KODAGU KRISHI VIGYAN KENDRA

ANNUAL PROGRESS REPORT

(APRIL 2013 - MARCH 2014)

KODAGU KRISHI VIGYAN KENDRA
(INDIAN INSTITUTE OF HORTICULTURAL RESEARCH-ICAR)
GONIKOPPAL, Kodagu, Karnataka

CONTENT

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 (IIHR-ICAR) **Gonikoppal**-571213, Kodagu District Karnataka	08274-247274	08274-247274	iihrkvkgk@yahoo.co.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 (ICAR) Hessaraghatta Lake Post Bangalore-560 089	080 - 28466420/21/22	080 - 28466290	iihr@ernet.in	www.iihr.res.in

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr.P.C.Tripathi	-	09483343355	cheschettalli@yahoo.co.in

1.4. Year of sanction:1976

1.5. Staff Position (as 31st March 2014)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	M/F	Discipline	Highest Qualification (for PC, SMS and Prog. Asstt.)	Pay Scale	Basic pay	Date of joining KVK	Permanent /Temporary	Category (SC/ST/ OBC/ Others)
1	Programme Coordinator	**Dr.P.C.Tripathi**	Programme Coordinator	M	Horticulture	P.hd			-		
2	Subject Matter Specialist	K. A. Devaiah	Subject Matter Specialist	M	Horticulture	M.Sc (Hort)	15600 - 39100		30.11.1993	Permanent	
3	Subject Matter Specialist	B. Prabhakara	Subject Matter Specialist	M	Horticulture	M.Sc (Hort)	15600 - 39100		03.04.2007	Permanent	
4	Subject Matter Specialist	Veerendra Kumar K.V	Subject Matter Specialist	M	Plant Protection	M.Sc (Agri.)	15600 - 39100		02.12.2009	Permanent	
5	Subject Matter Specialist	Dr.Suresh S.C	Subject Matter Specialist	M	Livestock	M.V.sc	15600 - 39100		09.02.2011	Permanent	
6	Subject Matter Specialist	-	Subject Matter Specialist		-	-	-	-	-	-	-
7	Subject Matter Specialist	-	Subject Matter Specialist		-	-	-	-	-	-	-
8	Programme Assistant	C .K. Vasantha Kumar	Programme Assistant	M	-	M.Sc	9300-34800		06.9.1976	Permanent	
9	Computer Programmer	M .K .Padmavathy	Computer Programmer	F	-	M.Sc	15600 - 39100		21.01.1983	Permanent	
10	Farm Manager	-	Farm Manager		-	-	-	-	-		
11	Accountant/Superintendent	P. C. Ponnamma	Accountant/Superintendent	F	-	-	9300-34800			Permanent	
12	Stenographer	Mubeen Taj	Stenographer	F	-	-	5200-20200		18.04.2011	Permanent	
13	Driver 1	K .Velmurugan	Driver 1	M	-	-	5200-20200		20.11.2006	Permanent	
14	Driver 2	-	Driver 2		-	-	-	-	-		
15	Supporting staff 1	B. N.Janaki	Supporting staff 1	F	-	-	4440-7440		25.03.1985	Permanent	
16	Supporting staff 2	-	Supporting staff 2		-	-		-	-		

1.6. Total land with KVK (in ha) : 17.5 ha

Sl. No.	Item	Area (ha)
1	Under Buildings	6.1
2.	Under Demonstration Units	1.0
3.	Under Crops	1.0
4.	Orchard/Agro-forestry	9.4
5	Others	-

1.7. Infrastructural Development:

A) Buildings

Sl.N	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	2001	500	77,34,081	-	-	-
2.	Farmers Hostel	ICAR	2001	300		-	-	-
3.	Staff Quarters	ICAR	Nil					
4.	Demonstration Units	ICAR	1995	160	15,25,588	-	-	-
5	Fencing	Nil						
6	Rain Water harvesting system	Nil						
7	Threshing floor	Nil						
8	Farm godown	Nil						

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Jeep (Mahindra hard top)	1998	3,40,739	-	Condemned
Tractor (M. Ferguson)	2004	3,99,000		Good
Bike (Bajaj-CT-100)	2004	33,223		Good
Power Tiller	2011	1,85,000		Good
Hero Honda Splendor Plus	2009	37,129		Good

B) Equipments & AV aids

Name of the Equipment	Year of Purchase	Cost (Rs.)	Present Status
PA System	2002	11,408	Good
Aqua guard(2)	2003	1500	Good
Electronic weighing Balance	2004	15550	Good
Photocopier (Toshiba e studio 160)	2004	157.899	Good
Computer with accessories	2005	74,640	Good
Back pack sprayer	2005	9050	Good
Tiller mounted power sprayer	2005	23,750	Good
Mechanical weeder	2005	30,000	Good
HP Scanner 3770	2005	7650	Good
Stack feeder bi pass	2005	5122	Good
Computer with accessories	2005	51,683	Good
Solar water heater	2006	77,036	Good
Balance	2006	9000	Good
Display boards	2006	9976	Good
Citizen balance	2006	68850	Good
Computer with accessories	2007	59,808	Good
Microwave oven	2007	13,850	Good
LCD projector	2011	1,00,000	Good
Power sprayer	2011	36,000	Good
Generator (5 KV)	2011	1,06,000	Good
Computer with accessories	2011	49,120	Good
Mechanical weeder	2011	24,000	Good
Camera SX 3015 (Canon)	2011	27680	Good
Disc plough & Disc harrow	2011	82,950	Good
Tr. mounted weed slasher	2011	85,195	Good
Extendable Al. ladder	2011	17,556	Good

1.8. Details SAC meeting conducted in 2013-14

Date	Salient Recommendations	Action taken
25th September 2013 Number of Participants(28) No. of absentees(03)	• Suggested to put more efforts for rejuvenation of Coorg mandarin and Coorg honey. No. of field days should be enhanced to the actual no. of OFTs and FLDs organized during the year. • No. of training programme for extension functionaries should be enhanced on prioritized areas viz. Cropping pattern for fallow paddy fields, mechanization of paddy cultivation from sowing to harvest, precise compilation of concluded and ongoing OFT/FLDs results with scientific data and farmer opinion • Suggested to take up scientific cultivation of vegetables in paddy fallow lands for improving the productivity. • Facility available at KVK for conducting soil health campaigns in each Gram Panchayath (98 no.) in the district in collaboration with the NABARD. • Requested to help in departmental Giriraja poultry popularization in the District by giving first-hand training on backyard poultry rearing. • Suggested to produce quality planting material in the plantation crops viz. Black pepper, coffee, Arecanut etc. and demonstration on nutrition garden can be initiated at KVK. • Requested to organize more collaborative trainings for the benefit of farmer and farmwomen. • Suggested to organize training programme on value addition in jack fruit, production of button mushroom, introduction of pepper varieties for wilt management. • Suggested to conduct Krishi mela at KVK demonstration farm every year on recent technologies	• Proposed a FLD on rejuvenation of Coorg mandarin in 20 farmres fields as per the package given by the CHES, Chettalli. The completed FLD programme on Paddy var. Tunga and FFS conducted a field day during the period in the implemented village. • A scientist farmer interface was organized on the utilization of paddy fallow in the district with suitable alternative crops. Scientists from IISR, Calicut, IIHR, Bengalore, CPCRI, Kasargod and CIFA, Hessaraghatta participated and suggestions offered to the possible interventions. Efforts are being made to compile implemented and completed OFT and FLD results. • Demonstrated one acre of vegetable crops and recent varieties released by IIHR, Bengaluru at KVK farm and made provision to visit farmers to the district during the tech week celebration. • Two soil health campaigns were organized in collaboration with the NABARD, highlighted the importance of soil testing and collected the samples from coffee plantations, analysed and hand over the results within 20 days. • Three training programmes on poultry were conducted in association with the AH & VS and also procured poultry birds from them and distributed under IFS programme. • Black pepper rooted cuttings (2500 no.), C x R coffee seedlings(9500 no.) and Thirthalli Arecanut seedlings(5500 no.) sold to the 65 farmers during the period. Due to labour and water scarcity nutrition garden could not taken up. • During the period, 12 trainings were conducted in collaboration with the Dept. of Horticulture, 08 trainings in collaboration with the NGO(SKDRDP), 04 trainings in collaboration with AH & VS and 06 trainings in collaboration with the coffee board. • Organized a scientist farmer interface on performance and production of pepper grafts and organized more than 22 trainings programme on value addition programmes in fruit and vegetable crops. • KVK made an first time effort to show latest technologies in the field of vegetable cultivation, banana cultivation, piggery enterprise and pepper garden management in the organized agriculture technology week during 10-13th December 2013. A total of 900 farmer, farmwomen and extension functionaries participated in the programme.

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	Coffee + Pepper + Coorg Mandarin
2	Coffee + Pepper + Cardamom
3	Paddy, Ginger, Banana, Vegetables in low lands
4	Coffee + Pepper + Arecanut
5	Horticulture + Animal Husbandry

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

S. No	Agro-climatic Zone	Characteristics
1	Sub tropical humid zone	Mountainous with altitude of 2400 feet above MSL Mean Annual rainfall- 2800 mm

S. No	Agro ecological situation	Characteristics
1	Major intercrops in multi tier cropping system are Coffee, Pepper, Cardamom, Coorg mandarin and Arecanut. Paddy and Ginger are the crops of low lying areas.	Misty climate with clouds with less relative humidity in South Coorg area and less misty, semi malnad climate in North Coorg.

2.3 Soil type/s

S. No	Soil type	Characteristics	Area in ha
1	Sandy loam soils	Acidic, low to medium clay content	99560
2	Red loam soils	With good humus content	123965
Total			**223525**

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

S. No	Crop	Area (ha)	Production (tons)	Productivity (kg /ha)
1	Coffee	104730	124100	1184
2	Pepper	8880	39385	448
3	Cardamom	9043	1164	130
4	Coorg Mandarin	943	23575	25000
5	Banana	1541	9973	6472
6	Arecanut	2994	4188	1413
7	Paddy	35362	127116	3784

2.5. Weather data

Month	Rainfall (mm)	Temperature ^{0} C		Relative Humidity (%)
		Maximum	Minimum	
April 2012	72.7	33.60	18.70	66.72
May 2012	168.7	30.93	20.62	71.41
June 2012	276.8	25.71	19.72	80.36
July 2012	690.4	26.34	19.22	82.43
August 2012	682.7	24.75	19.18	82.48
September 2012	401.1	27.61	17.98	78.17
October 2012	192.6	59.00	35.10	99.45
November 2012	62.3	59.70	29.50	70.45
December 2012	33.4	30.29	13.95	67.21
January 2013	0.3	31.66	12.36	62.04
February 2013	3.2	31.55	14.71	63.93
March 2013	37.4	32.29	16.91	64.98

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

Category	Population	Production	Productivity
Cattle			
Crossbred	116515	-	-
Indigenous		-	-
Buffalo	31616	-	-
Sheep			
Crossbred	416	-	-
Indigenous		-	-
Goats	4472	-	-
Pigs	24748	-	-
Rabbits			
Poultry			
Hens	269826	-	-
Desi		-	-
Improved		-	-
Ducks	-	-	-
Turkey and others	-	-	-
Category	**Area**	**Production**	**Productivity**
Fish	-	-	-
Marine	-	-	-
Inland	-	-	-
Prawn	-	-	-
Scampi	-	-	-
Shrimp	-	-	-

* District profile has been **Updated** for 2013-14 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	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Madikeri	• Bhagamandala	• Thavoor • Korangala	2010-14	• Coffee,Pepper • Arecanut,Ginger • Anthurium, • Cardamom • Paddy,Vegetables • Piggery	• Poor yield in Paddy and Arecanut • Berry borer in coffee, • Wilt in Pepper • Lack of knowledge on value addition • Shoot borer problem in Ginger	• High Yielding varieties of Paddy • Integrated nutrient mgmt. • IPDM in Horticultural crops • Value addition in fruits and vegetables • Income generation
2	Virajpet	• Mayamudi	• Kaikeri • Dhanugala	2010-14	• Coffee,Pepper • Arecanut,Ginger • Banana, Paddy • Piggery.Poultry • Value addition	• Low yield in Paddy • Poor yield in Banana • Berry borer in coffee • Wilt in Pepper • Lack of knowledge on value addition • Poor quality pork production	• Integrated nutrient management in Pepper and Paddy • IDM in Pepper • Value addition in fruits and vegetables • Upgradation of local Pigs
3	Somwarpet	• Areyuru	• Areyuru • Chowdlu	2009-12	• Coffee, Pepper • Maize, Ginger • Cardamom, • Vegetables, Value addition	• Berry borer in coffee • Low yield and Wilt in Pepper • White stem borer in Coffee • Lack of knowledge on value addition • Poor nutrient status in paddy	• Introduction of HYV of Chilly • IPM in Chilly • Value addition in fruits and vegetables • INM in Vegetables

2.9 Priority thrust areas

Sl. No	Thrust areas
1	Integrated Nutrient Management in Paddy,Banana
2	Introduction of High Yielding Varieties in cereal and plantation and spices crops
3	Plant Protection in Agri and Horticultural crops
4	Value addition in Horticultural crops
5	Upgradation of Local Pigs
6	Introduction of Fodder crops
7	Entrepreneurship programmes for groups

PART III - TECHNICAL ACHIEVEMENTS

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

OFT				FLD			
1				2			
Number of OFTs		Number of farmers		Number of FLDs		Number of farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
04	04	25	25	10	09	330	300

Training				Extension Activities			
3				4			
Number of Courses		Number of Participants		Number of activities		Number of participants	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
100	97	2500	3316		1375		6322

Seed Production (Qtl.)		Planting material (Nos.)	
5		6	
Target	Achievement	Target	Achievement
0.5	0.45	20000	26096

Livestock (No.)		Bio-products (Kg)	
7		8	
Target	Achievement	Target	Achievement
50	56	-	-

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

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions										
				Title of OFT if any	Title of FLD if any	Number of Training (farmers)	Number of Training (Youths)	Number of Training (extension personnel)	Extension activities (No.)	Supply of seeds (Qtl.)	Supply of planting materials (No.)	Supply of livestock (No.)	Supply of bio products	
													No.	Kg
1	Varietal	Ginger	Poor yield and dry recovery	Assessment of high yielding Ginger variety IISR Varada	-	3	-	-	4	150 kg	-	-	-	-
2	Spacing	Banana	Low plant population leading to reduced yield and quality	Assessment of Paired row planting system in Banana var. G-9	-	3	-	-	4	-	2000 No. TC banana	-	-	-
3	INM	Banana	Low yield Improper nutrition	-	Enhancement of Bunch size in Banana	5	-	-	5	-	-	-	-	-
	INM	Citrus	Low yield Improper nutrition		Rejuvenation of coorg mandarin	1	-	-	5					
4	Pest management	Coffee	Incidences of white stem borer	Assessment of white stem borer mgmt. in Arabica coffee	-	3	-	-	3	-	-	-	-	-
5	Disease mgmt.	Piggery	Permanent lameness in adult pigs	Assessment of effective treatment for Foot rot in pigs	-	2	1	1	3	-	-	-	-	-

6			Paralysis in piglets	-	Effective treatment for Hind Limb paralysis in pigs	4	1	3	3	-	-	-	-	-
7			Poor body weight gain in local pigs	-	Upgradation of local pigs using Duroc Boars	6	1	1	5	-	-	10 boars	-	-
8	Introduction of HYV	Paddy	Low yield	-	Introduction of Paddy variety Tunga	6	-	3	2	6.0	-	-	-	-
			Incidences of Blast disease	-	Management of Blast disease in Paddy	4	-	1	2	-	-	-	-	-
9	ICM	Chilli	Low yield, Lack of awareness on hybrids Improper application of nutrients and pesticides	-	ICM in Chilli	2	-	-	2	1 kg	-	-	Microbial consortia	30 kg
10	Disease management	Pepper	Quick wilt disease incidences	-	Management of Quick wilt disease in Pepper	6	-	-	8	-	-	-	Trichoderma	100 kg
8	Live stock	Goatary	Parasitism leading to poor body gain	-	Introduction of effective endectoparasiticides in goats	3	-	-	6	-	-	-	-	-

3.B2. Details of technology used during reporting period

S.No	Title of Technology	Source of technology	Crop/enterprise	No. of programmes conducted			
				OFT	FLD	Training	Others (Specify)
1	2	3	4	5	6	7	8
1	Assessment of high yielding Ginger variety IISR Varada	IISR, Calicut	Ginger	1		3	4
2	Assessment of Paired row planting system in Banana var. G-9	NRC-B, Trichi	Banana	1	-	3	4
3	Assessment of white stem borer mgmt. in Arabica coffee	CCRI, Balehonnur	Coffee	1		3	3
4	Assessment of effective treatment for Foot rot in pigs	KVAFSU, Bidar	Piggery	1		4	3
5	Enhancement of Bunch size in Banana	IIHR, Bangalore	Banana		1	5	5
6	Effective treatment for Hind Limb paralysis in pigs	KVAFSU, Bidar	Piggery		1	7	3
7	Upgradation of local pigs using Duroc Boars	KVAFSU, Bidar	Piggery		1	8	5
8	Introduction of Paddy variety Tunga	UAS, Bangalore	Paddy		1	9	2
9	Management of Blast disease in Paddy	UAS, Bangalore	Paddy		1	5	2
10	ICM in Chilli	IIHR, Bangalore	Chilli		1	2	2
11	Management of Quick wilt disease in Pepper	IISR, Calicut	Pepper		1	6	8
12	Introduction of effective endectoparasiticides in goats	KVAFSU, Bidar	Goatary		1	3	6
13	Rejuvenation of coorg mandarin	IIHR, Bengaluru	Coorg mandarin		1	1	5

3.B2 contd..

No. of farmers covered															
OFT				FLD				Training				Others (Ext. activity)			
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
19		11		133	28	33	16	3116	1961	5077	579	461	1042	174	29

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
Varietal Evaluation				1						
Integrated Pest Management				1						
Integrated Crop Management						1				
Total				**02**		**01**				

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

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

Thematic areas	Cattle	Poultry	Piggery	Rabbitry	Fisheries	TOTAL
Disease of Management			**01**			
TOTAL			**01**			

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

4.B. Achievements on technologies Assessed and Refined

4.B.1. Technologies Assessed under various Crops

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha (Per trail covering all the Technological Options)
Varietal Evaluation	Ginger	Assessment of High Yielding Ginger variety IISR Varada	05	05	1.0
Integrated Pest	Coffee	Assessment of white stem borer	10	10	2.0

Management		management in Arabica coffee			
Integrated Crop Management	Banana	Assessment of Paired row system of planting in Banana variety Grand naine	05	05	2.0
Total	**03**		**20**	**20**	**5.0**

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

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	Piggery			
Value addition				
Production and management				
Feed and fodder				
Small scale income generating enterprises				
Total				

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

4.C1. Results of Technologies Assessed

Results of On Farm Trial

1. **Assessment of High Yielding Ginger variety IISR Varada**

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
Ginger	Protected irrigation	Low yield and poor dry recovery	Assessment of High Yielding Ginger variety IISR Varada	05	Himachal	Yield q/ha	115.6	181.7	Noticed higher yield, less disease incidence and suitable for late harvesting		
					Rio-de-geneiro	Yield q/ha	162.5				
					IISR Varada	Yield q/ha	181.7				

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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 : Himachal	-	**115.6**	q/ha	406120	3.08
Technology option 2: Rio -de -geneiro	UAS-B	**162.5**	q/ha	650000	4.33
Technology option 3: IISR Varada	IISR, Calicut	**181.7**	q/ha	749840	4.85

2. Assessment of Paired row system of planting in Banana variety Grand naine

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
Banana	Protected irrigation	Low yield and quality due to reduced plants/ha	Assessment of Paired row system of planting in Banana variety Grand naine	05	2x2M single row (2225 pl/ha)	Yield (t/ha)	325	52.5	Higher bunch per unit area and medium sized bunches fetched good price in the market leading higher returns/ha		
					1.8x1.8M single row (3000 pl/ha)	Yield (t/ha)	395				
					Paired row of 1.2x1.2x2.0M (5200 pl/ha)	Yield (t/ha)	525				

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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 : 2x2M single row(2225 pl/ha)	-	325	q/ha	148000	2.32
Technology option 2: 1.8x1.8M single row(3000 pl/ha)	UAS-B	395	q/ha	201000	2.82
Technology option 3: Paired row of 1.2x1.2x2.0M (5200 pl/ha)	NRC, Trichi	525	q/ha	302000	3.75

3. Assessment of white stem borer management in Arabica coffee

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
Coffee	Rainfed	Infestation of white stem borer leading to death of plants	Assessment of white stem borer management in Arabica coffee	10	Rubbing with gunny bags followed by lime application	q/ha	39.2	50.5	Pasting of healer and sealer mixture reduced the percentage of infestation and recovery of infected plant leading to higher yield		
					Wrapping with polypropylene strips and installation of yellow sticky traps	q/ha	48.6				
					Pasting of healer and sealer mixture	q/ha	50.5				

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 : Rubbing with gunny bags followed by lime application	UAS-B	39.2	q/ha	156800	2.60
Technology option 2 Wrapping with polypropylene strips and installation of yellow sticky traps	CCRI, Balehonnur	48.6	q/ha	209900	2.98
Technology option 3 Pasting of healer and sealer mixture	IIHR, Bengaluru	50.5	q/ha	230250	3.35

4. Assessment of Effective treatment for Foot rot/soft hoof in pigs

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
Piggery	Rainfed	Permanent lameness in adult pigs leading to death of animal	Assessment of Effective treatment for Foot rot/soft hoof in pigs	10	Application of Neem Oil and Turmeric Powder	Body wt gain (at 12 Month) % recovery	80 kg 10%		Option 2 found better with respect body wt. gain and % recovery of animals		
					• Usage of Inj.Isoflupredone acetate • Inj.Oxytetracyclin long acting • Inj.Vit.B-Complex	Body wt gain(at 12 Month) % recovery	120 kg 72%				
					• Usage of ZnSO4 as Feed additive • Inj.Doramectin	Body wt gain(at 12 Month) % recovery	130 kg 80%				

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 : Application of Neem Oil and Turmeric Powder	-	80 kg	Body wt gain(at 12 Month)		
Technology option 2:Usage of Inj.Isoflupredone acetate • Inj.Oxytetracyclin long acting Inj.Vit.B-Complex	TANUVAS, Chennai	120 kg	Body wt gain(at 12 Month)		
Technology option 3:Usage of ZnSO4 as Feed additive Inj.Doramectin	KVAFSU, Bidar	130 kg	Body wt gain(at 12 Month)		

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

1. **Assessment of High Yielding Ginger variety IISR Varada**

Title of Technology Assessed	Assessment of High Yielding Ginger variety IISR Varada
Problem Definition	Low yield and poor dry recovery
Details of technologies selected for assessment	IISR Varada
Source of technology	IISR, Calicut
Production system and thematic area	Protected irrigation and varietal trial
Performance of the Technology with performance indicators	Noticed higher yield, less disease incidence and suitable for delayed harvesting.
Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	Group meeting, Field day
Final recommendation for micro level situation	Performed better in yield and dry recovery than the recommended variety Rio de geneiro and Himachal
Constraints identified and feedback for research	Nil
Process of farmers participation and their reaction	Farmer opinion taken through Group meeting, Training, details after the crop completion to come to the final conclusion.

2. **Assessment of Paired row system of planting in Banana variety Grand Naine**

Title of Technology Assessed	Assessment of Paired row system of planting in Banana variety Grand Naine
Problem Definition	Low yield and quality due to reduced plants/ha
Details of technologies selected for assessment	Paired row system of planting
Source of technology	NRC, Trichi
Production system and thematic area	Protected irrigation and spacing trial
Performance of the Technology with performance indicators	Noticed higher yield, medium sized bunch
Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	Group meeting, Training and Field day
Final recommendation for micro level situation	Quantity and quality bunches results in higher returns per ha.
Constraints identified and feedback for research	Nil
Process of farmers participation and their reaction	Farmer opinion taken through Group meeting, Training, details after the crop completion to come to the final conclusion

3. Assessment of white stem borer management in Arabica coffee

Title of Technology Assessed	Assessment of white stem borer management in Arabica coffee
Problem Definition	Infestation of white stem borer leading to death of plants
Details of technologies selected for assessment	Pasting of healer and sealer mixture
Source of technology	IIHR, Bengaluru
Production system and thematic area	Rainfed and Pest management
Performance of the Technology with performance indicators	Pasting of healer and sealer mixture reduced the percentage of infestation and recovery of infected plant leading to higher yield
Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	Group meeting, Training and Method demonstration
Final recommendation for micro level situation	Timely pasting of healer and sealer mixture increased the survivability of infected plants
Constraints identified and feedback for research	Nil
Process of farmers participation and their reaction	Farmer opinion taken through Group meeting, Training, details after the crop completion to come to the final conclusion

4.D1. Results of Technologies Refined : Nil

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	
1	Cereals	Rainfed	2013 kharif	Paddy	Tunga		Varietal	Demonstration of high yielding paddy variety Tunga	4.0	4.0	4	16	20	
		Rainfed	2013 kharif	Paddy	Intan		Disease mgmt.	Blast disease mgmt. in Paddy	4.0	4.0	5	35	40	
2	Vegetables	Protected irrigation	2013 Rabi	Chilli		Arka Meghana	ICM	ICM in chilli	4.0	4.0	6	14	20	
		Rainfed	2013	Cowpea		Arka Samruddi	Varietal	High yielding cowpea var. Arka Samruddi	Could not be taken due to non availability of seed material					
3	Fruit	Protected irrigation	2013	Banana	G-9		Nutrient mgmt.	Enhancement of Bunch size in Banana	4.0	4.0	06	24	30	
		Rainfed	2013	Coorg mandarin			ICM	Rejuvenation of Coorg mandarin	2.0	2.0	02	18	20	
4	Spices and condiments	Rainfed	2013	Pepper		P-1	IDM	IDM in pepper	2.0	2.0	06	14	20	
5	Piggery	-	2013	Piggery	Duroc		Upgradation	Upgradation of local pigs using Duroc boars			04	06	10	
		-	2013	Piggery	Duroc		Disease mgmt.	Effective treatment for hind limb paralysis in pigs			08	12	20	
6	Sheep and goat	-	2013	Goatary	Malabari		Pest mgmt.	Demonstration of effective Endectoparasiticides in goats	-	-	12	18	30	

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	
	Cereals	Rainfed	2013 kharif	Paddy	Tunga	-	Varietal	High yielding paddy variety Tunga	2013 kharif	M	M	L	Paddy
		Rainfed	2013 kharif	Paddy	Intan	-	Disease mgmt.	Blast disease management in Paddy	2013 kharif	M	M	M	Paddy
	Vegetables	Protected irrigation	2013 Rabi	Chilli	-	Arka Meghana	ICM	ICM in chilli	2013 Rabi	M	M	M	Paddy
	Fruit	Protected irrigation	2013	Banana	G-9	-	Nutrient mgmt.	Enhancement of Bunch size in Banana	2013	H	M	L	Vegetables
		Rainfed	2013	Coorg mandarin	-	-	ICM	Rejuvenation of Coorg mandarin	2013	M	M	L	Coorg Mandarin
	Spices and condiments	Rainfed	2013	Pepper	-	P-1	IDM	IDM in pepper	2013	M	M	L	Pepper

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										
Cereals	High yielding paddy variety Tunga	Tunga		Rainfed	20	4.0	44.5	34.5	39.5	33.8	16.86	28000	51350	23350	1.83	28000	43940	15940	1.56
	Blast disease mgmt. in Paddy	Intan		Rainfed	40	4.0	34.8	28.5	31.65	24.2	30.79	28000	41145	13145	1.46	28000	31460	3460	1.12
Vegetables	ICM in chilli		Arka Meghana	Protected irrigation	20	4.0	195	135	165	122	35.25	65680	168300	102620	2.56	45000	79300	34300	1.76
Fruit	Enhancement of Bunch size in Banana	G-9		Protected irrigation	30	4.0	912.5	763.5	838.0	678.3	23.54	178635	670400	491765	3.75	165250	474810	309560	2.87
	Rejuvenation of Coorg mandarin			Rainfed	20	2.0	148.6	122.5	135.5	109.2	24.08	62350	108400	46050	1.7	42560	49140	6580	1.15
Spices and condiments	IDM in pepper		P-1	Rainfed	20	2.0	13.9	8.35	11.12	7.85	41.66	161500	611600	450100	3.78	155200	431750	276550	2.78

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

Technology	Data on other parameters in relation to technology demonstrated		
	Parameter with unit	**Demo**	**Check**
Demonstration of high yielding paddy variety Tunga	No. of tillers /hill Plant height(cm)	15.2 96.5	12.3 95.2
Blast disease mgmt. in Paddy	No. of tiller /hill Plant height(cm) % dis. Incidence	14.7 85.6 8.2	11.3 77.7 36.3
ICM in chilli	Plant height(cm) No. of branches	72.5 6.0	68.5 3.75
Enhancement of Bunch size in Banana	Leaf size(cm) No. of hands/bunch	182x42.5 9.0	155.8x1.9 7.0
Rejuvenation of Coorg mandarin	No. of fruits/plant	1250 fruits	780 fruits -
IDM in pepper	% dis. Incidence	12.78	26.75

5.B.2. Livestock and related enterprises

Type of livestock	Name of the technology demonstrated	Breed	No. of Demo	No. of Units	Body weight(kg)/yr				% 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										
Pigerry	Effective treatment for Hind Limb paralysis in pigs	Duroc	-	20	125	75	100	80	25.0	42700	113250	70550	2.65	41120	93000	51880	2.26
	Upgradation of local pigs using Duroc Boars	Duroc	-	10	78.8	67.6	73.02	55.5	31.57	60600	294000	233400	4.85	49400	167500	118100	3.39
Sheep and goat	Introduction of effective endectoparasiticide in goats	Malabari	-	20	35	25	30	25	20								

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
Effective treatment for Hind Limb paralysis in pigs	Percent recovery	80.0	40.0
Upgradation of local pigs using Duroc Boars	Age at first maturity	9 months	11 months
Introduction of effective endectoparasiticide in goats	Age at first sexual maturity	8 months	10 months

5.B.3. Fisheries : Nil

5.B.4. Other enterprises : Nil

5.B.5. Farm implements and machinery : Nil

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

Sl.No.	Activity	No. of activities organised	Number of participants	Remarks
1	Field days	3	175	-
2	Farmers Training	8	135	-
3	Media coverage	5	-	-
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										
Vegetable crops	ICM in Chilli	Arka Meghana	20	4.0	195	135	165	122	35.3	65680	168300	102620	2.6	45000	79300	34300	1.8
Total																	

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
Horticulture										
Organic cultivation of vegetables	1	20	04	24	07	04	11	27	08	35
Bonsai	1	6	10	16	01	03	04	07	13	20
Plant protection	0	0	0	0	0	0	0	0	0	0
Use of Bio control agents in plant dis. mgmt	1	08	06	14	04	03	07	12	09	21
Livestock Production and Management	0	0	0	0	0	0	0	0	0	0
Green fodder cultivation	1	15	01	16	06	02	08	21	03	24
Piggery Management	2	10	30	40	03	17	20	13	47	60
Home Science/Women empowerment	0	0	0	0	0	0	0	0	0	0
Dry flower technology	1	8	08	16	01	03	04	09	11	20
Cookery	5	00	102	102	00	34	34	00	136	136
Processing and Preservation of Fruits and	5	17	90	107	00	38	38	17	128	145

Vegetables										
Income generating activity for SHG	1	00	20	20	00	11	11	00	31	31
Soil health and fertility mgmt.	0	0	0	0	0	0	0	0	0	0
Soil testing and nutrient mgmt.	1	15	02	17	06	01	07	21	03	24
Soil test based fertilizer application	1	07	10	17	05	08	13	12	18	30
TOTAL	**20**	**106**	**283**	**389**	**33**	**124**	**157**	**139**	**407**	**546**

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										
ICM in paddy	06	185	00	185	28	00	28	213	00	213
Horticulture	0	0	0	0	0	0	0	0	0	0
Oyster mushroom cultivation	05	34	93	127	16	42	58	50	135	185
Winter/Summer vegetable cultivation	06	77	46	123	15	15	30	92	61	153
Vermi-composting	01	03	08	11	02	02	04	05	10	15
Production technology of Banana	05	50	20	70	31	09	40	81	29	110
Plant protection										
IPDM in pepper	04	90	30	120	16	06	22	106	36	142
IPDM in Hort. Crops	01	30	00	30	17	00	17	47	00	47
White stem mgmt. in coffee	03	77	00	77	23	00	23	100	00	100
Bio control agents in disease mgmt.	01	08	20	28	02	07	09	10	27	37
IPM in Paddy	01	20	00	20	8	00	8	28	00	28
Safe use of pesticides	01	20	03	23	11	02	13	31	05	36
IPM in Chilli	01	18	00	18	08	00	08	26	00	26
IDM in chilli	01	20	00	20	10	00	10	30	00	30
Berry borer mgmt. in coffee	01	20	02	22	08	02	10	28	04	32

IPM in vegetables	01	10	10	20	05	06	11	15	16	31
IDM in Paddy	01	00	30	30	00	10	10	00	40	40
Livestock Production and Management	0	0	0	0	0	0	0	0	0	0
Scientific goat farming	02	20	20	40	13	17	30	33	37	70
Scientific pig farming	04	40	98	138	07	15	22	47	113	160
Backyard poultry farming	02	30	20	50	11	11	22	41	31	72
Vaccination in animals	03	30	50	80	15	27	42	45	77	122
Home Science/Women empowerment	0	0	0	0	0	0	0	0	0	0
Processing and Presn. of Fruits and Vegetables	08	289	297	586	107	184	291	396	481	877
Income generating activity for SHGs	03	04	80	84	01	27	28	05	107	112
Soil health and fertility mgmt.	0	0	0	0	0	0	0	0	0	0
Soil testing and soil test based fertilizer appln.	03	31	28	59	10	13	23	41	43	84
TOTAL	**64**	**1106**	**855**	**1961**	**364**	**395**	**759**	**1470**	**1252**	**2722**

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**
Oyster mushroom cultivation	1	25	9	34	10	06	16	35	15	50
Value addition in Hort. crops	1	03	24	27	02	06	08	05	30	35
TOTAL	**2**	**28**	**33**	**61**	**12**	**12**	**24**	**40**	**45**	**85**

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**
Income generating activities	2	20	55	75	06	21	27	26	76	102
TOTAL	**2**	**20**	**55**	**75**	**06**	**21**	**27**	**26**	**76**	**102**

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
IPDM in Hort. crops	01	04	26	30	01	09	10	05	35	40
Sensitization prog. on FMD for district field vets	01	22	01	23	06	01	07	28	02	30
Importance of vaccination in animals	01	20	16	36	05	04	09	25	20	45
Soil testing and Soil test based fertr. appln.	01	16	06	21	05	03	08	21	09	30
Total	**4**	**62**	**49**	**110**	**17**	**17**	**34**	**79**	**66**	**145**

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

7.G. Sponsored training programmes - Nil

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

S.No.	Area of training	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
1	Scientific piggery farming(6 days)	01	15	14	29	03	04	07	18	18	33
2	Foundation course on agri and allied fields(6 days)	03	55	10	65	16	07	23	71	17	88
3	Importance of seed treatment, bio fertilizers and Micronutrients in crop production (2 days)	01	18	00	18	10	00	10	28	00	28
	Total	**5**	**88**	**24**	**112**	**29**	**11**	**40**	**117**	**35**	**149**

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 Days	04	130	50	180	32	20	52	06	02	08
Kisan Mela/Technology week	01	380	158	538	45	16	61	35	08	43
Exhibition	05	520	100	620	130	58	188	56	12	68
Film Show	25	120	310	430	62	46	108	98	16	114
Method Demonstrations	12	78	25	103	32	07	39	05	00	05
Workshop	01	25	02	27	03	00	03	28	03	31
Group meetings	12	78	12	90	14	04	18	06	00	06
Lectures delivered as RP	45	331	550	881	54	116	172	85	16	111
Newspaper coverage	45	0	0	0	0	0	0	0	0	0
Popular articles	06	0	0	0	0	0	0	0	0	0
Extension Literature	18	180	280	460	28	56	84	208	336	544
Advisory Services	165	132	36	168	28	9	37	11	06	17
Scientific visit to farmers field	88	92	18	110	12	06	18	-		
Farmers visit to KVK	885	508	189	697	36	42	78	98	18	116
Diagnostic visits	22	14	05	19	02	01	03			
Soil health Campaigns	03	132	00	132	20	00	20	06	01	07
Animal Health Camp	13	208	30	238	50	13	63	08	01	09
Soil test campaigns	01	36	03	39	08	06	14	04	00	04
Expert Farmer Media Interface	02	40	70	110	05	25	30	18	06	24
Women in Agril day	01	04	52	56	01	18	19	06	02	08
World veterinary day	01	0	0	0	0	0	0	48	04	52
Media meet	02	0	0	0	0	0	0	65	05	70
Seminar	01	62	03	65	08	02	10	05	02	07
Radio talks	18									
TV programmes	04									
Total	**1375**	**3116**	**1961**	**5077**	**579**	**461**	**1042**	**174**	**29**	**203**

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 (kg)	Value (Rs)	Number of farmers to whom provided
Vegetables	Yard long bean	Arka Mangala	-	7.5	7500	10
	French bean	Arka Suuvidha	-	11.0	4400	02
	French bean	Arka Sharath	-	10.0	4000	11
	French bean	Arka Anoop	-	3.5	1400	05
	Cowpea	Arka Samruddi	-	3.0	1200	02
	Pea	Arka Karthik	-	5.0	2000	12
	Chilli	Arka Suphal	-	1.5	750	05
	Dolichos bean	Arka Sambram	-	3.0	1200	06
	Tomato	Arka Vikas	-	1.0	1000	08
Total				**45.5**	**23450**	**61**

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
Plantation	Coffee	S 274 CXR	-	13652	163824	68
	Arecanut	Theerthalli	-	12444	74664	38
Spices	Pepper	-	P-1	10	60	03
	Ginger	IISR varada	-	175	9625	05
Fruits	Banana	G-9	-	1250	6250	16
	Passion fruit	-	Kaveri	50	1000	-
Fodder	Fodder	CO-3		9200	9200	40
	Fodder	Co-4		200	200	06
	Fodder	NB-21		100	100	06
		Green panic		100	100	06
Total				**9500**	**27,675**	716

9.C. Production of Bio-Products: Nil

9.D. Production of livestock materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	Number of farmers to whom provided
Goatary	Malabari	06	6000	04
Piggery	Duroc CB	50	149500	26

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.)

Date of start	No. of copies distributed
April- June 2013	200
July- September 2013	200
October- December 2013	200
January- March 2014	200

15. Literature developed/published

Item	Title	Authors name	Number
Book	Package of practices(2nd edition)	Dr. P C Tripathi, Prabhakar, B and K. V. Veerendrakumar, Suresh, S.C. and K A Devaiah	500
Technical reports	Proceedings of Agricultural technology week		50
Technical bulletin	Production of organic inputs and their utilization	Dr. P C Tripathi, Prabhakar, B and K. V. Veerendrakumar	200
Popular articles	Management of white stem borer in A. Coffee	K. V. Veerendrakumar	-
	Management of quick wilt disease in Pepper	K. V. Veerendrakumar	
	Preparation of Bordeaux mixture	K. V. Veerendrakumar	
	Koleroga disease management in Arecanut	K. V. Veerendrakumar	
Extension Folders	Safe use of pesticides Backyard poultry rearing Scientific goat rearing Black pepper production technology Coffee production technology Banana production technology	Prabhakar, B and K. V. Veerendrakumar Suresh, S.C. Suresh, S.C.	500 200 200 500 500 500
Training Manual	Integrated crop production and animal husbandry practices for higher yield and farm profitability	Dr. P C Tripathi, Prabhakar, B and K. V. Veerendrakumar, Suresh, S.C. and K A Devaiah	120
	PPV & FRA,DUS testing in Horticultural crops	Dr. P C Tripathi, Veerendrakumar Prabhakar, B	120
TOTAL			**652**

10.B. Details of Electronic Media Produced: Nil

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

1. A successful Integrated farmer

Mr. P Sadashiva, Hebbale village, Kushalnagar Hobali, Somwarpet taluk practicing crop and animal husbandry practices profitably in association with the KVK personnel advisory from past two years. He grew paddy (Rajabhoga) every year followed by vegetables cultivation(Brinjal, Bhendi, Chilli, Cowpea, Beans) and getting good yield of paddy and additional income from vegetables apart from maintaining soil health by incorporation of crop residues, He is selling his vegetables in the nearby market himself and reaping good amount than giving entire crop at the traders. He is having one acre of ginger, where he harvest good quality ginger and is having four HF cows, four buffaloes The milk is sold through the milk cooperative society in his village and is earning income every day. He is a good organizer, planner and have good contact with the line departmental officials. He himself keeps busy in his helping to boost his family income and neighboring village farmer. A total of 6.5 lakh income s has harnessed during the year 2012 from his crop and animal husbandry activities and he is hoping to get the same form the up the future too.

2. INTEGRATED FARMING SYSTEM

Mr. Kannan, A rehabilitant (Harangi dam) small farmer of Athur Hanrangi village, Kushalnagar Hobali, Somwarpet taluk practicing crop and animal enterprises in his small land holding of 4 acre. He is having a small house with a wife growing every year 2 acre of maize (46 q), 0.5 acre of ginger(150 bags), 1.0 acre of coffee(1 yr old) and 0.5 acre of vegetables(sweet potato, brinjal, bhendi) conventionally and poultry bird as an alone animal component in his farm. His active participation in the KVK organized training programme at his village during the year 2012-13 impressed the KVK technical team and started giving all scientific knowledge for the overall improvement of his farm. In the year 2012-13 advised to take up maize hybrid Allrounder in 2 acre, 0.5 acre with Rio-de-geneiro ginger, 50 number of Giriraja bird rearing for egg and meat production and elephant foot yam in half acre land. Regular field visit and advisory were rendered right from the land preparation to harvesting of the crop, during the year he harvested 86 q of maize, 200 bags (60 kg each) of ginger and 0.25 ton of elephant yam. He sold his produces in the nearby RMC market with the scientific prices and got a very good income of Rs. 74,500 @ Rs. 900/q d, Rs. 4,60,000 @ Rs. 2300/bag and Rs. 25,000 @ Rs.10/kg in Maize, Ginger and elephant foot yam respectively in the ensuing year. Know he is the role model farmer in the village and selected his farm in the Bhoo-chethana programme beneficiary as a demonstration plots to train the neighboring farmers.

3. COFFEE BASED INTEGRATED FARMING SYSTEM

Mr. P. R. Subash, Lakshimishwara Estate, Arvathoklu village, Virajpet taluk a planter having coffee, pepper , area nut, dairy, oatary etc., in his mixed farming system, facing lot of labour problem and fluctuating price of the commodity grown in his farm. He came in contact with KVK during the year 2007 and taken regular advisory services from the KVK experts for the management of his estate and animal enterprise, dairy unit scientifically (shed, drainage, feeding, milking, vaccinations, packing and marketing). In the year 2013-14 he got a total income of Rs. 20 lakhs from coffee, Rs. 7.5 lakhs from black pepper, Rs. 50,000 from Arecanut and Rs. 5.47 lakhs from dairy. Apart from above enterprises he is also maintaining a stall fed Sirohi and Malabari goat units for kid production and sales, planting material of black pepper and coffee for his garden every year. During the year 2012-13 he taken up value addition of pepper by producing red pepper and sold through bye back agreement. In his garden different varieties of fodder grass viz. Co3, Co4, NB 21, Guinea, Para grass were established for feeding to the dairy animals, there he is meeting the required balance of dry and green fodder to the animals. Because of his innovative farm activities and eagerness to adopt new technologies he has been awarded as Best IFS farmer in the district during the year 2010 and home stead sprayer developed recognized by KVK and the same presented in the innovative meet held at IIHR, Bengaluru was well appreciated.

4. A SUCCESSFUL PIGGERY ENTREPRENEUR

Mrs. Suchitra Sudeedra, a small farmer at Kannagala village, Ammathi hobali, Virajpet taluk started piggery with one male and female in the year 2006 as one of the additional enterprise in her coffee based inter cropping system (Coffee – 2 acre, Pepper 100 vines, Arecanut 60 no. sheep(10 no.), poultry birds(20no.), and dairy cow(2 no.). She had been in contact with the KVK in the year 2012 in one of the off-campus training programme organized by Sri Kshetra Dharmasthala Rural Development Project. She started expansion of her piggery unit year by year after seeing the demand in the area to a main enterprise in the farm. In the year 2013-14 the piggery stock raised to 15 female and two male. She sells piglets of cross breed of Yorkshire, Land race and Duroc and cleaned pork to the social functions. The earning in the year 2012-13 was Rs. 3.5 lakhs(272 piglets) and Rs. 6.0 lakhs in the year 2013-14 by sale of piglets and all other enterprise in the farm. All these enterprises helped her to purchase a new auto, car, house, education of the two children's and recognition by the different agencies in the district. In the year 2012-13, UAS, Bengaluru awarded as the best women piggery entrepreneur and felicitation by the various NGOs. The KVK and other local NGOs utilizing her expertise in the field of piggery production by inviting as a resource persons to train the other SHG members in the district as well as other farm women.

1. A SUCCESSFUL WOMEN ENTREPRENEUR

Mrs. Vilina Karyappa, Devanageri village, Virajpet taluk. A graduate cum house wife searching for an employment and recognition in the society, came in contact with the Krishi Vigyan Kendra, in one of the training programme in the year 2010-11. She being the member of farmers club, showed interest in growing and value addition of passion fruit with the aid of marketing support from the group apart from preparation of chocolates, wines and cookery items in her house. She prepares 25 different types of wines using the minor fruit, cereal, flowers crops which are available locally. In the year 2010-2013, she sold nearly 100 bottles of wines, 80 kg of chocolates, 150 bottles (750 ml) of passion fruit squash through the group assistance. The constant interest and motivation she is able to earn Rs. 6,000- 7,500 by selling value added products monthly and became a model member in the group. Also, she is interested in expansion of her enterprises in the coming days as one the main enterprise in the farm with the financial aid of the farmer club, banks to a small industry. After gaining name and fame in the club, the burden reduced for procurement of raw material for preparation of wines, squash, chocolates, as the growers are eagerly coming forward to give the fruits, which are become waste in the estate.

10.D. Give details of innovative methodology or innovative technology of Transfer of Technology developed and used during the year

Interface programme on rain water harvesting techniques	Involving farmers, entrepreneurs, media personnel
Field days	Organized 04 Field days involving department officials, neighboring farmers and beneficiaries. Arranged crop cutting experiment, interactions and experience sharing among the farmers and experts
Animal welfare campaign	Conducted 08 animal welfare campaigns, in all 600 farmers participated also 425 animals vaccinated
Soil testing campaign	Conducted 12 soil testing campaigns. A total of 417 farmers participated. 759 samples collected
Farmer to Farmer concept	Popularized and introduced this concept for piggery, Vermicomposting, Azolla cultivation and goatary
Strengthening the SHGs	Promoted SHGs networks Training in the field of entrepreneurship activities

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): Nil

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

- Identification of courses for farmers/farm women/Rural Youth/In-service personnel through visits and discussion with the department officials
- Group meeting on specific crops and their problems
- Survey of the cropped area during the season and interact with the growers
- Active discussion with the progressive farmers on various crops

10.G. Field activities

i. Number of villages adopted : 03
ii. No. of farm families selected : 132
iii. No. of survey/PRA conducted : -

10.H. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab : Good

1. Year of establishment : March 2007
2. List of equipments purchased with amount:

Sl. No	Name of the Equipment	Qty.	Cost
1	Almirah (soil storage cabinets)	3	23,841
2	Electronic automatic digestion chamber	1	52,118
3	Distillation set	1	99,225
3	Gas connections	2	5500
5	Elico rotator shaker	1	24,480

6	ECTDS analyzer	1	17,442
7	Flame photometer	1	38,000
8	Spectrophotometer	1	40,000
9	Digital pH meter	1	8550
10	Refrigerator with stabilizer	1	22,000
11	Hot air oven	1	11,000
12	Hot plate	1	4000
13	Aluminum partition	1	41,380
14	Chemical balance	1	**68,850**
15	Sample grinding mill	1	1,17,000
16	Fume cupboard	1	79,976
17	Water distillation still	1	95,625
Total		**20**	**6,31,987**

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	4395	1993	366	65925
Water Samples	-	-	-	-
Plant samples	-	-	-	-
Manure samples	-	-	-	-
Total	**4395**	**1993**	**366**	**65925**

Details of samples analyzed during the 2013-14

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized
Soil Samples	854	312	115	12810

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

Period of observing Technology Week : From 10/12/2013 to 13/122013
Total number of farmers visited : 530
Total number of agencies involved : 16
Number of demonstrations visited by the farmers within KVK campus : 12

Other Details

Types of Activities	No. of Activities	Number of Farmers	Related crop/livestock technology
Gosthies	8		Banana, Vegetables, Livestock and Coffee based mixed cropping system
Lectures organized	20		Banana, Vegetables, Livestock and Coffee based mixed cropping system
Exhibition	15		Banana, Vegetables, Livestock and Coffee based mixed cropping system
Film show	05		Banana, Vegetables, Livestock and Coffee based mixed cropping system
Fair	5		Banana, Vegetables, Livestock and Coffee based mixed cropping system
Farm Visit	4		Banana, Vegetables, Livestock and Coffee based mixed cropping system
Diagnostic Practical's	4		
Supply of Literature (No.)	4		
Supply of Seed (q)	10 kg		
Supply of Planting materials (No.)	230		
Bio Product supply (Kg)	40 kg		
Bio Fertilizers (q)	10 kg		
Supply of fingerlings	-		
Supply of Livestock specimen (No.)	-		
Total number of farmers visited the technology week	530		

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

PART XI. IMPACT

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

Transfer of technology from KVK in the farm of OFT/FLD/ trainings over a period of years and its impact in the villages of the district are follows

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
Upgradation local pigs using Duroc pigs	55	64	4000	7500
Cirtus special	60	15.0	12	22
Banana special	45	12.0	26	32
Enhancement of Bunch size in Banana	35	15	150	190
IDM in Black pepper	20	36.2	200000	360000
Mushroom	40	9.5	70	110
Value added products in Passion fruit	80	14.0	-	90
Pickle making	35	6.0	80	110

11.B. Cases of large scale adoption: Nil

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

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
High yielding Paddy variety – Tunga	45	83	13000/acre	16000/acre
Upgradation local pigs using Duroc pigs	30	45	4000/pig	7500/pig
Enhancement of Bunch size in Banana	60	29	125000/acre	200000/acre
HYV Ginger var. IISR Varada	12	15	160000/acre	210000/acre

PART XII – LINKAGES

12.A. Functional linkage with different organizations

Name of organization	Nature of linkage
Central Horticultural Experiment Station (IIHR), Chettalli	Mushroom spawn, Passion fruit, Bee keeping unit, minor fruit crops
Cardamom Research Centre, (IISR) Madikeri	Genuine planting material of pepper,
Department of Horticulture, Govt. of Karnataka, Madikeri	Collaborating in organizing training programmes, field days, new project proposals
DCC Bank & NABARD	Collaborating in organizing entrepreneurship training programmes
Coffee Board, Coorg	Pheromone traps for control of berry borer in coffee coffee package of practices and conducted training programmes coffee growing SHGs
SKDRDP, Kodagu	Conducting Soil testing campaigns and awareness programme, training programme for SHGs, resource persons for the krishimela, krishiuthsava, seminars etc.
Dept. of Agriculture, Madikeri	ATMA programme, demonstration of proven technologies, trainings, extension activities, resource person for the training programmes, seminars, Krishi uthsava etc.

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	Date/ Month of initiation	Funding agency	Amount (Rs.)
ATMA	2013-14	Dept. of Agriculture	400000

12.C. Details of linkage with ATMA

Is ATMA implemented in your district Yes

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

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**	-	05	06	-
03	**Training programmes**	IPM	18	08	-
04	**Demonstrations**	Front Line demonstrations	03	04	-
05	**Extension Programmes**	Field Day	-	02	-

	Soil health camps		-	03	-
	Animal Health Campaigns	Vaccination campaigns	-	05	-
06	**Publications**	-	-	-	-
	District package of practices			500	
	Extension Folder	-	-	04	-
	Posters			08	

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

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

12.F. Details of linkage with RKVY : Nil

12. G Kisan Mobile Advisory Services

Month	No. of SMS sent	No. of farmers to which SMS was sent	No. of feedback / query on SMS sent
April 2013	04	250	
May	03	780	
June	05	1500	
July	05	1500	
August	03	800	
September	04	800	
October	03	800	
November	03	650	
December	04	650	
January 2014	02	500	
February	02	500	
March 2014	02	500	
Total for the year 2013-14	40	9230	

PART XIII- PERFORMANCE OF INFRASTRUCTURE IN KVK

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

13.B. Performance of instructional farm (Crops) including seed production

Sl No	Name of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount	
					Variety	Type of produce	Qty (Kg)	Cost of input (Rs.)	Gross income (Rs)
1	Coffee	1987 1994	Jan	1.6	R.S-274 C x R	Cherry	2850	24000	145000
2	Pepper	1993 1994	March April	2.0	Panniyur-1	Dry pepper	1500	21000	65000
3	Sapota	1993	Oct March	1.0	Cricket ball	Fruit	8200	16000	81650
4	Arecanut	1998	March April	0.4	Theerthalli, Mohithnagar	Matured nut	1250	8000	15000
5	Coconuts	1996	-	0.4	D x T	T. coconut	8100 no.	4000	46521
6	Vegetables	2013	-	0.5	Local	Fruit/tuber/leaf	-	18000	35380
7	Banana	2012	Feb	0.5	G-9	Fruit	14000	35000	101000

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

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	
1	Goatary	Malabari	Piglet	06	3000	6000	
2	Piggery	Duroc CB	Goat kids	50	68000	149500	

13.E. Utilization of hostel facilities

Accommodation available (25)

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
April 2013	80	3	
May 2013	64	11	
June 2013	40	6	
July 2013	-	-	
August 2013	-	-	
September 2013	01	1	
October 2013	43	4	
November 2013	255	10	
December 2013	154	4	
Jan 2014	108	6	
Feb 2014	01	1	
March 2014	03	28	
Total	**749**	**74**	

13.F. Database management: Nil

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

PART XIV – FINANCIAL PERFORMANCE

14.A. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Branch code	Account Name	Account Number	MICR Number	IFSC Number
With Host Institute	SBI	Madikeri	0950	Principle Scientist & Head CHES, Chettalli	01000050017	-	-
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**		60.8	60.79
2	**Traveling allowances**		1.20	1.20
3	**Contingencies**			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)		2.45	2.45
B	POL, repair of vehicles, tractor and equipments		1.95	1.95
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)		0.85	0.83
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)		0.75	0.75
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)		2.70	2.70
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)		0.75	0.75
G	Training of extension functionaries		0.2	0.20
H	Maintenance of buildings		0.50	0.50
I	Establishment of Soil, Plant & Water Testing Laboratory			
J	Library		0.05	0.05
k	FFS		0.30	0.30
l	Extension Activity		0.50	0.49
	TOTAL (A)		**73.0**	**72.96**
B. Non-Recurring Contingencies				
1	**Works**			
2	**Equipments including SWTL & Furniture**			
3	**Vehicle** (Four wheeler/Two wheeler, please specify)			
4	**Library** (Purchase of assets like books & journals)			
TOTAL (B)				
C. REVOLVING FUND				
GRAND TOTAL (A+B+C)			**73.0**	**72.96**

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	9.34	7.76	2.94	14.16
April 2012 to March 2013	14.16	11.20	5.24	20.12
April 2013 to March 2014	26.41	11.82	9.04	29.18

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
Mr.Veerendra Kumar	SMS (Plant Protection)	War on Nematodes	IIHR,Bengaluru	19th December
Dr. Suresh S.C.	SMS(Livestock)	Recent advances in animal genetic resources conservation technologies and its significance in the modern PR era vis- a-vis climate change scenario	NDRI, Bengaluru	18-27th July 2013
M K Padmavathy	Prog. Asst.	Leadership skills for women executives	MANAGE, Hyderabad	6-10 May 2013

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
Varietal Evaluation	Ginger	Assessment of high yielding Ginger variety IISR Varada	05
Integrated Pest Management	Coffee	Assessment of white stem borer management in Arabica coffee	10
Integrated Crop Management		Assessment of Paired row planting system in Banana var. G-9	05
Total			**20**

Summary of technologies assessed under livestock

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials
Disease Management	Piggery	Assessment of effective treatment for Foot rot in pigs	10
Total			10

Summary of technologies assessed under various enterprises: Nil

Summary of technologies assessed under home science: Nil

II. TECHNOLOGY REFINEMENT

Summary of technologies refined under various crops: Nil

Summary of technologies assessed under refinement of various livestock: Nil

Summary of technologies refined under various enterprises: Nil

Summary of technologies refined under home science: Nil

III. FRONTLINE DEMONSTRATION

Crop	Thematic area	Name of the technology demonstrated	No. of KVKs	No. of Farmer	Area (ha)	Yield (q/ha)		% change in the yield	Other parameters		*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
						Demo	Check		Demo.	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Cereals	Varietal Introduction	High yielding paddy variety Tunga		20	4.0	39.5	33.8	16.8	15.2 tillers /hill	12.3 tillers /hill	28000	51350	23350	1.8	28000	43940	15940	1.6
	Disease Management	Blast disease mgmt. in Paddy		40	4.0	31.65	24.2	30.8	8.2% disease incidence	36.3 disease incidence	28000	41145	13145	1.5	28000	31460	3460	1.1
Vegetables	ICM	ICM in chilli		20	4.0	165	122	35.3	Plant height (cm) 72.5	Plant height (cm) 68.5	65680	168300	102620	2.6	45000	79300	34300	1.8
Fruit	INM	Enhancement of Bunch size in Banana		30	4.0	838.0	678.3	23.54	9.0 hands/ bunch	7.0 hands/ bunch	178635	670400	491765	3.8	165250	474810	309560	2.9
	ICM	Rejuvenation of Coorg mandarin		20	2.0	135.5	109.2	24.08	1250 fruits/ plant	780 fruits/ plant	62350	108400	46050	1.7	42560	49140	6580	1.2
Spices and condiments	IDM	IDM in pepper		20	2.0	11.12	7.85	41.65	12.78% disease incidence	26.75 disease incidence	161500	611600	450100	3.8	155200	431750	276550	2.8

Category	Thematic area	Name of the technology demonstrated	No. of KVKs	No. of Farmer	No. of Unit	Major parameter		% change in the Parameter	Other parameters		*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
						Demo	Check		Demo.	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
	Disease management	Effective treatment for Hind Limb paralysis in pigs		20	20	100	80	25.0			42700	113250	70550	2.65	41120	93000	51880	2.26
	Upgradation	Upgradation of local pigs using Duroc Boars		10	10	73.02	55.5	31.5			60600	294000	233400	4.85	49400	167500	118100	3.39

	Pest Management	Introduction of effective endectoparasiticide in goats		20	20	30	25	20									

Fisheries: Nil

Other enterprises: Nil

Women empowerment : Nil

Farm implements and machinery: Nil

Demonstration details on crop hybrids

Type of Breed	Name of the hybrid	No. of farmers	Area (ha)	Yield (kg/ha) / major parameter		% 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
Vegetable crops	Arka Meghana	20	4.0	165	122	35.3	65680	168300	102620	2.6	45000	79300	34300	1.8

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
Horticulture										
Organic cultivation of vegetables	1	20	04	24	07	04	11	27	08	35
Bonsai	1	6	10	16	01	03	04	07	13	20
Plant protection	0	0	0	0	0	0	0	0	0	0
Use of Bio control agents in plant dis. mgmt	1	08	06	14	04	03	07	12	09	21
Livestock Production and Management	0	0	0	0	0	0	0	0	0	0
Green fodder cultivation	1	15	01	16	06	02	08	21	03	24
Piggery Management	2	10	30	40	03	17	20	13	47	60
Home Science/Women empowerment	0	0	0	0	0	0	0	0	0	0
Dry flower technology	1	8	08	16	01	03	04	09	11	20
Cookery	5	00	102	102	00	34	34	00	136	136
Processing and Preservation of Fruits and Vegetables	5	17	90	107	00	38	38	17	128	145
Income generating activity for SHG	1	00	20	20	00	11	11	00	31	31
Soil health and fertility mgmt.	0	0	0	0	0	0	0	0	0	0
Soil testing and nutrient mgmt.	1	15	02	17	06	01	07	21	03	24
Soil test based fertilizer application	1	07	10	17	05	08	13	12	18	30
TOTAL	**20**	**106**	**283**	**389**	**33**	**124**	**157**	**139**	**407**	**546**

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										
ICM in paddy	06	185	00	185	28	00	28	213	00	213
Horticulture	0	0	0	0	0	0	0	0	0	0
Oyster mushroom cultivation	05	34	93	127	16	42	58	50	135	185
Winter/Summer vegetable cultivation	06	77	46	123	15	15	30	92	61	153
Vermi-composting	01	03	08	11	02	02	04	05	10	15
Production technology of Banana	05	50	20	70	31	09	40	81	29	110
Plant protection										
IPDM in pepper	04	90	30	120	16	06	22	106	36	142
IPDM in Hort. Crops	01	30	00	30	17	00	17	47	00	47
White stem mgmt. in coffee	03	77	00	77	23	00	23	100	00	100
Bio control agents in disease mgmt.	01	08	20	28	02	07	09	10	27	37
IPM in Paddy	01	20	00	20	8	00	8	28	00	28
Safe use of pesticides	01	20	03	23	11	02	13	31	05	36
IPM in Chilli	01	18	00	18	08	00	08	26	00	26
IDM in chilli	01	20	00	20	10	00	10	30	00	30
Berry borer mgmt. in coffee	01	20	02	22	08	02	10	28	04	32
IPM in vegetables	01	10	10	20	05	06	11	15	16	31
IDM in Paddy	01	00	30	30	00	10	10	00	40	40
Livestock Production and Management	0	0	0	0	0	0	0	0	0	0
Scientific goat farming	02	20	20	40	13	17	30	33	37	70
Scientific pig farming	04	40	98	138	07	15	22	47	113	160
Backyard poultry farming	02	30	20	50	11	11	22	41	31	72
Vaccination in animals	03	30	50	80	15	27	42	45	77	122
Home Science/Women empowerment	0	0	0	0	0	0	0	0	0	0

Processing and Presn. of Fruits and Vegetables	08	289	297	586	107	184	291	396	481	877
Income generating activity for SHGs	03	04	80	84	01	27	28	05	107	112
Soil health and fertility mgmt.	0	0	0	0	0	0	0	0	0	0
Soil testing and soil test based fertilizer appln.	03	31	28	59	10	13	23	41	43	84
TOTAL	**64**	**1106**	**855**	**1961**	**364**	**395**	**759**	**1470**	**1252**	**2722**

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
Oyster mushroom cultivation	1	25	9	34	10	06	16	35	15	50
Value addition in Hort. crops	1	03	24	27	02	06	08	05	30	35
TOTAL	**2**	**28**	**33**	**61**	**12**	**12**	**24**	**40**	**45**	**85**

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
Income generating activities	2	20	55	75	06	21	27	26	76	102
TOTAL	**2**	**20**	**55**	**75**	**06**	**21**	**27**	**26**	**76**	**102**

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
IPDM in Hort. crops	01	04	26	30	01	09	10	05	35	40
Sensitization prog. on FMD for district field vets	01	22	01	23	06	01	07	28	02	30
Importance of vaccination in animals	01	20	16	36	05	04	09	25	20	45

Soil testing and Soil test based fertr. appln.	01	16	06	21	05	03	08	21	09	30
Total	**4**	**62**	**49**	**110**	**17**	**17**	**34**	**79**	**66**	**145**

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

7.G. Sponsored training programmes - Nil

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

S.No.	Area of training	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
1	Scientific piggery farming(6 days)	01	15	14	29	03	04	07	18	18	33
2	Foundation course on agri and allied fields(6 days)	03	55	10	65	16	07	23	71	17	88
3	Importance of seed treatment, bio fertilizers and Micronutrients in crop production (2 days)	01	18	00	18	10	00	10	28	00	28
	Total	**5**	**88**	**24**	**112**	**29**	**11**	**40**	**117**	**35**	**149**

V. Extension Programmes

	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services	165	205	17	222
Diagnostic visits	22	40	23	63
Field Day	04	232	08	240
Group discussions	12	108	06	114
Kisan Ghosthi	00	000	00	00
Film Show	25	538	114	652
Kisan Mela	01	599	43	642
Exhibition	05	808	68	876
Scientists' visit to farmers field	88	128	12	140
Plant/animal health camps	13	301	09	310
Farm Science Club	00	000	00	00
Ex-trainees Sammelan	00	00	00	00
Farmers' seminar/workshop	01	75	31	106
Method Demonstrations	12	142	05	147
Celebration of important days	02	150	06	156
Special day celebration	01	75	46	121
Exposure visits	00	00	00	00
Radio talks	18	00	00	00
TV programmes	04	00	00	00
Total	**373**	**3401**	**388**	**3789**

Details of other extension programmes

Particulars	Number
Electronic Media	
Extension Literature	13
News Letter	04
News paper coverage	45
Technical Articles	06
Technical Bulletins	01
Technical Reports	00
Radio Talks	18
TV Talks	02
Animal health amps (Number of animals treated)	500
Total	589

PRODUCTION OF SEED/PLANTING MATERIAL

Production of seeds by the KVKs

Crop category	Name of the crop	Variety	Hybrid	Quantity of seed (kg)	Value (Rs)	Number of farmers to whom provided
Vegetables	Yard long bean	Arka Mangala	-	7.5	7500	10
	French bean	Arka Suuvidha	-	11.0	4400	02
	French bean	Arka Sharath	-	10.0	4000	11
	French bean	Arka Anoop	-	3.5	1400	05
	Cowpea	Arka Samruddi	-	3.0	1200	02
	Pea	Arka Karthik	-	5.0	2000	12
	Chilli	Arka Suphal	-	1.5	750	05
	Dolichos bean	Arka Sambram	-	3.0	1200	06
	Tomato	Arka Vikas	-	1.0	1000	08
Total				**45.5**	**23450**	**61**

Production of planting materials by the KVKs

Crop category	Name of the crop	Variety	Number	Value (Rs.)	Number of farmers to whom provided
Plantation	Coffee	S 274 CXR	13652	163825	68
	Arecanut	Theerthalli	12444	76611	38
Spices	Pepper	P-1	10	60	03
	Ginger	IISR varada	175	9625	05
Fruits	Banana	G-9	1250	6250	16
	Passion fruit	Kaveri	50	1000	-
Fodder	Fodder	CO-3	9200	9200	40
	Fodder	Co-4	200	200	06
	Fodder	NB-21	100	100	06
		Green panic	100	100	06

Total			**37181**	**266971**	58

Production of Bio-Products: Nil

9.C. Production of Bio-Products: Nil

9.D. Production of livestock materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	Number of farmers to whom provided
Goatary	Malabari	06	6000	04
Piggery	Duroc CB	50	149500	26

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

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized
Soil Samples	854	312	115	12810

VIII. SCIENTIFIC ADVISORY COMMITTEE

Number of SACs conducted : 01

IX. NEWSLETTER

Number of issues of newsletter published	04
April- June 2013	200 copies
July- September 2013	200 copies
October- December 2013	200 copies

X. RESEARCH PAPER PUBLISHED: Nil

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

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