

**ANNUAL REPORT 2014-15**

**(FOR THE PERIOD APRIL 2014 TO MARCH 2015)**

**KRISHI VIGYAN KENDRA (UTTARA KANNADA)**

## **PART I - GENERAL INFORMATION ABOUT THE KVK**

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

<b>KVK Address</b>	<b>Telephone</b>		<b>E mail</b>	<b>Web Address</b>
	Office	Fax		
Krishi Vigyan Kendra Banavasi Road, Sirsi-581 401 District : Uttara Kannada State : Karnataka	Office (08384) 228411	FAX (08384) 228411	kvkuku@gmail.com	<b>www.kvuttarkannada.org</b>

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

<b>Address</b>	<b>Telephone</b>		<b>E mail</b>	<b>Web Address</b>
	Office	Fax		
University of Agricultural Sciences, Krishi Nagar Dharwad -580 005	(0836) 2448512, 2447494	(0836) 2748199	deusd@rediffmail.com	www.uasd.edu

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

<b>Name</b>	<b>Telephone / Contact</b>		
	<b>Residence</b>	<b>Mobile</b>	<b>Email</b>
Dr. Manjappa K.	-	9448495345	manjappasirsi@gmail.com

### **1.4. Year of sanction: 2004**



1.6. Total land with KVK (in ha)

: 2.5 ha

S. No.	Item	Area (ha)
1	Under Buildings	0.5
2.	Under Demonstration Units	-
3.	Under Crops	0.8
4.	Orchard/Agro-forestry	1.0
5.	Others	-

1.7. Infrastructural Development:

**A) Buildings**

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building							
2.	Farmers Hostel	NATP	2003	395.81	-	-	-	-
3.	Staff Quarters							
	1							
	2							
	3							
	4							
	5							
	6							
4.	Demonstration Units							
	1							
	2							
	3							
	4							
5	Fencing							
6	Rain Water harvesting system							
7	Threshing floor							
8	Farm godown							
9								
10								

**B) Vehicles**

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Motor bike KA 31 J 3307	Yamaha Crux 2002	42,850.00	26087	Good
Motor bike KA 25 EC 7562	Hero Honda - Passion 2009	42,450.00	91236	Good
KA 25 EC 7564	2009	42,450.00	19999	Good
Toyota Qualis Jeep KA 31M 2652	2004	5,00,000.00	223488	Good
Power Tiller	2011	145950.00	46 hrs 50 mins	Good
HMT Tractor KA-31 T-2445	2011	357863.81	817.5 hrs	Good
Trailor KA-31 T-2446		114285.72		

**C) Equipments & AV aids**

<b>Name of the equipment</b>	<b>Year of purchase</b>	<b>Cost (Rs.)</b>	<b>Present status</b>
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/-	"
Printer	July-2014	18500	"
Projector	July-2014	45000	"
Digital copier	July-2014	162518	"
UPS 650 VA	September 2014	1600	"
Iball baton Model	December - 2014	2150	"
UPS 1.5 KV	January 2015	31122	"
Portable bag sticher	December 2014	4800	"
Biometric	January 2015	14533	"
Laser Printer	January 2015	8600	"
Laser Printer	March 2015	8600	"
UPS 650 VA	March 2015	2250	"

### 1.8. Details SAC meeting conducted in 2014-15

Sl.No.	Date	Number of Participants	No. of absentees	Salient Recommendations	Action taken
1.	08.07.2013	38	05	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 once again.	Proposal has been submitted to UAS for financial sanction
				Feedback from farmer with respect to performance of 4 rows and 8 rows paddy transplanting machines.	Collected
				Production of <i>Metarrhizium</i> and <i>Trichoderma</i> at COF, Sirsi	Initiated
				Researches on Lac cultivations to be taken at ARS Malagi	The activities are initialized at ARS Malagi under SRP
				Extension activities to create awareness on site specific nutrient loss management are to be taken up.	Action was not taken due to limited staff
				To gain more knowledge on value addition of banana fibre, visits to IDS and Kishkinda Trust, Anegundi may be planned. The acquired knowledge is to be disseminated to the farmers of the district.	Visited banana fibre extraction and preparation of value added products unit at Sirsi. Discussion with SKDRDP SHG Groups regarding organizing trainings
				Post harvest techniques on fruits and vegetables has to be obtained from IIHR Bangaluru under KVK R/F	will be initialised
				Popularization of Home Made chocolates	Action was not taken, but will be initiated after recruitment of Home scientist
				KVK News Letter should be published bimonthly and information on farmer friendly technologies and success stories of farmers are to be included.	KVK News Letter is published quarterly. Information on success stories of farmers are included. successful farmers achievements are uploaded in KVK Website.
				Selection of two interested farmers for undergoing Coconut Chips Making training at CPCRI Kasaragod under KVK Funds	10 farm women were trained in CPCRI Kasaragod on Coconut chips making under RKVY Exposure Visit on 5.02.2015
				KVK Should guide the farmers in registering traditional paddy variety Kagga	Initiated and conducted awareness programme on PPVFRA 2001
				Each SMS should take one IG Activity under KVK R/F	SMS(Horticulture): Around 11 Kg IBA root promoter was produced. it is planned to produce 2000 Black pepper Seedlings in 15-16  SMS(Agronomy): 25 qtl of KMP-105 seed produced

				ARS Malagi and ARS Sirsi lands are to be transferred to KVK.	ARS, Sirsi Land has been transferred to KVK, Sirsi in May 2015.
				SRP is to be sent to UASD to study the outbreak and impact of <i>Udonga montana</i>	SRP was sanctioned for Rs. 282000.00. The SRP is initialized in Sirsi, Siddapur & Yellapur talukas. The bug disappeared by the end of Nov-2014.
				Document and publish the special achievement of farmers	Success stories of Progressive farmers were published in KVK,Website
				Registration of 100000 farmers for sending KMAS	Already 9140 farmers have been registered
				Extension activities in collaboration with Dept. of Animal Health	A workshop on Importance of nutrition and its management in dairy animals on 27.11.2014 was organized at Yadalli Village of Sirsi Taluka in collaboration with NIANP,Bangaluru.
				Studies with respect to death of Vanilla Seedlings is to be conducted and suitable measures are to be given to farmers.	Not initiated
				Popular articles on preparation of scientific bordeaux mixture may be prepared and published.	Leaflet on scientific bordeaux mixture preparation was published and distributed to the farmers.
				Studies with respect to death of Pacholi is to be conducted and suitable measures are to be given to farmers.	Initiated by Department of Plant Pathology, UAS, Dharwad
				Kannada literature on Lac Cultivation is to be prepared.	Folder on LAC Cultivation on <i>Flemingia Semialata</i> is prepared and distributed to the farmers.
				A proposal for establishment of CRS under Financial aid of ATMA is to be sent	A proposal to MIB is sent.

## 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	<p><b>Rainfed area :</b> Paddy- Pulses/Ground nut, Maize- Pulses, Areca nut and Coconut based multi cropping system</p> <p><b>Irrigation:</b> Paddy –Paddy, Sugarcane, Paddy –Maize, Areca nut and Coconut based multi cropping system</p>
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	<p>Hill Zone</p> <p>Rainfall : 2500 mm</p> <p>Soils : sandy loam, laterite, clay loam &amp; medium black</p> <p>Major crops : Paddy, Maize &amp; pulses cotton, arecanut based mixed crops of spices.</p>
2	Zone – 10	<p>Coastal Zone</p> <p>Rainfall : 3500 mm.</p> <p>Soils : Sandy soils, laterite, costal alluvial, sandy loam.</p> <p>Major crops : paddy, groundnut, pulses and arecanut based cropping system.</p>

S. No	Agro ecological situation	Characteristics
1	Coastal ecosystem	High to very high rainfall more than 3500 mm, hot and humidity climate with highly leached sandy soils with low & high pH (Sodium salts).
2	Hill zone ecosystem	Rainfall ranges from 2500 to 3000 mm, with valleys and low hills. Major area covered is forest and dominated by laterite soils.
3	Transitional ecosystem	Rainfall ranges from 800-1500 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 gravely clay soils	Deep and shallow, well drained to excessively drained, yellowish brown dark red to reddish brown, gravely 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, gravely 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	68852	197863	2018
2	Cotton	829	2284 bales	493
3	Groundnut	668	3702	1609
4	Green gram	345	110	173
5	Black gram	5218	161	492
6	Maize	5296	21791	4396
7	Sugarcane	5296	563494	112 tones/ha
8	Arecanut	17671	43259	2440
9	Coconut (Lakh nuts)	7768	1363	0.18
10	Black pepper	624	262	420
12	Ginger	384	9984	26000
13	Cardamom	495	131	270000
14	Cashew	3325	7249	2180
15	Banana	2690	55934	20790
16	Mango	2483	45950	18510
17	Pine apple	441	32775	74320
18	Cocoa	473	510.31	1080

Source : \* Uttara Kannada at a Glance 2013-14 by Statistical Department , Karwar (Agriculture crops)  
 \* Office of DDH, Dept. of Horticulture, Sirsi (Horticulture crops) 2013-14

2.5. Weather data

Month	Rainfall (mm)	Temperature ° C		Relative Humidity (%)	
		Maximum	Minimum	Morning	Evening
Jan 2014	0	30.8	15.5	93.0	91.0
Feb 2014	0	32.1	14.8	91.0	48.0
March 2014	4.8	33.9	17.7	85.0	47.0
April 2014	21.3	40	35.1	21.1	91.0
May 2014	122.1	32.5	22.1	92.0	70.0
June 2014	397.8	29.5	21.5	94.0	74.0
July 2014	1009.3	26.7	20.9	94.0	86.0
August 2014	908.9	26.5	21.0	94.0	85.0
Sept 2014	268.4	27.6	20.5	93.0	82.0
Oct 2014	152.8	30.0	20.2	91.0	72.0
Nov 2014	24.7	29.7	16.0	89.0	52.0
Dec 2014	21.9	29.7	16.2	85.0	55.0

\* 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
<b>Cattle</b>			
<i>Crossbred</i>	46892	2845.87 thousand ltrs	
<i>Indigenous</i>	286229		
<b>Buffalo</b>	86559		
<b>Sheep</b>			
<i>Crossbred</i>		0.796 tones (Meat)	
<i>Indigenous</i>	4244		
<b>Goats</b>	9071		
<b>Pigs</b>			
<i>Crossbred</i>	0		
<i>Indigenous</i>	1274		
<b>Rabbits</b>	0		
<b>Poultry</b>			
Hens	435509	78.03 lakh eggs	
<i>Desi</i>			
<i>Improved</i>			
Ducks			
Turkey and others			

\*Uttara Kannada at a Glance 2013-14 by Statistical Department , Karwar

Category	Area	Production	Productivity
Fish		68929.87 Tones	
<i>Marine</i>			
<i>Inland</i>			
Prawn			
Scampi			
Shrimp			

\*Uttara Kannada at a Glance 2013-14 by Statistical Department , Karwar

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

2.8 Details of Operational area / Villages

Sl.No.	Taluk	Name of the block	Name of the village	How long the village is covered under operational area of the KVK	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Sirsi	Banavasi	Bashi, Gudnapur, Yedurbail, Ajarani, Kantraji, Banavasi, Kenchagadde, Tigani, Kabbe, Madaralli	2011-12 2012-13 2013-14 2014-15	Paddy Banana Maize Ginger Black gram Pineapple China Aster	<ul style="list-style-type: none"> <li>• Poor soil fertility</li> <li>• Blast in Paddy</li> <li>• Leaf folders, stem borer, ear head bug in Paddy</li> <li>• Nutrient deficiency</li> <li>• Water shortage in Summer</li> <li>• Sucking pest in Pulses</li> <li>• Weeds</li> </ul>	ICM INM IPM Mechanization Varietal Introduction
		Kaigudde	Kaigudde Kyadigemane	2013-14 2014-15	Arecanut Black pepper Banana , Dairy farming	<ul style="list-style-type: none"> <li>• Areca nut drop &amp; splitting</li> <li>• Wilt in Black pepper</li> </ul>	ICM & IDM
2	Mundagod	Pala	Hirehalli, Pala , Bhadrapur	2012-13 2013-14 2014-15	Paddy Maize Black gram Sheme bamboo	<ul style="list-style-type: none"> <li>• Labour scarcity for paddy transplanting</li> <li>• Stem borer in Maize</li> <li>• Root rot in Maize</li> <li>• Nutrient deficiency , Pest &amp; disease in maize</li> <li>• Fallow bunds</li> </ul>	Paddy mechanization, ICM in Black gram, Sheme bamboo on bunds
3	Yellapur	Hitlalli	Hitlalli Turadamane, Bidarakone, Janakimane, Kurikoppa	2014-15	Paddy, Black gram	<ul style="list-style-type: none"> <li>• Blast in Paddy</li> <li>• Leaf folders, stem borer, ear head bug in Paddy</li> <li>• Nutrient deficiency</li> <li>• Sucking pest in Pulses</li> </ul>	ICM

4	Ankola	Bole	Bole, Belambar,	2013-14 2014-15	Groundnut	<ul style="list-style-type: none"> <li>• Poor soil fertility</li> <li>• Poor peg penetration</li> <li>• Leaf miner, spodoptera</li> </ul>	ICM
5	Kumta	Holanagadde	Holanagadde	2012-13 2013-14 2014-15	Groundnut	<ul style="list-style-type: none"> <li>• Poor soil fertility</li> <li>• Poor peg penetration</li> <li>• Leaf miner, spodoptera</li> <li>•</li> </ul>	ICM
5	Haliyal	Shivapur	Shivapur KKHalli	2014-15	Bt. Cotton	<ul style="list-style-type: none"> <li>• Sucking Pests</li> <li>• Square &amp; Flower drop</li> </ul>	IPM

## 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
06	05	35	30	14	13	143	115

Training				Extension Programmes			
3				4			
Number of Courses		Number of Participants		Number of Programmes		Number of participants	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
109	74	2827	2008	327	688	107560	342485

Seed Production (Qtl.)		Planting materials (Nos.)	
5		6	
Target	Achievement	Target	Achievement
200	28.89	6700	0

Livestock, poultry strains and fingerlings (No.)		Bio-products (Kg)	
7		8	
Target	Achievement	Target	Achievement
		4 kg	11.34 kg

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	Water scarcity during summer Poor Soil Fertility Blast, Stem borer, Leaf Folder, Earhead bug Depletion of organic matter	KMP 105 short duration paddy variety as a contingent crop plan for late Kharif	Improved production technology for profitable paddy cultivation  Popularization of KMP-105 short duration paddy variety for summer	01	0	01	Field Visit: 33 Diagnostic Visit:04 Exp. Visit : 01 Field Day : 03 Method Demos:09 Campaigns :04	Sunhemp :1 Diancha: 1 Paddy Abhilash:2.5 KMP 105: 3.25				<i>Azospirillum</i> :13 kg PSB: 13 kg
		Maize	Water shortage, depleting organic carbon,	Evaluation of maize+cowpea alternate crops during summer season	ICM in Maize	05	0	0	Field Visit: 42 Diagnostic Visits:09	Maize : 0.15 Cowpea :0.15				
		Groundnut	Poor peg penetration, poor fertility , poor yield, Spodoptera, Leaf Miner , Collar rot.		ICM in groundnut	0	0	0	Field Visit: 17 Diagnostic visits:01	G2-52-6				PSB : 10
		Blackgram	Low yield, poor fertility, sucking pest and powdery mildew		ICM in blackgram	02	0	0	Field Visit:12	DU-1 : 1.2				<i>Rhizobium</i> : 3 PSB-3
		Arecanut	Nut splitting, dropping, rootgrub & koleroga		ICM in Arecanut	02	0	0	Field Visit: 25 Diagnostic visits:33 Method Demos:03					<i>Metarrhizium</i> 150
02	Integrated Pest & Disease Management	Bt.Cotton	Sucking pests and black arm disease, Flower and square drop		IPM in Bt. Cotton	01	0	0	Field Visit: 06	Bhendi : 5kg				

		Black Pepper	Death of vines due to foot rot		Foot rot Management in Black Pepper	02	0	0	Field Visit: 16 Method Demos: 01						Trichoderma : 12.5
		Ginger	Rhizome Rot		Management of rhizome rot in ginger	03	0	0	Field Visit: 09 Diagnostic visits:13 Method Demos: 01						
03	Varietal Introduction	French bean	Lack of commercial cultivation	Introduction of French Bean varieties		0	0	0	Field Visit: 01	Arka Anoop : 2.5 Kg Arka Sharath : 2.5 Kg					
		China Aster	Lack of awareness	Commercial cultivation of china aster in uttara kannada district		0	0	0	Field Visits:01	Seeds: 150g					
04	Mechanization	Paddy	Labour scarcity		Popularization of mechanized paddy transplanter	05	0	0	Field Visit: 15 Method Demos: 02						
05	Agroforestry	Sheme bamboo	Fallow lands and farm boundary bunds		Cultivation of Sheme Bamboo as additional source of income	0	0	0	Field Visit: 06		100 Rhizomes				
		Appemidi Mango, Kokum, Jack, Guinea grass	Betta lands		Effective Utilization of Bettalands through silvi-horti-pastoral systyem for sustainable land use	0	0	0	Field Visit: 02		Jack : 50 Kokum Appe:50 midi: 20 Guinea grass : 2500 slips	-	-	-	-

### 3.B2. Details of technology used during reporting period

S.No	Title of Technology	Source of technology	Crop/enterprise	No. of programmes conducted			
				OFT	FLD	Training	Others (Specify)
01	Production Technology of Field crops	UASD	Paddy, Bt. Cotton, Blackgram, Maize, Groundnut	0	04	14	Field Day: 02 Method demo : 7
02	Crop diversification	UASD	Maize+cowpea	01	0		
03	Varietal introduction	UASD, UASB, IIHR	Paddy, China aster, French bean	03	01	06	Field day : 01
04	Production technology of Horticultural Crops	UASD	Arecanut	0	01	03	Seminar : 01
05	Plant Protection	UASB, UASD	Agricultural and Horticultural crops	02	04	05	Seminar : 01
06	Farm Mechanization	UASD	Paddy	0	01	0	Method demo: 02
07	Agroforestry	UASD	Sheme bamboo	0	02	0	Campaign : 01

### 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	22	23	24	25
1	0	0	0	0	44	0	02	0	244	20	62	20	239	26	42	25
2	05	0	0	0	0	0	0	0	215	19	14	02	0	0	0	0
3	20	0	0	0	11	0	0	0	0	0	0	0	18	0	7	0
4	0	0	0	0	10	0	0	0	71	58	8	0	55	7	5	0
5	10	0	0	0	35	2	0	0	72	26	13	0	90	5	8	0
6	0	0	0	0	06	0	0	0	0	0	0	0	11	3	5	0
7	0	0	0	0	10	0	0	0	0	0	0	0	11	26	2	50

## PART IV – On Farm Trial

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Integrated Nutrient Management										
Varietal Evaluation	01				01		01			03
Integrated Pest Management								01		01
Integrated Crop Management										
Integrated Farming System										
Seed / Plant production										
Cropping System	01									01
<b>Total</b>	<b>01</b>				<b>01</b>		<b>01</b>	<b>01</b>	<b>0</b>	<b>05</b>

### 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					
Varietal Evaluation	French bean	Introduction of new French bean varieties	05	05	0.37
	Paddy	KMP-105 short duration paddy variety as contingent crop for late kharif	10	10	0.6
	China aster	Introduction of China Aster Varieties	05	05	0.075
Integrated Pest Management	Ginger	Management of Shoot Borer in Ginger	05	06	0.3
Cropping Systems	Maize + Cowpea	Evaluation of Maize + Cowpea (1:2) cropping system for Paddy fallows	05	05	0.3
<b>Total</b>			<b>30</b>	<b>30</b>	

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

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

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

#### 4.C1. Results of Technologies Assessed

#### Results of On Farm Trial

#### 1. 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	Delayed planting due to flood caused by heavy rains	KMP-105 short duration paddy variety as contingent crop for late <i>kharif</i>	10	Variety KMP 105 for late Kharif	Yield	71.80 q/ha	Variety performed well than MTU 1010, Rasi for Late Kharif and is tolerant to pests and diseases	Farmers expressed their good opinion on KMP-105 variety, for its <ul style="list-style-type: none"> <li>• Short duration,</li> <li>• Higher Yield,</li> <li>• Tolerance to Blast, Stem borer infestation</li> <li>• Good quality of the Rice .</li> </ul>	-	-

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
TO1: MTU 1010		34.44	q/ha	7570	1.28
TO2: Rasi	UAS Dharwad	48.16	q/ha	24106	1.83
TO3: KMP 105	UAS Bangaluru	71.80	q/ha	53654	2.86

## 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
Ginger	Irrigated	Shoot borer	Management of Shoot Borer in Ginger	05	Spray of Lambda cyhalothrin 5 EC @ 1 ml/l	Shoot borer incidence (%)	7.9	Shoot borer incidence effectively controlled	Farmers felt that after spraying of Lambda Cyhalothrin, itching in legs, headache and vomiting sensation are noticed.	Use of green labeled chemicals for shoot borer management	Farmers feedback

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
TO1: Chlorpyrifos		88.5	q/ha	193638	2.93
TO2: Dimethoate 30 EC @ 1.7 ml/l	UAS Dharwad	94.8	q/ha	216341	3.19
TO3: Lambda Cyhalothrin 5 EC @ 1 ml/l	UAS Bangaluru	97.8	q/ha	225595	3.27

### 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
French bean	Irrigated	Lack of commercial cultivation	Introduction of new French bean Varieties	05	High yielding varieties	Pods / Pl(No) Pod length (cm)	22.04 14.44	Arka anoop is high yielding and good quality pods	Arka Anoop variety is tasty and more fleshy as compared to Arka Sharat	-	-
					Arka Sharat	Pods / Pl(No) Pod length (cm)	19.62 12.28				

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
TO1: Local Varieties		73	q/ha	86000	2.43
TO2: Arka Anoop	IIHR, Bangaluru	85	q/ha	109620	2.81
TO3: Arka Sharat	IIHR, Bangaluru	75	q/ha	76880	2.30

#### 4. Results of On Farm Trial :04

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	Irrigated	Water shortage during summer and depleting soil fertility	Evaluation of Maize + Cowpea (1:2) cropping system for Paddy fallows	05	Maize + Cowpea (1:2) in paddy fallows	LER No. of Irrigations Irrigation Intervals	1.36 10 10-11	Maize + Cowpea cropping system had higher LER with more profit. Minimum water requirement with lesser weed density. Soil fertility increased.	Maize+Cowpea best option for paddy & sole maize during summer.	-	-

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
TO1: Paddy	UAS, Dahrwad	59.2	q/ha	33128	1.87
TO2: Maize	UAS, Dharwad	77.4	q/ha	83332	3.49
TO3 : Maize + Cowpea	UAS, Dharwad	52.1 +9.0	q/ha	87800	3.54

**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
China Aster	Irrigated	Introduction of China Aster Varieties	Introduction of China Aster Varieties	05	Introduction of China Aster varieties			Ongoing		-	-

**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
TO1: Phule Ganesh White					
TO2: Purple					
TO3 : Kamini					
TO4 : Violet Cushion					

**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 : Variety KMP 105 for late Kharif
- 2 Problem Definition : Delayed planting due to flood caused by heavy rains
- 3 Details of technologies selected for assessment: Short duration paddy variety KMP 105 for late sowing in kharif
- 4 Source of technology : UAS Bangaluru
- 5 Production system and thematic area : Rainfed, Varietal evaluation
- 6 Performance of the Technology with performance indicators: KMP 105 (71.80 q/ha) recorded higher yield than Recommended Practice (Rasi) ( 48.16 q/ha) and Farmers Practice(MTU 1010) (34.44 q/ha). Rasi & MTU 1010 suffered from pest & diseases but KMP-105 resisted the pest and diseases.
7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques: Farmers expressed their good opinion on KMP-105 variety, for its Short duration, Higher Yield, Tolerance to Blast, Stem borer infestation, Good quality of the Rice .
- 8 Final recommendation for micro level situation: The variety is suitable for late Kharif sowing in the month of last week of July or First week of Aug.
- 9 Constraints identified and feedback for research : Nil
- 10 Process of farmers participation and their reaction: Method demo, field day, field visit, trainings, phone calls. Good opinion about the yield and quality of rice.

**OFT -2**

- 1 Title of Technology Assessed : Management of Shoot Borer in Ginger
- 2 Problem Definition : Shoot borer damage
- 3 Details of technologies selected for assessment: Spray of Lambda cyhalothrin 5 EC @ 1 ml/l
- 4 Source of technology : UAS Bangaluru
- 5 Production system and thematic area : Irrigated, Pest Management
- 6 Performance of the Technology with performance indicators: Shoot borer incidence very less in assessed technology (7.9%) when compared with TO2 (Dimethoate 30 EC) 11.23% and TO1 (Chlorpyrifos) 22.4 %
7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques: Farmers felt that after spraying of Lambda Cyhalothrin, itching in legs, headache and vomiting sensation are noticed
- 8 Final recommendation for micro level situation: Safety kits may be used while spraying the chemicals
- 9 Constraints identified and feedback for research : Green labeled insecticides may be assessed.
- 10 Process of farmers participation and their reaction: Method demo, field visit, trainings, phone calls.

**OFT -3**

- 1 Title of Technology Assessed : Introduction of new French bean Varieties
- 2 Problem Definition : Lack of commercial cultivation
- 3 Details of technologies selected for assessment: High yielding varieties Arka Anoop, Arka Sharat
- 4 Source of technology : IIHR, Bangaluru
- 5 Production system and thematic area : Irrigated, Varietal Introduction

- 6 Performance of the Technology with performance indicators: TO2 (Arka Anoop) yielded higher (85 q/ha) when compared with TO3 (Arka Sharat 75 q/ha) and TO1 (Local varieties 73q/ha)
7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques: Farmers expressed good opinion about Arka anoop for its taste and good quality pods
- 8 Final recommendation for micro level situation: Nil
- 9 Constraints identified and feedback for research : Germination studies should be taken in water lodged areas,.
- 10 Process of farmers participation and their reaction: Field visit & Group discussion

#### OFT -4

- 1 Title of Technology Assessed : Evaluation of Maize + Cowpea (1:2) cropping system for Paddy fallows
- 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: LER : 1.36, Net profit : Rs. 87800/ha, Irrigation Intervals : 10-11 days
7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques: Maize+Cowpea best option for paddy & sole maize during summer.
- 8 Final recommendation for micro level situation: Maize + Bushy type Cowpea( 1:2 ) for summer / paddy fallows
- 9 Constraints identified and feedback for research : Suitable bush type improved varieties of cowpea may be identified.
- 10 Process of farmers participation and their reaction: Field visit, method demo, trainings & Group discussion

#### OFT - 5

- 1 Title of Technology Assessed : Introduction of China Aster Varieties
- 2 Problem Definition: Lack of commercial cultivation
- 3 Details of technologies selected for assessment: Phule Ganesh White, Purple, Kamini, Violet Cushion
- 4 Source of technology : MPKV Rahuri, IIHR Bangaluru, UAS Dharwad
- 5 Production system and thematic area: Irrigated and Varietal introduction
- 6 Performance of the Technology with performance indicators: Ongoing
7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring Techniques:
- 8 Final recommendation for micro level situation:
- 9 Constraints identified and feedback for research:
- 10 Process of farmers participation and their reaction:

#### 4.D1. Results of Technologies Refined : -NIL-

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





	Plantation	Irrigated	Kharif	Arecanut			Plantation Crops	Integrated Crop Management	4.00	4.00	0	10	10	
	Implements	Rainfed	Kharif	Paddy	Sindu, Gantasala, Halaga & Rajamudi		Farm Implements	Mechanized Paddy Transplanting	4	4	0	6	6	
	Agro forestry	Rainfed	Kharif	Shemebamboo	-		Agro forestry	Planting of Sheme bamboo rhizomes on farm boundary bunds at 10 x 10 feet distance	100 Rhizomes	100 Rhizomes	0	5	5	
		Rainfed	Kharif	Jack, Appemidi, Kokum, Guinea grass	-		Agro forestry	Planting of Jack, Kokum, Appemidi seedlings of Guinea grass	120 Seedlings and 2500 grass slips	120 & 250	0	5	5	

5.A. 1. Soil fertility status of FLDs plots during 2014-15

Sl. No.	Category	Farming Situation	Season and Year	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Status of soil(kg/ac)			Previous crop grown
									N	P	K	
	Oilseeds	Residual Soil Moisture	Rabi/Summer 2015	Groundnut	G2-52	-	Crop Production	Integrated Crop Management	114	6.8	43	Paddy
	Pulses	Residual Soil Moisture	Rabi/Summer 2015	Blackgram	DU – 1	-	Crop Production	Integrated Crop Management	140	3.3	56	Paddy
	Cereals	Rainfed	Kharif 2014	Paddy	Abhilash	-	Crop Production	Integrated Crop Management	180	9	45	Blackgram
		Rainfed	Kharif 2014	Maize	NK 6240	-	Crop Production	Integrated Crop Management	143	6.8	41	Fallow
		Limited Irrigation	Rabi/Summer 2014	Paddy	KMP-105	-	Crop Production	Short duration paddy variety for late Kharif	225	5.3	71	Paddy
	Spices and condiments	Irrigated	Kharif	BlackPepper	Paniyur-1	-	Plant Protection	Integrated Disease Management	-	-	-	Black pepper
		Irrigated	Kharif	Ginger	Himachal	-	Plant Protection	Integrated Disease Management of ginger rhizome rot	111	4.3	37	Paddy
	Commercial	Rainfed	Kharif 2013	<i>Bt.</i> Cotton	-	BG-II	IPM	IPM in <i>Bt.</i> Cotton	110	3.5	46	<i>Bt.</i> Cotton
	Fruits	Irrigated	Kharif 2014	Pineapple	Queen	-	IDM	Heart rot management	110	7.3	39	Pineapple
	Plantation	Irrigated	Kharif	Arecanut	Local	-	Plantation Crops	Integrated Crop Management	185	3.1	38	Arecanut

	Implements	Rainfed	Kharif	Paddy	Sindu, Gantasala, Halaga & Rajamudi	-	Farm Implements	Mechanized Paddy Transplanting	160	3.0	44	Black gram
	Agroforestry	Rainfed	Kharif	Shemebamboo	-	-	Agro forestry	Planting of Sheme bamboo rhizomes on farm boundary bunds at 10 x 10 feet distance				
		Rainfed	Kharif	Jack, Appe midi, Kokum, Guinea grass	-	-	Agro forestry	Planting of Jack, Kokum, Appe midi seedlings Planting of Guinea grass				

## 5.B. Results of Frontline Demonstrations

### 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	G2-52	-	Residual moisture	07	4	21.4	18.4	19.51	16.89	15.5	37757	93668	55911	2.48	34900	79403	44503	2.28
Pulses																			
Blackgram	ICM in Black gram	DU-1		Residual Moisture	13	6.0	Ongoing												
Cereals	ICM in Paddy	Abhilash		Rainfed	6	4	96	72	82.66	64.8	27.6	37900	110900	73000	2.92	36800	90350	53550	2.45
	ICM in Maize	CP818, NK-6240		Rainfed	10	4	78.4	73.4	76.39	61.93	23.3	37300	86758	49458	2.33	38600	106946	68346	2.77
	KMP-105 short duration paddy variety for escaping moisture stress during summer	KMP-105	-	Irrigation	11	5.2			61.8	55.6	11.1	29764	79966	50202	2.7	28136	72040	43903	2.6
Millets																			
Vegetables																			
Flowers																			
Ornamental																			
Fruit	Heart rot management in Pineapple	Queen	-	Irrigation	3	4	Ongoing												

Spices and condiments																				
Blackpepper	Foot rot Management in Black Pepper	Panniyur-1	-	Rainfed	10	250 (vines)	8.5	7.5	7.98	6.5	22.7	61081	438952	377870	7.21	48928	326904	277975	6.68	
Ginger	Management of ginger rhizome rot	Himachal	-	Irrigated	10	1	118	84	105.76	84.49	25.1	48928	326904	277975	6.68	95450	254400	158950	2.66	
Commercial																				
Fibre crops like cotton																				
<i>Bt. Cotton</i>	IPM in <i>Bt. Cotton</i>	-	BG-II	Rainfed	10	4	26.35	23.13	26.12	11.1	23.50	24775	99275	74500	4.00	24675	89300	64625	3.61	
Medicinal and aromatic																				
Fodder																				
Plantation																				
Arecanut	ICM in Arecanut	local		Rainfed	10	4.0	34.37	24.75	29.9	21.7	37.9	73600	626811	553211	8.5	62010	414643	352633	6.7	
Fibre																				
Others (pl. specify)																				
Sheme bamboo	Cultivation of Sheme Bamboo as additional source of income	Sheme bamboo		Rainfed	05	100 Rhizomes														Ongoing
Jack, Kokum, Appe midi, Guinea grass	Effective Utilization of Bettalands through silvi-hortipastoral system for sustainable land use	Local, Guinea grass	-	Rainfed	05	120 Seedlings, 2500 Grass slips														Ongoing

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	Check	Demo
Pod Weight (g/plant)	14.4	11.7
100 pods weight (g/100 pods)	80.8	77.1
Dry bio-mass (g/plant)	26.2	16.3
No. of Rhizobium nodules (Number)	152.6	117.9

**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 : Improved production technology for profitable paddy cultivation**

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
No. of Tillers/Hill (Number)	16.83	10.33
No. of grains/Panicle (Number)	192.83	170.5
Blast Incidence (%)	3.83	17.5
Earhead bug incidence (%)	3.5	30.0

**FLD : ICM in Maize with special emphasis on weed and nutrient management**

Data on other parameters in relation to technology demonstrated				
Parameter with unit	Demo		Check	
	20 DAS	45 DAS	20 DAS	20 DAS
Weed Count (Number/m <sup>2</sup> )	35.2	132.5	17.3	17.3
	66.0	154.8	8.3	8.3
Weed dry weight (g/m <sup>2</sup> )	-	-	87.4	87.4
WCE (%)	166.4		173.9	

**FLD: KMP-105 short duration paddy variety for escaping moisture stress during summer**

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
Plant height (cm)	86.5	78.4
Tillers (Number/hill)	15.9	12.9
Grains (Number/panicle)	158	99

**FLD : Foot rot management in black pepper**

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
Foot rot incidence (%)	3.71	22.40

**FLD : Management of rhizome rot complex disease of ginger**

<b>Data on other parameters in relation to technology demonstrated</b>		
<b>Parameter with unit</b>	<b>Demo</b>	<b>Check</b>
Disease incidence (%)	3.35	18.93

**FLD : Promising technology to tackle nut drop and root grub in arecanut**

<b>Data on other parameters in relation to technology demonstrated</b>		
<b>Parameter with unit</b>	<b>Demo</b>	<b>Check</b>
No. of nut drop (Number/Palm)	8.20	24.3
Number of nut splitting (Number/Palm)	6.0	19.0
Root grub Mortality (%)	56.7	50.5

**FLD : IPM in *Bt.* Cotton**

<b>Data on other parameters in relation to technology demonstrated</b>		
<b>Parameter with unit</b>	<b>Demo</b>	<b>Check</b>
Shoot weevil damage (%)	1.57	4.77
No. of coccinellids/plant (Number)	2.7	3.28

**5.B.2. Livestock and related enterprises –NIL-**

**5.B.3. Fisheries –NIL-**

**5.B.4. Other enterprises –NIL-**



### 5.B.5. Farm implements and machinery

Name of the implement	Cost of the implement in Rs.	Name of the technology demonstrated	No. of Demo	Area covered under demo in ha	Labour requirement in Mandays / ha		% 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/ac)	Mechanized paddy transplanting	6	4	43.7	9	79.4	17.9	23632	60500	36868	2.56	26730	47300	20570	1.77

\* 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

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Local
Yield(q/ha)	55	43
% increase in Yield	27.9	-
Tiller (number/ m <sup>2</sup> )	16.2	9.7
Cost of Transplanting (Rs.)	8410	10250
% Save in Transplanting Expenditure	17.9	-

### 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
<b>Crop Production</b>										
Production Technology	7	218	55	273	12	4	16	230	59	289
<b>Horticulture</b>										
a) Vegetable Crops										
b) Fruits										
c) Ornamental Plants										
d) Plantation crops										
Production and Management technology	1	24	4	28	0	0	0	24	4	28
Processing and value addition	1	14	0	14	0	0	0	14	0	14
Skill development	1	13	7	20	0	0	0	13	7	20
Plant propagation techniques	2	31	3	34	5	1	6	36	4	40
e) Tuber crops										
f) Spices										
g) Medicinal and Aromatic Plants										
<b>Soil Health and Fertility Management</b>										
Soil and water testing	3	46	38	84	15	10	25	61	48	109
<b>Livestock Production and Management</b>										
<b>Home Science/Women empowerment</b>										
Value addition	1	0	23	23	0	0	0	0	23	23
<b>Agril. Engineering</b>										
<b>Plant Protection</b>										
Integrated Pest Management	2	28	23	51	0	0	0	28	23	51

Integrated Disease Management	1	4	3	7	0	0	0	4	3	7
<b>Fisheries</b>										
<b>Production of Inputs at site</b>										
Vermi-compost production	1	0	8	8	0	2	2	0	10	10
LAC Cultivation	1	32	0	32	0	0	0	32	0	32
<b>Capacity Building and Group Dynamics</b>										
Entrepreneurial development of farmers/youths	2	22	31	53	0	0	0	22	31	53
<b>Agro-forestry</b>										
Others (Pl. specify)	1	11	0	11	0	0		11	0	11
<b>TOTAL</b>	<b>24</b>	<b>443</b>	<b>195</b>	<b>638</b>	<b>32</b>	<b>17</b>	<b>49</b>	<b>457</b>	<b>209</b>	<b>666</b>

### 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
<b>Crop Production</b>										
Weed Management	2	20	2	22	0	0	0	20	2	22
Integrated Farming	1	0	0	0	6	10	16	6	10	16
Integrated Crop Management	3	11	3	14	20	25	45	31	28	59
Soil and Water Conservation										
Integrated Nutrient Management	6	126	12	138	15	5	20	141	17	158
Production of organic inputs	3	0	0	0	43	33	76	43	33	76
Production Technology	2	10	0	10	6	11	17	16	11	27
<b>Horticulture</b>										
<b>a) Vegetable Crops</b>										
<b>b) Fruits</b>										
<b>c) Ornamental Plants</b>										
<b>d) Plantation crops</b>										
Production and Management technology	1	12	0	12	0	0	0	12	0	12
<b>e) Tuber crops</b>										
<b>f) Spices</b>										
Production and Management technology	1	15	6	21	0	0	0	15	6	21
Processing and value addition	1	10	1	11	0	0	0	10	1	11
<b>g) Medicinal and Aromatic Plants</b>										
<b>Soil Health and Fertility Management</b>										
Soil and water testing	1	0	0	0	6	11	17	6	11	17
Others (pl.specify)										

<b>Livestock Production and Management</b>										
Feed and Fodder technology	1			0	5	11	16	5	11	16
<b>Home Science/Women empowerment</b>										
Value addition	1	0	0	0	19	0	19	19	0	19
<b>Plant Protection</b>										
Integrated Pest Management	6	108	2	110	21	3	24	129	5	134
Integrated Disease Management	3	28	6	34	16	0	16	44	6	50
<b>Fisheries</b>										
<b>Production of Inputs at site</b>										
<b>Capacity Building and Group Dynamics</b>										
Entrepreneurial development of farmers/youths	1	0	0	0	35	9	44	35	9	44
<b>Agro-forestry</b>										
<b>TOTAL</b>	<b>33</b>	<b>340</b>	<b>32</b>	<b>372</b>	<b>192</b>	<b>118</b>	<b>310</b>	<b>532</b>	<b>150</b>	<b>682</b>

#### 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
Entrepreneurial development of farmers/youths	2	65	6	71	8	1	09	73	7	80
Soil and Water Testing	5	106	48	154	6	2	08	112	50	162
<b>TOTAL</b>	<b>07</b>	<b>171</b>	<b>54</b>	<b>225</b>	<b>14</b>	<b>3</b>	<b>17</b>	<b>185</b>	<b>57</b>	<b>242</b>

#### 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	3	145	10	155	13	0	13	158	10	168
Integrated Nutrient management	1	52	3	55	0	0	0	52	3	55
Capacity building for ICT application	1	20	0	20	0	0	0	20	0	20
LAC Culture	1	40		40	0	0	0	40	0	40
Soil & Water Testing	1	6	4	10	0	0	0	6	4	10
<b>Total</b>	<b>7</b>	<b>263</b>	<b>17</b>	<b>280</b>	<b>13</b>	<b>0</b>	<b>13</b>	<b>276</b>	<b>17</b>	<b>293</b>

**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
<b>1</b>	<b>Crop production and management</b>										
1.a.	Increasing production and productivity of crops	4	98	23	121	14	4	18	112	27	139
1.b.	Commercial production of vegetables										
<b>2</b>	<b>Production and value addition</b>										
2.a.	Fruit Plants										
2.b.	Ornamental plants										
2.c.	Spices crops										
<b>3.</b>	<b>Soil health and fertility management</b>										
<b>4</b>	<b>Production of Inputs at site</b>										
<b>5</b>	<b>Methods of protective cultivation</b>										
<b>6</b>	<b>Others (pl.specify)</b>										
<b>7</b>	<b>Post harvest technology and value addition</b>										
7.a.	Processing and value addition										
7.b.	Others (pl.specify)										
<b>8</b>	<b>Farm machinery</b>										
8.a.	Farm machinery, tools and implements										
8.b.	Others (pl.specify)										
<b>9.</b>	<b>Livestock and fisheries</b>										
<b>10</b>	<b>Livestock production and management</b>										
10.a.	Animal Nutrition Management										
10.b.	Animal Disease Management										
10.c.	Fisheries Nutrition										
10.d.	Fisheries Management										
10.e.	Others (pl.specify)										
<b>11.</b>	<b>Home Science</b>										
11.a.	Household nutritional security										
11.b.	Economic empowerment of women										
11.c.	Drudgery reduction of women										
11.d.	Others (pl.specify)										
<b>12</b>	<b>Agricultural Extension</b>										
12.a.	Capacity Building and Group Dynamics										
12.b.	Entrepreneurial development of farmers/youths	3	82	9	91	8	1	9	90	10	100
	<b>Total</b>	<b>7</b>	<b>180</b>	<b>32</b>	<b>212</b>	<b>22</b>	<b>5</b>	<b>27</b>	<b>202</b>	<b>37</b>	<b>239</b>

**Details of sponsoring agencies involved**

- 1.KSDA Karwar**
- 2. ZP, Karwar**
- 3.KSDA, Haveri**
- 4. Coconut Development Board, Bangaluru**
- 5. DCCD, Kochi**

**7.H. Details of Vocational Training Programmes carried out by KVKs for rural youth : NIL**

## 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	5	183	15	198	49	1	50	40	0	40
Kisan Mela	01	225	40	265	45	25	70	40	0	40
Kisan Ghosthi										
Exhibition	08	312043	18820	330863	3600	1315	4915	565	194	759
Film Show										
Method Demonstrations	21	217	32	249	29	16	45	60	15	75
Farmers Seminar	04	280	40	320	43	4	47	16	6	22
Workshop	02	100	30	130	15	10	25	4	0	04
Group meetings										
Lectures delivered as resource persons	36	1676	526	2202	295	109	404	230	57	287
Newspaper coverage										
Radio talks	04									
TV talks	01									
Popular articles	01									
Extension Literature										
Advisory Services										
Scientific visit to farmers field	162	658	11	669	16	6	22	79	10	89
Farmers visit to KVK	395	298	20	318	0	0	0	16	0	16
Diagnostic visits	63	248	7	255	4	0	4	13	2	15
Exposure visits	02	8	10	18	02	0	02	0	0	0
Ex-trainees Sammelan										
Soil health Camp										
Animal Health Camp										
Agri mobile clinic										
Soil test campaigns										
Farm Science Club Conveners meet										
Self Help Group Conveners meetings										
Mahila Mandals Conveners meetings										
Celebration of important days : World Environment Day, Vanamahotsava, Farmers Day	03	184	57	241	13	9	22	25	15	40
Any Other Campaigns	02	179	47	226	14	59	73	60	14	74
Interface Meeting										
Awareness Programme	02	96	27	123	15	10	25	14	0	14
<b>Total</b>	<b>712</b>	<b>316395</b>	<b>19682</b>	<b>336077</b>	<b>4140</b>	<b>1564</b>	<b>5704</b>	<b>1162</b>	<b>313</b>	<b>1475</b>

**PART IX – PRODUCTION OF SEED, PLANT AND LIVESTOCK MATERIALS**

**9.A. Production of seeds by the KVKs**

<b>Crop category</b>	<b>Name of the crop</b>	<b>Variety</b>	<b>Hybrid</b>	<b>Quantity of seed (qtl)</b>	<b>Value (Rs)</b>	<b>Number of farmers to whom provided</b>
Cereals (crop wise)	Paddy	KMP-105	-	28.39	-	
Oilseeds						
Pulses						
Commercial crops						
Vegetables						
Flower crops						
Spices						
Fodder crop seeds						
Fiber crops						
Forest Species						
Others (specify)						
<b>Total</b>						

**9.B. Production of planting materials by the KVKs : NIL**

**9.C. Production of Bio-Products**

<b>Bio Products</b>	<b>Name of the bio-product</b>	<b>Quantity</b>	<b>Value (Rs.)</b>	<b>No. of Farmers</b>
		<b>Kg</b>		
Bio Fertilizers				
Bio-pesticide				
Bio-fungicide				
Bio Agents				
Root Hormone	IBA	11.34	13230.00	56
<b>Total</b>		<b>11.34</b>	<b>13230.00</b>	

**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.) :  
01 April 2014 to March 2015 100 Copies

(B) Literature developed/published

Item	Title	Authors name	Number
Research papers			
	Studies on genetic divergence in gladiolus genotypes( <i>Gladiolus hybridus</i> Hort.)	Agasimani, A.D. and Patil, V.S., 2015,	<i>International journal of Farm Sciences</i> , <b>5(1)</b> :13-15
	Enhancement of seed germination in stored seeds using different pre-sowing treatments in <i>Bauhinia purpurea</i> L	Hanumantha, M., Gunaga, R. P., Biradar, S. S., Patil,R. S., and Shankar, P.	<i>Journal of Applied and Natural Science</i> , <b>6(2)</b> : 70-710.
	Growth and fruiting status in improved and unimproved stands of <i>Tectona grandis</i> L. f.,	Hanumantha, M., R. P. Gunaga, Biradar, S. S., Patil, R. S., and Shankar, P.	<i>Research in Environment and Life Sciences</i> , <b>8(1)</b> : 95-96.
	Mine spoil reclamation through establishment of plantations	Hanumantha, M., Patil, R. S., Inamati, S. S., and Manjunatha, G. O.	National level conference on “Eco-restoration of derelict mined lands” held at J. T. College, Gadag during September 5 <sup>th</sup> - 6 <sup>th</sup> , 2014. <b>Pp.</b> 128-135.
	Forests: Treasure house of minerals	Hanumantha, M., Inamati, S. S., and Manjunatha G. O. and Patil, R. S.	National level conference on “Eco-restoration of derelict mined lands” held at J. T. College, Gadag during September 5 <sup>th</sup> - 6 <sup>th</sup> , 2014. <b>Pp.</b> 139-144.
	Forest Protection (Chapter 15)	Hanumantha. M., Patil, R. S., and Gunaga, R. P	Book chapter published in the book “A Question Bank of Forestry
Technical reports			
News letters			
Technical bulletins			
Popular articles	Keeta mukta dhanya sangrahane.	Naik, M.I., and Kannur, S.	<i>Krishi Munnade</i> , <b>27(9)</b> :12-13
	Saddillade gaddala yebbisida nirupadravi sasya tigane.	Patil, R. S., and Javaregowda, 2014	<i>Krishi Munnade</i> , <b>27 (12)</b> : 12-13
	Balege kuttu tanda yele surali keeta	Patil, R. S., and	<i>Krishi Munnade</i> , <b>28</b>



		Shivashenkaramurthy, M.,	(2) : 13
Extension literature			
Folders	Halasina moulyavardane	Agasimani, A. D., Neeralgi, A. F., Patil, R. S., Shivshenkarmurthy, M, Goroji, P. T. and Kannur, S.,	500
	Adike beleyali sudharith besaya kramagalu	Shivshenkarmurthy, M, Patil, R. S., Goroji, P. T. and Kannur, S.,	1000
	Adike beleya pramukha keet mattu rogakala nirvahane.	Patil, R. S., Shivshenkarmurthy, M, Goroji, P. T. and Kannur, S.,	1000
	Hebbavina krishi –Badaraitara ashakirana.	Kannur, S., Shivshenkarmurthy, M, Patil, R. S., Agasimani, A. D., Goroji, P. T. and Hegde, K.,	500
	Geru beleyalli sasya samrakshane	Patil, R. S., Kannur, S., , Agasimani, A. D., Shivshenkarmurthy, M, Goroji, P. T. and Hegde, K.,	200
Booklets	Sasya tali rakshane mattu raithara hakkugalu.	Patil, R. S., Shivshenkarmurthy, M, Agasimani, A. D., Goroji, P. T. and Kannur, S.	1000
Training Manuals			
<b>TOTAL</b>			

**10.B. Details of Electronic Media Produced**

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

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

**Title : Grafting of Black pepper on Wild Hipli - A ray of hope to combat wilt disease**

Shri. Narayana Dattatreya Hegde is a resident of Antravalli village of Kumta taluk in Uttar Kannada district of Karnataka. Due to poverty, he left his education after 12<sup>th</sup> Standard and involved in ancestral agriculture activity. He owns around 3 acres of land and planted blackpepper seedlings as a mixed crop trained on arecanut standards. But, the plants started dying at the time of yielding due to the deadly disease of black pepper – Phytophthora wilt. This disease affects all the parts viz., leaf, stem, collar and roots. All efforts were in vain to survive the plants for about 16-18 years.

During Krishi Mela at Puttur in Dakshina Kannada district, he got information about grafted black pepper (*Piper nigrum*) seedlings with *Piper collubrimum* as root stock. Initially he brought around 1300 grafted seedlings of Panniyur variety of pepper during January 2010. He planted the seedling in areca based cropping system and started managing the crop with only organic manures, vermin compost, bio-digester slurry and bordo spray. He surprised when the vines started bearing berries with 2 years of planting, in the year 2012 he harvested about 1.25 kg pepper, 475 kg in 2013 and 1200 kg in 2014. Now the plants are of 25- 30 feet height without phytophthora wilt disease problem, where as the neighbouring non grafted vines are affected by the disease. Looking into the success of grafted cuttings and demand from the fellow farmers, Mr. N. D. Hegde started producing grafted seedlings of pepper in 2012. In the year 2012 he sold around 12000 seedlings. The demand for the seedlings is increasing day by day, at present he is selling around 350000 seedling per year. To meet out this huge need, he has trained 15-20 local farmers in grafting technology and provided them year round employment in his farm.

**Techniques adopted:**

- **Training the black pepper on *Acacia mangium* & Aluminium pipe:**  
He is training the black pepper on *Acacia mangium* planted in his betta lands apart from training on Arecanut and provided irrigation through drip system.  
To mitigate the labour scarcity while harvesting, he used 15 feet Aluminium pipes as standard with drip irrigation.
- **Wedge graft with long slit**  
He has observed the breaking of scion and root stock union part as the scion grows thicker, to overcome this problem he has adopted wedge graft with long slit.  
Grafting is done at a height of 1.5 feet to prevent the pepper strings touching the soil directly thus avoiding the source of inoculation.
- **Addition of more scion to the existing rootstock for better yields:**  
After the complete development of scion i. e. cultivated (*Piper nigrum*), every year one graft is added to the existing root stock and is continued up to 3-5 grafts per root stock for better harvest in future.
- **Nutrient management through organic means – Vermicompost, Bio-digester slurry, sheep droppings etc.**

**Spread of the Innovation:**

Within a span of 2 years he has sold around 5-6 Lakhs grafted seedlings to the Govt. Agencies like Horticulture Dept. Karnataka State, Individual Farmers, NGO, Farmers Groups etc. His technology has spread to neighbouring districts like Chikkamagalur, Udupi, Uttara Kananda, Davanageri of Karnataka and Adjoining Goa State.

Considering his vast experience in production of grafted pepper seedlings and also in organic production technologies of black pepper, many government agencies, NGO's, farmer groups invite him as resource person to deliver lecture during meetings/seminars/trainings etc.

**Impact of the innovation :**

- To revive the black pepper cultivation in Uttara Kannada distict, the Department of Horticulture has selected Shri N. D. Hegde, Antravalli Village of Kumta Taluk, Uttar Kannada distict to supply 1 lakh grafted blackpepper seedlings under cluster village programme during 2014.
- Apart from this, every year he is selling around 350000 seedlings to the farmers of neighboring districts @ 30 Rs / seedling.
- Economic status of Shri. N. D. Hegde has increased
- He has created employment opportunities to local farmers.

**Awards/ recognitions received:**

Considering the achievements in production of healthy grafted blackpepper seedlings, he has been bestowed with many awards and recognitions.

- Innovative farmer award by University of Agricultural Sciences, Dharwad during Krishi Mela, 2013
- Felicitation by Mandalik Charitable and Welfare trust Karwar on the eve of Farmers day on 23.12.2012
- Felicitation by Jana Janani Go Raksha Janajagrati Abhiyan on 15-19<sup>th</sup> Dec, 2013
- Felicitation by Kannada Rajyotsava Samithi, Kumta during Nudi Habba 2014.
- Honored by Department of Horticulture, Uttar Kannada for his excellent work in blackpepper seedling production
- Honoured by many NGO's – Navachetana Kalumenasu belegarara Sangha, Swarnavalli Krishi Prithisthan etc.

**Success stories/papers published in local dailies/magazines :**

- Cover Story by Shri Padre in Adike Patrike (monthly Kannada magazine) on May 2014
- Success story in Spice India magazine (Kannada) on August 2013
- Success story in Taranga (Monthly Kannada Magzine) on August 2013
- Articles in local dailies- Lokdhvani on 11.07.2013, Prajavani on 14.07.2013, Prajavani on 16.07.2013
- A documentary video was released by Dr. Nirmal Babu, Project Coordinator(Spices), IISR, Calicut during 25<sup>th</sup> Group Meeting of all India Coordinated Research Project on Spices at UVKVV,Pundibari, WestBengal held during 25-27<sup>th</sup> Sept 2014.

Mr. Hegde is one of the successful black pepper grower in Uttar Kannada district. Many farmers, extension personnel from agriculture and horticulture department regularly visit his farm to get the knowledge. Many delegates like Vice Chancellor of UHS, Bagalkot, Karnataka, Scientists from IISR, Calicut and Scientists from Maharashtra Agricultural Universities have visited his farm and appreciated the efforts.

**Contact Address :**

Shri . Narayana Dattatreya Hegde  
At : Nadigadde, Post : Antaravalli  
Taluk : Kumta  
Dist : Uttar Kannada  
State : Karnataka  
Cell No : 08277394054  
Residence : 08386--264248

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

- **Farmers participatory seed production of KMP-105 for horizontal spread of the variety:**  
25 farmers have taken the seed production of KMP-105 during late Kharif in an area of 30 acres and produced 210 q. of TL seeds. KVK has procured 20q seeds from the farmers and remaining quantity of seeds are directly sold farmers to farmers.
- **Organizing speech by innovative farmers during District Level Kisan Mela:**  
District level Kisan\_Mela was organized on 31-03-2015 at Sirsi. In this event 5 progressive cum innovative farmers from different fields like grafting techniques, LAC cultivation, IFS, Crop production, Poultry and Value addition of minor fruits are invited and scope was given to them to share their ideas, experience to motivate other farmers participated in the Kisan Mela.

**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	Paddy	Passing branches of Baina mara(Caryota urenis)/Mukkadaka/ Parige mullu(Zizyphus oenoplea) over paddy crop	Passing the branches of these trees over paddy plants before flowering, so that larva inside the leaf fold dislodges and later dies.
02	Arecanut	1 kg Kasarka (Strychnus nuxvomica,) bark, 2 kg jaggary and 1 lit Coconut oil is mixed in 100 lit of water and 1 liter solution is drenched per palm.	For the management of Root grubs in areca nut

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

- Identification of courses for farmers/farm women : Group discussion, Discussion with line departments, Farmers request through visit to KVK/ Phone calls.
- Rural Youth :Group discussion, Discussion with line departments, Farmers request through visit to KVK/ Phone calls
- In-service personnel : Discussion in Bimonthly meetings.

**10.G. Field activities**

- i. Number of villages adopted : 04 (Hirehalli, Gudnapur, Yedurbaail, Kaigudde)
- ii. No. of farm families selected : 20
- iii.No. of survey/PRA conducted : 30

## 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)-5 l/ 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	Horizontal 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
<b>Total</b>		<b>17</b>	<b>4,37,800</b>

### 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	1471	926	269	263233
Water Samples	279	249	192	2850
Plant samples				
Manure samples				
Others (specify)				
<b>Total</b>	<b>1773</b>	<b>1198</b>	<b>484</b>	<b>266083</b>

### Details of samples analyzed during the 2014-15 :

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)
Soil Samples	1546	1546	1100	113550
Water Samples	958	958	700	62700
Plant samples				
Manure samples				
Others (specify)				
<b>Total</b>	<b>2504</b>	<b>2504</b>	<b>1800</b>	<b>176250</b>

**10.I. Technology Week celebration during 2014-15 : NO  
If Yes**

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

Other Details

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

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

## 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)
Use of green manure crops(diancha, sunhemp) in paddy	300	5	Net profit: 10000/ha	Net profit: 50000/ha
Seed treatment (Fungicides) in paddy	300	80		
Bio-fertilizer application in paddy	450	35		
Lime application in paddy & arecanut	500	85		
Micronutrient application	450	38		
Pest & disease management agricultural and horticultural crops	600	65	Net profit: 10000/ha	Net profit: 40000/ha
Rhizome rot management in ginger	100	95	Net profit: 300000/ha	Net profit: 1000000/ha
Rootgrub management through <i>Metarrhizium</i>	50	80	Net profit: 280000/ha	Net profit: 350000/ha
Quick wilt management in blackpepper	50	75	Net profit: 100000/ha	Net profit: 300000/ha
Pre-emergent weedicide application in Maize	150	15	Net profit: 25000/ha	Net profit: 70000/ha
KMP-10 short duration paddy variety for summer & late kharif	100	60	Net profit: 10000/ha	Net profit: 40000/ha
LAC cultivation	600	5	-	-

### 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. 42 farmers have adopted this technology in an area of 30 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, Bengaluru for two years, 2011-12 and 2012-13 and FLD during 2014-15. During the period of investigation, 30 farmers of cluster have taken the KMP-105 variety in an area of 25 ac. Considering the demand for the seeds, 25 farmers are motivated to take up seed production under farmers participator programme, as a result 210 q of TL seeds have been produced during late Kharif 2015.

#### Management of rhizome rot in Ginger

Rhizome rot is the major disease threatening the ginger production in Banavasi hobli. Since 2011-12, KVK is taking up many extention activities like FLD, Seminar, Field day, Consultancies, field visits , diagnostic field visits etc. Now, the farmers of the operational area are aware of the integrated practices to manage the rhizome rot disease and the yield is recorded up to 250 q/acre with net profit of 15 lakhs.

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

<b>S. NO</b>	<b>Problems</b>	<b>Extension methods to solve problems</b>	<b>Method of Impact study and analysis</b>	<b>Impact</b>	<b>Impact Indicator</b>
1	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
2	Low fertility, pest & diseases and low yield in paddy	FLD, OFT, Diagnostic Field Visit along with dept officials, Individual Contact Method demos, trainings Phone calls, Farmers visit to KVK	Field visit and Observation Phone calls	25% of the farmer adopted the ICM practices,	FLD Farmer received District Level Ist prize and Ist, 2 <sup>nd</sup> and 3 <sup>rd</sup> Taluka Level Awards in paddy crop competition.
3	Water shortage during summer, leading to water scarcity at panicle stage	OFT, FLD, Diagnostic Field Visit, Field visits, Individual Contact Method demos, trainings Phone calls, Farmers visit to KVK	Field visit and Observation Phone calls	95% of the farmers have adopted KMP-105 in summer in Yedurbail village(operationa l village). In late Kharif 10 farmer(20 acres) have adopted KMP 105. The variety has spread to neighboring taluks in around 21 acres.	Farmers have taken seed production of KMP 105. KSDA of Sirsi, Yellapur, Siddapur & Mundagod have procured 15 q of KMP 105 seeds from KVK for distribution to the farmers.
4					



## 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.
Kadamba Marketing & Co-operative Society, Sirsi	Trainings, Melas, SHGs, Marketing
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	Trainings and Field Visit and Field days
MANU VIKAS NGO	Field days and Field visits
Canarabank Deshpande Rudeset, Haliyal	Trainings, field visits, meetings
Jnana Joythi Financial Literacy Centre, Sirsi	Trainings
Coconut Development Board, Bangaluru	Trainings
NIANP, Bangaluru	Workshop
CPCRI Kasaragod	Seminar
DCCD, Kochi	Training
Micro Small Medium Enterprises Development Institute, Hubli	Trainings
The Agricultural Service and Development Cooperative Society Ltd.	Trainings, Services (supply of inputs)
GGSSS, Ltd Nanikatta, Siddapur tq.	Trainings, FLDs, Method demos

### 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)
Testing trial on Bioefficacy of Neemaxal T/S 1% against insect of Paddy	Research	01-07-2014	EID Parry India Ltd. Chennai	78788-00
Testing trial on Evaluation of bioefficacy phytotoxicity and effect of natural enemies for Lesenta 80 WG against White grub in Arecanut	Research	01-07-2014	Bayers India Ltd. Hubli	98473-00
Testing trial on Evaluation of diuron in Banana	Research	04-08-2014	Auxilife Scientific Service Pvt Ltd., Pune	98472-00

Testing trial on Evaluation of Croton DI –Urea in Turmeric	Research	23-09-2014	Godavari Bio Refineries Ltd., Ahmednagar	118166-00
Studies on insect pests of Bamboo with special reference to pentatomid bug, <i>Udonga montana</i> Distant	Research	04-09-2014	UAS ,Dharwad	282000-00
Evaluation of Dolomite requirement based on Soil pH in Areca nut growing areas of Uttara Kannada	Research	04-09-2014	UAS ,Dharwad	300000-00
Studies of performance of different varieties of Black pepper grafted on Piper colubrinum	Research	17-06-2014	UAS ,Dharwad	200000-00
Effect of Auxins and Coumarine on sprouting and rooting of branch cutting of <i>Melia dubia</i> Cav	Research	30-06-2014	UAS ,Dharwad	50000-00
Biofence system in Uttara Kannada Dist.	Research	30-06-2014	UAS ,Dharwad	60000-00
Empowerment of Scheduled Caste farm households on Agroclimatic Zones of North Karnataka	Research	11-08-2014	UAS ,Dharwad	1525000-00

### 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?

### Coordination activities between KVK and ATMA during 2014-15

S. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK	Other remarks (if any)
01	Meetings	Advisory meeting	01		
02	Research projects				
03	Training programmes				
04	Demonstrations				
05	Extension Programmes				
	Kisan Mela				
	Field day				
	Technology Week				

	Exposure visit	Malagi : Lac inculcated research plots	01		
	Exhibition				
	Soil health camps				
	Animal Health Campaigns				
	Guest Lectures	Hobli level training programmes on agriculture crops	12		
<b>06</b>	<b>Publications</b>				
	Video Films				
	Books				
	Extension Literature				
	Pamphlets				
	Manual	FFS Guidelines	01		
<b>07</b>	<b>Other Activities</b> (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	Education tour outside the state : Kerala	Exposure Visit	80000.00	80000.00	
02	Education tour within the state	Exposure Visit	20000.00	20000.00	
03	Workshop : ITKs of Uttara Kananda	Workshop	82500.00	82500.00	
04	Seminar : a) Improved production technology for Arecanut	Seminar	83000.00	80707.00	
	b) Improved production technology for Black pepper	Seminar	83000.00	80708.00	
05	Kisan Mela		245000.00	245000.00	
06	Field Demonstration : Black pepper DU-1		100000.00	100000.00	
07	Campaign : Popularization of <i>Melia dubia</i>		25000.00	25000.00	
08	Training Programme : Soil Water Conservation Techniques		92500	92500.00	

## 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 2014			
May 2014	2	1537	
June 2014	7	1991	
July 2014	5	1469	
August 2014	6	2764	
September 2014	6	2764	
October 2014	1	2764	
November 2014	2	2973	
December 2014	0	0	
January 2015	2	4720	
February 2015	2	6700	
March 2015	5	8403	
<b>Total for the year 2014-15</b>	<b>38</b>		

**PART XIII- PERFORMANCE OF INFRASTRUCTURE IN KVK**

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

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

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

Name of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.(qtl)	Cost of inputs	Gross income	
Cereals									
Paddy	Sowing : 23.6.2014 Transplanting: 18.07.2014	26.12.2014	0.8	Abhilash KMP 105	Bulk Seed	24 3.89	27922	39038	KMP 105 seeds not yet sold
Pulses									
Blackgram	10.2.2015	7.05.2015	0.8	DU-1	Bulk	1	1140		Not yet sold
Oilseeds									
Fibers									
Spices & Plantation crops									
Cashew	-	24.05.2015	0.4	Local	Bulk	0.4	-	2800	
Floriculture									
Fruits									
Sapota	-		0.4	Cricket ball	-	-	-		Harvesting stage
Vegetables									
Others (specify)									

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

Sl. No.	Name of the Product	Qty	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	

**13.D. Performance of instructional farm (livestock and fisheries production) : NIL****13.E. Utilization of hostel facilities**

Accommodation available (No. of beds): 25

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
April 2014	16	138	
May 2014	99	242	
June 2014	24	26	
July 2014	9	20	
August 2014	9	10	
September 2014	11	27	
October 2014	24	44	
November 2014	104	652	
December 2014	51	198	
January 2015	25	69	
February 2015	32	56	
March 2015	61	123	

**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	581002401	SBIN0000917

### 14.B. Utilization of KVK funds during the year 2014-15 (Rs. in lakh)

S. No.	Particulars	Sanctioned	Released	Expenditure
<b>A. Recurring Contingencies</b>				
1	Pay & Allowances	4200000	4200000	4409802
2	Traveling allowances	70000	70000	74139
3	<b>Contingencies</b>			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter	30000	30000	186017
B	POL, repair of vehicles, tractor and equipments	30000	30000	180805
C	Meals/refreshment for trainees (@Rs.75/day/trainee for residential and @ Rs.40/day/trainee for non-residential trainings)	20000	20000	49557
D	Training material (need based materials and equipments for conducting the training)	20000	20000	27933
E	Frontline demonstration	225000	225000	352940
F	FLD on special Pulses Programme	-	-	-
G	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	25000	25000	12219
H	Training of extension functionaries	10000	10000	8600
I	Maintenance of building	-	-	-
J	Extension Activities	10000	10000	40860
K	Farmers' Field School	10000	10000	19370
L	Library (Purchase of Journal, Periodicals, News Paper and Magazines)	-	-	3482
M	IFS	10000	10000	7215
N	Innovative Approach	10000	10000	0
	<b>TOTAL (A)</b>	<b>4670000</b>	<b>4670000</b>	<b>5372939</b>
<b>B. Non-Recurring Contingencies</b>				
1	<b>Works</b>			
2	<b>Equipments including SWTL &amp; Furniture</b>			
3	<b>Vehicle</b> (Four wheeler/Two wheeler, please specify)			
4	<b>Library</b> (Purchase of assets like books & journals)			
	<b>TOTAL (B)</b>	<b>4670000</b>	<b>4670000</b>	<b>5372939</b>
<b>C. REVOLVING FUND</b>				
	<b>GRAND TOTAL (A+B+C)</b>	<b>4670000</b>	<b>4670000</b>	<b>5372939</b>

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

Year	Opening balance as on 1 <sup>st</sup> April	Income during the year	Expenditure during the year	Net balance in hand as on 1 <sup>st</sup> April of each year
April 2012 to March 2013	364595	291336	473994	181937
April 2013 to March 2014	181937	555557	164882	576812
April 2014 to March 2015	576812	288621	170863	694570

**15. Details of HRD activities attended by KVK staff during 2014-15**

Name of the staff	Designation	Title of the training programme	Institute where attended	Dates
Dr.Roopa S Patil	Subject Matter Specialist	Sensitization training programme of technology management in Agriculture for KVK professionals	NAARM, Hyderabad	9/6/2014 to 11/6/2015
Dr.Roopa S Patil	Subject Matter Specialist	Orientation training on integrated pest management	NCIPM, New Delhi & ZPD,Bng	23-25/7/2014
Dr. Praveen Goroji	Farm Manager	Role of Potash in agricultural crops	Dept of Soil Science and Chemistry, COA, UAS, Dharwad	8/12/2014
Shri Siddappa Kannur	Programme Assistant	Role of Potash in agricultural crops	Dept of Soil Science and Chemistry, COA, UAS, Dharwad	8/12/2014

**16. Please include any other important and relevant information which has not been reflected above .**

**Introduction of LAC Cultivation in Uttara Kananda District :**

KVK has taken initiatives to introduce LAC cultivation in Uttara Kananda district, in collaboration with Kadamba Foundation, Sirsi. After initial training at IINRG , Ranchi during 2013-14 , KVK has organized many extension activities like trainings, exposure visits, field visits, guest lectures, diagnostic visits to make LAC cultivation a successful subsidiary source of income to the farmers. As result, 120 farmers during 2014-15 farmers from Mundagod, Sirsi, Siddapur, Yellapur, Kumta and Ankola talukas have taken up the LAC cultivation as subsidiary occupation on trial basis. Around 2 tons of Brood lac was purchased from IINRG, Ranchi by Kadamba Foundation , Sirsi and provided to Farmers. Kharif -2014 crop was not encouraging due to heavy rains at the time of inoculation but 2014 summer crop is encouraging and expecting good yields.



# SUMMARY FOR 2014-15

## 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					
Varietal Evaluation	French bean	Introduction of new French bean varieties	05	05	0.37
	Paddy	KMP-105 short duration paddy variety as contingent crop for late kharif	10	10	0.6
	China aster	Introduction of China Aster Varieties	05	05	0.075
Integrated Pest Management	Ginger	Management of Shoot Borer in Ginger	05	06	0.3
Cropping Systems	Maize + Cowpea	Evaluation of Maize + Cowpea (1:2) cropping system for Paddy fallows	05	05	0.3
<b>Total</b>			<b>30</b>	<b>30</b>	

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	G2-52	-	Residual moisture	07	4	21.4	18.4	19.51	16.89	15.5	37757	93668	55911	2.48	34900	79403	44503	2.28
Pulses																			
Blackgram	ICM in Black gram	DU-1		Residual Moisture	13	6.0	Ongoing												
Cereals	ICM Paddy	Abhilash		Rainfed	6	4	96	72	82.66	64.8	27.6	37900	110900	73000	2.92	36800	90350	53550	2.45
	ICM Maize	CP818, NK-6240		Rainfed	10	4	78.4	73.4	76.39	61.93	23.3	37300	86758	49458	2.33	38600	106946	68346	2.77
	KMP-105 short duration paddy variety for escaping moisture stress during summer	KMP-105	-	Irrigation	11	5.2			61.8	55.6	11.1	29764	79966	50202	2.7	28136	72040	43903	2.6
Fruit	Heart rot management in Pineapple	Queen	-	Irrigation	3	4	Ongoing												
Spices and condiments																			

Blackpepper	Foot rot Management in Black Pepper	Panniyur -1	-	Rainfed	10	250 (vines)	8.5	7.5	7.98	6.5	22.7	61081	438952	377870	7.21	48928	326904	277975	6.68
Ginger	Management of ginger rhizome rot	Himachal	-	Irrigated	10	1	118	84	105.76	84.49	25.1	48928	326904	277975	6.68	95450	254400	158950	2.66
Commercial																			
Fibre crops like cotton																			
Bt. Cotton	IPM in Bt. Cotton	-	BG-II	Rainfed	10	4	26.35	23.13	26.12	11.1	23.50	24775	99275	74500	4.00	24675	89300	64625	3.61
Medicinal and aromatic																			
Plantation																			
Arecanut	ICM in Arecanut	local		Rainfed	10	4.0	34.37	24.75	29.9	21.7	37.9	73600	626811	553211	8.5	62010	414643	352633	6.7
Fibre																			
Others (pl.specify)																			
Scheme bamboo	Cultivation of Seme Bamboo as additional source of income	Seme bamboo		Rainfed	05	100 Rhizomes	Ongoing												
Jack, Kokum, Appemidi, Guinea grass	Effective Utilization of Bettalands through silvi-hortipastoral system for sustainable land use	Local, Guinea grass	-	Rainfed	05	120 Seedlings, 2500 Grass slips	Ongoing												

**Livestock : NIL**

**Fisheries : NIL**

**Other enterprises : NIL**

**Women empowerment : NIL**

**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 / ha		% save	Savings in Transplanting Expenditure (Rs./ha)
					Demo	Check		
Paddy Transplanter	2000(Hiring Charges/ac)	Mechanized paddy transplanting	6	4	43.7	9	79.4	17.9

*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
Gross cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
23632	60500	36868	2.56	26730	47300	20570	1.77

**Other enterprises**

**Demonstration details on crop hybrids : NIL**

## IV. Training Programme

**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
<b>Crop Production</b>										
Production Technology	7	218	55	273	12	4	16	230	59	289
<b>Horticulture</b>										
<b>a) Vegetable Crops</b>										
<b>b) Fruits</b>										
<b>d) Plantation crops</b>										
Production and Management technology	1	24	4	28	0	0	0	24	4	28
Processing and value addition	1	14	0	14	0	0	0	14	0	14

Skill development	1	13	7	20	0	0	0	13	7	20
Plant propagation techniques	2	31	3	34	5	1	6	36	4	40
<b>e) Tuber crops</b>										
<b>f) Spices</b>										
<b>g) Medicinal and Aromatic Plants</b>										
<b>Soil Health and Fertility Management</b>										
Soil and water testing	3	46	38	84	15	10	25	61	48	109
Others (pl.specify)										
<b>Livestock Production and Management</b>										
<b>Home Science/Women empowerment</b>										
Value addition	1	0	23	23	0	0	0	0	23	23
<b>Agril. Engineering</b>										
<b>Plant Protection</b>										
Integrated Pest Management	2	28	23	51	0	0	0	28	23	51
Integrated Disease Management	1	4	3	7	0	0	0	4	3	7
<b>Fisheries</b>										
<b>Production of Inputs at site</b>										
Vermi-compost production	1	0	8	8	0	2	2	0	10	10
LAC Cultivation	1	32	0	32	0	0	0	32	0	32
<b>Capacity Building and Group Dynamics</b>										
Entrepreneurial development of farmers/youths	2	22	31	53	0	0	0	22	31	53
<b>Agro-forestry</b>										
Others (Pl. specify)	1	11	0	11	0	0		11	0	11
<b>TOTAL</b>	<b>24</b>	<b>443</b>	<b>195</b>	<b>638</b>	<b>32</b>	<b>17</b>	<b>49</b>	<b>457</b>	<b>209</b>	<b>666</b>

### 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
<b>Crop Production</b>										
Weed Management	2	20	2	22	0	0	0	20	2	22
Integrated Farming	1	0	0	0	6	10	16	6	10	16
Integrated Crop Management	3	11	3	14	20	25	45	31	28	59
Soil and Water Conservation										
Integrated Nutrient Management	6	126	12	138	15	5	20	141	17	158
Production of organic inputs	3	0	0	0	43	33	76	43	33	76
Production Technology	2	10	0	10	6	11	17	16	11	27
<b>Horticulture</b>										

<b>a) Vegetable Crops</b>										
<b>b) Fruits</b>										
<b>c) Ornamental Plants</b>										
<b>d) Plantation crops</b>										
Production and Management technology	1	12	0	12	0	0	0	12	0	12
<b>e) Tuber crops</b>										
<b>f) Spices</b>										
Production and Management technology	1	15	6	21	0	0	0	15	6	21
Processing and value addition	1	10	1	11	0	0	0	10	1	11
<b>g) Medicinal and Aromatic Plants</b>										
<b>Soil Health and Fertility Management</b>										
Soil and water testing	1	0	0	0	6	11	17	6	11	17
<b>Livestock Production and Management</b>										
Feed and Fodder technology	1			0	5	11	16	5	11	16
<b>Home Science/Women empowerment</b>										
Value addition	1	0	0	0	19	0	19	19	0	19
<b>Agril. Engineering</b>										
<b>Plant Protection</b>										
Integrated Pest Management	6	108	2	110	21	3	24	129	5	134
Integrated Disease Management	3	28	6	34	16	0	16	44	6	50
<b>Fisherie</b>										
<b>Production of Inputs at site</b>										
<b>Capacity Building and Group Dynamics</b>										
Entrepreneurial development of farmers/youths	1	0	0	0	35	9	44	35	9	44
<b>Agro-forestry</b>										
<b>TOTAL</b>	<b>33</b>	<b>340</b>	<b>32</b>	<b>372</b>	<b>192</b>	<b>118</b>	<b>310</b>	<b>532</b>	<b>150</b>	<b>682</b>

#### 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
Entrepreneurial development of farmers/youths	2	65	6	71	8	1	09	73	7	80
Soil and Water Testing	5	106	48	154	6	2	08	112	50	162
<b>TOTAL</b>	<b>07</b>	<b>171</b>	<b>54</b>	<b>225</b>	<b>14</b>	<b>3</b>	<b>17</b>	<b>185</b>	<b>57</b>	<b>242</b>

#### 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	3	145	10	155	13	0	13	158	10	168
Integrated Nutrient management	1	52	3	55	0	0	0	52	3	55
Capacity building for ICT application	1	20	0	20	0	0	0	20	0	20
LAC Culture	1	40		40	0	0	0	40	0	40
Soil & Water Testing	1	6	4	10	0	0	0	6	4	10
<b>Total</b>	<b>7</b>	<b>263</b>	<b>17</b>	<b>280</b>	<b>13</b>	<b>0</b>	<b>13</b>	<b>276</b>	<b>17</b>	<b>293</b>

**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
<b>1</b>	<b>Crop production and management</b>										
1.a.	Increasing production and productivity of crops	4	98	23	121	14	4	18	112	27	139
1.b.	Commercial production of vegetables										
<b>2</b>	<b>Production and value addition</b>										
2.a.	Fruit Plants										
2.b.	Ornamental plants										
2.c.	Spices crops										
<b>3.</b>	<b>Soil health and fertility management</b>										
<b>4</b>	<b>Production of Inputs at site</b>										
<b>5</b>	<b>Methods of protective cultivation</b>										
<b>6</b>	<b>Others (pl.specify)</b>										
<b>7</b>	<b>Post harvest technology and value addition</b>										
7.a.	Processing and value addition										
7.b.	Others (pl.specify)										
<b>8</b>	<b>Farm machinery</b>										
8.a.	Farm machinery, tools and implements										
8.b.	Others (pl.specify)										
<b>9.</b>	<b>Livestock and fisheries</b>										
<b>10</b>	<b>Livestock production and management</b>										
10.a.	Animal Nutrition Management										
10.b.	Animal Disease Management										
10.c.	Fisheries Nutrition										
10.d.	Fisheries Management										
10.e.	Others (pl.specify)										
<b>11.</b>	<b>Home Science</b>										
11.a.	Household nutritional security										
11.b.	Economic empowerment of women										
11.c.	Drudgery reduction of women										
11.d.	Others (pl.specify)										
<b>12</b>	<b>Agricultural Extension</b>										
12.a.	Capacity Building and Group Dynamics										
12.b.	Entrepreneurial development of farmers/youths	3	82	9	91	8	1	9	90	10	100
	<b>Total</b>	<b>7</b>	<b>180</b>	<b>32</b>	<b>212</b>	<b>22</b>	<b>5</b>	<b>27</b>	<b>202</b>	<b>37</b>	<b>239</b>

**Details of sponsoring agencies involved**

- 1.KSDA Karwar
2. ZP,Karwar
- 3.KSDA Haveri
4. Coconut Development Board, Bangaluru
5. DCCD, Kochi

7.H. Details of Vocational Training Programmes carried out by KVKs for rural youth : NIL

### V. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services				
Diagnostic visits				
Field Day	5	248	40	288
Group discussions				
Kisan Ghosthi				
Film Show				
Self -help groups				
Kisan Mela	1	335	40	375
Exhibition	8	335778	759	336537
Scientists' visit to farmers field	162	691	89	780
Plant/animal health camps				
Farm Science Club				
Ex-trainees Sammelana				
Farmers' seminar/workshop	2	155	4	159
Method Demonstrations	21	294	75	369
Celebration of important days	3	263	40	303
Special day celebration				
Exposure visits	2	20	0	20
Others : Guest Lectures	36	2606	287	2893
Campaign	2	299	74	373
Diagnostic visits	63	259	15	274
Farmers visit to KVK	395	318	16	334
<b>Total</b>	<b>700</b>	<b>341266</b>	<b>1439</b>	<b>342705</b>



**Details of other extension programmes**

Particulars	Number
Electronic Media	
Extension Literature	02
News Letter	01
News paper coverage	28
Radio Talks	04
TV Talks	01
<b>Total</b>	<b>36</b>

**PRODUCTION OF SEED/PLANTING MATERIAL****Production of seeds by the KVKs:**

Crop category	Name of the crop	Name of the variety (if hybrid pl. specify)	Quantity of seed (q)	Value (Rs)	Number of farmers
Cereals	Paddy	KMP 105	28.39	-	-
Oilseeds					
Pulses					
Commercial crops					
Vegetables					
Flower crops					
Spices					
Fodder crop seeds					
Fiber crops					
Forest Species					
Others					
<b>Total</b>					

**Production of planting materials by the KVKs : NIL**

**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				
Root Hormone	IBA	11.34	13230.00	
<b>Total</b>				

**Production of livestock and related enterprise materials : NIL**

## VII. DETAILS OF SOIL, WATER AND PLANT ANALYSIS 2014-15

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)
Soil Samples	1546	1546	1100	113550
Water Samples	958	958	700	62700
Plant samples				
Manure samples				
Others (specify)				
<b>Total</b>	<b>2504</b>	<b>2504</b>	<b>1800</b>	<b>176250</b>

## VIII. SCIENTIFIC ADVISORY COMMITTEE

<b>Number of SACs conducted</b>
01

## IX. NEWSLETTER

<b>Number of issues of newsletter published</b>
1. April- March 2015

## X. RESEARCH PAPER PUBLISHED

<b>Number of research paper published : 06</b>

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

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

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