	
Radish	15.6.2013	8.9.2013	1.0	Arka Nishant	Seeds	20 kg		6000	
Chilli	21.5.2103	22.8.2013 .	0.5	Arka Suphal	Seeds	25 kg		30000	
Cowpea	4.5.2013	6.8.2013	0.2	Arka Garima	Seeds	150 kg		27000	
Onion	18.6.2013	15.2.2014	0.4	Arka Kalyan	Seeds	150 kg		150000	
Pumpkin	8.6.2013	12.9.2013	0.1	Arka Suryamukhi	Seeds	25 kg		15000	
Veg. Seed Kit				IIHR Varieties	Seeds Kit	2500		250000	
Ragi	16.6.2013	5.10.2013	0.5	ML-365	Seeds	200 kg		8000	
Others (specify)									

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

Sl. No.	Name of the Product	Qty	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	
1.	Neem soap	1417kg	-	177125	
2.	Pongamia soap	950kg		95000	
3.	Banana special	6813kg	-	1021950	
4.	Vegetable special	3414kg	-	426750	
	Spawn	50kg		2500	
5.	Mango fruit fly trap	11000 Nos.	-	605000	
6.	Mango special	2612kg	-	391800	
7.	Citrus special	320kg	-	48000	
8.	Arka Microbial consortium	150kg	-	11250	
	Others				
9.	Amla Juice	500kg		50000	
10.	Amla Candy	100 lits		25000	
11.	Amla Supari	20kg	-	5000	
12.	Ragi Malt	100kg	-	15000	

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

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

13.E. Utilization of hostel facilities

Accommodation available (No. of beds) : Yet to be Furnished

Months	**No. of trainees stayed**	**Trainee days (days stayed)**	**Reason for short fall (if any)**
October 2008			
November 2008			
December 2008			
January 2009			
February 2009			
March 2009			
April 2009			
May 2009			
June 2009			
July 2009			
August 2009			
September 2009			

13.F. Database management

S. No	Database target	Database created
1.	Farmers Database	**Ongoing**
2.	Database for Technologies assessed and Refined	
3.	Frontline Demonstrations Database	
4.	Training Database	
5.	Database of Extension Programmes	
6.	Seeds and Planting Material Database	

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

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

PART XIV - FINANCIAL PERFORMANCE

14.A. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Branch code	Account Name	Account Number	MICR Number	IFSC Number
With Host Institute	Central Bank of India	Hessaraghatta Bangalore	3973	Current Account	185833018	560016024	CBIN 0283973
With KVK							

14.B. Utilization of KVK funds during the year 2013-14 (Rs. in lakh)

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	**Pay & Allowances**	6123000	6123000	6122971
2	**Traveling allowances**	125000	125000	124871
3	**Contingencies**			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	270000	270000	270000
B	POL, repair of vehicles, tractor and equipments	200000	200000	199886
C	Meals/refreshment for trainees (ceiling up to Rs.40/day/trainee be maintained)	95000	95000	95000
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	60000	60000	60000
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	317000	317000	317000
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	40000	40000	40000
G	Training of extension functionaries	25000	25000	25000
H	Maintenance of buildings		0	
I	Establishment of Soil, Plant & Water Testing Laboratory		0	
J	Library	5000	5000	5000
TOTAL (A)		7260000	**7260000**	**7259728**
B. Non-Recurring Contingencies				
1	**Works**	7771000	7771000	7771000
2	**Equipments including SWTL & Furniture**		0	
3	**Vehicle** (Four wheeler/Two wheeler, please specify)		0	
4	**Library** (Purchase of assets like books & journals)		0	
TOTAL (B)		7771000	7771000	7771000
C. REVOLVING FUND		0	0	3287560
GRAND TOTAL (A+B+C)		**15031000**	**15031000**	**18318288**

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

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 1st April of each year
April 2011 to March 2012	367796	889085	494558	662323
April 2012 to March 2013	662323	1494494	168242	1988575
April 2013 to March 2014	1988575	3735246	3287560	2436261

15. Details of HRD activities attended by KVK staff during 2013-14

Name of the staff	Designation	Title of the training programme	Institute where attended	Dates
Jyothi Appu Naik	Computer Programmer	Enhancement of Programming Skill Development	UAS Dharwad (Aug 2013)	Aug 2013
Dr.Somashekar	SMS-Plant Breeding	National Initiative on Fodder Demonstration Technology	NIFTD, MPKV, Rahuri (Dec2013)	Dec 2013
Prasanth JM	SMS-Horticulture	Sandalwood base Agro Forestory Models	IWS,Bangalore (Jan2014)	Jan 2014
Ramesh PR	SMS-Soil Science	Use of Pheromon Traps to monitor Mango Fruit Fly	IIHR Bangalore (Nov2013)	Nov 2013
Ramesh PR	SMS Soil Science	Production of Arka Microbia Consortium	IIHR Bangalore (Aug2013)	Aug 2013
Ramesh PR	SMS Soil Science	Production of Mango Special & Citrus Special	IIHR Bangalore (Sept2013)	Sept 2013
Loganandhan N	Programme Coordinator	Training on EDP on high value vegetables under protected condition	IIHR Bangalore (Dec2013)	Dec 2013

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

- Dr. K.D. Kokate, Deputy Director General, Agril.Extension along with Dr. S. Prabhu Kumar, Zonal Project Director visited Krishi Vigyan Kendra (IIHR), Hirehalli, Tumkur on 24th May, 2013.
- The Indian Institute of Horticultural Research, Bengaluru organized a 'Media Meet' at Krishi Vigyan Kendra, Hirehalli on June 25, 2013 under the NAIP project - Mobilising Mass Media Support for Sharing Agro Information" to showcase the activities and achievements of KVK, Hirehalli.
- Institute Joint Staff Council Meeting held on 29.10.2013 at KVK, Hirehalli
- Dr. George V. Thomas Director CPCRI, Kasaragod , Visited KVK, Hirehalli on 15th June 2013
- Dr.S.K. Malhotra, ADG (Horti – II) ICAR New Delhi 5th October 2013.
- NAARM has identified KVK (IIHR) Hirehalli for FET Programme during 2013.
- Smt. Sindhu Shree Khullar, Secretary, Planning Commission, Govt.of India, New Delhi visited KVK Hirehalli Tumkur

• SUMMARY FOR 2013-14

I. TECHNOLOGY ASSESSMENT

Summary of technologies assessed under various crops

Thematic areas	Crop	Name of the technology assessed	No. of trials
Integrated Nutrient Management			
Varietal Evaluation			
Integrated Pest Management			
Integrated Crop Management	Areca nut - French bean	Assessment of Areca nut -French bean intercropping system for high soil fertility and higher income	03
	Mango-Redgram+Greengram	Assessment of Redgram:Greengram (1:4) as a intercrop in Mango orchard for climate resilient agriculture	03
Integrated Disease Management			
Small Scale Income Generation Enterprises			
Weed Management			
Resource Conservation Technology			
Farm Machineries			
Integrated Farming System			
Seed / Plant production			
Value addition			
Drudgery Reduction			
Storage Technique			
Others (Pl. specify)			
Total			**06**

Summary of technologies assessed under livestock : NIL

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

Summary of technologies assessed under various enterprises : NIL

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

Summary of technologies assessed under home science : NIL

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

II. TECHNOLOGY REFINEMENT

Summary of technologies refined under various crops : NIL

Thematic areas	Crop	Name of the technology refined	No. of trials
Integrated Nutrient Management			
Varietal Evaluation			
Integrated Pest Management			
Integrated Crop Management			
Integrated Disease Management			
Small Scale Income Generation Enterprises			
Weed Management			
Resource Conservation Technology			
Farm Machineries			
Integrated Farming System			
Seed / Plant production			
Value addition			
Drudgery Reduction			
Storage Technique			
Others (Pl. specify)			
Total			

Summary of technologies assessed under refinement of various livestock : NIL

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

Summary of technologies refined under various enterprises : NIL

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

Summary of technologies refined under home science : NIL

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

III. FRONTLINE DEMONSTRATION

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	Combating drought vulnerability by Aerobic paddy cultivation		10	2	37.3	33.1	12.69	Tillers/ plant Numbers 42	29	19580	39980	20400	2.04	17450	24450	7000	1.4
Millets	Drought Mitigation	Addressing Drought Vulnerability by Drought tolerant Ragi ML -365		10	5	24.3	18.7	29.95	Panicle weight grams 28	19	7250	12325	5075	1.7	6850	7535	6085	1.1
		Value Addition, Labelling & Branding of Ragi Products		2 SHGs	2 SHGs			Ongoing										
Oilseeds																		
Pulses	ICM	Enhancement of Red gram yield through demonstration of HYV BRG-1		10	5	14.8	13.2	12.12	Plant Height 159 cm	151cm	22500	62000	39500	2.75	25400	55000	29600	2.1
Vegetables																		
	INM	Cost effective Arka Microbial consortium for tomato production		10	2	515	443	16.25	7.1	4.9	65000	206000	141000	3.16	62500	177200	114700	2.8
		Use of Polythene mulch in tomato		5	1	Ongoing			68.2	48.2								

	ICM	Demonstration of Seedpro – A microbial plant growth promoter against soil borne pathogens in Solanaceous vegetable crops		10	1	250	210	19.05	8.2	34.5	38500	125000	86500	3.24	38580	105000	66420	2.72
	IPM	Bio- intensive Management Brinjal Shoot and fruit borer		10	5	283.6	178.9	58.52	4.89	28.9	39840	170160	130320	4.27	37450	107340	69890	2.86
	HYV	Introduction of Arka Anand hybrid in Brinjal		6	1	204	182	12.09	28	18	39850	132600	92750	3.32	37550	100100	62550	2.66
	Sustainable Farm Income through Seed Production	Seed production of French bean Var. Arka Suvidha		10	2	Ongoing												
Flowers																		
Ornamental																		
Fruit																		
	ICM	Demonstration of High density planting of Banana		5	1	Ongoing			5.2	5.8								
	HYV	Demonstration of High yielding variety Arka Prabhat in Papaya		3	1	Ongoing			60	35								
	HYV	Demonstration of Dry land Horticulture crop		5	1	Ongoing			3.9	-								

	IPM	Cost effective Eco friendly management of fruit fly through pheromone traps in Mango		15	5	Ongoing			37	-								
	IPM	Management of Mango Stem Borer by Sealer cum Healer		5	1	Ongoing			2	9								
	PHT	Mango Harvester, Ripening chamber and Packing		5	2	Ongoing												
	PHT	Amla :Value Addition, Branding and Market Linkage		2SHGs	2SHGs	Ongoing												
Fibres like Cotton																		
Spices and condiments																		
Commercial																		
Medicinal and aromatic																		
Fodder																		
Plantation																		
	INM	Management of Nut Splitting in Arecnut		12	2	10.9	9.6	13.54	350	308	37520	180200	142680	4.8	37520	163200	125680	4.34

	IDM	Manag16ement of Basal stem rot (Ganoderma wilt) in Coconut		5	2.5	7280 nuts	5630 nuts	29.31	12	28	43200	80080	36880	1.85	38500	61600	23100	1.60
Fibre																		
Others (pl.specify)																		
	Total																	

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

** BCR= GROSS RETURN/GROSS COST

Livestock :NIL

Category	Thematic area	Name of the technology demonstrated	No. of KVKs	No. of Farmer	No.of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
						Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Dairy																		
Poultry																		
Rabbitry																		
Pigerry																		
Sheep and goat																		
Duckery																		
Others (pl.specify)																		
	Total																	

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST

Fisheries : NIL

Category	Thematic area	Name of the technology demonstrated	No. of KVKs	No. of Farmer	No.of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
						Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Common carps																		
Mussels																		
Ornamental fishes																		
Others (pl.specify)																		
		Total																

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST

Other enterprises : NIL

Category	Name of the technology demonstrated	No. of KVKs	No. of Farmer	No.of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.) or Rs./unit				*Economics of check (Rs.) or Rs./unit			
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Oyster mushroom																	
Button mushroom																	
Vermicompost																	
Sericulture																	
Apiculture																	
Others (pl.specify)																	
Total																	

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST

Women empowerment : NIL

Category	Name of technology	No. of KVKs	No. of demonstrations	Name of observations	Demonstration	Check
Women						
Pregnant women						
Adolescent Girl						
Other women						
Children						
Neonats						
Infants						
Children						

Farm implements and machinery : NIL

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

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST

Other enterprises : NIL

Demonstration details on crop hybrids

Crop	Name of the Hybrid	No. of farmers	Area (ha)	Yield (kg/ha) / major parameter			Economics (Rs./ha)			
				Demonst-ration	Local check	% change	Gross Cost	Gross Return	Net Return	BCR
Cereals										
Bajra										
Maize										
Rice										
Sorghum										
Wheat										
Others (pl.specify)										
Total										
Oilseeds										
Castor										
Mustard										
Safflower										
Sesame										
Sunflower										
Groundnut										
Soybean										
Others (pl.specify)										
Total										
Pulses										
Greengram										
Blackgram										
Bengalgram										
Redgram										
Others (pl.specify)										

Total										
Vegetable crops										
Bottle gourd										
Capsicum										
Others (pl.specify)										
Total										
Cucumber										
Tomato										
	Private hybrid	10	2	515	443	16.25	65000	206000	141000	3.16
	Private hybrid	5	1	On going						
	Arka Samrat	10	1	250	210	19.05	38500	125000	86500	3.24
Brinjal	Arka Anand	6	1	204	182	12.09	39850	132600	92750	3.32
Okra										
Onion										
Potato										
Field bean										
Others (pl.specify)										
Total										
Commercial crops										
Sugarcane										
Coconut										
Others (pl.specify)										
Total										
Fodder crops										
Maize (Fodder)										
Sorghum (Fodder)										
Others (pl.specify)										
Total		**31**	**5**							

IV. Training Programme

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production										
Weed Management										
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming	01	14	0	14	0	0	0	14	0	14
Micro Irrigation/Irrigation										
Seed production										
Nursery management										
Integrated Crop Management	03	11	2	13	54	52	106	66	54	120
Soil and Water Conservation	02	47	3	50	2	1	3	49	4	53
Integrated Nutrient Management										
Production of organic inputs										
Others (pl.specify) Production and productivity of crops Cereals and millets	01	21	25	46	1	11	12	22	36	58
Horticulture										
a) Vegetable Crops										
Production of low value and high volume crop										
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation	01	25	0	25	16	0	16	41	0	41
Others (pl.specify)										
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit										
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques	01	15	8	23			0	15	8	23

Others (pl.specify)										
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl.specify) Commercial floriculture	01	63	0	63	13	0	13	76	0	76
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
f) Spices										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology	01	15	5	20	0	0	0	15	5	20
Post harvest technology and value addition										
Others (pl.specify)										
Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated nutrient management										
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient use efficiency										
Balanced use of fertilizers										
Soil and water testing										
Others (pl.specify)										
Livestock Production and Management										

Dairy Management										
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Animal Disease Management	01	22	0	22	0	0	0	22	0	22
Feed and Fodder technology										
Production of quality animal products										
Others (pl.specify)										
Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening										
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing										
Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition										
Women empowerment	01	05	26	31	0	0	0	5	26	31
Location specific drudgery production										
Rural Crafts										
Women and child care										
Others (pl.specify) Processing and value addition	01	0	25	25	0	0	0	0	25	25
Agril. Engineering										
Farm machinery and its maintenance										
Installation and maintenance of micro irrigation systems										
Use of Plastics in farming practices										
Production of small tools and implements										
Repair and maintenance of farm machinery and implements										
Small scale processing and value addition										
Post Harvest Technology	02		40	40		7	7	0	47	47
Others (pl.specify)										
Plant Protection										
Integrated Pest Management										

Integrated Disease Management										
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others (pl.specify)										
Fisheries										
Integrated fish farming										
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture										
Hatchery management and culture of freshwater prawn										
Breeding and culture of ornamental fishes										
Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
Others (pl.specify)										
Production of Inputs at site										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production										
Organic manures production										
Production of fry and fingerlings										
Production of Bee-colonies and wax sheets										
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
Mushroom production	01	17	5	22	0	0	0	17	5	22
Apiculture										
Others (pl.specify)										
Capacity Building and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of										

SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
Others (pl.specify)										
Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (Pl. specify)										
TOTAL	**17**	**255**	**139**	**394**	**86**	**71**	**157**	**342**	**210**	**552**

Training for Farmers and Farm Women including sponsored training programmes (Off campus)

Area of training	**No. of Courses**	**No. of Participants**								
		General			**SC/ST**			**Grand Total**		
		Male	**Female**	**Total**	**Male**	**Female**	**Total**	**Male**	**Female**	**Total**
Crop Production										
Weed Management										
Resource Conservation Technologies										
Cropping Systems	01	54	8	62	2	0	2	56	8	64
Crop Diversification										
Integrated Farming	01	42	6	48	4	1	5	46	7	53
Micro Irrigation/Irrigation										
Seed production										
Nursery management										
Integrated Crop Management	02	34	5	39	10	3	13	44	8	52
Soil and Water Conservation	01	36	7	43	5	2	7	41	9	50
Integrated Nutrient Management										
Production of organic inputs										
Others (pl.specify)	01	8	78	86	2	20	22	10	98	108
Horticulture										
a) Vegetable Crops										
Production of low value and high volume crop										
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation	01	35	12	47	5	2	7	40	14	54
Others (pl.specify)										
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										

Cultivation of Fruit	02	54	15	69	6	0	6	60	15	75
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (pl.specify)										
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl.specify)										
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
f) Spices										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (pl.specify)										
Soil Health and Fertility Management										
Soil fertility management	01	44	4	48	3	2	5	47	6	53
Integrated water management										
Integrated nutrient management										
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops	02	151	7	158	11	2	13	162	9	171
Nutrient use efficiency	01	51	3	54	2	0	2	53	3	56
Balanced use of fertilizers	01	29	5	34	3	1	4	32	6	38
Soil and water testing										
Others (pl.specify)										

Livestock Production and Management										
Dairy Management										
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Animal Disease Management										
Feed and Fodder technology										
Production of quality animal products										
Others (pl.specify)										
Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening										
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing										
Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition	01	0	27	27	0	0	0	0	27	27
Women empowerment										
Location specific drudgery production										
Rural Crafts										
Women and child care										
Others (pl.specify)										
Agril. Engineering										
Farm machinery and its maintenance										
Installation and maintenance of micro irrigation systems										
Use of Plastics in farming practices										
Production of small tools and implements										
Repair and maintenance of farm machinery and implements										
Small scale processing and value addition										
Post Harvest Technology										
Others (pl.specify)										
Plant Protection										
Integrated Pest Management	01	22	7	29	3	3	6	25	10	35
Integrated Disease Management	01	21	0	21	0	0	0	21	0	21
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others (pl.specify)										
Fisheries										
Integrated fish farming										

Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture										
Hatchery management and culture of freshwater prawn										
Breeding and culture of ornamental fishes										
Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
Others (pl.specify)										
Production of Inputs at site										
Seed Production										
Planting material production										
Bio-agents production	01	23	0	23	0	0	0	23	0	23
Bio-pesticides production										
Bio-fertilizer production	01	47	2	49	4	1	5	51	3	54
Vermi-compost production										
Organic manures production										
Production of fry and fingerlings										
Production of Bee-colonies and wax sheets										
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
Mushroom production	02	12	25	37	6	19	25	18	44	62
Apiculture										
Others (pl.specify)										
Capacity Building and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
Others (pl.specify) ICT application	01	49	5	54	3	1	4	52	6	58
Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (Pl. specify)										
TOTAL	**22**	**712**	**216**	**928**	**69**	**57**	**126**	**781**	**273**	**1054**

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
Nursery Management of Horticulture crops										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Soil fertility and water management	01	6	5	11	8	14	22	14	19	33
TOTAL	**01**	**6**	**5**	**11**	**8**	**14**	**22**	**14**	**19**	**33**

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
Nursery Management of Horticulture crops										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl.specify)										
TOTAL										

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Integrated Pest Management										
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Any other (pl.specify)										
Total										

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
Productivity enhancement in field crops										
Integrated Pest Management										
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Any other (pl.specify) Agri-Silvi culture	01	20	4	24	2		2	22	4	26
Total	**01**	**20**	**4**	**24**	**2**		**2**	**22**	**4**	**26**

Sponsored training programmes

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**										
1.a.	Increasing production and productivity of crops										
1.b.	Commercial production of vegetables										
2	**Production and value addition**										
2.a.	Fruit Plants										
2.b.	Ornamental plants										
2.c.	Spices crops										
3.	**Soil health and fertility management**	01	29	5	34	3	1	4	32	6	38
4	**Production of Inputs at site**										
5	**Methods of protective cultivation**										
6	**Others (pl.specify)**										
7	**Post harvest technology and value addition**										
7.a.	Processing and value addition	01	0	25	25	0	0	0	0	25	25
7.b.	Others (pl.specify)										
8	**Farm machinery**										
8.a.	Farm machinery, tools and implements										
8.b.	Others (pl.specify)										
9.	**Livestock and fisheries**										
10	**Livestock production and management**										
10.a.	Animal Nutrition Management										
10.b.	Animal Disease Management										
10.c	Fisheries Nutrition										
10.d	Fisheries Management										

10.e.	Others (pl.specify)										
11.	**Home Science**										
11.a.	Household nutritional security										
11.b.	Economic empowerment of women										
11.c.	Drudgery reduction of women										
11.d.	Others (pl.specify) Women and child care	01	148	53	201	22	11	33	170	64	234
12	**Agricultural Extension**										
12.a.	Capacity Building and Group Dynamics										
12.b.	Others (pl.specify)										
	Total	**3**	**177**	**83**	**260**	**25**	**12**	**37**	**202**	**95**	**297**

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**										
1.a.	Commercial floriculture										
1.b.	Commercial fruit production										
1.c.	Commercial vegetable production										
1.d.	Integrated crop management										
1.e.	Organic farming										
1.f.	Others (pl.specify) Coconut Friends	03	46	0	46	14	0	14	60	0	60
2	**Post harvest technology and value addition**										
2.a.	Value addition										
2.b.	Others (pl.specify)										
3.	**Livestock and fisheries**										
3.a.	Dairy farming										
3.b.	Composite fish culture										
3.c.	Sheep and goat rearing										
3.d.	Piggery										
3.e.	Poultry farming										
3.f.	Others (pl.specify)										
4.	**Income generation activities**										
4.a.	Vermi-composting										
4.b.	Production of bio-agents, bio-pesticides, bio-fertilizers etc.										
4.c.	Repair and maintenance of farm machinery and implements										
4.d.	Rural Crafts										
4.e.	Seed production										
4.f.	Sericulture										
4.g.	Mushroom cultivation										
4.h.	Nursery, grafting etc.										
4.i.	Tailoring, stitching, embroidery, dying etc.										
4.j.	Agril. para-workers, para-vet training										
4.k.	Others (pl.specify)										
5	**Agricultural Extension**										
5.a.	Capacity building and group dynamics										
5.b.	Others (pl.specify)										
	Grand Total	**03**	**46**	**0**	**46**	**14**	**0**	**14**	**60**	**0**	**60**

V. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services	325	426	14	765
Diagnostic visits	29	66	1	96
Field Day	4	157	31	192
Group discussions	4	62	2	68
Kisan Ghosthi	1	65	9	75
Film Show	1	32	2	35
Self -help groups	-	-	-	-
Kisan Mela	1	588	7	596
Exhibition	6	3104	23	3133
Scientists' visit to farmers field	4	22	2	28
Plant/animal health camps	1	44	4	49
Farm Science Club	-	-	-	
Ex-trainees Sammelan	-	-	-	
Farmers' seminar/workshop	3	158	20	181
Method Demonstrations	4	76	0	80
Celebration of important days	4	180	0	184
Special day celebration	2	88	0	90
Exposure visits	1	23	0	24
Others (pl.specify)	-	-	-	
Total	**390**	**5091**	**115**	**5596**

Details of other extension programmes

Particulars	Number
Electronic Media	
Extension Literature	02
News Letter	02
News paper coverage	22
Technical Articles	1
Technical Bulletins	01
Technical Reports	06
Radio Talks	17
TV Talks	11
Animal health amps (Number of animals treated)	72
Others (pl.specify)	
Total	**134**

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 (qtl)	Value (Rs)	Number of farmers to whom provided
Cereals (crop wise)	Finger millet	ML 365	200	8000	50
Oilseeds					
Pulses					
Commercial crops					
Vegetables					
Vegetable crops	Drumstick	PKM 1	0.045	11250	55
Vegetable crops	Frenchbean	Arka Suvidha	6.18	123600	60
Vegetable crops	Okra	Arka Anamika	0.26	10400	10
Vegetable crops	Frenchbean	Arka Komal	1.50	30000	20
Vegetable crops	Radish	Arka Nishant	0.20	6000	10
Vegetable crops	Chilli green	Arka Suphal	0.25	30000	50
Vegetable crops	Cowpea	Arka Garima	1.50	27000	20
Vegetable crops	Onion	Arka Kalyan	1.50	150000	110
Vegetable crops	Pumpkin	Arka Suryamukhi	0.25	15000	30
Vegetable crops	Vegetable kit	IIHR varaieties	2500 Nos.	250000	2200
Flower crops	Tuberose	Prajwal, Vaibhav	*75000	112500	-
Spices					
Fodder crop seeds					
Fiber crops					
Forest Species					
Others (specify)					
Total				**765750**	**2565**

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 to whom provided
Commercial					
Vegetable seedlings					
Fruits					
	Mango	Alphanso, Badami	150	5250	20
	Guava	Pink Flesh, L-49, Mridula	200	7000	30
	Lime	Seedless Lime	5	175	2
	Amla	NA 4,5,7	250	6250	25
Ornamental plants	Bird of Paradise	IIHR	2000	140000	20
Medicinal and Aromatic					
Plantation	Arecanut	Hirehalli	* 58000	870000	150

		Tall			
	Coconut	Aresikere Tall	800	64000	40
Spices					
Tuber					
Fodder crop saplings					
Forest Species					
Others(specify)					
Total				**1092675**	**287**

*** Available in stock**

Production of Bio-Products

Bio Products	**Name of the bio-product**	**Quantity Kg**	**Value (Rs.)**	**No. of Farmers**
Bio Fertilizers				
	Banana special	6813	1021950	973
	Vegetable Special	3414	426750	853
	Mango Special	2612	391800	870
	Citrus Special	320	48000	20
Bio-pesticide				
	NeemSoap	1417	177125	185
	Pongamia Soap	950	95000	190
Bio-fungicide	Arka Microbial consortium	150	11250	32
Bio Agents	Mango fruit fly traps	11000 Nos.	605000	2200
Others				
	Amla Juice	500	50000	390
	Amla Candy	100	25000	300
	AmlaSupari	20	5000	246
	Ragi Malt	100	15000	257
	Spawn	50	2500	27
Total			**2874375**	**6543**

Production of livestock and related enterprise materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers
Dairy animals				
Cows				
Buffaloes				
Calves				
Others (Pl. specify)				
Poultry				
Broilers				
Layers				
Duals (broiler and layer)				
Japanese Quail				
Turkey				
Emu				
Ducks				
Others (Pl. specify)				
Piggery				
Piglet				
Others (Pl.specify)				
Fisheries				
Fingerlings				
Others (Pl. specify)				
Total				

VII. DETAILS OF SOIL, WATER AND PLANT ANALYSIS 2013-14 : NIL

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

VIII. SCIENTIFIC ADVISORY COMMITTEE

Number of SACs conducted : 01
30.09.2013

IX. NEWSLETTER

Number of issues of newsletter published : 02
April – June, 2013 July –September 2013

X. RESEARCH PAPER PUBLISHED

Number of research paper published : 04
1. Employment generation potential of watershed development programmes in semi-arid tropics of India. African Journal of Agricultural Research. 2. Farmer Innovations and Initiatives in Natural Resource Conservation in the Southern Region. Indian Association of Soil and Water Conservationists, Deharadun, India. 3. Adoption of climate resilient technologies in a drought prone village in Tumkur District, Karnataka, in International Conference on Climate Change and its Implications for Water Resources and Nutrition Security, sponsored by International Life Sciences Institute – India at Bangalore, during 15-16, Nov, 2013 4. Papaya (*Carica papaya*) seed quality as influenced by stage of fruit harvest, post harvest repining and seed extraction. The Indian Journal of Agricultural sciences 2013 Vol 83 No8 pp 928-933.

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

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

----------XXXXXXX----------