PROFORMA FOR ANNUAL REPORT 2012-13

(FOR THE PERIOD APRIL 2012 TO MARCH 2013)

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

KVK Address	Telephone		E mail	Web Address
	Office	Fax		
Krishi Vigyan Kendra Banavasi Road, Sirsi-581 401 District : Uttara Kannada State : Karnataka	Office (08384) 228411	FAX (08384) 228411	kvkuks@gmail.com	**www.kvkuttarkannada.org**

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

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

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Hemant G. Hegde	08384247958	9448495345	hemihg@gmail.com

1.4. Year of sanction: 2004

1.5. Staff Position (as 31st March 2013)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	M/F	Discipline	Highest Qualification	Pay Scale	Basic pay	Date of joining KVK	Permanent /Temporary	Category
1	Programme Coordinator	Dr. Hemant G. Hegde	Programme Coordinator	M	Horticulture	Ph.D (Horticulture)	37400-61100+10000(AGP)	60450	22.08.2006	P	GM
2	SMS	Dr (Mrs) Roopa S. Patil	SMS (Agril. Entomology)	F	Agricultural Entomology	Ph.D (Agril. Entomology)	15600-39100+6000(AGP)	24330	3.12.2008	P	GM
3	SMS	Shri Shivashenkaramurthy M.	SMS(Agronomy)	M	Agronomy	MSc(Agronomy)	15600-39100 +6000(AGP)	22250	28.11.2011	P	SC
4	SMS	Miss. Akkamahadevi D Agasimani	SMS(Horticulture)	F	Horticulture	MSc(Floriculture)	15600-39100 +6000(AGP)	21600	14.12.2012	P	CAT-2
5	SMS	Vacant									
6	SMS	Vacant									
7	SMS	Vacant									
8	Programme Assistant(Lab Tech.)	Vacant									
9	Programme Assistant (Computer)	Mrs. Annapurna F. Neeralgi	Programme Asst. (Computer)	F	Computer Science	MSC(comp)	9300-34800 + 4200 GP	10230	29.03.2010	P	SC
10	Farm Manager	Dr. Praveen T. Goroji	Farm Manager	M	Soil science	Ph. D (Soil Science)	9300-34800 + 4200 GP	10230	13.11.2008	P	GM
11	Assistant	Shri Somashekaraiah S. L.	Sr. Assistant	M	Accounts	-	10000-18150	10500	14.10.2011	P	SC
12	Jr. Stenographer	Miss Purnima K. Hirehal	Typist	F	Typist	MA	8000-14800	8200	12.11.2009	P	ST
13	Driver	Mr.Balappa Taragar	Driver	M	Driver (LV)	SSLC	5800-10500	6000	06.10.2009	P	GM
14	Driver	Vacant									
15	Supporting staff	Mr. H.A. Nadaf	Cook cum caretaker	M	Cook cum Caretaker	10th	5200-8200	5500	02.08.2007	P	CAT-1
16	Supporting staff	Vacant									

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	2513	Good
Motor bike KA 25 EC 7562 KA 25 EC 7564	Hero Honda - Passion 2009 2009	 42,450.00 42,450.00	 12291 9799	 Good Good
Toyota Qualis Jeep KA 31M 2652	 2004	 5,00,000.00	160288	 Good
Power Tiller	2011	145950.00		Good
HMT Tractor KA-31 T-2445 Trailor KA-31 T-2446	2011	357863.81 114285.72		Good

C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Godrej copier	30-03-2001	80,234/-	Good condition
Stabilizer	30-03-2001	6,000/-	’’
Portable OHP	31-03-2001	23,920/-	’’
Honda make EBK 2000 generator	31-03-2001	32,800/-	’’
EB 833 Altimeter	25-02-2002	10,990/-	’’
Thomson TV 29’’ monitor	30-03-2002	28,700/-	’’
Thomson CD player	30-03-2002	6,500/-	’’
Sharp VCR	30-03-2002	12,300/-	’’
Computer and accessories	30-03-2003	72,513/-	’’
Public address system	26-02-2003	10,500/-	’’
Nikon Camera	29-09-2003	28,350/-	”
Air Conditioner for computer hall	27-09-2003	10,500/-	’’
Photo display frame	27-09-2003	17,000/-	’’
Exhibition showcase	27-09-2003	14,000/-	’’
Scanner	27-09-2003	3,500/-	’’
Sony Digital Camera	2006	13,000/-	Under repair
Computer HP- with accessories	31.3.2007	36,000/-	’’
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/-	Good
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 Canon SX 150	September 2012	5,995/- 9,995/-	’’ ’’
Digital Cameras Canon A 810 Canon SX 150	December 2012 January 2013	4,900/- 4,900/-	’’ ’’
UPS V-Guard	January 2013	6,540/-	’’
Grainder	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/-	’’

1.8. Details SAC meeting conducted in 2012-13

Sl.No.	Date	Number of Participants	No. of absentees	Salient Recommendations	Action taken
1.	30.07.2012			A proposal is to be sent to UASD to take up Voice SMS facility , to make agro advisory services more effective.	The request sent for providing facility for voice message has been considered by the University. Free facility to send voice sms to 500 beneficiaries per day has been extended to KVK under NAIP, Project. Already 200 farmers have been registered. Initial trial run has been done.
				Taluka wise information has to be collected for best youth farmer (both Male & Female) award during Krishi Mela	Information has been collected and submitted to the University
				It is advised to start custom hiring centre (paddy transplanter etc) with the financial assistance of University. And asked to send proposal for financial aid to UASD	Will be taken up in coming days
				Arrange for Farmer's exposure field visit to CIAE, Bhopal by taking financial assistance of Directorate extension, UAS, Dharwad.	Proposal is submitted to PD,ATMA for funds. The programme will be implemented after receiving the funds.
				Fodder museum with different crops and varieties may be established in the KVK.	Initiated
				Production of Planting materials may be improved as per demand/requirement in collaboration with college of Forestry,Sirsi.	Seedlings of important varieties of Spices (Nutmeg, Blackpepper), Fruit crops(Papaya), Vegetables (Brinjal,Tomato, Capsicum) Flowers(Marigold) and products(bio digester) have been produced as per needs of farmers and distributed under Revolving Fund.
				Seed production activities in collaboration with ARS, Sirsi is to be taken up.	30 q of Paddy (Intan) is produced during Kharif. Breeder seed production of blackgram(TAU-1) has been taken up in KVK Demonstration field during summer. Under farmers participatory programme: • Certified seed production programme of Paddy (Abhilash, Jaya, Intan) & Maize(African Tall) has taken during Kharif in Mundagod taluka.

					• Certified seed production programme of Blackgram(DU-1, LBG 685, DBGV 5) has been taken up during summer in Sirsi Taluka
				Establishment of demonstration units at KVK	Protected cultivation ,Azolla cultivation , Nutrition Garden demo units have been established. The proposal for establishing agro processing units is sent to ICAR.
				Conduct demonstrations on Pulses and new variety of Ground nut in Coastal areas.	Trial on 10 varieties of groundnut initiated in Holanagadde village of Kumta Taluka. Improved blackgram varieties LBG-685, DBGV-5 and DU-1 and Green gram varieties LGG-460, BGGY-2 are being tried in Sirsi taluka
				Conduct demonstrations on " Organic farming" with help of Organic farming Institute, UAS, Dharwad.	Many trainings and demonstrations are organized in Mundagod and Yellapur talukas. The organic products are introduced and popularized to farmers through OFTs/FLDs/Trainings
				Invite OFT and FLD farmers to SAC Meetings	Invited
				Promote mechanization in Paddy	Mechanized paddy transplanting is being popularized by conducting FLDs, Demonstrations and Trainings. During Kharif 2012 FLD on mechanized paddy transplanting was conducted in 10 ha area in Sirsi and Mundagod talukas. 04 Trainings , 02 Method Demonstrations have been conducted. Already 12 paddy transplanters are purchased by rurual youth trained at KVK and 05 farmers groups have purchased the machines and taken it as entrepreneurship
				Conduct research on Coastal Salanity tolerant Paddy varieties	• 7 salt tolerant varieties were assessed in Haldipur village of Honnavar Taluka. • Research to identify salt tolerant paddy varieties for coastal area was taken up in Haldipur of Honnavar Taluka. Where in 30 new varieties were tested against 2 checks.

				Need based agro advisory services are to be sent to farmers regularly	Need based agro advisory services are being given to the farming community regularly through KMAS,Radio, TV,News Paper, Publications
				Top priority may be given to allocation of land to KVK and filling up of vacant posts	Vacant post of SMS(Horticulture) has been filled up on 14.12.2012.
				All literatures developed by KVK may be circulated to all officials of department	Literatures developed by KVK are being circulated to different departments, Extension personnel, Farmers, SHGs and NGOs.
				Evaluation of suitable salt tolerant Groundnut varieties for coastal region	10 varieties of groundnut is being tested in 2 farmers fields of Holanagadde village of Kumta taluk
				Productivity of Paddy is low in Manjuguni and surrounding villages, hence it is advised to adopt Manjuguni village and conduct demonstrations on paddy crop	Taken two FLDs on ICM in paddy in Manjuguni village. Organized trainings and method demonstrations.
				Top priority may be given to develop modified SRI method for high rain fall areas.	The requirements for power cono weeders for weeding under SRI method and other agricultural implements like transplanters, weeders, reapers , arecanut dehuskers and other small size implements suitable for small and undulate land holding of Uttara Kananda district has been submitted to CIAE,Bhopal and other concerned institution at Karwar meeting on 1-9-2012 conducted by DG,ICAR.
				Conduct programmes on fodder processing	• Proposal to establish fodder block making unit has been sent to department of Animal Husbandry and Veterinary science under RKVY programme. • Scientific processing of fodder and importance of fodder treatment was dealt in trainings. • Submitted proposal for 3 green fodder production Hydrophonic units under IFS.
2	13.2.2013			Voice SMSs should be sent to farmers, farm facilitators and members of SKDRP	
				Private & public sector should be involved jointly in establishing custom hiring centre for small scale	

				agricultural equipments/machineries among progressive farmers to help other farmers	
				Exposure visit to CIAE Bhopal along with farmers is to be planned and the actions may be taken to modify the available technology to suit to this region	
				Seedlings of Garcinia , Appemidi & Jackfruit need to be developed and given to farmers. In this regard, follow SKDRDP " Sasi Koota" model and provide 1 lakh seedlings to farmers	
				Since Banana area is increasing, to develop entrepreneurship among women , plan an exposure visit to Navasari Agriculture University along with 15-20 farm women to educate them on extraction of banana fibre and preparation of value added products from Banana.	
				The KVK has taken up the demonstration on mechanized paddy transplanter , it is suggested to document the success stories in this regard and propose the farmers for awards from companies like Mahindra & Mahindra etc.	
				Paddy seed production of varieties like Padmarekha, Karikagga is to be taken up and popularized	
				To make agriculture profitable include Animal Husbandry, Fishery, Horticutlure, Value Addition components in IFS	
				The technologies like KMP-105, Pappad preparation from jackfruit, CMS Technology are profitable and suggested to document the same.	
				Make necessary arrangements to take over the charge of Dairy Unit which is presently attached to ARS(Paddy), Sirsi and feed may be prepared using maize following the Nippani Model fodder preparation to increase the milk yield. In this regard a proposal may be sent to University	
				Technology to convert pineapple waste to fodder to increase the milk yield in dairy animal should be provided	

				Demonstration on mechnanized paddy transplanting is to be taken up in marshy lands of Gudnapur village	
				Take FLDs on new varieties of groundnut like G-2-52 instead of old varieties like TMV-2	
				OFTs should be taken up on new varieties & popularize TAG-24 for cultivation in residual soil moisture	
				Under IFS SC/ST project the farmer income has been increased from Rs. 28000 to Rs. 1,00,00. This should be documented	
				Programmes on green manuring (Diancha) should be taken	
				Introduction of Organic farming system should be taken up in collaboration with Organic Farming Institute , UASD	
				Number of voice SMS beneficiaries must be increased to 5000	
				Appropriate technologies to convert wastes of cocoa, jackfruit and pineapple into fodder need to be given	
				UASD has released more than 15 new varieties. The production technology and protection technologies of these new varieties are to be popularized through FLDs	
				Documentation of visitors to KVK is to be taken up	
				Nutrient budgeting through kitchen garden needs to be prepared and the same should be implemented in each taluka	
				Document the achievements of KVK	
				The SWTL should be used more efficiently and soil health cards are to be issued to farmers. Necessary actions to be taken to provide the micro nutrient analysis facility to the lab	
				Appropriate technology for fodder storing, processing and grain storing in rainy season. Documentation of existing farmers practices	
				Schemes available in different development departments may be made available in KVK website	

PART II - DETAILS OF DISTRICT

2.1 Major farming systems/enterprises

S. No	Farming system/enterprise
1	Rainfed area : Paddy- Pulses/Ground nut, Maize- Pulses, Areca nut and Coconut based intercropping system Irrigation: Paddy –Paddy, Sugarcane, Paddy –Maize, Areca nut and Coconut based intercropping system
2	Small Irrigation through wells and springs
3	Non Timber Forest Produce, Fisheries and Dairy

2.2 Description of Agro-climatic Zone & major agro ecological situations

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

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

2.3 Soil type/s

S. No	Soil type	Characteristics	Area in ha
1	Lateritic soils	Deep, well drained to excessively drained, yellowish red to dark reddish brown, sandy loam to sandy clay and clay surface soils and clay subsoil's, moderate to severely eroded with surface crusting.	36332
2	Coastal laterite soil	Deep, well drained to excessively drained, dark brown to yellowish red and dark reddish brown, sandy clay loam to clay loam surface soils and sandy clay to clay subsurface soils, moderately to severely eroded with surface crusting.	
3	Coastal alluvial soils	Deep, well drained and poorly drained, pale brown to dark yellowish brown, sand, sandy loam to loam surface soils and sand to loam subsurface soils.	
4	Red 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	76604	183848	2400
2	Cotton	2013	668	332
3	Groundnut	2,898	4277	1476
4	Green gram	713	162	227
5	Black gram	566	259	458
6	Maize	4022	18132	4508
7	Sugarcane	1290	117390	91
8	Arecanut	16634	41091	2470
9	Coconut	7690	1309	170
10	Black pepper	408	171.29	419
12	Ginger	23	5066	220260
13	Cardamom	536	133.67	249
14	Cashew	2996	6361	2123
15	Banana	2346	69110	29459
16	Mango	1894	34257	18087
17	Pine apple	450	33217	73815

* Uttara Kannada at a Glance 2010-11 by Statistical Department , Karwar (Agriculture crops)
* Office of DDH, Dept. of Horticutlure, Sirsi (Horticulture crops) 2010-11

2.5. Weather data

Month	Rainfall (mm)	Temperature ^{0} C		Relative Humidity (%)	
		Maximum	Minimum	Morning	Evening
Jan 2012	0	31.7	14.1	83.0	63.1
Feb 2012	0	32.8	16.0	88.7	86.1
March 2012	0	34.1	18.6	86.0	41.0
April 2012	72.2	34.0	21.2	93.2	70.3
May 2012	11.4	32.2	21.8	89.1	68.7
June 2012	569.3	28.7	21.3	90.7	75.6
July 2012	594.9	26.4	21.4	93.3	84.4
August 2012	770.8	26.9	21.0	93.8	82.5
Sept 2012	277.9	28.0	20.7	94.1	80.9
Oct 2012	130.2	30.0	19.3	91.3	77.9
Nov 2012	57.4	29.9	17.0	86.1	59.7
Dec 2012	0.1	30.9	15.5	83.5	52.3

* District Rainfall Data : KSDA,Karwar
*Temperature and Relative Humidity : Source Weather Station, ARS(Paddy),Sirsi

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

Category	Population	Production	Productivity
Cattle			
Crossbred	**35177**	**99040 tones (Milk Production)**	
Indigenous	**331751**		
Buffalo	**118669**		
Sheep			
Crossbred	**0**	**1220 tones (Meat Production)**	
Indigenous	**2702**		
Goats	**11994**		
Pigs			
Crossbred	**67**		
Indigenous	**833**		
Rabbits	**277**		
Poultry			
Hens	**361351**	**46500 tones**	
Desi			
Improved			
Ducks			
Turkey and others			

Category	Area	Production	Productivity
Fish		**89222 tones**	
Marine			
Inland			
Prawn			
Scampi			
Shrimp			

* District Statistical Report 2010-111

2.7 District profile has been **Updated** for 2011-12 : **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	Gudnapura Banavasi Kantaraji Yedur bail Vaddalla Kadagoda Yesale Kenhagadde	2011-12 2012-13	Paddy Maize Ginger Pinnapple Black gram Green gram Dairy farming	• Poor soil fertility • Blast in Paddy • Leaf folders in Paddy • Nutrient deficiency • Stem borer in Maize • Root rot in Maize • Water shortage in Summer • Low yield • Sucking pest in Pulses • Weeds	INM IPM IDM IWM Varietal Introduction
2	Sirsi	Manjuguni	Manjuguni	2010-11 2012-13	Paddy Dairy Farming	• Poor soil fertility • Blast in Paddy • Leaf folders in Paddy • Nutrient deficiency	INM IPM IDM
3	Sirsi	-	Vaddinakoppa, Korlakatta, Javalgundi, Sadashivalli, Ramapur, Gudnapur	2011-12 2012-13	Arecanut, Paddy, Banana, Dairy Farming	• Damage by rootgrub • Nut dropping • Nutrient deficiency	Biological control of rootgrub through entomopathogenic fungi
	Mundagod	-	Bedasagav,	2012-13	Arecanut, Paddy, Banana, Dairy Farming	• Damage by rootgrub • Nut dropping • Nutrient deficiency	Biological control of rootgrub through entomopathogenic fungi

3	Mundgoda	Indore	Indore Koppa Majjigere	2012-13	Paddy Dairy Farming	• Poor soil fertility • Blast in Paddy • Leaf folders in Paddy • Nutrient deficiency • Labour Problem	INM IPM IDM Farm Mechanization
4	Mundugod	Kendalgere	Kendalgere Hugginakere Hungud	2012-13	Maize	• Poor soil fertility • Nutrient deficiency • Stem borer in Maize • Low yield	INM IWM IPM
5	Mundagod		Arishinageri	2009-10 2011-12 2012-13	Cotton Dairy Farming	• Sucking insect pest and shoot weevil in Bt Cotton • Black arm disease	IPM
6	Mundagod	Pala	Pala Bhadrapur	2012-13	Mango, Paddy, Maize	• Mango Hoppers • Flower and fruit drop • Drudgery in harvesting	ICM Mango Harvester
7.	Kumta	Holanagdde	Holanagadde	2012-13	Paddy Ground nut Black gram Dairy Farming	• Coastal Salinity • Poor soil fertility • Blast in Paddy • Leaf folders in Paddy • Nutrient deficiency • Low yield • Sucking pest in pulses • Collar Rot , Spodoptera and Leaf minor in Ground nut • Poor peg penetration in ground nut.	INM IPM IDM Varietal Introduction

2.9 Priority thrust areas

S. No	Thrust area
1	High Yielding Variety
2	Integrated Nutrient Management
3	Integrated Pest Management
4	Integrated Disease Management
5	Integrated Weed Management
6	Cropping System
7	Soil and Water conservation
8	Organic Farming
9	Integrated Farming system
10	Post Harvest Technology and value addition
11	Income Generating activities
12	Farm Mechanization
13	Nursery Raising Techniques
14	Farmers Participatory Seeds and Seedling Production
15	Composting and Vermicomposting

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
07	07	35	31	11	12	189	165

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
221	94		2303		909	4570	20159

Seed Production (Qtl.)		Planting materials (Nos.)	
5		6	
Target	Achievement	Target	Achievement
31	915	2000	9460

Livestock, poultry strains and fingerlings (No.)		Bio-products (Kg)	
7		8	
Target	Achievement	Target	Achievement
		100	325

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			Extension activities (No.)	Supply of seeds (Qtl.)	planting materials (No.)	live stock	Supply of bio products	
						Farmers	Youths	personnel					No.	Kg
01	Crop Production	Paddy :	Low yield Poor Soil Fertility Blast, Stem borer, Leaf Folder, Earhead bug Labour scarcity		• ICM in paddy • Use of mechanized paddy transplanter as IGA	08 06			Field Visit: 18 Field Day : 02 Method Demos: 05					Azospirillum:4kg PSB:4kg *N.rileyi:*20 kg
		Maize	Non adoption of suitable cropping system in paddy fallows	Evaluation of alternate crops during summer season	Integrated Nutrient and Weed Management in Maize	02			Field Visit: 21 Field Day : 01 Health Camp :01 Diagnostic FV: 04	Maize: 15kg Cowpea: 20 kg				
		Cardamom	Poor germination High cost of seedling production	Production of quality seedlings in cardamom through CMS technology		01			Method Demos:02					
		Groundnut	Poor peg penetration, poor fertility , poor yield, Spodeptora, Leaf Miner , Collar rot. drudgery in stripping pods		ICM in groundnut	08			Field Visit :07 Field Day :01 FFS in Groundnut Method demo:02					Rhizobium: 5kg
		Blackgram	Low yield, poor fertility, sucking pest and powdery mildew		ICM in blackgram	03			Field Visits :06 Method Demo :01	DU1: 2 q				PSB:4kg Rhizobium: 4kg Trichoderma:1kg
		Greengram	Low yeild, poor fertility, sucking pest and powdery mildew		ICM in greengram	03			Field Visits :06 Method Demo :01					PSB:4kg Rhizobium: 4kg Trichoderma:1kg
		Mango	Low yield, Fruit fly, drudgery in harvesting		ICM in mango and use of mango harvester		-	-	Field visits:01 Diagnostic visits:03 Method Demo:02 Group Discussion:01					

02	Plant Protection	Paddy	Crab damage Ear head bug	Eco friendly Management of Crabs in Paddy		0			Field Visit: 02					
				Ecofriendly Management of ear head bug in Paddy		01			Field Visit: 04 Method Demos: 01					Nimbicidine:3ltrs
		Bt.Cotton	Sucking pests and black arm disease		IPM in Bt. Cotton	02			Field Visit: 03 Method Demo:02	Bhendi : 12.5kg				
		Arecanut	Root grub menace		Management of arecanut root grubs through entamopathogenic fungi	03			Diagnostic Visit:02 Field Visit : 05 Method Demo:03					Metarazium: 20kg
		Black Pepper	Death of vines due to foot rot		Foot rot Management in Black Pepper	07			Diagnostic Visits:01 Field Visits: 06 Film shows : 05 Method Demo: 02					Trichoderma:
		Ginger	Rhizome Rot		Management of rhizome rot in ginger	0			Diagnostic Visits : 01 Field Visits : 06					
03	Varietal Introduction	Paddy	Water scarcity for summer paddy Need for short duration variety	Introduction of KMP 105 short duration paddy variety for summer		02			Field Visit : 05 Exposure Visit:01 Method Demo:01					
04	Processing & Value addition	Blackpepper	Unscientific processing Low price		Processing for quality black Pepper	08			Field Visits : 01 Method Demos: 05 Film Shows: 05					
		Jackfruit	Wastage of fruit low price for fruit	Preparation of jackfruit leather		02			Method Demos:02					
05	Drudgery	Chula	Fuel inefficiency and drudgery	Assessment of fuel efficient ecofriendly chula		0			Method Demo:01 Field visit:02					

3.B2. Details of technology used during reporting period

S.No	Title of Technology	Source of technology	Crop/enterprise	No.of programmes conducted			
				OFT	FLD	Training	Others (Specify)
1	2	3	4	5	6	7	8
01	Integrated Crop Management in paddy	UASD	Paddy	-	01	08	Field Visit :15 Method Demos:03 Field Day :02
02	Integrated Crop Management in Groundnut	UASD	Groundnut	-	01	08	Field Visit :07 Field Day :01 Method Demo:02 FFS in Groundnut
03	Integrated Crop Management in Blackgram	UASD	Blackgram	-	01	03	Field Visits :06 Method Demo:01
04	Integrated Crop Management in greengram	UASD	Greengram	-	01	03	Field Visits :06 Method Demo:01
05	Integrated Crop Management in mango & use of mango harvester	UASD & IIHR,Bangalore	Mango	-	01	-	Field visits:01 Diagnostic visits:03 Group Discussion:01 Method Dempo:02
06	Integrated Nutrient and weed management in maize	UASD	Maize	-	01	02	Field Visit:11 Field Day : 01 Maize Health Camp :01 Diagnostic visit : 04
07	Popularization and use of mechanizaed paddy transplanter as IGA through commodity groups	UASD	Paddy	-	01	06	Field Visits: 03 Field Day:01 Method Demos: 04
08	IPM in Bt. Cotton	UASD	Bt. Cotton	-	01	02	Field Visits :03 Method Demo:02
09	Management of arecanut root grubs through entemopathogenic fungi	UASD	Arecanut	-	01	03	Field Visits: 05 Diagnostic Visits:02 Method Demos: 03
10	Processing for quality black Pepper	UASD	Blackpepper	-	01	08	Field Visits : 01 Method Demos: 05 Film Shows: 05
11	Foot rot Management in Black Pepper	UASD	Blackpepper	-	01	07	Diagnostic Visits:01 Field Visits: 06 Film shows : 05 Method Demo:02
12	Management of rhizome rot in ginger	UASD	Ginger	-	01	-	Field Visits : 06 Diagnostic Visits : 02
13	Eco friendly Management of Crabs in Paddy	ARS,Sirsi	Paddy	01	-	-	Field Visits : 02
14	Eco friendly Management of ear head bug in Paddy	ARS,Sirsi	Paddy	01	-	01	Field Visits : 04 Method Demo:01
15	Evaluation of alternate crops during summer season	UASD	Maize+Cowpea	01	-	-	Field Visits : 10 Method Demo:01

16	Introduction of KMP 105 short duration paddy variety for summer	UASB	Paddy	01	-	02	Field Visits : 5 Exposure visit:01 Method Demo:01
17	Preparation of jackfruit leather	DFID,UK	Jackfruit	01	-	02	Method Delmo:02
18	Production of quality seedlings in cardamom through CMS technology	IIHR,Bangalroe	Cardamom	01	-	01	Method Demo:02
19	Assessment of fuel efficient ecofriendly chulha	-	Chula	01	-	-	Method demo:01 Field Visit:02

3.B2 contd..

No. of farmers covered															
OFT				FLD				Training				Others (Specify)			
General		SC/ST		General		SC/ST		General		SC/ST		General		SC/ST	
M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
				17	0	0	0	167	0	17	0	291	20	0	0
				5	0	0	0	159	70	2	0	91	29	0	7
				14	0	0	0	37	8	2	0	37	0	0	0
				15	0	0	0	37	8	2	0	37	0	0	0
				15	0	0	0	0	0	0	0	50	7	0	0
				07	0	0	0	43	7	4	0	113	2	0	0
				8	0	02	0	100	5	13	5	227	15	0	0
				0	0	17	08	0	0	41	5	0	0	58	15
				14	0	02	0	17	3	4	0	21	2	0	0
				15	0	0	0	145	0	0	0	170	30	0	0
				10	0	0	0	130	0	0	0	137	19	0	0
				14	0	02	0	0	0	0	0	34	0	0	0
1	0	0	0					0	0	0	0	5	0	0	0
5	0	0	0					21	0	0	0	38	0	5	
5	0	0	0					0	0	0	0	34	0	0	0
5	0	0	0					34	5	2	0	45	3	0	0
0	3	0	2					0	31	10	3	0	5	0	0
5	0	0	0					26	0	0	0	5	0	0	0
5	0	0	0					0	0	0	0	0	11	0	0

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	Others	TOTAL
Integrated Nutrient Management											
Varietal Evaluation	01										01
Integrated Pest Management	02										02
Integrated Crop Management											
Integrated Disease Management											
Small Scale Income Generation Enterprises											
Weed Management											
Resource Conservation Technology											
Farm Machineries											
Integrated Farming System											
Seed / Plant production				01							01
Value addition						01					01
Drudgery Reduction										01	01
Storage Technique											
Mushroom cultivation											
Cropping System	01										01
Total	**04**			**01**		**01**				**01**	**07**

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

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

4.A3. Abstract on the number of technologies assessed in respect of livestock enterprises - 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 trail covering all the Technological Options)
Integrated Nutrient Management					
Varietal Evaluation	Paddy	Introduction of KMP 105 short duration paddy variety for summer	05	05	0.2
Integrated Pest Management	Paddy	Eco friendly Management of Crabs in Paddy	01	01	0.2
		Eco friendly Management of ear head bug in Paddy	05	05	0.2
Seed / Plant production	Cardamom	Production of quality seedlings in cardamom through CMS technology	05	05	
Value addition	Jackfruit	Preperation of jackfruit elather	05	05	
Drudgery Reduction	Chula	Assessment of fuel efficient ecofriendly chula	05	05	
Cropping System	Maize+cowpea	Evaluation of alternate crops during summer season	05	05	0.24
Total					

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 : 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	Crab damage to seedlings	Eco friendly Management of crabs in paddy	01	Broadcasting of Randia spinosa matured fruits 20 kg/ha + ash 2 kg/ha	% seedling damage Yield (q/ha)	- -	Results are not encouraging since crab damage was very minimum	Limited availability of mature randia fruits, In some places maturity of fruit doesn't coincide with the transplanting time	-	-

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice) : Application of Phorate 10 G @ 2.5 kg/ha	-	-	-	-	-
Technology option 2 ; Nil	-	-	-	-	-
Technology option 3: Broadcasting of *Randia spinosa* fruits 20 kg/ha + ash 2 kg/ha	Preliminary results from ARS (Paddy) trials	-	-	-	-

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
Paddy	Rainfed	Ear head bug	Eco friendly management of ear head bug in paddy	5	Spraying with Nimbecidine 300 ppm @ 3 ml/l, 2 sprays at 15 days interval	Number of ear head bugs/hill Yield (q/ha)	0.60/hill 45.00	Spraying with neem pesticides at grain filling stage results in residue free produce apart from minimizing ear head bug menace	Pesticide Residue free organic produce	-	-

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice) : Malathion spray	-	42.50	q/ha	28825	2.3
Technology option 2 : Spraying with Malathion 50 EC 2 ml /ltr 2 sprays at 15 days interval	-	46.25	q/ha	34635	2.66
Technology option 3: Spraying with Nimbicidine 300 ppm 3 ml/ltr 2 sprays at 15 days interval	Preliminary results from ARS (Paddy) trials	45.00	q/ha	32740	2.54

Results of On Farm Trial :3

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 + Cow Pea	Irrigation	Water shortage Soil Health Loss	Evaluation alternate crops for Summer	5	Maize + Cow pea	Yield (q/ha) LER	50.85 (Maize) 9.306 (Cow pea) 1.338	Maize + Cow Pea has recorded higher Net return and Dry matter production	Expressed good opinion on Yield, Profit and Dry matter production.	-	-

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
T o 1 : Paddy	UAS D	40.35	q/ha	18455	1.5
T o 2 : Maize	UAS Dharwad	68.55	q/ha	58115	2.7
T o 3 : Maize+Cowpea	UAS Dharwad	50.85 Maize & 9.306 (Cow Pea)	q/ha	65290	2.7

Results of On Farm Trial :4

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	Irrigation	Water shortage	Introduction of KMP-105 Short duration Paddy variety for summer	5	KMP-105	Yield (q/ha) Straw (t/ha) No.of Tillers Duration	-61.42 4.87 19.44 105 days	KMP-105 recorded higher yield and matured in 105 days	Expressed good opinion about yield, duration and quality of rice	-	-

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice) Rashi	UAS D	44.05	q/ha	34386	2.07
Technology option 2 KMP-105	UAS Bangolore	61.42	q/ha	55606	2.67
Technology option 3	-	-	-	-	-

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
Jackfruit	-	Low shelf life, wastage No market value for soft pulped varieties	Preparation of Jackfruit leather	05	heating the pulp to 70° + Drying with addition of preservative kms 0.1 gms/kg pulp	Shelf life , Quality	Shelf life : Demo : 8 months RP : 3 months	Colour : golden yellow Taste : Good	Good quality and fetches more price	-	-

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
Farmers Practice	FP	12	kg	600	3.5
Recommended Practice	UAS Bangalore	12	kg	720	4
Alternative Practice	DFID,UK	12	kg	1020	4.4

Results of On Farm Trial :6

Crop/ enterprise	Farming situation	**Problem definition**	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Cardamom	Irrigation	Quality Seedlings	Production of Quality seedlings in Cardamom through CMS technology	5	Seedling Production through CMS Technology	No.of Seeds Germinated % Germination	285.66 94.88	Results Showed that the higher germination with 100 % Survivability and Low cost	Farmers Expressed good opinion on germination, survivability and low cost	Nil	Nil

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
Raised bed under Shade	--	179.2 seedlings	Per 300 Seeds sown	78.3	1.9
Riased bed under Shade net	UAS Dharwad	238.00 Seedlings	Per 300 Seeds sown	120.43	2.17
CMS Technogy	IIHR, Bangalore	285.66 Seedlings	Per 300 Seeds sown	275.6	34.00

Results of On Farm Trial :07

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
Drudgery	-	Fuel inefficiency & drudgery	Assessment of Fuel efficient eco friendly chulas	05		• Fuel efficiency • Cooking time	Fuel required (Gm)	Cooking time (1 kg rice)	Envirofit & selco model gave on par results & proved fuel efficient	By using enfirofit & selco fuel efficiency can be made & cooking is fast. In sampada gasifier stove it is difficult to control the flame.	-	-
					Traditional		670	43				
					Envirofit Chula		250	22				
					Selco Chula		260	23				
					Sampada Gasifier stove		500	30				

Technology Assessed	Source of Technology	Production	Unit	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Farmer's practice : Traditional	-	-	-	-	-
Technology Option 1 : Envirofit Chula	Colarado University, USA	-	-	-	-
Technology Option 2 : Selco Chula	Selco, Bengaluru	-	-	-	-
Technology Option 3 : Sampada Gasifier stove	Samuchit Enviro Tech Pvt Ltd, Pune	-	-	-	-

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 : Ecofriendly management of crabs in paddy

2 Problem Definition : Crab damage to seedlings

3 Details of technologies selected for assessment : Broadcasting of *Randia spinosa* matured fruits 20 kg/ha + ash 2 kg/ha

4 Source of technology : Successful preliminary trials conducted at ARS, Sirsi

5 Production system and thematic area: Rainfed and Plant protection

6 Performance of the Technology with performance indicators : Results are not encouraging since crab damage was very minimum.

7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques : Best alternative to phorate

8 Final recommendation for micro level situation: - Yet to be assessed for one more year

9 Constraints identified and feedback for research: - Non availability of the mature randia fruits at the time of transplanting

10 Process of farmers participation and their reaction:.- Need to be assessed for another year

OFT-2

1 Title of Technology Assessed : Ecofriendly management of ear head bug in paddy

2 Problem Definition : Ear head bug damage to grains

3 Details of technologies selected for assessment : Spraying with Nimbecidine 300 ppm @ 3 ml/l, 2 sprays at 15 days interval

4 Source of technology : Successful preliminary trials conducted at ARS, Sirsi

5 Production system and thematic area: Rainfed and Plant protection

6 Performance of the Technology with performance indicators : Results are encouraging

7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques : Best alternative spray to chemicals at harvest stage of crop

8 Final recommendation for micro level situation: -

9 Constraints identified and feedback for research: -Method and time of spraying

10 Process of farmers participation and their reaction: Method demos and trainings, Residue free produce, neem spray is quiet effective in managing ear head bug damage to minimum level.

OFT-3

1 Title of Technology Assessed : Evaluation of Alternate crops for Summer

2 Problem Definition : Farmer are growing Paddy – Paddy a mono-cropping system which is not advisable . There is water shortage in later stages of crop growth and loss of soil health

3 Details of technologies selected for assessment : Inter crop of Maize and Cowpea during summer

4 Source of technology : UAS Dharwad

5 Production system and thematic area: Cropping System

6 Performance of the Technology with performance indicators : Maize + Cow pea has given higher net return of Rs 65290 /ha and total dry matter production of 20.61 t/ha with LER of 1.33 .

7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques : Maize + Cow pea is best alternate to Paddy and Sole Maize in Limited water availability situation

8 Final recommendation for micro level situation: - Yet to be assessed for one more year.

9 Constraints identified and feedback for research: - Bushy type variety of cow pea is to assessed

10 Process of farmers participation and their reaction: Trainings, Method Demonstrations, Field visit, Exposure Field visits

OFT-4

1 Title of Technology Assessed : Introduction of KMP-105 Short duration Paddy variety for Summer

2 Problem Definition : Farmers are growing Rashi variety which is of 120 -125 days duration during summer . It is facing problem of water shortage in later stages of crop growth.

3 Details of technologies selected for assessment : KMP-105 Short duration Variety for Summer. Duration of this Variety is 105 days

4 Source of technology : UAS Bangalore

5 Production system and thematic area: Varietal Introduction

6 Performance of the Technology with performance indicators : KMP-105 has recorded higher yield of 61.42 q/ha in 105 days duration

7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques : Farmers expressed good opinion about its Yield, duration and grain quality

8 Final recommendation for micro level situation: Growing of KMP-105 Variety for Summer Season

9 Constraints identified and feedback for research: Nil

10 Process of farmers participation and their reaction: Trainings, Method Demonstrations, Field visit, Exposure Field visits

OFT: 05

1. Title of Technology Assessed : Preparation of jackfruit leather
2 Problem Definition : Wastage and shelflife
3 Details of technologies selected for assessment : Drying with addition of preservative kms 0.1 gms/kg pulp plus heating the pulp to 70·
4 Source of technology : Dept.For International Development, UK
5 Production system and thematic area : Value Addition to soft pulped jackfruit which has no market.
6 Performance of the Technology with performance indicators: Good quality, more shelf life, more price
7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques : Good colour, flavor, taste
8 Final recommendation for micro level situation: Needs popularization, requires proper packaging and marketing know how
9 Constraints identified and feedback for research: nil
10 Process of farmers participation and their reaction: Good quality and fetches more price

OFT-6

1 Title of Technology Assessed : Production of Quality seedlings in Cardamom through CMS technology

2 Problem Definition : Non availability of quality seedlings and poor germination with higher cost of production

3 Details of technologies selected for assessment : Seedling production through CMS Technology

4 Source of technology : IIHR, Bangolore and refined by UAS D(KVK,Sirsi)

5 Production system and thematic area: Seeds and Seedling production

6 Performance of the Technology with performance indicators: Results Showed that the higher germination (94.88 %) with

100 % Survivablity and higher B:C of 34.0 :1

7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques : Expressed ood opinion on germination, survivability, cost of production and pest free seedlings
8 Final recommendation for micro level situation: -Seedling Production through CMS Technology
9 Constraints identified and feedback for research: - Nil
10 Process of farmers participation and their reaction: Method demonstration and Field visit and Farmers expressed good opinion about simple and low cost technology.

OFT 07

1 Title of Technology Assessed: Assessment of Fuel efficient eco friendly chulas

2 Problem Definition : Fuel efficiency & drudgery reduction

3 Details of technologies selected for assessment : Envirofit Chula,Selco Chula,Sampada Gasifier stove
4 Source of technology : Colarado University, USA
5 Production system and thematic area: Drudgery reduction technology
6 Performance of the Technology with performance indicators: Envirofit & selco model gave on par results & proved fuel efficient
7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques : By using envirofit & selco fuel efficiency can be made & cooking is fast. In sampada gasifier stove it is difficult to control the flame
8 Final recommendation for micro level situation: Envirofit & selco model gave good result
9 Constraints identified and feedback for research: Sampada gasifier stove it is difficult to control the flame
10 Process of farmers participation and their reaction: Farm women are happy to know about the technology

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:

PART V - FRONTLINE DEMONSTRATIONS

5.A. Summary of FLDs implemented during 2011-12

Sl. No.	Category	Farming Situation	Season and Year	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
									Proposed	Actual	SC/ST	Others	Total	
	Oilseeds	Residual Soil Moisture	Summer, 2013	Groundnut	TMV-2		ICM	ICM in groundnut	5	2	0	05	05	
	Pulses	Residual Soil Moisture	Summer 2013	Blackgram	DU-1		ICM	ICM in blackgram	10	10		14	14	
			Summer 2013	Greengram	Local		ICM	ICM in greengram	10	10		15	15	
	Cereals	Rainfed	Kharif 2012	Paddy	Abhilasha Jaya	-	ICM	ICM in paddy	10	10	0	17	17	
		Rainfed	Kharif 2012	Maize	-	CP-818 Sampanna DKC, All Rounder	INM&IWM	Integrated Nutrient and Weed Management in Maize	05	05	0	7	7	
	Fruit	Rainfed	Summer 2013	Mango	Alpanso, Panchami	Mallika	ICM	Integrated Crop Management and use of mango harvester	10	10	0	15	15	
	Spices and condiments	Rainfed	Summer 2013	Blackpepper	Local	-	Processing	Processing for quality black Pepper			0	15	15	
		Rainfed	Kharif 2012	Blackpepper	Local		IDM	Foot rot Management in Black Pepper	250 vines		0	10	10	
		Rainfed	Kharif 2012	Ginger			IPM	Management of rhizome rot in ginger		2.91	2	14	16	
	Commercial	Rainfed	Kharif 2012	Bt. Cotton		BG-II	IPM	IPM in Bt. Cotton	10	10	25	0	25	
	Plantation	Rainfed	Kharif 2012	Arecanut	Local		IPM	Management of arecanut root grubs through entomopathogenic fungi	800 palms	800 palms		16	16	
	Implements	Rainfed	Kharif 2012	Paddy	Jaya,MTU		Mechanization	Popularization and use of mechanizaed paddy transplanter as IGA through commodity groups	5	5	02	08	10	

5.A. 1. Soil fertility status of FLDs plots during 2011-12

- NIL

5.B. Results of Frontline Demonstrations

5.B.1. Crops

Crop	Name of the technology demonstrated	Variety	Hybrid	Farming situation	No. of Demo.	Area (ha)	Yield (q/ha)				% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
							Demo			Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
							H	L	A										
Oilseeds																			
Groundnut	ICM	TMV2	-	Residual moisture	05	2	13.50	9.75	12.40	9.00	37.78	18500	55800	37300	3.02	15750	40500	24750	2.57
Pulses																			
Black gram	ICM	DU-1		Residual Moisture	14	10	8.5	4.0	6.24	4.58	36.57	9096	21825	12779	2.41	7871	16025	8157	2.06
Green gram	ICM	Local		Residual Moisture	15	10	7.6	4.0	5.49	3.95	38.61	9086	21971	12886	2.4	8071	15814	7743	1.95
Cereals																			
Paddy	ICM in Paddy	Abhilash Jaya		Rainfed	17	10	100	60.2	71.27	58.14	22.58	51213	112369	61156	2.19	46960	92076	45116	1.9
Maize	INM & IWM in Maize		CP-818 Sampanna All rounder	Rainfed	7	5	90	46.8	61.54	51.34	19.87	36000	106466	70466	2.9	32600	89647	57047	2.7
Fruit	ICM	Alpanso, Panchami	Mallika	Rainfed	15	10	157.0	121.9	140.7	97.6	44.1	25000	150000	125000	6.0	20000	100000	80000	5.0
Blackpepper	Processing for quality black Pepper	Paniyur-1		Rain fed	15	15 nos	9.36	7.74	8.21	7.47	9.9	68850	328400	259550	4.77	59600	261450	201850	4.38
Blackpepper	Foot rot Management in Black Pepper	Paniyur-1		Rain fed	10	250 vines	9.16	7.25	8.28	6.39	29.58	69500	58600	289800	4.17	58600	2333650	105050	3.82
Ginger	Management of ginger rhizome rot	Himachal		Irrigated	16	2.91	90	60.5	76.35	60.28	26.66	184000	687150	503150	3.74	175000	512391	337391	2.93
Fibre crops like cotton	IPM in Bt. Cotton	-	BG-II	Rainfed	25	10	28.00	23.50	25.5	21.00	21.43	26000	107100	81100	4.12	28500	88200	59700	3.10
Arecanut	Organic based pest management	Local	-	Rainfed	16	800 palms	-	-	-	-	-	-	-	-	-	-	-	-	-

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

** BCR= GROSS RETURN/GROSS COST

H – Highest Yield, L – Lowest Yield A – Average Yield

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

FLD : ICM in Groundnut

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

Data on other parameters in relation to technology demonstrated		
Parameter with unit	**Demo**	**Check**
No. of pods/plant	15	10
% Leaf damage	1.50	5.0
No of spodoptera moths trapped	3.2 /trap	-

FLD : ICM in Black gram

Data on other parameters in relation to technology demonstrated		
Parameter with unit	**Demo**	**Check**
No. of Pods/plant	**20.09**	**15.81**
% Pod damage	0.2	1.50

FLD: ICM in Green gram

Data on other parameters in relation to technology demonstrated		
Parameter with unit	**Demo**	**Check**
No. of Pods/plant	**20.81**	**16.65**
Aphids	**low**	**Medium**
% Pod damage	negligible	negligible

FLD: ICM on Paddy

Data on other parameters in relation to technology demonstrated		
Parameter with unit	**Demo**	**Check**
No. of Tillers	**25**	**17**
Leaf Folder Incidence %	1.50-2.00	3.50-4.50
Blast incidence %	2.50	5.0-7.50
No of moths trapped	0.3/trap	**-**

FLD: INM & IWM in Maize

Data on other parameters in relation to technology demonstrated		
Parameter with unit	**Demo**	**Check**
Weed Count/m2	**13**	**118**
Weed control Efficiency	79.22	-

FLD: Proccessing for quality Black Pepper

Data on other parameters in relation to technology demonstrated		
Parameter with unit	**Demo**	**Check**
% Processing	**30.83**	**28.10**
% increase in processing	9.7	
Luster	Dark berries	Dull

FLD: Foot rot management in blackpepper

Data on other parameters in relation to technology demonstrated		
Parameter with unit	**Demo**	**Check**
%Disease Incedence	**0.6**	**22.81**

FLD: Management of rhizome rot in ginger

Data on other parameters in relation to technology demonstrated		
Parameter with unit	**Demo**	**Check**
% disease incidence	**2.38**	**23.4**
% Control	97.63	

FLD : Management of arecanut root grubs through entomopathogenic fungi

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

Data on other parameters in relation to technology demonstrated		
Parameter with unit	**Demo**	**Check**
% larval mortality	61.00	82.50

FLD : IPM in Bt. Cotton

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

Data on other parameters in relation to technology demonstrated		
Parameter with unit	**Demo**	**Check**
Aphids /3 leaves	0.30	2.50
Thrips /3 leaves	0.04	1.50
Shoot weevil %	0.4	1.80
Black arm %	2.50	5.50

FLD : ICM in Mango

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

Data on other parameters in relation to technology demonstrated		
Parameter with unit	**Demo**	**Check**
No of fruits / inflorescence	3.0	2.1
No. of flies trapped/ Trap	10.2	-

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

5.B.3. Fisheries – NIL-

5.B.4. Other enterprises - NIL-

5.B.5. Farm implements and machinery

Name of the implement	Cost of the implement in Rs.	Name of the technology demonstrated	No. of Demo	Area covered under demo in ha	Labour requirement in Mandays		% save	Savings in labour (Rs./ha)	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demo	Check			Gross cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Paddy Transplanter	6000/ha (Hiring cost)	Mechanized Paddy Transplanter	10	5	5	40	87%	2000	22550	78000/-	55450	3.45	23650	61500	37850	2.6

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

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

Data on other parameters in relation to technology demonstrated		
Parameter with unit	**Demo**	**Local**
No of tillers	53	37
Plant Height	112-115 cms	100-105 cms
Yield	65 q/ha	51.25q/ha

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

Sl.No.	Activity	No. of activities organised	Number of participants	Remarks
1	Field days	04	300	
2	Farmers Training	50	1163	
3	Media coverage			
4	Training for extension functionaries			
5	Others (Please specify)			

PART VI – DEMONSTRATIONS ON CROP HYBRIDS

Demonstration details on crop hybrids – NIL-

PART VII. TRAINING

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production										
Nursery management	1	30	0	30	5	5	10	35	5	40
Integrated Crop Management	2	45	3	48	4	0	4	49	3	52
Integrated Nutrient Management	3	41	14	55	4	0	4	45	14	59
Production of organic inputs	1	18	0	18	2	0	2	20	0	20
Others : Productivity enhancement in field crops	4	46	10	56	8	0	8	54	10	62
Horticulture										
a) Vegetable Crops										
Production of low value and high volume crop	2	40	25	65	2	3	5	42	28	70
b) Fruits										
d) Plantation crops										
Production and Management technology	3	50	2	52	7	0	7	57	2	59
e) Tuber crops										
f) Spices										
Production and Management technology	3	60	0	60	0	0	0	60	0	60
g) Medicinal and Aromatic Plants										
Soil Health and Fertility Management										
Production and use of organic inputs	1	7	3	10	0	0	0	7	3	10
Livestock Production and Management										
Dairy Management										
Poultry Management	1	5	4	9	9	0	9	14	4	18
Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	1	10	28	38	3	7	10	13	35	48
Value addition	4	90	53	143	14	13	27	104	66	170
Others (Post harvest technology)	1	33	6	39	4	0	4	37	6	43
Others (House hold food security)	1	12	4	16	1	1	2	13	5	18

Agril. Engineering										
Plant Protection										
Integrated Pest Management	3	49	7	56	3	0	3	52	7	59
Production of bio control agents and bio pesticides	2	0	0	0	70	16	86	70	16	86
Fisheries										
Production of Inputs at site										
Capacity Building and Group Dynamics										
Entrepreneurial development of farmers/youths	1	30	4	34	2	0	2	32	4	36
Agro-forestry										
TOTAL	**35**	**578**	**168**	**746**	**140**	**45**	**185**	**718**	**213**	**931**

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

Area of training	**No. of Courses**	**No. of Participants**								
		General			**SC/ST**			**Grand Total**		
		Male	**Female**	**Total**	**Male**	**Female**	**Total**	**Male**	**Female**	**Total**
Crop Production										
Integrated Farming	1	0	0	0	15	6	21	15	6	21
Nursery management	3	46	0	46	8	0	8	54	0	54
Integrated Nutrient Management	5	104	16	120	3	0	3	107	16	123
Others : Productivity enhancement in field crops	7	147	18	165	12	0	12	159	18	177
Horticulture										
a) Vegetable Crops										
b) Fruits										
c) Ornamental Plants										
d) Plantation crops										
Production and Management technology										
Processing and value addition	1	15	0	15	0	0	0	15	0	15
e) Tuber crops										
f) Spices										
Processing and value addition	1	26	0	26	0	0	0	26	0	26
g) Medicinal and Aromatic Plants										
Soil Health and Fertility Management										
Management of Problematic soils	1	21	11	32	0	0	0	21	11	32
Livestock Production and Management										
Poultry Management	2	0	0	0	46	8	54	46	8	54
Home Science/Women empowerment										
Value addition	6	13	84	97	19	24	43	32	108	140
Women empowerment	1	0	0	0	8	5	13	8	5	13
Agril. Engineering										
Plant Protection										
Integrated Pest Management	6	97	35	132	30	2	32	127	37	164
Bio-control of pests and diseases	4	18	7	25	15	5	20	33	12	45
Fisheries										

Production of Inputs at site										
Apiculture	1	0	0	0	14	7	21	14	7	21
Capacity Building and Group Dynamics										
Entrepreneurial development of farmers/youths	1	8	3	11	0	0	0	8	3	11
Agro-forestry										
TOTAL	**40**	**495**	**174**	**669**	**170**	**57**	**227**	**665**	**231**	**896**

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
Production of organic inputs	1	24	1	25	0	0	0	24	1	25
Poultry production	1	0	0	0	38	2	40	38	2	40
Othe: Entrepreneurial development of farmers/youths	2	41	17	58	2	0	2	43	17	60
TOTAL	**4**	**65**	**18**	**83**	**40**	**2**	**42**	**105**	**20**	**125**

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
Others : Processing and value addition	1	0	31	31	0	0	0	0	31	31
Others : Production and management technology	3	60		60	0	0	0	60	0	60
Total	**4**	**60**	**31**	**91**	**0**	**0**	**0**	**60**	**31**	**91**

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Production and use of organic inputs	1	20	15	35	4	1	5	24	16	40
Total	**1**	**20**	**15**	**35**	**4**	**1**	**5**	**24**	**16**	**40**

7.G. Sponsored training programmes conducted

S.No.	Area of training	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
1	**Crop production and management**										
1.a.	Increasing production and productivity of crops	1	20	0	20	2	0	2	22	0	22
2	**Production and value addition**										
3.	**Soil health and fertility management**										
4	**Production of Inputs at site**										
5	**Methods of protective cultivation**										
6	**Others (pl.specify)**										
7	**Post harvest technology and value addition**										
8	**Farm machinery**										
8.a.	Farm machinery, tools and implements										
8.b.	Others : Entrepreneurial development of farmers/youths	2	41	17	58	2	0	2	43	17	60
9.	**Livestock and fisheries**										
10	**Livestock production and management**										
11.	**Home Science**										
12	**Agricultural Extension**										
	Total	**3**	**61**	**17**	**78**	**4**	**0**	**4**	**65**	**17**	**82**

Details of sponsoring agencies involved

1. ATMA : 01 programme on karif agriculture

2. Coconut Board, Bangalore : 02 programmes on coconut climbers & plant protection in coconut

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

S.No.	Area of training	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
1	**Crop production and management**										
1.a.	Commercial floriculture										
1.b.	Commercial fruit production										
1.c.	Commercial vegetable production										
1.d.	Integrated crop management										
1.e.	Organic farming										
1.f.	Others (pl.specify)										
2	**Post harvest technology and value addition**										
2.a.	Value addition	7	0	108	108	0	30	30	0	138	138
2.b.	Others (pl.specify)										
3.	**Livestock and fisheries**										
3.a.	Dairy farming										
3.b.	Composite fish culture										
3.c.	Sheep and goat rearing										
3.d.	Piggery										
3.e.	Poultry farming										
3.f.	Others (pl.specify)										
4.	**Income generation activities**										
4.a.	Vermi-composting										
4.b.	Production of bio-agents, bio-pesticides, bio-fertilizers etc.										
4.c.	Repair and maintenance of farm machinery and implements										
4.d.	Rural Crafts										
4.e.	Seed production										
4.f.	Sericulture										
4.g.	Mushroom cultivation										
4.h.	Nursery, grafting etc.										
4.i.	Tailoring, stitching, embroidery, dying etc.										
4.j.	Agril. para-workers, para-vet training										
4.k.	Others:Economic empowerment of women	3	0	60	60	0	5	5	0	65	65
5	**Agricultural Extension**										
5.a.	Capacity building and group dynamics										
5.b.	Others (pl.specify)										
	Grand Total	**10**	**0**	**168**	**168**	**0**	**35**	**35**	**0**	**203**	**203**

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	04	222	38	260	0	0	0	06	0	6
Kisan Mela	01	450	180	630	0	0	0	80	15	95
Kisan Ghosthi	08	2396	1493	3889	0	0	0	123	36	159
Exhibition	06	3730	2075	5805	0	0	0	170	108	278
Film Show	08	104	15	119	20	21	41	12	3	15
Method Demonstrations	33	289	41	330	43	15	58	02	0	02
Farmers Seminar										
Workshop										
Group meetings	2	13	01	14	0	0	0	0	0	0
Lectures delivered as resource persons	58	2222	964	3186	0	0	0	142	57	199
Newspaper coverage	17									
Radio talks	5									
TV talks	4									
Popular articles	2									
Extension Literature										
Advisory Services	203	320	18	338	0	0	0	12	03	15
Scientific visit to farmers field	169	164	05	169	0	0	0	0	0	0
Farmers visit to KVK	288	350	15	365	0	0	0	0	0	0
Diagnostic visits	78	124	10	134	0	0	0	016	8	24
Exposure visits	04	40	20	60	10	05	15	19	03	21
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 (specify)										
Any Other (KMAS)	17	2505	503	3008	0	0	0	390	85	475
Farmers seminar/workshop	01	380	75	455	0	0	0	20	5	25
Total	**909**	**13277**	**5453**	**18730**	**73**	**41**	**114**	**992**	**323**	**1314**

PART IX – PRODUCTION OF SEED, PLANT AND LIVESTOCK MATERIALS

9.A. Production of seeds by the KVKs

Crop category	Name of the crop	Variety	Hybrid	Quantity of seed (qtl)	Value (Rs)	Number of farmers to whom provided
Cereals (crop wise)	Paddy	Intan		30	-	-
		Abhilash		600	-	-
		Jaya		240	-	-
		KMP 105		55	-	-
	Maize	SA-Tall		45	-	-
Total				**970**		

9.B. Production of planting materials by the KVKs

Crop category	Name of the crop	Variety	Hybrid	Number	Value (Rs.)	Number of farmers to whom provided
Commercial						
Vegetable seedlings	Brinjal			975	1950	38
	Capsicum			1170	2340	38
Fruits	Papaya			475	2375	19
Ornamental plants						
Medicinal and Aromatic						
Plantation						
Spices	Blackpepper			990	9900	38
Tuber						
Fodder crop saplings						
Forest Species						
Others: Flower	Marigold			5850	36075	38
Total						

9.C. Production of Bio-Products

Bio Products	Name of the bio-product	Quantity Kg	Value (Rs.)	Number of farmers to whom provided
Bio Fertilizers				
Bio-pesticide				
Bio-fungicide				
Bio Agents				
Others : Rooting Hormone	IBA	8kg	11375	325
Total				

9.D. Production of livestock materials – NIL-

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

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

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

(B) Literature developed/published

Item	Title	Authors name	Number
Research papers			
Technical reports			
News letters	April-June	Dr. Roopa S Patil Vinuta U Muktamath Shivashenkaramurthy	100
	July-September	Dr. Roopa S Patil Vinuta U Muktamath Shivashenkaramurthy	100
	October-December	Shivashenkaramurthy M Annapoorma F N Dr Roopa Patil	100
Technical bulletins	Bio-digester	Shivashenkaramurthy M Dr.Praveen Goroji Dr Roopa Patil Vinuta U Muktamath	1000
Popular articles			
	Beejopachara: Bhattada Benki Rogakke maddu	Ravikumar, M. R.and Roopa S. Patil	
	Bale Bhadisuva Keetagala Nirvahane	Roopa S. Patil and Ravikumar, M. R.	
Extension literature	Maize Production Technologies -Pamplets	Shivashenkaramurthy M Dr Roopa Patil	2000
	Krishi Vigyan Kendra Uttar Kannada Sirsi Kiruparichaya	Muktamath, V. U., Neeralagi, A. F., Patil, R. S. and Shivashenkarmurthy, M.,	
	Bhattadalli Yantrikrata Nati	Muktamath, V. U., Patil, R. S. and Shivashenkarmurthy, M., and Ravikumar, M. R.	
	Bhattada Sasi Madiyalli Roga Nirvahane	Ravikumar, M. R., Shivashenkarmurthy, M., Muktamath, V. U, and Patil, R. S.	
	Baleya Utpadana Tantrikategalu	Ravikumar, M. R., Manjunatha, G. O., Patil, R. S., Mitrannavar, D. H. and Muktamath, V. U.	
	Koole Kabbina Nirvahane	Yenagi, B. S., Pattar, P. S., narabenchi, N., Yadalli, K. B.,Veeranna, R and Patil, R. S.	
	Tengina pramukha keeta hagoo rogala nirvahane	Patil, R. S., Agasimani, A. D., Shivashenkarmurthy, M. and Ravikumar, M. R.,	90
	Karavali Shenga beleya Utpadana tantrikategalu.	Patil R. S., Shivashenkarmurthy, M. Agasimani, A. D. and Goroji, P. T.,	
Others (Pl. specify)			
TOTAL			

10.B. Details of Electronic Media Produced

S. No.	Type of media (CD / VCD / DVD/ Audio-Cassette)	Title of the programme	Number
01	DVD	Advanced Production Technologies in Blackpepper	20
02	DVD	IFS Programmes	50

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

Title : Sustainable agriculture through Integrated Farming System

Background :

Shri Ganapathi Telagund , is a farmer who resides in Hebbatti villages of Sirsi Taluka. He is one who adopts the new technologies and innovates the technologies to make the agriculture more profitable. Basically he is SSLC passed and is in continuous touch with Dpt. Of Agriculture , KVK and other progressive farmers of the region to acquires the latest available technologies in the agriculture. With his hard work and efforts he has succeeded in improving the yields and profits every year.

He has 12 ha of land of which 8 ha is irrigated. He irrigates his crops with the help of 4 borewells and one farm pond. He mainly grows paddy, cowpea, arecanut, coconut, banana, ginger , pineapple. Not only agri and horti crops but also has planned agro forestry system with teak, glyricidia, cashew, bamboo around the entire farm . He manages a small dairy with 2 buffaloes and 2 cattles, the dairy serves the nutrition needs of the house and provides inputs to the bio gas unit and manures. He has poultry unit with 20 hens. In his farm pound he has cultured fish, which serves the family needs. In total he has successfully adopted the IFS module of agriculture.

Interventions

- **New Technologies developed**

Innovative Technology for stem injection in Banana:

Panama wilt causes extensive losses to farmers. KVK had recommended stem injection with fungicide. The chemical control measure is quite effective, however the method of injecting using bamboo splinter and injecting through syringe is cumbersome and labourious. Hence I along with my farmer friends have adopted an innovative method by using gutter sprayer to inject the required quantity of chemical. The technology is not only cost effective but involves less drudgery and gives cent percent control of the disease.

- **New Technologies adopted in Farming**
    - Micronutrients are liquefied and given to the crop through sprinklers thus saving the time, cost and labour.
    - Integrated weed management practices are adopted using sequential methods of spraying of weedicides, weeding through power weeders etc.
    - Injecting the referred chemical to manage panama disease in banana through gutter sprayers.
    - Use of power tiller for tilling the land
    - Micro irrigation for water saving, which helped in increasing the area under irrigation.

Impact

Horizontal Spread:

- Using boosting dose of banana special has substantially increased the banna yield by 10-12% . After seing the effect of this technology fellow farmers in the village have started adopting this technology.

- Innovative technology of stem injection has been simplified by fitting the syringe to the gutter sprayer for effective spread of pp chemical in the plant . This technology has also been adopted by many of the banana growers in surrounding villages.
- The technology of surface planting of pineapple is now popular among the farmers as it is convenient and are adopting this technology

Economic gains:

Productivity Levels achieved in major income generating activity during the last five years.

Year	Crop	Area(ha)	Yield(Qtl)	Rate/qtl	Gross Income	Expenditure	Profit
2007-08	Paddy	4	200	800	160000	80000	80000
	Pineapple	1	400	1000	400000	100000	300000
	Ginger	1	250	900	225000	75000	150000
	Banana {Mitli -Inter crop}	2	390	800	312000	100000	212000
	Banana {G-9}	1	500	500	250000	100000	150000
2008-09	Paddy	4	180	900	162000	70000	92000
	Pineapple	1	300	1200	360000	60000	300000
	Ginger	1	200	2000	400000	80000	320000
	Banana {G-9}	1	400	400	160000	50000	110000
	Banana {Mitli -Inter crop}	2	345	900	310500	80000	230500
	Areca nut	1.1	100	1000	100000	20000	80000
2009-10	Paddy	4	200	1000	200000	80000	120000
	Pineapple	1	300	1200	360000	60000	300000
	Ginger	1	150	2400	360000	100000	260000
	Banana {G-9}	1	400	600	240000	60000	180000
	Banana {Mitla -Inter crop}	3	600	600	520000	120000	400000
	Areca nut	1.1	150	1200	180000	40000	140000
2010-11	Paddy	4	210	1000	210000	70000	140000
	Pineapple	1.5	500	1300	650000	200000	450000
	Ginger	1	150	2000	300000	100000	200000
	Banana {G-9}	1	250	600	150000	30000	120000
	Banana {Mitla -Inter crop}	3.1	330	1300	429000	50000	379000
	Areca nut	1.1	150	1300	195000	35000	160000

2011-12	Paddy	4	200	1250	250000	100000	150000
	Pineapple	1.5	400	1400	560000	200000	360000
	Ginger	1	150	2000	300000	100000	200000
	Banana {G-9}	1	400	700	280000	80000	200000
	Banana {Mitla -Inter crop}	2	200	2000	400000	80000	320000
	Areca nut	1.1	140	1600	224000	24000	200000

Adoption of the following technologies have effected the productivity, profitability and sustainability – enhancement.

- **Adoption of drip and sprinkler irrigation system:** Earlier all the crops were irrigated through cannel from the open well by lifting through diesel engines and from form ponds. Now I have adopted drip and sprinkler irrigation system from all horticultural crops.
- Supplying nutrients through foliar spray and fertigation
- Use of weeder implements for control of weeds in horticultural crops
- Management of Panama wilt in Banana through advanced technology like stem injection
- Use of power tillers for land preparation in paddy crops.
- Soil test based fertilizer application to pepper, banana, ginger and paddy crops
- Use of good planting materials especially banana tissue culture G-9.
- Use of organic manure like FYM, compost and recommended dose of fertilizers.
- Adoption of mulching in arecanut crop
- Surface planting of pineapple instead of trench planting.
- Multistoried cropping in arecanut with cardamom and banana
- Adoption of agroforestry system, agri-horti-silvi pasture system.
- Adoption diversified cropping system like arecanut,mango,sapota,pinapple,banana,paddy.
- Scientific dairying
- Biogas plant
- Growing of leguminous crops/pulses in the cropping system
- Use of biopesticides , biodigester extraction for pest and disease management
- Foliar spray of nutrients and micronutrienting like banana special in banana crops

The UAS,Dharwad has recognized and honoured him with " Shreshtha Krishika Award for the Year 2012-13 ". G-9 Banana has won second prize for "Best Banana Fruit Bunch" in "Western Ghats Banana bio diversity mela " organized at Sirsi on 17-12-2012.

Ganapathi Telagund, has showed the farming community that how the Integrated Farming System is sustainable and profitable. He has set an example for other farmers.

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

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

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK
1	Banana	Covering banana bunch with Mesh to protect from monkey	To protect from monkey
2	Maize	Tying 5 inche tape all around the plot	To protect from animals

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

- Identification of courses for farmers/farm women
  - PRA
  - Field visit
  - Diagnostic Field visit
  - Focus group discussion
  - Farmers Visit KVK
  - Discussion with Department Official
- Rural Youth
  - Focus group discussion
  - Individual contact
- Inservice personnel
  - Group Meetings
  - Diagnostic Field visit

10.G. Field activities

i. Number of villages adopted :
Nurkulkoppa & Achnalli of Sirsi Taluka, Borihonda, Nandibhavi of Yellapur Taluka

ii. No. of farm families selected : 38

iii. No. of survey/PRA conducted : PRA: 04 , Survey : 03

10.H. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab :Non Functional

1. Year of establishment :2004
2. List of equipments purchased with amount :

Sl. No	Name of the Equipment	Qty.	Cost
1	pH meter	1	8,000
2	EC meter	1	8,000
3	Kjeldhal N distillation Unit	1	1,00,000
4	Plant Sample digestion Unit (Kjeldhal)	1	1,00,000
5a	Distillation Unit (Glass double)-5L / hr	1	10,000
5b	Distillation Unit (Glass double)-1 L/hr	2	10,000
6	Spectrophotometer	1	40,000
7	Flame photometer	1	40,000
8	Hot Air Ovn	1	20,000
9	Willey mill (Plant sample Grinder)	1	25,000
10	Hot plate	1	10,000
11	Horizantal Shaker	1	15,000
12. a	Weighing Balance (Cap 500 g, Acc 0.1 g)	1	5,000
12. b	Weighing Balance (Cap 100 g, Acc 0.001 g)	1	25,000
Total		**15**	**4,16,000**

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	**837**	**646**	**157**	**147483**
Water Samples	**165**	**165**	**108**	
Plant samples	**-**	**-**	**-**	
Manure samples	**-**	**-**	**-**	
Others (specify)	**23**	**23**	**23**	
Total	**1025**	**834**	**288**	

Details of samples analyzed during the 2012-13 :

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)
Soil Samples	**37**	**37**	**10**	
Water Samples				
Plant samples				
Manure samples				
Others (specify)				
Total	**37**	**37**	**10**	

Note : Soil samples were analysed through MCF,Hubli

10.I. Technology Week celebration during 2011-12 Yes/No, If Yes : NO

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

Other Details

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

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)
Dopag nursery method in Paddy	**12**	**100 %**		
Mechanization in Paddy Transplanting	150	20 %		
Management of Stem borer and Root Rot through Health Campaign	25	96		
IFS	38	100%		
Water Management in Maize during summer	12	100 %		
Management of Micronutrient deficiency and Panama Wilt in Banana	1	100 %		
Management of nutrient deficiency in Paddy	50	100 %		
Climbing coconut through equipments	80	100 %	Climbing without equipment	Climbing with equipment
Azolla cultivation	45	11 %		
CMS Technology in Pepper	48	60 %		
Foliar application of nutrient in Paddy	60	75 %		
Management of Rhizome Rot in Ginger	27	100 %		

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

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

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

S. NO	Problems	Extension methods to solve problems	Method of Impact study and analysis	Impact	Impact Indicator
1	Micro nutrient deficiency in Banana and Panama wilt	Diagnostic Field Visit Individual Contact Method Seminars Phone calls	Field visit and Observation Phone calls	Banana crop was completely recovered from the problem	Farmer received the second prize at Taluk level in banana cultivation
2	Stem borer and Root rot in Maize in Gudnapua Village (more than 100 acre affected)	Maize Health Campaign Group Discussion Diagnostic Field Visit Advisory to Raita Samparka Kendra FLD Individual Contact Method Phone calls	Focus Group discussion Field visit and Recording Observation	All the maize plots except one armers plot (4 acre) were recovered from problem (96 % Success)	Crop Stand and Increased yield
3	Nutrient deficiency in Paddy in Santholli, Bhasi and Gudnpaura	Diagnostic Field Visit Advisory to Raita Samparka Kendra FLD Individual Contact Method Phone calls	Field visit and Observation Phone calls	All the paddy plots were recovered	Crop Stand and Increased yield
4	Water logging Problem in 12 farmers field (15 acre) Maize during summer at Gudnapura	Diagnostic Field Visit Advisory to Raita Samparka Kendra Individual Contact Method Phone calls	Focus Group discussion Field visit and Recording Observation	All the plots were recovered	
5	Labour problem in Ground nut pod stripping	Adoptive research Method demonstrations Trainings Field days	Focus Group discussion Field visit and Recording Observation Phone calls	• Farmers expressed good opinion about the performance of the machine during demonstration. • A farmer Shri. Narendra Petegowda from Kantraji stripped 5 Acres groundnut through this machine	Farmer from Holanagadde adopted this model Hon'ble Vice chancellor UAS Dharwad agreed to Fund give further development and submitted the proposal.
6	Rhizome Rot in Ginger	Diagnostic Field Visit Group discussion Advisory to Raita Samparka Kendra Individual Contact Method Phone calls	Focus Group discussion Field visit and Recording Observation Phone calls	All the plots were completely (100 %) recovered	Crop Stand and Increased yield

PART XII - LINKAGES

12.A. Functional linkage with different organizations

Name of organization	Nature of linkage
Sri Kshetra Dhrmastala Grameenabhivrudhi Yojane (SKDRDP)	Training, Field visits, Method demonstration, Seminars.
State Dept. of Agriculture	Trainings, demonstrations, seminars and field days.
State Dept. of Horticulture	Training programmes, demonstrations, seminars and field days, NHM Activities.
Thotagar's Service Soceity, 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
Rotary / Lions club / Junior chamber	Trainings
BAIF, Institute for rural development	Exposure Visits
Water shed department	Trainings.
All India Radio, E-TV and Door Darshan	Publicity and transfer of technology
Kadamba charitable trust, Sirsi	Trainings, method demonstration, meetings , Seminars.
Snehakunja Charitable Trust, Honnavar	Training & method demonstration.
Farmers clubs	Trainings, demonstrations, seminars and field days.
SRIJAN NGO	Conducting FLD, Seed Production, Trainings and Field Visit and Field days
Udaya News and Chetan News TV Channals	Publicity
MANAVA VIKAS NGO	Field days and Field visits

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

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

Name of the scheme	Date/ Month of initiation	Funding agency	Amount (Rs.)
National anola campaign	July 2010	IIHR, Bangalore	113000
Empowerment of SC farm house holds in agriculture zones of northern Karnataka	April 2009	Dept of Agriculture, Govt of Karnataka	2856285
Empowerment of ST farm house holds in agriculture zones of northern karnataka	April 2009	Dept of Agriculture, Govt of Karnataka	1712611
ATMA Short Term Research	Summer 2013	ATMA Uttarakannada	1,00,000
Coconut Climbing and PlantProtection	December 10-15 2012 March 11-16 2013	Coconut Development Board	72500 139000
Post harvest handling and value addition of cocoa a venture for women SHG entrepreneurs of Uttara Kananda District	2012-13	Directorate of coco and cashew board	326000

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 2012-13

S. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK	Other remarks (if any)
01	Meetings	ATMA Advisory Committee meeting held on 22.08.2013 at Karwar DC office under chairmenship of CEO, Zilla Panchayat, Karawar	1	-	-
		ATMA Advisory Committee meeting held on 19.10.2012 at Yellapura	1	-	
		Meeting held on 04.12.2012 at ADA office, sirsi under chairmenship of JDA, Karawar and discussed about conducting District level Krishi Mahiti Karagara.	1	-	
		ATMA advisory meeting held on 12.02.2013 at ZP Office	1		
02	Research projects	Sort term research Projects	5	5	-
		1.Assessing Ground nut varieties for salinity	1	1	
		2. Developing Ground nut stripper	1	1	
		3. Management of Earhead bug in Paddy	1	1	
		4. Cocoa Value addition	1	1	
		5. Assessing Vegetables for Summer	1	1	
03	Training programmes	Nutrient management in Paddy on organized by ADA, Yellapura on 07.09.2013	2	1	-
		Safety use of agriculture chemicals			
04	Demonstrations	-			
05	Extension Programmes				

	Kisan Mela	'Krishi Maahiti Saptaaha' organized by ADA, Ankola at Ankola on 10.10.2012			
		Attended the Farmers Scientist Interaction workshop during programme Krishi Maahiti Karagara organized at Haliyala taluk on 28.12.2012			
		Kirishi Maahiti Karagara organized by ADA, Siddapura on 05.01.2013			
	Technology Week				
	Exposure visit	1	1	1	
	Exhibition	Krishi Maahit Karagara orgaised at Sirsi on 17.12.2012			
	Soil health camps				
	Animal Health Campaigns				
	Diagnostic Field visit	Diagnostic field visit to Paddy plot at Santholli, Bachanake, Gudnapura village along with ADA & AO of Concerned Taluk	9	-	
	Method Demonstration	Safety use of agriculture chemicals			
06	Publications				
	Video Films				
	Books				
	Extension Literature				
	Pamphlets				
	Others (Pl. specify)				
07	Other Activities (Pl. specify)				
	Watershed approach				
	Integrated Farm Development				
	Agri-preneurs development				
	Recruitment	ATMA Staff Selection committee member and attended on 13.09.2012 to select BTM Posts held at JDA office, Karawar			

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

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

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

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

12.F. Details of linkage with RKVY

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

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 2012	04	625	
May 2012	05	682	
June 2012	05	682	
July 2012	02	682	
August 2012	01	682	
September 2012	0	0	
October 2012	05	682	
November 2012	01	720	
December 2012	05	800	
January 2013 (Voice SMS Introduced)	06	1400	
February 2013	08	1400	
March2013	0		

PART XIII- PERFORMANCE OF INFRASTRUCTURE IN KVK

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

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

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

Name of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.	Cost of inputs	Gross income	
Cereals									
Paddy	18.06.2012	10.12.2012	0.6	Intan	Seed	27.75		52,075	Sold as Bulk
Pulses									
Black gram	05.02.2013	20.04.2013	0.6	TAU-1	Breeder Seed	2.0			Not Sold
Oilseeds									
Fibers									
Spices & Plantation crops									
Cashew									
Floriculture									
Fruits									
Sapota									
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)

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

13.E. Utilization of hostel facilities

Accommodation available (No. of beds)

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
April 2012	04	05	
May 2012	06	7	
June 2012	5	12	
July 2012	4	15	
Aug 2012	8	13	
Sep 2012	7	14	
Oct 2012	5	12	
Nov 2012	11	44	
Dec 2012	20	83	
Jan 2013	10	23	
Feb 2013	25	33	
Mar 2013	114	328	

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		Others

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(General)	SBI	Sirsi	917	PC,KVK,Sirsi	30157809532		SBIN0000917

14.B. Utilization of KVK funds during the year 2012-13 (Rs. in lakh)

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	**Pay & Allowances**	5405000	5405000	4511675
2	**Traveling allowances**	130000	130000	130000
3	**Contingencies**			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	275000	275000	272903
B	POL, repair of vehicles, tractor and equipments	200000	200000	197809
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	70000	70000	60866
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	75000	75000	37174
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	260000	260000	240808
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	15000	15000	10135
G	Training of extension functionaries	25000	25000	5720
H	Maintenance of buildings	25000	25000	23483
I	Extension Activities	25000	25000	21734
J	FFS	25000	25000	20128
k	Library	5000	5000	3938
TOTAL (A)		**6535000**	**6535000**	**5536373**
B. Non-Recurring Contingencies				
1	**Works**			
2	**Equipments including SWTL & Furniture**			
3	**Vehicle** (Four wheeler/Two wheeler, please specify)			
4	**Library** (Purchase of assets like books & journals)			
TOTAL (B)				
C. REVOLVING FUND				
GRAND TOTAL (A+B+C)		**6535000**	**6535000**	**5536373**

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

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 1st April of each year
April 2010 to March 2011	247597	213882	287922	173557
April 2011 to March 2012	173557	420913	229875	364595
April 2012 to March 2013	364595	291336	473994	181937

15. Details of HRD activities attended by KVK staff during 2012-13

Name of the staff	Designation	Title of the training programme	Institute where attended	Dates
Dr.Roopa S Patil	SMS(Agril.Ent)	Training programme on bio informatics methods and approaches for insect research	NBAII,Bangalroe	19-Nov-12 - 1-Dec-12
		Use of agropedia,vkvk and enet in agriculture	**UAS,Dharwad**	6-Dec-12 – 6-Dec-12
		Winter school on " New frontiers in IPM in Rice and Rice based cropping systems	**DRR, Hyderabad**	13.9.2012 to 3.10.2012
Shri. Shivashenkarmurthy M.	SMS(Agronomy)	Use of agropedia,vkvk and enet in agriculture	UAS,dharwad	6-Dec-12 – 6-Dec-2012
		Training methods for trainers	UAS,Bangalore	17-Dec-12 - 20-Dec-2012
		Participatory Impact Monitoring Assessment(PIMA)	Myrada KVK,Erode	28-Jan-13 – 2-Feb-2013
		Process documentation skills for information management	UAS, Dharwad	12-Mar-13- 15-Mar-2013
Ms. Akkamahadevi Agasimani	SMS(Horticulture)	Orientation programme	Tuticorin, SCAD KVK	8-Jan-2013 11-Jan-2013
Smt. Annapurna F Neeralgi	Programme Assistant(Comp)	Use of agropedia,vkvk and enet in agriculture	UAS,Dharwad	6-Dec-12 – 6-Dec-12

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

SUMMARY FOR 2011-12

I. TECHNOLOGY ASSESSMENT

Summary of technologies assessed under various crops

Thematic areas	Crop	Name of the technology assessed	No. of trials
Integrated Nutrient Management			
Varietal Evaluation	Paddy	Introduction of KMP 105 short duration paddy variety for summer	05
Integrated Pest Management	Paddy	Eco friendly Management of Crabs in Paddy	01
		Eco friendly Management of ear head bug in Paddy	05
Seed / Plant production	Cardamom	Production of quality seedlings in cardamom through CMS technology	05
Cropping System	Maize+cowpea	Evaluation of alternate crops during summer season	05
Total			**21**

Summary of technologies assessed under livestock – NIL-

Summary of technologies assessed under various enterprises – Nil-

Summary of technologies assessed under home science

Thematic areas	Enterprise	Name of the technology assessed	No. of trials
Value addition	Jackfruit	Preperation of jackfruit elather	05
Drudgery Reduction	Chula	Assessment of fuel efficient ecofriendly chula	05
			10

II. TECHNOLOGY REFINEMENT – NIL-

Summary of technologies refined under various crops

Summary of technologies assessed under refinement of various livestock

Summary of technologies refined under various enterprises
Summary of technologies refined under home science

III. FRONTLINE DEMONSTRATION

Crops

Crop	Name of the technology demonstrated	Variety	Hybrid	Farming situation	No. of Demo.	Area (ha)	Yield (q/ha)				% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
							Demo			Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
							H	L	A										
Oilseeds																			
Groundnut	ICM	TMV2	-	Residual moisture	05	2	13.50	9.75	12.40	9.00	37.78	18500	55800	37300	3.02	15750	40500	24750	2.57
Pulses																			
Black gram	ICM	DU-1		Residual Moisture	14	10	8.5	4.0	6.24	4.58	36.57	9096	21825	12779	2.41	7871	16025	8157	2.06
Green gram	ICM	Local		Residual Moisture	15	10	7.6	4.0	5.49	3.95	38.61	9086	21971	12886	2.4	8071	15814	7743	1.95
Cereals																			
Paddy	ICM in Paddy	Abhilash Jaya		Rainfed	17	10	100	60.2	71.27	58.14	22.58	51213	112369	61156	2.19	46960	92076	45116	1.9
Maize	INM & IWM in Maize		CP-818 Sampanna All rounder	Rainfed	7	5	90	46.8	51.34	51.34	19.87	36000	106466	70466	2.9	32600	89647	57047	2.7
Blackpepper	Processing for quality black Pepper	Paniyur-1		Rain fed	15	15 nos	9.36	7.74	8.21	7.47	9.9	68850	328400	205550	4.77	59600	261450	201850	4.3
Blackpepper	Foot rot Management in Black Pepper	Paniyur-1		Rain fed	10	250 vines	9.16	7.25	8.28	6.39	9.7	69500	58600	289800	4.17	58600	2333650	105050	3.82
Ginger	Management of ginger rhizome rot	Himachal		Irrigated	16	2.91	90	60.5	76.35	60.28	22.5	184000	687141	503141	3.74	175000	512391	337391	2.93
Fibre crops like cotton	IPM	-	Bt Cotton	Rainfed	25	10	28.00	23.50	25.5	21.00	21.43	26000	107100	81100	4.12	28500	88200	59700	3.10
Arecanut	Organic based pest management	Local	-	Rainfed	16	800 palms	-	-	-	-	-	-	-	-	-	-	-	-	-

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		% save	Savings in labour (Rs./ha)	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demo	Check			Gross cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Paddy Transplanter	6000/ha (Hiring cost)	Mechanized Paddy Transplanter	10	5	5	40	87 %	2000	22550	78000 /-	55450	2.5	23650	61500	37850	1.6

Other enterprises

Demonstration details on crop hybrids

IV. Training Programme

PART VII. TRAINING

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production										
Nursery management	1	30	0	30	5	5	10	35	5	40
Integrated Crop Management	2	45	3	48	4	0	4	49	3	52
Integrated Nutrient Management	3	41	14	55	4	0	4	45	14	59
Production of organic inputs	1	18	0	18	2	0	2	20	0	20
Others : Productivity enhancement in field crops	4	46	10	56	8	0	8	54	10	62
Horticulture										
a) Vegetable Crops										
Production of low value and high volume crop	2	40	25	65	2	3	5	42	28	70
b) Fruits										
c) Ornamental Plants										
d) Plantation crops										
Production and Management technology	3	50	2	52	7	0	7	57	2	59
e) Tuber crops										
f) Spices										

Production and Management technology	3	60	0	60	0	0	0	60	0	60
g) Medicinal and Aromatic Plants										
Soil Health and Fertility Management										
Production and use of organic inputs	1	7	3	10	0	0	0	7	3	10
Livestock Production and Management										
Dairy Management										
Poultry Management	1	5	4	9	9	0	9	14	4	18
Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	1	10	28	38	3	7	10	13	35	48
Value addition	4	90	53	143	14	13	27	104	66	170
Others (Post harvest technology)	1	33	6	39	4	0	4	37	6	43
Others (House hold food security)	1	12	4	16	1	1	2	13	5	18
Agril. Engineering										
Plant Protection										
Integrated Pest Management	3	49	7	56	3	0	3	52	7	59
Production of bio control agents and bio pesticides	2	0	0	0	70	16	86	70	16	86
Fisheries										
Production of Inputs at site										
Capacity Building and Group Dynamics										
Entrepreneurial development of farmers/youths	1	30	4	34	2	0	2	32	4	36
Agro-forestry										
TOTAL	**35**	**578**	**168**	**746**	**140**	**45**	**185**	**718**	**213**	**931**

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production										
Integrated Farming	1	0	0	0	15	6	21	15	6	21
Nursery management	3	46	0	46	8	0	8	54	0	54
Integrated Nutrient Management	5	104	16	120	3	0	3	107	16	123
Others : Productivity enhancement in field crops	7	147	18	165	12	0	12	159	18	177
Horticulture										
a) Vegetable Crops										
b) Fruits										
c) Ornamental Plants										
d) Plantation crops										
Processing and value addition	1	15	0	15	0	0	0	15	0	15
e) Tuber crops										
f) Spices										
Processing and value addition	1	26	0	26	0	0	0	26	0	26
g) Medicinal and Aromatic Plants										
Soil Health and Fertility Management										
Management of Problematic soils	1	21	11	32	0	0	0	21	11	32
Livestock Production and Management										
Dairy Management										
Poultry Management	2	0	0	0	46	8	54	46	8	54
Home Science/Women empowerment										
Value addition	6	13	84	97	19	24	43	32	108	140
Women empowerment	1	0	0	0	8	5	13	8	5	13
Agril. Engineering										
Plant Protection										
Integrated Pest Management	6	97	35	132	30	2	32	127	37	164
Bio-control of pests and diseases	4	18	7	25	15	5	20	33	12	45
Fisheries										
Production of Inputs at site										
Apiculture	1	0	0	0	14	7	21	14	7	21
Capacity Building and Group Dynamics										
Entrepreneurial development of farmers/youths	1	8	3	11	0	0	0	8	3	11
Agro-forestry										
TOTAL	**40**	**495**	**174**	**669**	**170**	**57**	**227**	**665**	**231**	**896**

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
Production of organic inputs	1	24	1	25	0	0	0	24	1	25
Poultry production	1	0	0	0	38	2	40	38	2	40
Othe: Entrepreneurial development of farmers/youths	2	41	17	58	2	0	2	43	17	60
TOTAL	**4**	**65**	**18**	**83**	**40**	**2**	**42**	**105**	**20**	**125**

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
Others : Processing and value addition	1	0	31	31	0	0	0	0	31	31
Others : Production and management technology	3	60		60	0	0	0	60	0	60
Total	**4**	**60**	**31**	**91**	**0**	**0**	**0**	**60**	**31**	**91**

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Production and use of organic inputs	1	20	15	35	4	1	5	24	16	40
Total	**1**	**20**	**15**	**35**	**4**	**1**	**5**	**24**	**16**	**40**

7.G. Sponsored training programmes conducted

S.No.	Area of training	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
1	**Crop production and management**										
1.a.	Increasing production and productivity of crops	1	20	0	20	2	0	2	22	0	22
2	**Production and value addition**										
8.b.	Others : Entrepreneurial development of farmers/youths	2	41	17	58	2	0	2	43	17	60
9.	**Livestock and fisheries**										
10	**Livestock production and management**										
	Total	**3**	**61**	**17**	**78**	**4**	**0**	**4**	**65**	**17**	**82**

Details of sponsoring agencies involved

1. ATMA : 01 programme on karif agriculture

2. Coconut Board, Bangalore : 02 programmes on coconut climbers & plant protection in coconut

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

S.No.	Area of training	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
1	**Crop production and management**										
2	**Post harvest technology and value addition**										
2.a.	Value addition	7	0	108	108	0	30	30	0	138	138
4.	**Income generation activities**										
4.k.	Others:Economic empowerment of women	3	0	60	60	0	5	5	0	65	65
5	**Agricultural Extension**										
	Grand Total	**10**	**0**	**168**	**168**	**0**	**35**	**35**	**0**	**203**	**203**

V. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services	203	338	15	556
Diagnostic visits	78	134	24	236
Field Day	04	260	06	270
Group discussions	02	14	02	18
Kisan Ghosthi	08	3889	159	4056
Film Show	08	160	15	183
Self -help groups				0
Kisan Mela	01	630	95	726
Exhibition	06	5805	278	6089
Scientists' visit to farmers field	169	137		306
Plant/animal health camps	01	27	02	30
Farm Science Club				0
Ex-trainees Sammelan				0
Farmers' seminar/workshop	01	455	25	481
Method Demonstrations	33	330	199	562
Celebration of important days				0
Special day celebration				0
Exposure visits	04	60	21	85
Others (KMAS)	17	3008	475	3500
Total	**535**	**15247**	**1316**	**17098**

Details of other extension programmes

Particulars	Number
Electronic Media	02
Extension Literature	08
News Letter	03
News paper coverage	15
Technical Articles	0
Technical Bulletins	02
Technical Reports	0
Radio Talks	05
TV Talks	4
Animal health amps (Number of animals treated)	
Others (pl.specify)	
Total	**39**

VI. PRODUCTION OF SEED/PLANTING MATERIAL

Production of seeds by the KVKs

Crop category	Name of the crop	Name of the variety (if hybrid pl. specify)	Quantity of seed (q)	Value (Rs)	Number of farmers
Cereals (crop wise)	Paddy	Intan	30		
		Abhilash	600		
		Jaya	240		
		KMP 105	55		
	Maize	SA-Tall	45		
Total			**970**		

Production of planting materials by the KVKs

Crop category	Name of the crop	Variety	Hybrid	Number	Value (Rs.)	Number of farmers to whom provided
Commercial						
Vegetable seedlings	Brinjal			975	1950	38
	Capsicum			1170	2340	38
Fruits	Papaya			475	2375	19
Ornamental plants						
Medicinal and Aromatic						
Plantation						
Spices	Blackpepper			990	9900	38
Tuber						
Fodder crop saplings						
Forest Species						
Others: Flower	Marigold			5850	36075	38
Total						

Production of Bio-Products

Bio Products	Name of the bio-product	Quantity Kg	Value (Rs.)	No. of Farmers
Bio Agents	IBA	8 kg	11375	325
Total		8 kg	11375	325

VII. DETAILS OF SOIL, WATER AND PLANT ANALYSIS 2011-12

Samples	No. of Samples	No. of Farmers	No. of Villages	Amount realized (Rs.)
Soil	**37**	**37**	**10**	
Water				
Plant				
Manure				
Others (pl.specify)				
Total				

VIII. SCIENTIFIC ADVISORY COMMITTEE

Number of SACs conducted : 02

IX. NEWSLETTER

Number of issues of newsletter published : 03

X. RESEARCH PAPER PUBLISHED : NIL

Number of research paper published

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

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

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