

ANNUAL REPORT 2013-14

(FOR THE PERIOD APRIL 2013 TO MARCH 2014)

KRISHI VIGYAN KENDRA (UTTARAKANNADA)

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Motor bike KA 31 J 3307	Yamaha Crux 2002	42,850.00	26184	Good
Motor bike KA 25 EC 7562	Hero Honda - Passion 2009	42,450.00	15470	Good
Motor bike KA 25 EC 7564	2009	42,450.00	12677	Good
Toyota Qualis Jeep KA 31M 2652	2004	5,00,000.00	193026	Good
Power Tiller	2011	145950.00	28 hrs	Good
HMT Tractor KA-31 T-2445	2011	357863.81	579 hrs	Good
Trailor KA-31 T-2446		114285.72		

C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Godrej copier	30-03-2001	80,234/-	Good condition
Stabilizer	30-03-2001	6,000/-	"
Portable OHP	31-03-2001	23,920/-	"
Honda make EBK 2000 generator	31-03-2001	32,800/-	"
EB 833 Altimeter	25-02-2002	10,990/-	"
Thomson TV 29'' monitor	30-03-2002	28,700/-	"
Thomson CD player	30-03-2002	6,500/-	"
Sharp VCR	30-03-2002	12,300/-	"
Computer and accessories	30-03-2003	72,513/-	"
Public address system	26-02-2003	10,500/-	"
Nikon Camera	29-09-2003	28,350/-	"
Air Conditioner for computer hall	27-09-2003	10,500/-	"
Photo display frame	27-09-2003	17,000/-	"
Exhibition showcase	27-09-2003	14,000/-	"
Scanner	27-09-2003	3,500/-	"
Sony Digital Camera	2006	13,000/-	Under repair
Computer HP- with accessories	31.3.2007	36,000/-	Good condition
Motorized screen	2008	24,000/-	"
Lexmark Printer	March 2008	15,043/-	"
Printer (4 in one)	31.3.2009	13,950/-	"
Sony DV cam – Portable camera	Jan-2010	1,84,000/-	"
Computer and accessories-HP DC-7000 series (2 Nos)	April-2010	77690/-	"
Lenovo s10-3s Idea pad	4.02.2011	21600/-	"
Printer- HP 1007	30-03-2011	4900/-	"
Oven - Bajaj	March 2011	2,800/-	"
Pepper Diconing	March 2011	18,500/-	"
Generator 7.5 KVA, KIRLOSKER	January 2012	81,057/-	"
Power Sprayer Single Piston	March 2012	28,000/-	"
Digital Cameras Canon A 810	September 2012	5,995/-	"
Canon SX 150		9,995/-	"
Digital Cameras Canon A 810	December 2012	4,900/-	"
Canon SX 150	January 2013	4,900/-	"
UPS V-Guard	January 2013	6,540/-	"
Grinder	January 2013	4,500/-	"
Coco Butter Extractor	January 2013	44,885/-	"
Ground nut Stripper (3)	January 2013	3,350/-	"
Hand Refractometer	January 2013	3,807/-	"
Banjo- Power operated groundnut stripper	March 2013	19474	"
HP Laptop	Jan-2014	52000/-	"
Sugarcane eye bud chipper	March 2014	4000/-	"
Power Safe UPS	March-2014	2250/-	"

1.8. Details SAC meeting conducted in 2013-14

Sl.No.	Date	Number of Participants	No. of absentees	Salient Recommendations	Action taken
1.	01.08.2013	60	03	Action to establish custom hiring centre at KVK should be initialized and proposal for sanction of grants in this regard may be sent to University. It is also suggested to include 2 transplanters, 2 reapers and one weeder in the proposal	Proposal has been submitted to UAS for financial sanction
				As per the decisions made during last SAC the Dairy Unit is to be taken over by the KVK and established as demonstration unit.	After recruitment of Animal Scientist arrangements will be made to take over the diary unit
				An exposure visit of 10 farmers to Ranchi to learn about the LAC cultivation is to be planned	An exposure visit to IINRG, Ranchi and training on Scientific lac cultivation, production and processing was organized for 15 progressive farmers during September 2013
				Activities to popularize the biological methods (nematodes and fungi) to control arecanut root grub , are to be carried out.	FLD on Management of Arecanut rootgrub through entomopathogenic fungi and control nut drop is implemented in Kaigudde, Kedigemane and in progress. Also Awareness programmes were organised during adult beetle emergence
				Trainings on use of agricultural implements are to be organized to the members of cooperative societies and P.A.C.S officers	Farm Machinery exhibition was organized in collaboration with CIAE, Bhopal, Regional Center, Coimbatore, CPCRI, Kasargod and TNAU, Coimbatore to create awareness about the suitable implements for Uttar Kannada district
				To gain more knowledge on value addition of banan fibre , visits to IDS and Kishkinda Trust, Anegundi may be planned. The acquired knowledge is to be disseminated to the farmers of the district.	Action was not taken, but will be initiated after the recruitment of Home scientist
				Groundnut variety G-2-52 may be popularized in residual moisture after paddy	Trials are initiated at Holanagadde, Kumta Tq. under ATMA Research activities
				Feeler trials are to be carried out at ARS,Kumta to popularize groundnut and pulse varieties released by UASD.	Trials are initiated
				Extension activities to manage the quick wilt of blackpepper are to be organized. and Information on grafting of black pepper is to be collected and to be presented during ZRAC	Information on grafting of black pepper was collected from N. D. Hegde, Antravalli, Kumta Tq. and presented during ZREAC/ZREFC meeting held at AC, Bijapur. Project proposal was submitted to DR, UAS Dharwad

				Information with respect to site specific nutrient loss is to be collected and necessary extension activities are to be planned to control the same.	Action was not taken
				KVK should produce and popularize value added products like KVK Patanamtitta	Action was not taken. But will be initiated after recruitment of Home scientist
				KVK should promote use of cocoa and marketing in same lines of KVK Erode. If necessary exposure visit may be planned to KVK, Erode	Action was not taken. But will be initiated after recruitment of Home scientist
				Activities to manage natural resources are to be organized	Will be initiated in future
				Soil and water samples of farmers are to be tested and soil health cards are to be distributed.	Already implemented and work is in progress.
				Technical information are to be included in the KVK Newsletters and circulated to SAC member, progressive farmer, RSKs and developmental departments of the district.	Technical information are included in the KVK Newsletters and circulated to all officials and SAC members regularly

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	Rainfed area : Paddy- Pulses/Ground nut, Maize- Pulses, Areca nut and Coconut based multi cropping system Irrigation: Paddy –Paddy, Sugarcane, Paddy –Maize, Areca nut and Coconut based multi cropping system
2	Non Timber Forest Produce, Fisheries and Dairy

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

S. No	Agro-climatic Zone	Characteristics
1	Zone – 9	It consists of eastern transition belt and west coast with a geographical area 25,670.60 sq.km. It has hill zones and valleys with red sandy loam, clay loam and laterite soils. In some parts medium black soils are also found. Major crops grown are paddy, cotton, arecanut based mixed crops of spices.
2	Zone – 10	The zone consists of coastal and hill tracts with rainfall 3500 mm. The major crops grown are paddy, groundnut, pulses and arecanut based cropping system. Sandy soils, coastal alluvial, red sandy loam, laterite soils are found in these regions.

S. No	Agro ecological situation	Characteristics
1	Coastal ecosystem	High to very high rainfall of about 3500 mm, hot and humidity climate with highly leached sandy alkaline soils.
2	Hill zone ecosystem	Rainfall ranges from 2500 to 3500 mm, with valleys and low hills. Major area covered is forest and dominated by laterite soils.
3	Transitional ecosystem	Rainfall ranges from 800-1200 mm. dominated by plains and rolling hills. Soils vary from red loam to medium black soils.

2.3 Soil type/s

S. No	Soil type	Characteristics	Area in ha
1	Lateritic soils	Deep, well drained to excessively drained, yellowish red to dark reddish brown, sandy loam to sandy clay and clay surface soils and clay subsoil's, moderate to severely eroded with surface crusting.	36332
2	Coastal laterite soil	Deep, well drained to excessively drained, dark brown to yellowish red and dark reddish brown, sandy clay loam to clay loam surface soils and sandy clay to clay subsurface soils, moderately to severely eroded with surface crusting.	
3	Coastal alluvial soils	Deep, well drained and poorly drained, pale brown to dark yellowish brown, sand, sandy loam to loam surface soils and sand to loam subsurface soils.	
4	Red gravelly clay soils	Deep and shallow, well drained to excessively drained, yellowish brown dark red to reddish brown, gravelly sandy loam to sandy clay loam and loamy sand surface soils and no calcareous cracking clay to silty clay soils, moderately to severely eroded.	144589
5	Red clay soils	Deep to moderately deep and hallow, well drained, brown to yellowish red to reddish brown, sandy loam and sandy clay to clay subsurface soils, moderately to severely eroded.	552877
6	Forest soils (Brown forest soil)	Deep to moderately, Deep, well drained to excessively drained, dark brown to dark yellowish brown and black sandy clay to sandy clay loam, humus rich surface soils and clay to sandy clay, gravelly sandy clay to clay sub surface soils, moderately to severely eroded.	291679
7	Medium black soils	Shallow, well drained grey to dark grey and brown clay loam and silty clay loam.	

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

S. No	Crop	Area (ha)	Production (Metric tons)	Productivity (kg /ha)
1	Paddy	73285	219622	3052
2	Cotton	2588	6	340
3	Groundnut	2553	4203	1716
4	Green gram	933	198	224
5	Black gram	515	203	411
6	Maize	3793	15948	3869
7	Sugarcane	2726	229398	88
8	Arecanut	17746.0	44599.65	2.51
9	Coconut	7754.00	1349.57(Lakh Nuts)	0.17
10	Black pepper	627.00	263.23	0.42
12	Ginger	268.00	6700.00	25.00
13	Cardamom	789.00	201.55	0.26
14	Cashew	3190.00	6957.63	2.18
15	Banana	2547.0	77801.47	30.55
16	Mango	2433.0	44741.08	18.39
17	Pine apple	418.00	31052.00	74.29

Source : * Uttara Kannada at a Glance 2010-11 by Statistical Department , Karwar (Agriculture crops)

* Office of DDH, Dept. of Horticulture, Sirsi (Horticulture crops) 2010-11

2.5. Weather data

Month	Rainfall (mm)	Temperature ° C		Relative Humidity (%)	
		Maximum	Minimum	Morning	Evening
Jan 2013	5.50	31.7	14.1	83.0	63.1
Feb 2013	9.70	32.8	16.0	88.7	86.1
March 2013	1.40	34.1	18.6	86.0	41.0
April 2013	12.0	34.0	21.2	93.2	70.3
May 2013	126.5	32.2	21.8	89.1	68.7
June 2013	708.6	27	20.8	91.0	86.4
July 2013	1233.9	25.3	21.0	94.4	90.0
August 2013	555.5	26.4	20.7	92.6	84.0
Sept 2013	360.9	28.4	20.1	92.4	77.4
Oct 2013	170.1	29.1	20.6	93.9	72.0
Nov 2013	13.7	30.3	15.5	84.3	58.5
Dec 2013	0.0	30.1	13.4	81.4	64.0

* District Rainfall Data : KSDA, Karwar

* Temperature and Relative Humidity : Source Weather Station, ARS(Paddy), Sirsi

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

Category	Population	Production	Productivity
Cattle			
<i>Crossbred</i>	35177		
<i>Indigenous</i>	331751		
Buffalo	118669		
Sheep			
<i>Crossbred</i>			
<i>Indigenous</i>	2702		
Goats	11994		
Pigs			
<i>Crossbred</i>	67		
<i>Indigenous</i>	833		
Rabbits	277		
Poultry			
Hens	361351		
<i>Desi</i>			
<i>Improved</i>			
Ducks			
Turkey and others			

*Uttara Kannada at a Glance 2011-12 by Statistical Department , Karwar

Category	Area	Production	Productivity
Fish		90588 Tones	
<i>Marine</i>			
<i>Inland</i>			
Prawn			
Scampi			
Shrimp			

*Uttara Kannada at a Glance 2011-12 by Statistical Department , Karwar

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

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	Sirsi	Banavasi	Naruru Bashi Gudnapur Yedurbail Yesale Ajjarani Kanturaji Santolli Dasanakoppa Maragundi Rangapur Banavasi Kenchagadde	2011-12 2012-13 2013-14	Paddy Areca nut Banana Maize Ginger Black gram Pineapple Dairy Farming	<ul style="list-style-type: none"> Poor soil fertility Blast in Paddy Leaf folders, stem borer, earhead bug in Paddy Nutrient deficiency Stem borer in Maize Root rot in Maize Water shortage in Summer Sucking pest in Pulses Weeds Panama wilt in Banana 	ICM INM IPM Mechanization Varietal Introduction
		Kayigudde	Kaigudde Kyadigemane	2013-14	Areca nut Blackpepper Banana , Dairy farming	<ul style="list-style-type: none"> Areca nut drop & splitting Wilt in Blackpepper 	ICM & IDM
2	Mundagod	Pala	Hugginakere Kendalagere Bhadrapur Kalakoppa Pala	2012-13 2013-14	Paddy, Maize, Mango, Dairy farming	<ul style="list-style-type: none"> Hoppers, powdery mildew in Mango Nutrient deficiency, Pest & disease in maize 	ICM
3	Yellapur	Hosalli	Hosalli, Totadakallalli	2013-14	Paddy, Cotton, Areca nut, Cardamom, Blackpepper, Banana Dairy Farming	<ul style="list-style-type: none"> Sucking pests, black arm disease, shoot weevil in Bt. Cotton High cost of seedling production 	IPM

4	Ankola	Bole	Bole	2013-14	Paddy Groundnut Water melon	<ul style="list-style-type: none"> • Poor soil fertility • Poor peg penetration • Leaf miner,spodoptera • Collarrot 	ICM
5	Haliyal	Havagi	Havagi	2013-14	Sugarcane Cotton Paddy	<ul style="list-style-type: none"> • Weeds • Arrowing • Lack of awareness on scientific cultivation 	Innovative Approach(FPSKRP)

2.9 Priority thrust areas

S. No	Thrust area
1	Integrated Crop Management
2	Integrated Nutrient Management
3	Integrated Pest Management
4	Farm Mechanization
5	Integrated Disease Management
6	Integrated Weed Management
7	Soil and Water conservation
8	Organic Farming
9	Integrated Farming system
10	Income Generating activities

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
05	05	25	26	14	14	140	143

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
135	83	5480	1971	485	624	114850	100918

Seed Production (Qtl.)		Planting materials (Nos.)	
5		6	
Target	Achievement	Target	Achievement
1185	-	3750	1047

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

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	
01	Integrated Crop Management	Paddy	Poor Soil Fertility Blast, Stem borer, Leaf Folder, Earhead bug Labour scarcity Water scarcity during summer Depletion of organic matter	Organic farming practices in paddy	ICM in paddy Popularization of KMP-105 short duration paddy variety for summer	25	0	02	Field Visit: 46 Diagnostic Visit:08 Exp. Visit : 01 Field Day : 06 Method Demos:02 Campaigns :01 Interface Meeting:01 Group Discussions:01 Radio Talks:02	MGD 101- 0.75 Abhilash - 2.25 Siri 1253 - 0.75 Sunhemp: 1 Diancha:1 KMP105: 3.5					Azospirillum-14kg PSB-14kg
		Maize	Non adoption of suitable cropping system in paddy fallows	Evaluation of alternate crops during summer season	ICM in Maize	09	0	01	Field Visit: 16 Diagnostic Visits:01 Method Demos:03						
		Cardamom	Poor germination High cost of seedling production	Production of quality seedlings in cardamom through CMS technology	-	0	0	0	Field Visit: 02 Method Demos: 01						
		Groundnut	Poor peg penetration, poor fertility, poor yield, Spodoptera, Leaf Miner, Collar rot.		ICM in groundnut	03	0	0	Field Visit: 10 Diagnostic visits:01	GPBD-4: 6 qtl					Rhizobium: 2.5 kg
		Blackgram	Low yield, poor fertility, sucking pest and powdery mildew		ICM in blackgram	05	0	0	Field Visit: 04	DU1 : 1.2					Rhizobium: 3 kg PSB-8kg
		Mango	Hoppers, Powdery mildew, Fruit & flower drop		ICM in mango	01	0	0	Field Visit: 03 Seminar : 01 Method Demo:01 Campaign : 01						

		Arecanut	Nut splitting, dropping, rootgrub & koleroga		ICM in Arecanut	04	0	0	Field Visit: 12 Diagnostic visits:16 Method Demos:02					<i>Metarrhizium</i> 100 kg
		Sugarcane	Weeds Arrowing Lack of awareness on scientific cultivation		Farmers Participatory Sugarcane Knowledge Resource Point	01	0	0	Field Visit:04 Field Day : 03		Seedlings Co 86032 : 4000			
02	Plant Protection	Banana	Panama wilt, Pseudostem weevil	Low cost management of Panama Wilt in Banana		0	0	0	Field Visit: 02 Diagnostic visits:17 Method Demos: 06					
		Bt.Cotton	Sucking pests and black arm disease, Flower and square drop		ICM in Bt. Cotton	03	0	0	Field Visit: 04 Method Demos: 01	Bhendi : 0.075qtl				
		Black Pepper	Death of vines due to foot rot		Foot rot Management in Black Pepper	02	0	01	Field Visit: 03 Diagnostic visits:01 Method Demos: 02					<i>Trichoderma</i> : 12.5 kg
		Ginger	Rhizome Rot		Management of rhizome rot in ginger	03	0	0	Field Visit: 03 Diagnostic visits:05 Field Day : 01 Method Demos: 01					
03	Varietal Introduction	French bean	Lack of commercial cultivation	Introduction of French Bean varieties		0	0	0	Field Visit: 03	Arka anoop : 5 Kg Arka Sharath : 5 Kg				
04	Mechanization	Paddy	Labour scarcity		Popularization of mechanized paddy transplanter	04	0	0	Field Visit: 13 Diagnostic visits:01 Field Day : 02 Method Demos: 04					
		Coconut	Labour scarcity & Labour safety		Demonstration of safety belts for coconut climbers through machine	0	0	0	Method Demos: 01					

05	IFS				Establishment of IFS models	06	0	0	Field Visit: 10 Diagnostic visits:01		Arecanut :1000	HF Cross Cow:01 Swarnadhara chicks:50 0 Sheep:02 Local Poultry birds:14		
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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
01	Production Technology of Field crops	UASD	Paddy,Bt.Cotton, Blackgram, Maize, Sugarcane, Groundnut	01	06	27	Campaign: 01
02	Crop diversification	UASD	Maize+cowpea	01	0	0	-
03	Raising of nursery seedlings	UASD	Cardamom, Blackpepper	01	0	0	Workshop:01
04	Production technology of Horticultural Crops	UASD & IIHR Bangalore	Mango, Arecanut	0	02	5	Scientist Farmer Interface Meet:02
05	Plant Protection	UASB,UASD	Agricultural and Horticultural crops	01	02	18	Campaign: 02
06	Varietal Introduction	UASB & IIHR Bangalore	Frenchbean, Paddy	01	01	02	-
07	Farm Mechanization	UASD	Paddy, Coconut	0	02	04	Exhibition:01
08	IFS	UASD		0	01	06	
09	Fodder Production	UASD,BAIF	Tree fodder species & Fodder grass	0	0	0	Campaign: 01 Workshop:01
10	Scientific LAC Cultivation	IINRG ,Ranchi	LAC	0	0	01	Workshop:01 Exposure visit : 01 Guest lectures : 05

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	
1	05	0	0	0	67	2	2	3	417	66	134	24	22	18	2	0
2	05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	04	01	0	0	0	0	0	0	0	0	0	0	57	16	6	0
4	05	0	0	0	20	0	3	01	46	12	12	13	118	16	5	0
5	04	01	0	0	16	02	0	0	336	31	97	28	53	2	9	0
6	0	0	0	0	12	0	0	0	26	0	01	0	0	0	0	0
7	0	0	0	0	04	0	0	01	57	10	10	0	500	40	5	5
8	0	0	0	0	0	0	00	0	27	01	80	9	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	131	22	10	0
10	0	0	0	0	0	0	0	0	14	0	0	0	514	45	13	14

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	01									01
Varietal Evaluation					01					01
Integrated Pest Management						01				01
Integrated Crop Management	01									01
Integrated Farming System										
Seed / Plant production				01						01
Total	02			01	01	01				05

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

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

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

4.B. Achievements on technologies Assessed and Refined

4.B.1. Technologies Assessed under various Crops

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha (Per trial covering all the Technological Options)
Integrated Nutrient Management					
	Maize+Cowpea	Evaluation of alternate crops during summer season	05	05	0.3
Varietal Evaluation	Frenchbean	Introduction of new French bean varieties	05	05	0.03
Integrated Pest Management	Banana	Low cost management of Panama wilt in Banana	05	06	0.1
Integrated Crop Management	Paddy	Organic farming practices in paddy	05	05	0.3

Integrated Farming System					
Seed / Plant production	Cardamom	Production of quality seedlings in cardamom through CMS Technology	05	05	
Total			25	26	

4.B.2. Technologies Refined under various Crops – NIL-

4.B.3. Technologies assessed under Livestock and other enterprises – NIL-

4.B.4. Technologies Refined under Livestock and other enterprises – NIL-

4.C1. Results of Technologies Assessed

1. Results of On Farm Trial :01

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
Paddy	Rainfed	Decrease in organic carbon content	Nutrient Management Through Organic Manures	5	100 % Organic Farming Practices	Yield (q/ha) No. of Tillers Cost on Nutrient Management	60.36 25 1000	100 % Organic Farming Practice Recorded lower yield than RPP but higher than Farmers Practice	Nutrient Management is Possible through Organic manures with Lesser cost. but Pest and diseases are not effectively controlled. Sufficient quantity of <i>Eupatorium</i> may not be available	--	--

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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
TO1: Varying doses of fertilizers		46.96	q/ha	37,729	2.06
TO2: FYM/Compost+RDF	UAS Dharwad	68.20	q/ha	63,415	2.50
TO3: 100% Organic Practice	UAS Dharwad	60.36	q/ha	59,319	2.72

2. Results of On Farm Trial :02

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
Maize + Cowpea	Irrigation	Water shortage during Summer and Soil health loss due to Mono crop of Paddy	Evaluation alternate Cropping System for summer	5	Maize + Cow Pea	Yield (q/ha)	On Going			--	--

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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 (Farmer's practice)		On going			
Technology option 2	UAS Dharwad	On going			
Technology option 3	UAS Dharwad	On going			

3. Results of On Farm Trial : 03

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
Cardamom		Poor quality seedling High cost of seedling production	Production of quality seedlings in cardamom through CMS	05	Closed Media Sachet	No.of Seeds Germinated/100 seeds	80.8	Germination is good and Low cost	Farmers Expressed good opinion on germination, and low cost	Nil	Nil

Contd..

Technology Assessed	Source of Technology	Production	Unit	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
TO1: Raised Seed Beds	-	4.5 Seedlings	Per 100 Seeds sown	37.5	2.25
TO2: Raised Seed Beds	UAS Dharwad	58.6 Seedlings	Per 100 Seeds sown	834	19.5

TO3: CMS	IIHR, Bangalore	80.8 Seedlings	Per 100 Seeds sown	1162	24.2
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4. Results of On Farm Trial : 04 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
French bean A.. Varada Belt (Kantraj)	Irrigated	Lack of commercial cultivation	Introduction of new varieties of French bean	5	Arka Anoop Arka Sharath	Germination (%)	80.5, 20.3	Arka Anoop has recorded higher Net return. Arka sharat did not survive in water logged area	Expressed good opinion on germination, Yield and Profit of Arka Anoop where as Arka Sharat did not perform well.		
No. of Pods/plant						22,0					
Pod Length (cm)	13.06,0										
B. Santolli						Germination (%)	38.3,78.5	Arka sharat has recorded higher Net return.	Arka Sharat performed well compared to Arka Anoop		
						No. of Pods/plant	12.3,19.6				
						Pod Length (cm)	12.3,12.5				

A. Contd..

Technology Assessed	Source of Technology	Production	Unit	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
TO1: Local Varieties	-	6.3	t/ha	66000	2.1
TO2: Arka Anoop	IIHR, Bangalore	7.5	t/ha	90000	2.5
TO:3 Arka Sharath	IIHR, Bangalore	-	-	-	-

B. Contd..

Technology Assessed	Source of Technology	Production	Unit	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
TO1: Local Varieties	-	6.3	t/ha	66000	2.1
TO2: Arka Anoop	IIHR, Bangalore	3.6	t/ha	12000	1.2
TO:3 Arka Sharath	IIHR, Bangalore	6.5	t/ha	70000	2.16

5. Results of On Farm Trial : 05

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	Rainfed	Panama wilt disease	Low cost management of Panama Wilt in Banana	06	Pseudo stem injection with 30ml solution (3g carbendazim+3 g COC + 3g boric acid per l of water), 2 times at 30 days interval	No. of Plants affected % disease incidence No.of Plants recovered % disease control % incidence in recovered plant	277 89.4 266 96.5 10.1		Cost effective,	Pseudo stem injection with soil drenching	Since pathogen in soil borne, drenching is essential

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
TO 1: Drenching with Carbendazim (varying concentrations)		On going			
TO 2 : Drenching with Carbendazim 1g /l water	UAS Dharwad	On going			
TO 3: Pseudo stem injection with 30ml solution (3g carbendazim+3 g COC + 3g boric acid per l of water), 2 times at 30 days interval	Successful demonstration by EEU, Sirsi	On going			

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

OFT -1

- 1 Title of Technology Assessed : Nutrient Management in Paddy through Organic Manures
- 2 Problem Definition : Higher fertilizer and Chemical Cost and Need of Organic farming
- 3 Details of technologies selected for assessment: Nutrient Management in Paddy through application of *Eupatorium* as per the Nutrient requirement and Seed treatment and spray of Bio agents and Neem Oil
- 4 Source of technology : UAS Dharwad
- 5 Production system and thematic area : Irrigation and Organic Farming (Crop production)
- 6 Performance of the Technology with performance indicators: 100 % Organic Farming Practice (60.36 q/ha) recorded lower yield than Recommended Practice (68.20 q/ha) but higher than Farmers Practice (46.96 q/ha).
7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques: Nutrient Management is Possible through Organic manures with lesser cost but Pest and diseases are not effectively controlled. Sufficient quantity of *Eupatorium* may not be available to all the farmers of village
- 8 Final recommendation for micro level situation: Yet be assessed for two more years

- 9 Constraints identified and feedback for research : Instead of only *Eupatorium*, it is better study combination of different green manures for nutrient management. Effective Organic methods for control of pest and disease are needed
- 10 Process of farmers participation and their reaction: Method demonstrations , Field visits & training. Crop is green through out the season. Sufficient quantity of *Eupatorium* may not be available to all the farmers of village.

OFT -2

- 1 Title of Technology Assessed : Evaluation alternate Cropping System for summer
- 2 Problem Definition : Water shortage during Summer and Soil health loss due to Mono cropping of Paddy
- 3 Details of technologies selected for assessment: Inter crop of Maize + Cowpea (1:2) during summer after paddy
- 4 Source of technology: UAS Dharwad
- 5 Production system and thematic area : Irrigation and Crop production (Cropping System)
- 6 Performance of the Technology with performance indicators: On Going
7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques: Cow Pea variety C-152 is climbing type and difficult to harvest hence, bushy type of cow pea is needed
- 8 Final recommendation for micro level situation: Yet be assessed for one more years
- 9 Constraints identified and feedback for research : Bushy type Variety of cow pea is to be assessed
- 10 Process of farmers participation and their reaction: Method demonstrations , Field visits & training.

OFT-3

- 1 Title of Technology Assessed : Production of Quality seedlings in Cardamom through CMS technology
- 2 Problem Definition : Non availability of quality seedlings and poor germination with higher cost of production
- 3 Details of technologies selected for assessment : Seedling production through CMS Technology
- 4 Source of technology : IIHR, Bangalore and refined by UAS D(KVK,Sirsi)
- 5 Production system and thematic area: Seeds and Seedling production
- 6 Performance of the Technology with performance indicators: Results Showed that the higher germination (80.8 %) with 100 % Survivability and higher B:C of 34.0 :1
7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques : Expressed good opinion on germination, survivability, cost of production and pest free seedlings
- 8 Final recommendation for micro level situation: -Seedling Production through CMS Technology
- 9 Constraints identified and feedback for research: - Nil
- 10 Process of farmers participation and their reaction: Method demonstration and Field visit and Farmers expressed good opinion about simple and low cost technology.

OFT - 4

- 1 Title of Technology Assessed : Introduction of new varieties of French bean
- 2 Problem Definition: Lack of commercial cultivation
- 3 Details of technologies selected for assessment: Arka Anoop and Arka Sharath
- 4 Source of technology:IIHR, Bangalore
- 5 Production system and thematic area: Irrigated and Varietal introduction
- 6 Performance of the Technology with performance indicators: Arka Anoop has got around 95% germination with 22 pod yield per plant and having yield of 15t/ha
7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring
Techniques: Farmers expressed good opinion about its germination, yield and pod quality
- 8 Final recommendation for micro level situation: Needs popularization of the variety
- 9 Constraints identified and feedback for research: Nil
- 10 Process of farmers participation and their reaction: Farmers expressed good opinion about Arka Anoop whereas the performance of Arka Sharath was not so good.

OFT - 5

- 1 Title of Technology Assessed : Low cost management of Panama Wilt in Banana
- 2 Problem Definition : Panama Wilt
- 3 Details of technologies selected for assessment : Pseudo stem injection
- 4 Source of technology : Successful preliminary trials conducted by EEU, Sirsi
- 5 Production system and thematic area : Irrigated and Plant Protection
- 6 Performance of the Technology with performance indicators: No. of plant recovered, % disease control, yield
7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring
techniques : Trainings, method demo, field visits and cost effective
- 8 Final recommendation for micro level situation : yet to be assessed for two more years
- 9 Constraints identified and feedback for research : Effectiveness in control, Pseudo stem injection and soil drenching
- 10 Process of farmers participation and their reaction : Trainings, method demo, field visits
Cost effective

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	Oilseeds	Residual Soil Moisture	Rabi/Summer	Groundnut	GPBD - 4		Crop Production	Integrated Crop Mangement	4.00	4.00	0	12	12	
2	Pulses	Residual Soil Moisture	Rabi/Summer	Blackgram	DU - 1		Crop Production	Integrated Crop Management	6.00	6.00	1	12	13	
3	Cereals	Rainfed	Kharif	Paddy	Abhilash, MGD101, Sirsi 1253		Crop Production	Integrated Crop Mangement	6.00	8.00	1	18	19	Rainfed
4		Rainfed	Kharif	Maize		CP818	Crop Production	Integrated Crop Mangement	6.00	6.00	3	10	13	Rainfed
5		Limited Irrigation	Rabi/Summer	Paddy	KMP-105		Crop Production	Short duration paddy variety	4.00	5.60	1	11	12	Limited Irrigation
6	Fruit	Rainfed	Rabi/Summer	Mango	Alpanso, Panchami	Mallika	Fruits	Integrated Crop Mangement	6.00	6.00	4	10	14	Rainfed
7	Spices and condiments	Limited Irrigation	Kharif	BlackPepper			Plant Protection	Integrated Disease Mangement	225.00	225.00	0	8	8	Limited Irrigation
8		Irrigated	Kharif	Ginger			Plant Protection	Integrated Disease Managemen of ginger rhizome rot	1.00	1.00	0	10	10	Irrigated
9	Commercial	Rainfed	Kharif 2013	Bt. Cotton		BG-II	ICM	ICM in Bt. Cotton	6	6	0	16	16	
10	Plantation	Limited Irrigation	Kharif	Arecanut			Plantation Crops	Integrated Crop Mangement	4.00	4.00	0	10	10	Limited Irrigation
11			Summer	coconut			Farm Implements	Use of safety belts for coconut climbing machines			0	2	2	
12	Implements	Rainfed	Kharif	Paddy	Abhilash, MTU1001, Jai Sona		Farm luments	Mechanized Paddy Transplanting	5.00	5.00	2	6	8	Rainfed

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(kg/ac)			Previous crop grown
										N	P	K	
1	Oilseeds	Residual Soil Moisture	Rabi/Summer 2013-14	Groundnut	GPBD-4		ICM	ICM in groundnut	Rabi/Summer 2013-14	130-210	7.0-12.5	15.0-45.0	Paddy
2	Pulses	Residual Soil Moisture	Summer 2014	Black gram	DU-1	-	Crop Production	ICM		110-250	8.5-22.5	25-61	Paddy
3	Cereals	Rain fed	Kharif 2013	Paddy	Abhilash MGD-101 & Sirsi-1253	-	Crop Production	ICM		104-278	12-26	55-98	Pulses
4		Rain fed	Kharif 2013	Maize		CP-818	Crop Production	ICM		115-210	8.5-9	45-62	Fallow
5		Irrigation	Summer 2014	Paddy	KMP-105	-	Crop Production	ICM		104-260	11-18	36-90	Paddy
6		Rain fed	Kharif 2013	Paddy Transplanting Machine	Abhilash MTU-1001	-	Mechanization	Popularization of Paddy transplanting Machine		96.5-110	8.5-9.5	58.5-61	Pulses
7	Plantation	Rainfed	Kharif , 2013	Arecanut	Local		Production Technology	ICM	Kharif , 2013	44-128	4.0-19.6	12.5-42	Arecanut

5.B. Results of Frontline Demonstrations

5.B.1. Crops

Crop	Name of the technology demonstrated	Variety	Hybrid	Farming situation	No. of Demo	Area (ha)	Yield (q/ha)				% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
							Demo			Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
							H	L	A										
Oilseeds																			
Groundnut	ICM	GPBD-4	-	Residual moisture	12	4	12.00	8.5	10.94	8.15	34.23	16250	35008	18758	2.15	15600	26080	10480	1.67
Pulses	ICM in Black gram	DU-1		Residual Moisture	13	6.0	12.5	6.0	8.37	5.79	44.55	12800	33480	20680	2.62	11500	27800	16300	2.42
Cereals	ICM in Paddy	Abhilash MGD-101 Siri-1253		Rainfed	19	8	102.60	47.50	77.42	62.66	23.56	48878	119606	70728	2.45	42775	97264	54489	2.28
	ICM in Maize	CP-818		Rainfed	13	6.0	77.5	57.75	66.31	56.9	16.54	35600	97986	62386	2.75	33800	84136	50336	2.49

	Popularization of KMP-105 Short duration Paddy variety for summer	KMP-105	-	Irrigation	12	5.6	Ongoing												
Fruit	ICM in mango	Alphanso, Panchami	Mallik a	Rainfed	15	6	Ongoing												
Spices and condiments	Foot rot Management in Black Pepper	Panniyur-1	-	Rainfed	10	250 (vines)	8.3	6.9	7.8	6.5	20%	69620	389333.3	319713.3	5.59	67500	326666.7	259166.7	4.83
Ginger	Management of ginger rhizome rot	Himachal	-	Irrigated	10	2	128.0	95.0	115.7	73.5	36.05%	184000	694000	510400	3.8	175000	441000	266000.0	2.52
Plantation	ICM in Arecanut	local		Rainfed	10	4.0	33.0	26.5	29.8	21.7	36.6	75600	545470	469870	7.2	63270	439415	376145	6.9
Fibre	ICM in <i>Bt.</i> Cotton	-	BG-II	Rainfed	16	6	23.75	20.63	19.74	15.25	29.44	26875	122388	68638	4.55	23750	94550	70800	3.98

* 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.)

FLD : ICM in Groundnut

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
No. of good pods/plant	12.92	9.2
% defoliation	1.75	7.6
No of spodoptera moths trapped/trap	2.88	-
% Leaf spot Incidence	<1%	<1%

FLD : ICM in Blackgram

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
No.of pods/plant	25.7	20.6
No. of grains/pod	8	6
Grain wt/Plant(g)	13.5	7.5
% Sucking pest incidence	87	87
% control of sucking pest	98	72

FLD : ICM in Paddy

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
Plant Height	122.04	113.68
No. of Tillers	24.83	19.09
Leaf folder incidence (FDL/Hill)	0.33	2.57
Blast incidence	0	10
Stem borer incidence %	0.87	4.23
Ear head Bug incidence	0.67	3.6

FLD : ICM in Maize

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
Plant Height	172.63	159.66
Weed count/m2	16	128
Weed dry weight(Gm/m2)	5.6	37.37
Weed control efficiency	85.01	
Root Rot incidence	0.35	2.25
Stem borer incidence	2.5	15.65

FLD: ICM in Mango

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
No of fruits / inflorescence	2.9	1.3
No. of hoppers/panicle	6.1	10.6

FLD : Footrot management in blackpepper

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
% disease incidence	0.6	22.81

FLD : Management of Ginger Rhizome Rot

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
% disease incidence	2.18	24.12

FLD: ICM in Arecanut

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
Number of nut drop/plant	9.0	22.0
% reduction in nut drop	60 %	
Nut splitting /plant	7.0	18.0
% rootgrub mortality	63.5	42

FLD : ICM in Bt. Cotton**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
Aphids /3 leaves	1.5	4.2
Thrips /3 leaves	0.6	1.25
Shoot weevil %	0.82	2.50
Black arm %	4.50	7.25

5.B.2. Livestock and related enterprises –NIL-**5.B.3. Fisheries –NIL-****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./m ²)				*Economics of check (Rs./unit) or (Rs./m ²)				
					Demo				Check if any	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					H	L	A										
Others IFS Module Development	IFS		05	5					20000	95500	75500	4.8					
								30000	95000	65000	3.2						
								175000	668000	493000	3.82						
								15000	50000	35000	3.33						
								150000	450000	300000	3.0						

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 Transplanting Expenditure (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
Paddy Transplanter	2000(Hiring Charges)	Mechanized paddy transplanting	8	5	9	45	80	1690	40500	98280	57780	2.43	41800	92386	50586	2.21

* 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.)

Parameter with unit	Data on other parameters in relation to technology demonstrated	
	Demo	Local
Yield(q/ha)	63.70	60.01
% increase in Yield	6.15	
Plant Height	119.58	111.28
No. of Tillers	25.28	20
Cost of Transplanting	9560	11250
% Save in Transplanting Expenditure	15.02 %	

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

Sl.No.	Activity	No. of activities organised	Number of participants	Remarks
1	Field days	04	262	
2	Farmers Training	29	542	
3	Media coverage			
4	Training for extension functionaries			
5	Others (Please specify)			

PART VI – DEMONSTRATIONS ON CROP HYBRIDS : NIL

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										
Integrated Farming	2	0	0	0	32	8	40	32	8	40
Integrated Crop Management	1	17	1	18	0	0	0	17	1	18
Integrated Nutrient Management	1	15	11	26	2	2	4	17	13	30
Production Technology	10	118	43	161	45	4	49	163	47	210
Mechanization	2	39	5	44	0	0	0	39	5	44
Horticulture										
a) Vegetable Crops										
b) Fruits										
c) Ornamental Plants										
d) Plantation crops										
Production and Management technology	1	16	4	20	0	0	0	16	4	20
e) Tuber crops										
g) Medicinal and Aromatic Plants										
Soil Health and Fertility Management										
Soil and water testing	1	47	4	51	0	0	0	47	4	51
Livestock Production and Management										
Home Science/Women empowerment										
Agril. Engineering										
Plant Protection										
Integrated Pest Management	6	159	14	173	24	0	24	183	14	197
Fisheries										
Production of Inputs at site										
LAC Cultivation	1	14	0	14	0	0	0	14	0	14
Capacity Building and Group Dynamics										
Capacity building for ICT application	1	12	0	0	0	1	12	0	0	0
Agro-forestry										
TOTAL	26	437	82	519	103	14	117	540	96	636

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	3	24	8	32	16	14	30	40	22	62
Integrated Farming	3	27	1	28	18	1	19	45	2	47
Integrated Crop Management	1	8	2	10	0	0	0	8	2	10
Integrated Nutrient Management	3	43	0	43	10	0	10	53	0	53
Production Technology	10	133	6	140	83	20	103	216	26	242
Mechanization	2	18	5	23	10	0	10	28	5	33
Horticulture										
a) Vegetable Crops										
Production of low value and high volume crop	1	0	0	0	12	13	25	12	13	25
b) Fruits										
c) Ornamental Plants										
d) Plantation crops										
Production and Management technology	1	10	3	13	0	0	0	10	3	13
e) Tuber crops										
f) Spices										
g) Medicinal and Aromatic Plants										
Soil Health and Fertility Management										
Integrated nutrient management	2	20	3	23	0	0	0	20	3	23
Soil and water testing	3	0	0	0	35	16	51	35	16	51
Livestock Production and Management										
Home Science/Women empowerment										
Agril. Engineering										
Use of farm machinery	1	0	0	0	12	13	25	12	13	25
Plant Protection										
Integrated Pest Management	9	94	4	98	66	24	90	160	28	188
Integrated Disease Management	3	41	5	46	0	0	0	41	5	46
Bio-control of pests and diseases	1	11	0	11	0	0	0	11	0	11
Production of Inputs at site										
Capacity Building and Group Dynamics										
Agro-forestry										
TOTAL	43	429	37	467	262	101	363	691	138	829

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
Bee-keeping	1	34		34	17		17	51	0	51
Capacity building for ICT application	2	45	16	61	8	2	10	53	18	71
Introduction to KVK Activities	2	39	26	65	0	0	0	39	26	65
Entrepreneurial development of farmers/youths	01	14	06	20	0	0	0	14	06	20
TOTAL	6	132	48	180	25	2	27	157	50	207

7.D. Training for Rural Youths including sponsored training programmes (off campus) – NIL-**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	4	161	2	163	15	0	15	176	2	178
Integrated Pest Management	1	35	5	40	7	4	11	42	9	51
Integrated Nutrient management	2	26	0	26	24	0	24	50	0	50
Total	7	222	7	229	46	4	50	268	11	279

7.F. Training programmes for Extension Personnel including sponsored training programmes (off campus)-NIL-**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	8	190	2	192	10	0	10	200	2	202
2	Production and value addition										
3.	Soil health and fertility management										
4	Production of Inputs at site										
5	Methods of protective cultivation										
6	Others (pl.specify)										
7	Post harvest technology and value addition										
8	Farm machinery										
8.a.	Farm machinery, tools and implements	1	14	6	20	0	0	0	14	6	20
9.	Livestock and fisheries										
10	Livestock production and management										
11.	Home Science										
12	Agricultural Extension										
	Total	8	204	8	121	10	0	10	214	8	222

Details of sponsoring agencies involved

- 1.KSDA Karwar**
- 2.KSDA Sirsi**
- 3.KSDA Haveri**
- 4. Coconut Development Board, Bangalore**

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										
2	Post harvest technology and value addition										
3.	Livestock and fisheries										
4.	Income generation activities										
4.i.	Tailoring, stitching, embroidery, dying etc.	01	0	20	20	0	0	0	0	20	20
5	Agricultural Extension										
	Grand Total	01	0	20	20	0	0	0	0	20	20

PART VIII – EXTENSION ACTIVITIES

Extension Programmes (including extension activities undertaken in FLD programmes)

Nature of Extension Programme	No. of Programmes	No. of Participants (General)			No. of Participants SC / ST			No. of extension personnel		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	05	214	40	254	29	11	40	2	0	2
Exhibition	06	68025	16457	84482	3125	1005	4130	420	525	945
Method Demonstrations	18	174	26	202	32	17	45	17	0	17
Farmers Seminar	01	42	12	54	5	0	5	0	0	0
Workshop	03	224	35	224	16	0	16	62	02	64
Group meetings	05	88	18	106	08	0	08	11	0	11
Lectures delivered as resource persons	56	2977	2782	5759	236	290	526	431	216	467
Newspaper coverage	35									
Radio talks	08									
TV talks										
Popular articles	02									
Extension Literature	04									
Advisory Services										
Scientific visit to farmers field	137	613	12	625	19	0	19	24	01	25
Farmers visit to KVK	268	285	0	285	0	0	0	11	0	11
Diagnostic visits	61	185	01	186	02	0	02	17	0	17
Exposure visits	03	35	06	41	01	0	01	14	0	14
Ex-trainees Sannelan										
Celebration of important days : World Water Day	01	65	46	111	0	0	0	7	0	7
Any Other Campaigns	07	685	991	1676	44	25	69	95	0	95
Interface Meeting	02	94	16	110	05	0	05	24	0	24
Awareness Programme	02	187	21	208	02	02	04	26	0	26
Total	624	73893	20463	94323	3524	1350	4870	1161	744	1725

PART IX – PRODUCTION OF SEED, PLANT AND LIVESTOCK MATERIALS

9.A. Production of seeds by the KVKs : NIL

9.B. Production of planting materials by the KVKs

Crop category	Name of the crop	Variety	Hybrid	Number	Value (Rs.)	Number of farmers to whom provided
Commercial						
Vegetable seedlings						
Fruits						
Ornamental plants						
Medicinal and Aromatic						
Plantation						
Spices	Nutmeg			800		
Tuber						
Fodder crop saplings						
Forest Species						
Flowers	Jasmine			247		
Total				1047		

9.C. Production of Bio-Products

Bio Products	Name of the bio-product	Quantity Kg	Value (Rs.)	Number of farmers to whom provided
Bio Fertilizers				
Bio-pesticide				
Bio-fungicide				
Bio Agents				
IBA	IBA	200 boxes	7000	45
Total			7000	45

9.D. Production of livestock materials : NIL

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

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

(A) KVK News Letter ((Date of start, Periodicity, number of copies distributed etc.) :

1. April-2013 to Sept-2013, 100 Copies
2. October-December 2013 , 100 copies
3. January-March 2014 , 100 copies

(B) Literature developed/published

Item	Title	Authors name	Number
Research papers			
	Ternate leaves : an abnormal phyllotaxy in Teak (<i>Tectona grandis</i> L. F.)	Hanumantha, M., Rajesh P. Gunaga, Roopa S. Patil , Suma S. Biradar and Nagaraj	Indian Forester, 139 (9) : 851-852
	Phenological variation and Natural Regeneration in <i>Santalum album</i> Linn.: Implications for management	Hanumantha, M., Rajesh P. Gunaga, Roopa S. Patil , Girish B. Shahapurmath and Nagaraja	Poster paper in International Seminar on “Sandalwood: Current trends and future prospects” held at IISc and IWST, Bangalore during February 26-28, 2014.
	Effect of Organic manures on yield and quality parameters of Onion	PDA,Akkamahadevi D Agasimani and YS	Abstract presented in National Conference on Spices- Recent Advances and Future Strategies held at UAHS,Shivamogga 19-21 Dec 2013
	Influence of organic manures on growth, yield and economics of onion	PDA,Akkamahadevi D Agasimani and YS	Abstract presented in National Conference on Spices- Recent Advances and Future Strategies held at UAHS,Shivamogga 19-21 Dec 2013
Popular articles			
	Aragu Krishi- ondu kiru parichaya	RSP, SSM	Krishi munnade, 29 (8) ; 5-7
	Belegala samagra roga nirvahane-	MRR and RSP	Krishi munnade, 30 (3) ; 15-18
	Ashwagandha Krishi	Akkamahadevi Agasimani	Krishi Munnade,26(09) ; 18-19
Extension literature			
	Aragu Krishi- ondu kiru parichaya	Roopa S. Patil , Mitrannavar, D. H., Shivashankaramurthy, M., Akkamahadevi, D. A. and Hanumantha. M	1000
	Belegala samagra roga nirvahanege-beejopachara	MRR and RSP	1000
	Sassya Tali Rakshane hagu Raitara Hakkugalu Pradhikarada Dyeyoddeshagalu hagu Visheshategalu	SSM,RSP,ADA,PTG	1000
	Bhattada Beleya Samagra Nirvahane	Shivashenkarmurthy M, Dr. Roopa S Patil, Dr. Praveen T Goroji, Akkamahadevi D Agasimani	1000

Booklets	"Shreshtha Krishika" mattu "Shreshtha Krishi Mahile " hagu "Shreshtha Yuva Krishika " mattu "Shreshtha Yuva Krishi Mahile"	AT Patil, S J K, M J,VUM,UNK, SS, & Akkamahadevi Agasimani	500
	"Raita Vignyanigala Krishi Tantrikategalu"	SPH,M.Shivashenkarmurthy, STH,SSN,Roopa S Patil, R B B,S Y W, SSK,KBY & Akkamahadevi Agasimani	2000
Training Manuals	Uttara Kannada Jilleya Pramukh Krishi Belegala Sudharita Besay Kramagalu	Shivashenkarmurthy M, Dr. Roopa S Patil,Akkamahadevi Agasimani, Dr.Praveen Goroji	100
TOTAL			

10.B. Details of Electronic Media Produced

S. No.	Type of media (CD / VCD / DVD/ Audio-Cassette)	Title of the programme	Number
01	DVD	Kannada Version of PPVFR Act 2011	01

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).

Title : Sustainable Agriculture Through Integrated Farming System - A Success Story Of Young Farmer Prasad Rama Hegde

Prasad Rama Hegde a young farmer is a model farmer for the youth who are migrating towards the cities in search of jobs, instead of generating employment from their potential lands. Prasad has shown that Agriculture is a profitable venture if it is taken as worship. After completion of his Graduation, Prasad wanted to serve the country by joining Indian Army, but somehow his wish was not fulfilled. He continued to study law, then he decided to take Agriculture as venture instead of hunting for the job. His father Rama Hegde and mother Saraswati supported son's decision and joined hands with him.

He stays in a lonely house along with his parents in dense forests of Kanakodlu village in Yellapur Taluka of Uttara Kannada district in Karnataka. Today he owns 4.38 ac land and has developed all the necessary infrastructure for Scientific Agriculture. Knowing the importance of Integrated Farming System for sustainable income, he is practicing it since 15 years.

To overcome the water scarcity during summer, he has formed 40 pits to harvest rain water in the slope of betta land. Since then, he never faced the water scarcity. His farm pond is ever ready to water the garden and source for fish culture.

He practices Arecanut based multi cropping system with Banana, Black pepper, Coconut, Cardamom, Vanilla, Nutmeg. He has effectively utilized the land by planting mango, cashew, kokum, jackfruit, sapota, bamboo on bunds around the garden. He is also involved in conservation of 12 different traditional mango varieties He has

planted nearly 40 types of medicinal plants and also local vegetables for home consumption. He recently planted coffee, cinnamom and agarwood as source for future income. He is practicing apiculture with 40 bee boxes of *Apis cerena* along with *Trigona* colonies.

Mainly he follows organic farming and organic needs are fulfilled by the dairy with four cows and 2 calfs, a vermicompost unit and slurry from the bio gas plant. To overcome the labour scarcity, he has adopted mechanization by using diggers, weeders, automatic sprayers, power weeder etc.

He participates in Agriculture fairs organized by Agriculture Universities, Department and NGO to upgrade his knowledge. He gets technical back stopping from Krishi Vigyan Kendra, Sirsi KSDA, Department of Horticulture, College of Forestry Sirsi and other agribased agencies.

Impact

Cost Economics:

Year	Expense(Rs.)	Income(Rs.)	Net profit(Rs.)
2009-10	1,01,800	2,98,900	1,97,100
2010-11	1,10,500	3,84,000	2,73,500
2011-12	1,75,700	7,92,200	6,16,500
2012-13	1,76,800	7,61,800	5,85,000

He has been honored with many awards such as :

- “KRISHI SADHAKA-2012” award by *Sonda Swarnavalli Krishi Pratishthana* of Sirsi taluk of Uttara Kannada district.
- “UTTARA KANNADA DISTRICT BEST FARMER-2013” award by *University of Agricultural Sciences, Dharwad*.
- Award in national agriculture fair conducted by *University of Agricultural Sciences, Bangalore*.
- “HALASU SIRI-2006” award in Jack Fruit Fair organised by *Kadamba Marketing, Sirsi*.

Many farmers / extension personal regularly visit his field as a model IFS plot. Prasad Rama Hegde’s hard work, dedication has proven Agriculture as profitable venture.

Address:

Name : Prasad Rama Hegde Kanakodlu
 At : Kanakodlu
 Post : Hemmadi
 Taluk : Yellapur-581 402
 District : Uttara Kannada
 State : Karnataka
 Phone : 08419-257815
 Cell : 9379138682

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

The Uttara Kannada District of Karnataka has a large geographical area. Agriculture is the main occupation. The vast area and remoteness of villages make Transfer of Technology difficult. Sugarcane is one of the commercial crops grown mainly in Haliyal Taluka(2500ha). The yield levels are very low(30 tones/ac) , due to many production constrains viz.

- Non adoption of Improved production technology
- Non adoption of RDF and Organic Manures
- Delay in planting
- Flowering occurrence
- Lack knowledge and resources
- Improper weed management

Haliyal Taluka is 140 kms away from the KVK headquarter, hence timely technical backstopping from limited scientists of KVK is very difficult .To overcome the above constraints for Transfer of Technology , an innovative strategy was initiated for dissemination of technology.

Innovation: Establishment of "*Farmers' Participatory Sugarcane Knowledge and Resource Point (SKRP)*"

SKRP mainly consists of two concepts lead by farmers under the guidance of KVK

1. Technology Park
2. Resource Point

Technology park consisting of demonstrations related to Sugarcane production technologies like:

- SSI Method of cultivation
- Pit method
- Wider row & Paired row spacing
- Drip with Fertigation
- Mulching with Trash
- Weed management Technique
- Jaggery Making
- Compost making
- Sugarcane based inter cropping system
- Ratoon management
- INM & IPM

And the Resource point is aimed at providing resources needed for scientific sugarcane cultivation, like:

- Single eyebud seedlings
- Biofertilizers & biofungicides
- Compost cultures
- Seeds & Seedlings for intercropping
- Machines on hiring basis
- Vermicompost & worms

To implement this approach , In Havagi village of Haliyal Taluka , Sugarcane Growers Group was formed and identified suitable farmers to lead the Technology Park and the Resource Point. Accordingly, Shri. J.R.Patil , who is BSc(Ag) graduate and resourceful farmer of the village was identified to lead the Technology Park and Shri. Chetan, Rural Youth is identified to lead the Resource Point.

Role of KVK

- Giving Technical guidance to SKRP
- Supplying technical capsules to SKRP
- Conducting Demonstrations/Trials in the farmers field
- Developing Model Demo plot at SKRP

It is also planned to organize exposure visit of members of Sugarcane Growers Group to Tamilnadu for gaining knowledge on advanced production technologies in Sugarcane.

Progress of SKRP :

Following demonstration units have been established in Technology Park:

- SSI Method of cultivation
- Wider row & Paired row spacing
- Drip with Fertigation
- Mulching with Trash
- Weed management Technique
- Compost making
- Sugarcane based inter cropping system
- Ratoon management
- INM & IPM

Activities carried out under Resource Point:

- Single eyebud seedling production

Feedback and Response of Farmers & Departmental Officials:

The farmers and Departmental Officials have expressed good opinion on the concept of seeing and carrying the technology developed under SKRP. Farmers suggested to take-up demonstrations on other crops also.

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
01	Maize	Fencing with sarees all around the maize field.	To protect the crop from wild bore

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

- Identification of courses for farmers/farm women
- Rural Youth
- Inservice personnel

10.G. Field activities

- i. Number of villages adopted: 02 (Gudnapur, Kantraji)
- ii. No. of farm families selected: 10
- iii. No. of survey/PRA conducted : 15

10.H. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab :Functional

1. Year of establishment : 2004

2. List of equipments purchased with amount :

Sl. No	Name of the Equipment	Qty.	Cost
1	pH meter	1	8,000
2	EC meter	1	8,000
3	Kjeldhal N distillation Unit	1	1,00,000
4	Plant Sample digestion Unit (Kjeldhal)	1	1,00,000
5a	Distillation Unit (Glass double)-5L / hr	1	10,000
5b	Distillation Unit (Glass double)-1 L/hr	2	10,000
6	Spectrophotometer	1	40,000
7	Flame photometer	1	40,000
8	Hot Air Ovn	1	20,000
9	Willey mill (Plant sample Grinder)	1	25,000
10	Hot plate	1	10,000
11	Horizantal Shaker	1	15,000
12	Weighing Balance (Cap 500 g, Acc 0.1 g)	1	5,000
13	Weighing Balance (Cap 100 g, Acc 0.001 g)	1	25,000
14	Digital pH meter	1	11500
15	EC Bridge	1	10300
Total		17	4,37,800

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	1154	786	213	206783
Water Samples	222	207	150	
Plant samples	-	-	-	
Manure samples	-	-	-	
Others (specify)	23	23	23	
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	317	140	56	56450
Water Samples	57	42	42	2850
Plant samples				
Manure samples				
Others (specify)				
Total	374	182	98	59300

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

If Yes

10. J. Interventions on drought mitigation (if the KVK included in this special programme) : NO

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)
IBA – Root Hormone	200	90%	-	-
CMS Technology for plant propagation	18	30%	-	-
Metarrhizium for management of arecanut rootgrubs	135	27%	-	-
IFS	260	100%		
Pseudo stem injection to banana for management of pseudo stem weevil	05	100%	2.5 lakh/ acre	3.25 lakh/ acre
Foliar spray of propiconazole against banana sheath rot disease	12	100%	2.25 lakh/ acre	3.75 lakh/ acre
Value addition of minor fruits	01	100%	2.0 lakhs/annum	30 lakhs /annum
Foliar spray of banana special	55	70 %	3.0 lakh/ acre	3.25 lakh/ acre
Management of rhizome rot in ginger through integrated approach	65	100%	2.75 lakh/ac	9.60 lakh/ac

11.B. Cases of large scale adoption

Use of entomopathogenic fungi, *Metarrhizium anisopliae* for thae management of rootgrubs (*Luecopholis lepidophora*) in Arecanut

Farmers of Uttar Kannada are reluctant to use chemical pesticides for the management of insect pests. They are more inclined towards organic farming. Rootgrub is one of the major production constraint in areca production. Traditionally farmers of this region are using several plant extracts to manage the pest. 36 farmers have adopted the this technology in an area of 50 ha.

KMP – 105, a short duration Paddy variety for summer season

Water shortage is the major problem during summer for Paddy crop in and around Varada river belt. In this connection KVK conducted OFT on KMP 105, a short duration paddy variety released by UAS, Bangalore for two years, 2011-12 and 2012-13. During the period of investigation, 8 farmers of Yedurbaill village have taken the KMP 105 variety in an area of 12 ac.

Management of rhizome rot in Ginger

Rhizome rot is the major disease threatening the ginger production in Banavasi hobli. During 2012-13, KVK in collaboration EEU conducted the FLD on Management of rhizome rot through integrated approach in Gudnapur village. Now, the disease is negligible as all the farmers of Gudnapur have been adopting the integrated practices.

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

S. NO	Problems	Extension methods to solve problems	Method of Impact study and analysis	Impact	Impact Indicator
1	Pseudo stem weevil in Banana	Diagnostic Field Visit Individual Contact Method demos Phone calls, Farmers visit to KVK	Field visit and Observation Phone calls	Banana crop was completely recovered from the problem	Absence of insect pest.
2	Panama wilt in Banana	Diagnostic Field Visit Individual Contact Method demos Phone calls, Farmers visit to KVK	Field visit and Observation Phone calls	Banana crop was completely recovered from the problem	Absence of infected plants.
3	Nut drop in arecanut	FLD, Diagnostic Field Visit along with dept officials, Individual Contact Method demos, trainings Phone calls, Farmers visit to KVK	Field visit and Observation Phone calls	Reduction in nut drop and nut splitting	Yield and feed back
4	Bud rot in arecanut seedlings	Diagnostic Field Visit Individual Contact Method demos, Phone calls, Farmers visit to KVK	Phone calls	Complete recovery of areca garden	Healthy seedlings

PART XII - LINKAGES

12.A. Functional linkage with different organizations

Name of organization	Nature of linkage
BAIF, Institute for rural development	Trainings, field day, field visit, workshop
State Dept. of Agriculture	Trainings, demonstrations, seminars and field days.
State Dept. of Horticulture	Training programmes, demonstrations, seminars and field days, soil testing
Thotagar's Service Society, Sirsi	Trainings, input procurement, seminars.
State Dept. of Animal husbandry & Veterinary Sciences	Animal Health Camps, trainings.
Grameen Banks	Guidance to beneficiaries about schemes in Trainings
Water shed department	Trainings.
All India Radio, E-TV, Udaya, Chetan TV and Door Darshan	Publicity and transfer of technology
Kadamba charitable trust, Sirsi	Trainings, method demonstration, meetings, Seminars.
Snehakunja Charitable Trust, Honnavar	Training & method demonstration.
Farmers clubs	Trainings, demonstrations, seminars and field days.
Sri Kshetra Dharmastala Grameenabhivrudhi Yojane (SKDRDP)	Seminar, Field day.
SRIJAN NGO	Conducting FLD, Seed Production, Trainings and Field Visit and Field days
MANU VIKAS NGO	Field days and Field visits

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/Project	Role of KVK	Date/ Month of initiation	Funding agency	Amount (Rs. in Lakhs)
Studies on LAC cultivation in Uttara Kananda District	AS Co-PI	Jul-2013	UASD	1.41
Bioefficacy of Triazophos 40% EC against paddy pests	AS PI	Jul-2013	Willowood Chemical Pvt. Ltd. New Delhi	0.89
Bioefficacy and Phytotoxicity of Aciphate 75% SP against paddy pests	AS PI	Feb-2014	Willowood Chemical Pvt. Ltd. New Delhi	0.89
Bioefficacy and Phytotoxicity of Facet herbicide on BLWS and grassy weeds in paddy and subsequent crop	AS PI	Jul-2013	BASF, Bangalore	1.80
Empowerment of SC farm house holds in agriculture zones of northern Karnataka	AS Co- PI	Sept-2013	Dept of Agriculture, Govt of Karnataka	29.01
Empowerment of ST farm house holds in agriculture zones of northern karnataka	AS Co- PI	Sept-2013	Dept of Agriculture, Govt of Karnataka	8.06

12.C. Details of linkage with ATMA

a) Is ATMA implemented in your district Yes
 If yes, role of KVK in preparation of SREP of the district?

- Training the AES team and district core committee on revisiting SREP, SREP concept, steps in preparation of SREP, collection of primary and secondary data and analysis
- Conducting PRA
- Guiding the ATMA staff in SREP preparation
- Strategic planning
- Organising workshops and seminars

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	ATMA Advisory committee meeting	02		
02	Research projects	Management of earhead bug in summer paddy through bio pesticides			
		Identification of suitable vegetable varieties during summer for UK district			
03	Training programmes		01	09	
04	Demonstrations				
05	Extension Programmes				
	Kisan Mela				
	Field day			01	
	Technology Week				
	Exposure visit				
	Exhibition				
	Soil health camps				
	Animal Health Campaigns				
	Guest Lectures			15	
06	Publications				

	Video Films	Webcasting of Krishi Vasant		03	
	Books				
	Extension Literature	Management of earhead bug in paddy(Kannada)		01	
	Pamphlets				
	Others (Pl. specify)				
07	Other Activities (Pl. specify)				
	Watershed approach				
	Integrated Farm Development				
	Agri-preneurs development				

12.D. Give details of programmes implemented under National Horticultural Mission- NIL-

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

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
01	Demonstration of Banana Special	Demonstration	18000	17700	10 Demos were conducted in Banavasi Hobli
02	Demonstration of Mango special	Demonstration	18000	17700	10 Demos were conducted in Pala Hobli
03	ICM in greengram grown in paddy fallows	Demonstration	6000	4900	10 Demos were conducted in Gudnapur & Kantraji villages
04	Popularization tree fodder species in Uttara Kannada	Campaign	20000	20000	Conducted campaign on 15.03.2014 at Gaddimane village of Siddapur Taluka. 103 Farmers/EFs participated in the programme

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	5	500	
May	03	500	
June	03	500	
July	03	500	
August	01	500	
September	05	1800	
October	02	1800	
November	02	1900	
December	04	1900	
January 2014	04	1900	
February	02	1900	
March 2014	0	0	
Total for the year 2013-14	34		

PART XIII- PERFORMANCE OF INFRASTRUCTURE IN KVK

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

Sl. No.	Demo Unit	Year of establishment	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Produce	Qty.	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.(qtl)	Cost of inputs	Gross income	
Cereals									
Paddy	23.07.2014	7.12.2013	0.4	Abhilash	Seeds	33.8	20129	42194	
					Straw	5			
Pulses									
Blackgram	8.2.2014		0.4	DU-1					Pod Maturing Stage
Oilseeds									
Fibers									
Spices & Plantation crops									
Cashew			0.4						Harvesting Stage
Floriculture									
Fruits									
Vegetables									
Others (specify)									

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

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

13.E. Utilization of hostel facilities

Accommodation available (No. of beds)

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
April 2013	3	3	
May 2013	7	13	
June 2013	7	28	
July 2013	15	63	
August 2013	10	92	
September 2013	13	25	
October 2013	12	37	
November 2013	11	27	
December 2013	21	48	
January 2014	13	60	
February 2014	23	286	
March 2014	68	191	

13.F. Database management

S. No	Database target	Database created (Excel)
01		Trainings
02		FLD Details
03		OFT Details
04		Field Visits
05		Method Demonstrations
06		Farmer Visits to KVK
07		Phone Calls
08		Seminars/Workshops Organized
09		Seminars/Trainings/Workshops attended
10		Special Programmes
11		KMAS
12		Guest Lectures
13		Field Days
14		Electronic Media
15		Publications
16		News Paper Coverage

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

PART XIV - FINANCIAL PERFORMANCE

14.A. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Branch code	Account Name	Account Number	MICR Number	IFSC Number
With Host Institute							
With KVK	SBI,SIRSI	SIRSI	917	Prog. Coordinator,KVK UK	30157809532		SBIN0000917

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	3881000	3881000	3873784
2	Traveling allowances	135000	135000	127940
3	Contingencies			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter	190000	190000	189692
B	POL, repair of vehicles, tractor and equipments	185000	185000	184889
C	Meals/refreshment for trainees (@Rs.75/day/trainee for residential and @ Rs.40/day/trainee for non-residential trainings)	70000	70000	61572
D	Training material (need based materials and equipments for conducting the training)	35000	35000	16835
E	Frontline demonstration	500000	500000	373834
F	FLD on special Pulses Programme	15000	15000	
G	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	25000	25000	7843
H	Training of extension functionaries	50000	50000	14020
I	Maintenance of building	0	0	46900
J	Extension Activities	5000	5000	22758
K	Farmers' Field School	50000	50000	14919
L	Library (Purchase of Journal, Periodicals, News Paper and Magazines)	30000	30000	4847
	TOTAL (A)	5170000	5170000	4939833
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)	5170000	5170000	4939833

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

Year	Opening balance as on 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st April of each year
April 2011 to March 2012	1.73557	4.20913	2.29875	3.64595
April 2012 to March 2013	3.64595	2.91336	4.73994	1.81937
April 2013 to March 2014	1.81937	5.55557	1.58632	5.78862

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
Dr.Roopa S Patil	PC(I/C)	Scientific method of LAC Production, Processing and utilization	IINRG,Ranchi	30-Sep-13 to 5-Oct-13
Shri. Shivashenkarmurthy M	SMS(Agronomy)	Revisiting of SREP	UASD	15-Jul-13 to 19-Jul-13
Smt. Annapurna Neeralgi	Prog. Asst(computers)	SQL, Visual studio.net, AJAX technologies	UASD	19-Aug-13 to 31-Aug-13
Shri. Siddappa Kannur	Prog. Asst(Agroforestry)	Sandal based agroforestry models for the farmers of Karnataka & Goa	IWST Bangalore	6-Jan-14 to 8-Jan-14

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

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	Number of farmers	Area in ha (Per trial covering all the Technological Options)
Integrated Nutrient Management	Maize+Cowpea	Evaluation of alternate crops during summer season	05	05	0.3
	Varietal Evaluation	Frenchbean	Introduction of new French bean varieties	05	05
Integrated Pest Management	Banana	Low cost management of Panama wilt in Banana	05	06	0.1
	Integrated Crop Management	Paddy	Organic farming practices in paddy	05	05
Integrated Farming System Seed / Plant production	Cardamom	Production of quality seedlings in cardamom through CMS Technology	05	05	
	Total		25	26	

Summary of technologies assessed under livestock- NIL-

Summary of technologies assessed under various enterprises-NIL-

Summary of technologies assessed under home science-NIL-

II. TECHNOLOGY REFINEMENT

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

5.B.1. Crops

Crop	Name of the technology demonstrated	Variety	Hybrid	Farming situation	No. of Demos.	Area (ha)	Yield (q/ha)			% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)				
							Demo				Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
							H	L	A										
Oilseeds																			
Groundnut	ICM	GPBD-4	-	Residual moisture	12	4	12.00	8.5	10.94	8.15	34.23	16250	35008	18758	2.15	15600	26080	10480	1.67
Pulses	ICM in Black gram	DU-1		Residual Moisture	13	6.0	12.5	6.0	8.37	5.79	44.55	12800	33480	20680	2.62	11500	27800	16300	2.42
Cereals	ICM in Paddy	Abhilash MGD-101 Siri-1253		Rainfed	19	8	102.60	47.50	77.42	62.66	23.56	48878	119606	70728	2.45	42775	97264	54489	2.28
	ICM in Maize	CP-818		Rainfed	13	6.0	77.5	57.75	66.31	56.9	16.54	35600	97986	62386	2.75	33800	84136	50336	2.49
	Popularization of KMP-105 Short duration Paddy variety for summer	KMP-105	-	Irrigation	12	5.6	Ongoing												
Fruit	ICM in mango	Alphanso, Panchami	Mallika	Rainfed	15	6	Ongoing												
Spices and condiments	Foot rot Management in Black Pepper	Panniyur-1	-	Rainfed	10	250 (vines)	8.3	6.9	7.8	6.5	20%	69620	389333.3	319713.3	5.59	67500	326666.7	259166.7	4.83
Ginger	Management of ginger rhizome rot	Himachal	-	Irrigated	10	2	128.0	95.0	115.7	73.5	36.05%	184000	694000	510400	3.8	175000	441000	266000.0	2.52
Plantation	ICM in Arecanut	local		Rainfed	10	4.0	33.0	26.5	29.8	21.7	36.6	75600	545470	469870	7.2	63270	439415	376145	6.9
Fibre	ICM in <i>Bt.</i> Cotton	-	BG-II	Rainfed	16	6	23.75	20.63	19.74	15.25	29.44	26875	122388	68638	4.55	23750	94550	70800	3.98

Livestock :NIL

Fisheries :NIL

Other enterprises :NIL

Women empowerment

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 Transplanting Expenditure (Rs./ha)
					Demo	Check		
Paddy Transplanter	2000(Hiring Charges)	Mechanized paddy transplanting	8	5	9	45	80	15%

Contd....

*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
Gross cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
40500	98280	57780	2.43	41800	92386	50586	2.21

Other enterprises : Nil

Demonstration details on crop hybrids :NIL

IV. Training Programme

PART VII. TRAINING

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production										
Integrated Farming	2	0	0	0	32	8	40	32	8	40
Integrated Crop Management	1	17	1	18	0	0	0	17	1	18
Integrated Nutrient Management	1	15	11	26	2	2	4	17	13	30
Production Technology	10	118	43	161	45	4	49	163	47	210
Mechanization	2	39	5	44	0	0	0	39	5	44
Horticulture										
a) Vegetable Crops										
b) Fruits										
c) Ornamental Plants										
d) Plantation crops										
Production and Management technology	1	16	4	20	0	0	0	16	4	20
e) Tuber crops										
g) Medicinal and Aromatic Plants										
Soil Health and Fertility Management										
Soil and water testing	1	47	4	51	0	0	0	47	4	51
Livestock Production and Management										
Home Science/Women empowerment										
Agril. Engineering										
Plant Protection										
Integrated Pest Management	6	159	14	173	24	0	24	183	14	197
Fisheries										
Production of Inputs at site										
LAC Cultivation	1	14	0	14	0	0	0	14	0	14
Capacity Building and Group Dynamics										
Capacity building for ICT application	1	12	0	0	0	1	12	0	0	0
Agro-forestry										
TOTAL	26	437	82	519	103	14	117	540	96	636

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	3	24	8	32	16	14	30	40	22	62
Integrated Farming	3	27	1	28	18	1	19	45	2	47
Integrated Crop Management	1	8	2	10	0	0	0	8	2	10
Integrated Nutrient Management	3	43	0	43	10	0	10	53	0	53
Production Technology	10	133	6	140	83	20	103	216	26	242
Mechanization	2	18	5	23	10	0	10	28	5	33
Horticulture										
a) Vegetable Crops										
Production of low value and high volume crop	1	0	0	0	12	13	25	12	13	25
b) Fruits										
c) Ornamental Plants										
d) Plantation crops										
Production and Management technology	1	10	3	13	0	0	0	10	3	13
e) Tuber crops										
f) Spices										
g) Medicinal and Aromatic Plants										
Soil Health and Fertility Management										
Integrated nutrient management	2	20	3	23	0	0	0	20	3	23
Soil and water testing	3	0	0	0	35	16	51	35	16	51
Livestock Production and Management										
Home Science/Women empowerment										
Agril. Engineering										
Use of farm machinery	1	0	0	0	12	13	25	12	13	25
Plant Protection										
Integrated Pest Management	9	94	4	98	66	24	90	160	28	188
Integrated Disease Management	3	41	5	46	0	0	0	41	5	46
Bio-control of pests and diseases	1	11	0	11	0	0	0	11	0	11
Production of Inputs at site										
Capacity Building and Group Dynamics										
Agro-forestry										
TOTAL	43	429	37	467	262	101	363	691	138	829

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
Bee-keeping	1	34		34	17		17	51	0	51
Capacity building for ICT application	2	45	16	61	8	2	10	53	18	71
Introduction to KVK Activities	2	39	26	65	0	0	0	39	26	65
Entrepreneurial development of farmers/youths	01	14	06	20	0	0	0	14	06	20
TOTAL	6	132	48	180	25	2	27	157	50	207

7.D. Training for Rural Youths including sponsored training programmes (off campus) – NIL-**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	4	161	2	163	15	0	15	176	2	178
Integrated Pest Management	1	35	5	40	7	4	11	42	9	51
Integrated Nutrient management	2	26	0	26	24	0	24	50	0	50
Total	7	222	7	229	46	4	50	268	11	279

7.F. Training programmes for Extension Personnel including sponsored training programmes (off campus)-NIL-**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	8	190	2	192	10	0	10	200	2	202
2	Production and value addition										
3.	Soil health and fertility management										
4	Production of Inputs at site										
5	Methods of protective cultivation										
6	Others (pl.specify)										
7	Post harvest technology and value addition										
8	Farm machinery										
8.a.	Farm machinery, tools and implements	1	14	6	20	0	0	0	14	6	20
9.	Livestock and fisheries										
10	Livestock production and management										
11.	Home Science										
12	Agricultural Extension										
	Total	8	204	8	121	10	0	10	214	8	222

Details of sponsoring agencies involved**1.KSDA Karwar****2.KSDA Sirsi****3.KSDA Haveri****4. Coconut Development Board, Bangalore****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										
2	Post harvest technology and value addition										
3.	Livestock and fisheries										
4.	Income generation activities										
4.i.	Tailoring, stitching, embroidery, dying etc.	01	0	20	20	0	0	0	0	20	20
5	Agricultural Extension										
	Grand Total	01	0	20	20	0	0	0	0	20	20

V. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services				
Diagnostic visits	61	188	17	205
Field Day	5	294	02	296
Group discussions	5	114	11	125
Kisan Ghosthi				
Film Show				
Self -help groups				
Kisan Mela				
Exhibition	6	88612	945	89557
Scientists' visit to farmers field	137	644	25	669
Plant/animal health camps				
Farm Science Club				
Ex-trainees Sammelan				
Farmers' seminar/workshop	3	240	64	304
Method Demonstrations	18	247	17	264
Celebration of important days				
Special day celebration	01	240	64	304
Exposure visits	03	42	14	56
Others : Guest Lectures	56	6285	467	6752
Campaign	7	1745	95	1840
Total	302	98651	1721	100372

Details of other extension programmes

Particulars	Number
Electronic Media	
Extension Literature	04
News Letter	03
News paper coverage	35
Technical Articles	
Technical Bulletins	
Technical Reports	
Radio Talks	8
TV Talks	
Animal health camps (Number of animals treated)	
Others (pl.specify)	
Total	

PRODUCTION OF SEED/PLANTING MATERIAL

Production of seeds by the KVKs : Nil

Production of planting materials by the KVKs

Crop category	Name of the crop	Name of the variety (if hybrid pl. specify)	Number	Value (Rs.)	Number of farmers
Commercial					
Vegetable seedlings					
Fruits					
Ornamental plants					
Medicinal and Aromatic					
Plantation					
Spices	800				
Tuber					
Fodder crop saplings					
Forest Species					
Flowers	247				
Total	1047				

Production of Bio-Products

Bio Products	Name of the bio-product	Quantity	Value (Rs.)	No. of Farmers
		Kg		
Bio Fertilizers				
Bio-pesticide				
Bio-fungicide				
Bio Agents				
IBA	IBA	200 boxes	7000	45
Total				

Production of livestock and related enterprise materials : NIL

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

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)
Soil Samples	317	140	56	56450
Water Samples	57	42	42	2850
Plant samples				
Manure samples				
Others (specify)				
Total	374	182	98	59300

VIII. SCIENTIFIC ADVISORY COMMITTEE

Number of SACs conducted
01

IX. NEWSLETTER

Number of issues of newsletter published
1. April-September 2013 2. October-December 2013 3. January-March 2014

X. RESEARCH PAPER PUBLISHED

Number of research paper published

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

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