

PROFORMA FOR ANNUAL REPORT 2010-11

(FOR THE PERIOD APRIL 2010 TO MARCH 2011)

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	deusd@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	hemi hg@gmail.com

1.4. Year of sanction: 11-07-2000

1.5. Staff Position (as 31st March 2011)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	M/F	Discipline	Highest Qualification (for PC, SMS and Prog. Asstt.)	Pay Scale	Basic pay	Date of joining KVK	Permanent /Temporary	Category (SC/ST/OBC/ Others)
1	Programme Coordinator	Dr. Hemant G. Hegde	Programme Coordinator	M	Horticulture	Ph.D (Horticulture)	37400-61100+10000(AGP)	60450	22.08.2006	P	GM
2	SMS	Mr. Ganapathi. T.	SMS (Hort.)	M	Horticulture	M.Sc. (Horticulture)	37400-61100+9000(AGP)	49240	15.06.2005	P	OBC
3	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
4	SMS	Smt. Vinutha U. Muktamath	SMS (Home Science)	F	Home Science	M.Sc (Home Science)	15600-39100+6000(AGP)	22250	15.07.2009	P	GM

5	SMS	Dr. Rajakumar G. R.	SMS (Soil Science)	M	Soil Science	Ph.D (Soil Science)	15600-39100+6000(AGP)	23620	21.07.2009	P	GM
6	SMS	Vacant	-	-	Agronomy	-	-	-	-	-	-
7	SMS	Vacant	-	-	Vet. Science	-	-	-	-	-	-
8	Programme Assistant(Lab Tech.)/T-4	Vacant	-	-	Agro forestry	-	-	-	-	-	-
9	Programme Assistant (Computer)/ T-4	Mrs. Annapurna F. Neeralgi	Programme Asst. (Computer)	F	Computer Science	BCA	9300-37800 + 4200 AGP	10230	29.03.2010	P	SC
10	Programme Assistant/ Farm Manager	Dr. Praveen T. Goroji	Farm Manager	M	Soil science	Ph. D (Soil Science)	9300-37800 + 4200 AGP	10230	13.11.2008	P	GM
11	Assistant	Mr. N. K. Nayak	Accountant /Superintendent	M	Accounts	MA	11400-21600	18600	02.01.2006	P	GM
12	Jr. Stenographer	Miss Purnima K. Hirehal	Typist	F	Typist	MA	8000-14800	8000	12.11.2009	P	ST
13	Driver	Mr. Balappa Taragar	Driver	M	Driver (LV)	SSLC	5800-10500	5900	06.10.2009	P	GM
14	Driver	Vacant	Tractor Driver	-	-	-	5800-10500	-	-	-	-
15	Supporting staff	Mr. H.A. Nadaf	Cook cum caretaker	M	Cook cum Caretaker	10 th	5200-8200	5500	02.08.07	P	cat-1
16	Supporting staff	Contract	Messenger	-	-	-	-	-	-	--	-

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	1.0
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	25040	Good
Motor bike KA 25 EC 7562 KA 25 EC 7564	Hero Honda - Passion 2009 2009	42,450.00 42,450.00	6770 5310	Good Good
Toyota Qualis Jeep KA 31M 2652	2004	5,00,000.00	109038	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		21600/-	''

1.8. Details SAC meeting conducted in 2010-11

Sl.No	Date	Number of Participants	No. of absentees	Recommendations
1	25.3.11	38	10	It was suggested to take up seed production programme in association with the farmers giving importance to local varieties.
2				Messages to farmers should be sent through mobile SMS regularly. At least 5000 farmers should be enrolled to extend this facility.
3				Success stories like in ginger crop should be documented and other programmes like FFS should be given wide publicity by broadcasting in AIR & TV
4				Proposal should be sent to ICAR for developing and implementing demonstrations on rain water harvesting and sprinkler/drip irrigation
5				While presenting FLDs thrust should be given to farmer's opinion. Also importance should be given to increase the Revolving Fund
6				To disseminate the technology to the farmers planning should be done in coordination with line departments. Also while presenting FLD & OFT results impact analysis should be based on financial assessment
7				KVK Website should be updated regularly and KVK Database is to be created
8				Suggested to arrange soil campaigns and collect and analyze soil samples and to prepare taluka wise soil fertility maps
9				Details of the successful farmers in different areas, trained farmers and critical inputs available with them should be documented and wide publicity should be given through AIR

10				Fodder bank in 1 or two acres of land should be established in KVK
11				While presenting the progress reports impact and results should be supported with good action photographs and video clippings
12				More programmes regarding mechanized paddy transplanting should be organized and farmer commodity groups should be established for employment generation
13				Along with watershed area development a survey should be conducted to know the demand of bio fuel planting materials and details should be handed over to Dean, Forestry
14				Facility to document & to provide information on non agriculture enterprises should be made available
15				Emphasis should be given to the programmes related to the needs of the farmers instead of taking research activities in KVKs
16				In association with agriculture and other line departments and through ATMA programmes burning issued of farmers should be address and suitable technology should be disseminated to the farmers

PART II - DETAILS OF DISTRICT

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

S. No	Farming system/enterprise
1	Rainfed area : Paddy- Pulses, Arecanut based intercropping system Small Irrigation through wells and springs Non Timber Forest Produce, Fisheries and Dairy

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

S. No	Agro-climatic Zone	Characteristics
1	Zone – 9	It consists of eastern transition belt and west coast with a geographical area 25,670.60 sq.km. It has hill zones and valleys with red sandy loam, clay loam and laterite soils. In some parts medium black soils are also found. Major crops grown are paddy, cotton, arecanut based mixed crops of spices.
2	Zone – 10	The zone consists of coastal and hill tracts with rainfall 3500 mm. The major crops grown are paddy, groundnut, pulses and arecanut based cropping system. Sandy soils, 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	72300	21690	3000
2	Cotton	3700	2590	7000
3	Groundnut	2500	4500	1800
4	Green gram	650	715	1100
5	Black gram	700	8400	1200
6	Maize	4750	14250	3000
7	Sugarcane	2770	221600	80 tones
8	Areca nut	16634	41091	2470
9	Coconut	7690	1309	170
10	Black pepper	408	17.29	420
12	Ginger	204	5066	24830
13	Cardamom	536	133.67	250
14	Cashew	2996	6361	2120

15	Banana	2346	69110	29460
16	Mango	1894	34257	18090
17	Pine apple	450	33217	73820

2.5. Weather data

Month	Rainfall (mm)	Temperature °C		Relative Humidity (%)
		Maximum	Minimum	
Janaury	3.4	29.6	14.7	87.8
February	0	32.8	15.4	89.3
March	7.1	34.9	17.7	87
April	35.3	35.6	19.8	80
May	44.3	33.6	28.2	83.4
June	396	29.58	20.2	87.2
July	723	26.2	19.6	90
August	366	26.7	19.7	91.8
September	376	27.5	19.5	90.6
October	77.6	29.3	19.0	88
November	140.6	29.2	18.1	89
December	0.4	28.6	14	82.6

* ARS Paddy , Sirsi

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

Category	Population	Production	Productivity
Cattle			
<i>Crossbred</i>	35410	141640000	4000ltr
<i>Indigenous</i>	331762	232233400	700ltr
Buffalo	118767	249410700	2100ltr
Sheep			
<i>Crossbred</i>	0	0	0
<i>Indigenous</i>	2702	81060	30Kg
Goats	12087	362610	30Kg
Pigs			
<i>Crossbred</i>	673	100950	150Kg
<i>Indigenous</i>	15510	853050	55Kg
Rabbits	278	1112	4Kg
Poultry			
Hens			

<i>Desi</i>	125633	0	1.25Kg
<i>Improved</i>	239940	157041.25	2Kg
Ducks	11234	479880	4.5Kg
Turkey and others	125	50553	6Kg
Fish			
<i>Marine(Prawns,Shrimp,Scampi)</i>		62779.56 mt	
<i>Inland</i>		7015.6 mt	

2.7 District profile has been prepared and submitted Yes / No:Yes

2.8 Details of Operational area / Villages

Sl.No.	Taluk	Name of the block	Name of the village	How long the village is covered under operational area of the KVK (specify the years)	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Sirsi	Banavasi Hegadekatta Vaddinakoppa Kenchagadde Manjuguni	Andagi Bidralli Hegadekatta Vaddinakoppa Kenchagadde Manjuguni	One year	Ginger Mango Arecanut paddy	Rhizome rot ginger Powdery mildew and hoppers Soil acidity and Nut drop Rootgrub menace, severe problem of leaf folder in paddy	Management of pests and diseases Soil test based nutrient management, ecofriendly management of rootgrub in arecanut and leaf folder in paddy
2	Siddapur	Bilagi	Keregadde , Bilagi and Akkunji	One year	Pepper ,Paddy	Improper processing , Soil acidity and Low yield	Value addition ,INM
3	Mundagod	Mundagod Kalakoppa	Indur	One year	Paddy	Soil acidity and Si deficiency Insect pests and diseases	Nutrient management, IPM
4	Honnavar	Habhu chitte	Habhu chitte	One year	Coconut	Rhinoceros beetle damage in coconut	IPM

2.9 Priority thrust areas

S. No	Thrust area
1	Crop improvement – Introduction of improved varieties in Paddy, Pulses
2	Production technology of agriculture, horticulture and Agro forestry
3	Insect pests and disease management in agriculture and horticulture crops
4	Soil health and water conservation
5	Organic Farming
6	Post harvest technology and value addition.
7	Income generating activities – Mushroom, Bamboo Crafts, Plants Nursery
8	Integrated Farming Systems
9	Vocational Training to rural youth
10	Establishment of commodity groups
11	Fodder production

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
10	10	57	54	13	12	99	100

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
78	102		3147	600	741	-	14834

Seed Production (Qtl.)		Planting materials (Nos.)	
5		6	
Target	Achievement	Target	Achievement
5	6.78	500	3000

Livestock, poultry strains and fingerlings (No.)		Bio-products (Kg)	
7		8	
Target	Achievement	Target	Achievement
		50	93

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

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions											
				Title of OFT if any	Title of FLD if any	Number of Training (farmers)	Number of Training (Youths)	Number of Training (extension personnel)	Extension activities (No.)	Supply of seeds (Qtl.)	Supply of planting materials (No.)	Supply of livestock (No.)	Supply of bio products		
1.	Insect ,pest and disease management	Arecanut	Low yield, stem tapering and finally death of palms	Organic based products for the management of arecanut root grub	-	03	-	-	-	Field visit5	-	-	-	2	20 L neem oil + 20kg soapnut seeds
2		Paddy	Low yield due to Leaf folder, a major pest in hilly tracts	Ecofriendly approaches in the management of leaf folder in paddy	-	04	-	-	Timely management practices were suggested during bimonthly meetings	Field visit 4	-	-	-	1	2.5 Kgs of <i>N. rileyi</i>
3			Low yield due to insect pests (leaf folder, stem borer, WBPH and gundy bug) and diseases (blast)	-	IPM in paddy	07	-	-	Timely management practices were suggested during bimonthly meetings	Field visit 6	-	-	-	2	32 nos Pheromone traps + 8 l of neem pesticides
4		Coconut	Hindrance in growth of palms and secondary infection by diseases at damage site	-	Management of rhinoceros beetle in coconut	1	-	-	-	Field visit 3	-	-	-	2	5 nos bucket traps + 1.0 kgs <i>M. anisopliae</i>
5		Black pepper	Death of vines due to foot rot of blackpepper	-	Integrated management of foot rot of black pepper	3	01	01	-	6	-	-	-	-	-
6		Mango	Powdery mildew and hoppers	Use of plant extracts from bio- digester for the management of leaf hoppers and powdery mildew in mango	-	05	02	02	-	Field visits-04	Bio-digester-03 Jaggery -06kg	-	-	-	Neem cake - 6kg Ground nut cake - -6 kg
7	Value addition	Pepper	Poor quality produce	-	Production of quality black pepper	03	01	02	-	Field visits-03	UV resistant plastic sheet - 272 kg	-	-	.	-

8	Production technology	Ginger	Ginger rhizome rot	-	Yield maximization in ginger through management of rhizome rot	03	02	04	State level seminar - 01 Field day -01	Sreptocycline Ridomyl- MZ	-	-	-	Neem cake 4q/acre Trichoderma
9	Fodder production	Bajra cow pea mixture	Scarcity of fodder in summer	Production of fodder bajra and legume mixture as source of nutrient rich green fodder in summer	-	03	-	-	Field visits - 04	16 kg	-	-	-	-
10	IFS	Silvi-Horti	Low incme	-	Popularization of silvi-horti-pastoral system for sustainable land use	2	1	-	Field visits -04	-	Pickling mango varieties Garcinia -Kokam	-	-	-
11	Nutrient management	Paddy	Soil acidity and Si deficiency	Evaluation of foliar silicon in paddy groen in acid laterite soils	-	2	-	-	-	-	-	-	-	-
12	INM	Paddy	Soil acidity and low yield	-	Integrated nutrient management in paddy	2	-	1	2	-	-	-	2	2
13	Soil Fertility Management	Arecanut	Soil acidity and Nut drop	-	Soil test based nutrient management	2	-	-	2	-	-	-	-	-
14	Income generating activity	Mushroom	High cost of production	Assessment of media for production of oyster mushroom	-	6	01	-	Field visits- 8	18kg mushroom spawn	-	-	-	-
15		Long pepper	Lack of awareness	-	Production of long pepper as subsidiary income generating crop	2	-	-	4	-	2000	-	-	-
16	Post harvest technology	Jackfruit value addition	Dehydration and value addition	Efficacy of poly tunnel drier for production of hygienic jackfruit leather/figs/pappad	-	2	01	-	3	-	-	-	-	-
17		Garcinia	Cumbersome procedure of oil extraction	-	Extraction and utilization of oils & fats from garcinia species	01	-	-	03	-	-	-	-	-
18	Drudgery reduction	Agri/horti production	Dehydration and value addition	Small scale solar driers for quality farm produce and drudgery reduction	-	2	-	-	4	-	-	-	-	-

19		Paddy	Scarcity of labour	-	Popularization and use of mechanized paddy transplanter as IGA through commodity groups	6	01	02	16	-	-	-	-	-
20		Groundnut	Scarcity of labour	-	Popularization of groundnut decorticator	03	-	-	6	-	-	-	-	-

3.B2. Details of technology used during reporting period

S.No	Title of Technology	Source of technology	Crop/enterprise	No.of programmes conducted			
				OFT	FLD	Training	Others (Specify)
1	2	3	4	5	6	7	8
1	Organic based products for the management of arecanut root grub	UASDharwad & ITK	Arecanut	5	-	03	5 field visits, 2 method demos, 7 consultancy
2	Eco friendly approaches in the management of leaf folder in paddy	UASDharwad & ITK	Paddy	10	-	04	2 field visits, 1 method demo
3	IPM in paddy	UASDharwad and DRR, Hyderabad	Paddy	-	12	07	7 field visits, 2 method demos, 6 consultancy
4	Management of rhinoceros beetle in coconut	UASDharwad	Coconut	-	2	01	3 field visits, 1 method demo
5	Production of quality black pepper	KVK UK	Black pepper	-	15	06	Field visits -03
6	Yield maximization in ginger through management of rhizome rot	Indian spice research Institute Kochi UAS,Dharwad	Ginger	-	04	09	Seminar -01 Field visit -08 Field day -01
7	Use of plant extracts from bio- digester for the management of leaf hoppers and powdery mildew in mango	KVK UK	Mango	03	-	09	Field visits -04
8	Popularization of silvi-horti-pastoral system for sustainable land use	UASDharwad	Silvi- horti	-	10	03	Field visits-04
9	Evaluation of foliar Si in paddy grown in acid laterites	UAS Bangalore	Paddy	6	-	2	Field visits -04
10	Integrated nutrient management in Paddy	UAS Dharwad	Paddy	-	10	2	Field visit -08 Field day -01
11	Soil test based nutrient management in Arecanut	UAS Dharwad	Arecanut	-	13	2	Field visit -08 Field day -01
12	Fodder production	ITK	Bajra+ cowpea	8	-	03	Field visits-04
13	IG Activity	UASDharwad	Mushroom	5	-	07	Field visits – 8
14	IG Activity	ITK	Jackfruit	03	-	03	Field visits 03
15	Post harvest technology	ITK	Fish	04	-	01	Field visits – 1
16	Drudgery Reduction	ITK	Small scale solar drier	03	-	02	Field visits 04,demonstrations-02
17		UASDharwad	Mechanized Paddy transplanter	-	10	09	Field visits 16
18	IDM	ITK	Foot rot of black pepper	-	08	05	Field visits 10, Demonstrations-12,consultancy-25
19	IG Activity	UASDharwad	Long pepper	-	10	02	Field visits -04
20	Drudgery Reduction	UASDharwad	Groundnut	-	03	03	Field visits-05, demonstrations-04
21	Post harvest technology	UASBangalore	Garcinia	-	03	01	Demonstrations-03
22	Cultivation of black green gram in paddy fallows	ITK	Blackgreen gram	05	-	02	Field visits-04

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
5	-	-	-	-	-	-	-	20	-	-	-	32	05	03	-
8	2	-	-	-	-	-	-	47	08	02	01	32	12	-	-
-	-	-	-	7	2	3	-	82	15	10	-	46	21	17	12
-	-	-	-	2	-	-	-	12	3	-	-	5	-	-	-
-	-	-	-	13	-	02	-	110	-	10	-	-	-	-	-
-	-	-	-	03	-	01	-	130	25	40	06	100	25	40	15
02	-	01	-	-	-	-	-	115	15	25	06	-	-	-	-
-	-	-	-	03	02	04	01	12	02	05	01	-	-	-	-
6	-	-	-	-	-	-	-	566	115	136	15	-	-	-	-
				06	01	03									
				09	-	04									
-	03	-	-	-	-	-	-	8	32	06	01	-	-	-	-
-	04	-	-	-	-	-	-	-	15	02	-	-	-	-	-
-	04	-	-	-	-	-	-	0	10	-	-	-	-	-	-
-	04	-	-	-	-	-	-	8	20	3	-	-	-	-	-
-	-	-	-	06	04	-	-	40	22	15	04	-	-	-	-
-	-	-	-	08	-	-	-	42	-	06	-	-	-	-	-
-	-	-	-	-	-	0	10	10	8	-	20	0	-	-	-
-	-	-	-	-	03	-	-	18	16	-	-	---	-	-	-
-	-	-	-	03	-	-	03	04	-	02	08	-	-	-	-
05	-	-	-	-	-	-	-	10	2	02	-	-	-	-	-

4.A.3. Abstract on the number of technologies assessed in respect of livestock enterprises

Thematic areas	Cattle	Poultry	Piggery	Rabbitry	Fisheries	TOTAL
Evaluation of Breeds						
Nutrition Management						
Disease of Management						
Value Addition					1	01
Production and Management						
Feed and Fodder						
Small Scale income generating enterprises						
TOTAL						01

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
Integrated Nutrient Management	Paddy	Evaluation of foliar Si in paddy	06	06	1.2
Integrated Pest Management	Areanut	Organic based products for the management of arecanut root grub	05	05	75 palms each
	Paddy	Ecofriendly approaches in the management of leaf folder in paddy	10	10	4
	Mango	Use of plant extracts from bio- digester for the management of leaf hoppers and powdery mildew in mango	03	03	-
Crop Production					
	Long Pepper	Production of long pepper as subsidiary income generating crop	10	10	-
Seed / Plant production	Jackfruit	Efficacy of poly tunnel drier for production of hygienic jackfruit leather /figs/papad	03	03	-
Value addition	Fish	Efficacy of solar tunnel drier for dehydration of fish	04	04	-
Mushroom cultivation	Oyster Mushroom	Assessment of media for production of oyster mushroom	05	05	-
Total			46	46	

4.B.2. Technologies Refined under various Crops

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha
Value addition	Agri /horti products	Small scale solar driers for quality farm produce and drudgery reduction	03	03	-
Total			03	03	

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

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials	No. of farmers
Feed and fodder	Cattle	Green fodder production	08	08
Total			08	08

4.C1. Results of Technologies Assessed

1. Results of On Farm Trial

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement done / needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Paddy	Rainfed	Soil acidity and Si deficiency	Evaluation of Foliar Silicon in Paddy grown under laterite soils	6	Foliar Silicon	Yield	q/ha	AP: 53.75	Crop is healthy with more tillers	-	-

Contd..

Technology Assessed	Source of Technology	Production	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): 87:46:60	-	33.75	kg/ha	19875/ha	1:1.99
Technology option 2: RDF75:75:90 +Ash @ 1.5 tons/ha	UAS Dharwad	49.25	kg/ha	32325/ha	1:2.69
Technology option 3: RDF+Foliar Si 4 ml/L	UAS Bangalore (Dept.of Soil science)	53.75	kg/ha	35975 /ha	1:2.90

2. Results of On Farm Trial

Crop/enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Paddy	Rainfed	Incidence of leaf folder	Eco friendly approaches in the management of leaf folder in paddy	10	a. <i>Gnidea glauca</i> 5% aqueous leaf extract as foliar spray b. <i>N. rileyi</i> 1 g/l of water as foliar spray	No. of freshly damaged leaves per hill and yield q/ha	a. 0.6 and 31.25q/ha b. 1.05 and 30.85 q/ha	<i>Gnidea glauca</i> 5% aqueous leaf extract found very effective in managing pest population. But, <i>N. rileyi</i> entomopathogenic fungi load needs to be still higher to cause the infection. Both are best alternative to chemicals and ecofriendly	<i>Gnidea glauca</i> is locally available and effective in managing leaf folder organically. Noticed diseased larvae due fungus infection	-	-

Contd..

Technology Assessed	Source of Technology	Production	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) Passing thorny branch over the crop	-	30.15	q/ha	8143	1.40
Technology option 2 Foliar spray of Chlorpyrifos 20 EC @ 2ml/l	UAS, Dharwad	31.50	q/ha	8675	1.51
Technology option 3a <i>Gnidea glauca</i> 5% aqueous leaf extract as foliar spray	ITK and successful preliminary trials conducted at ARS, Sirsi	31.25	q/ha	9750	1.50
Technology option 3b <i>N. rileyi</i> , 1X10 ¹¹ conidia /ml @ 1 g/l of water as foliar spray	ITK and successful preliminary trials conducted at ARS, Sirsi	30.85	q/ha	8210	1.38

3. Results of On Farm Trial

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement done / needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Arecanut	Rainfed	Root grub infestation	Organic based products for the management of arecanut root grub	5	Drenching of soil with mixture of neem oil and soap nut aqueous extract 5 %	% reduction in rootgrub population	72.86 %	Appearance of new healthy green frond, improvement in growth of the palms	Neem oil & soap nut extract found eco friendly, residue free and effective alternative to chemicals	-	-

Contd..

Technology Assessed	Source of Technology	Production	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) Soil application @ 2ml chlorpyriphos 20EC /2 l/palm (not in time)	-	39.71	% reduction in rootgrub population	-	-
Technology option 2 Drenching of soil with chlorpyriphos 20EC @ 3 ml/l of water (5 l of solution/palm)	UAS, Dharwad	84.41	% reduction in rootgrub population	-	-
Technology option 3 Drenching of soil with mixture of neem oil and soapnut aqueous extract 5 %	ITK and successful preliminary trials conducted at ARS, Sirsi	72.86	% reduction in rootgrub population	-	-

4. Results of On Farm Trial

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement done / needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Mango	Rainfed	Mango hoppers and powdery mildew	Use of plant extracts from bio- digester for the management of leaf hoppers and powdery mildew in mango	03	Use of plant extracts from bio- digester for the management of leaf hoppers and powdery mildew in mango	% Hopper s incidence % powdery mildew incidence No. of fruits per sq. meter	08 12 06	Observed less incidence of powdery mildew and hoppers and more yield	Plant extracts were found to effective	-	-

Contd..

Technology Assessed	Source of Technology	Production	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) No Proper Spray is given	-	1200	kg/ha	24,000-2000=22000//ha	11
Technology option 2 Monocrotophos @ 1.25 ml/l + Hexaconozole @ 1.0 ml/l	UAS Dharwad	1680	kg/ha	33,600-2000=31,600/ha	15.8
Technology option 3 Glyricidia, parthenium, euphatorium,blackgram, cowpea,sunhemp(leaves @ 3 kg each), Gobar gas slurry(n10 litre), Jaggery (2 kg), Butter milk (10 litre), Pulses powder (2 kg), Cow urine (10 litre)and Neem cake (2.0 kg) digested and sprayed @ 1:10 ratio	KVK,UK	2400	kg/ha	48,000-2,500=45,500/ha	22.7

5. Results of On Farm Trial

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement done / needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Fodder bajra	Rainfed	Scarcity of fodder during summer	Assessment of fodder bajra – legume mixture in paddy fallows	8	Green fodder legume mixture in paddy fallows	Fodder yield tones/ha	26 t/ha	More palatable compared to other fodders .	Increased milk yield + health of animals	-	-

Contd..

Technology Assessed	Source of Technology	Production	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
Fallow	-	-	-	-	-
Fodder Maize	POP UASD	22	t/ha	14000	2.75
Fodder bajra legume mixture	ITK	26	t/ha	18000	3.25

6. Results of On Farm Trial

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement done / needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Blackgreen gram	Residual soil moisture	Paddy fallow	Cultivation of black green gram under residual soil moisture in paddy fallows	5	black green gram cultivation under residual soil moisture	Yield	q/ha	Suitable for paddy fallows	Yield is on par with green gram but fetches low price	-	-

Contd..

Technology Assessed	Source of Technology	Production	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
T1: Fallow	-				
T2: Green gram – Pusa baisaki	UASD	3.20	Qt/ha	11000	3.2
T3: Black green gram (UAS, Dharwad)	UASD	2.90	qtl/ha	9500	2.9

7. Results of On Farm Trial

Crop/enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement done / needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Mushroom	-	High cost of production	Assessment of media for production of oyster mushroom	05	Pady Husk Arecaut husk Coconut coir	Cost of cultivation, yield	Yield in kgs	Paddy starw is good media	Paddy straw give more yield. High chance of infection in areacanut husk	-	-

Contd..

Technology Assessed	Source of Technology	Production (Mushroom)	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
T1: Paddy straw	UASD	6	Kg/kg spawn	320	4.2
T2:Arecaut Husk	ITK, Trials conducted by COF Sirsi	3.25	Kg/kg spawn	152.50	3
T3:Cocont Coir		3.8	Kg/kg spawn	191	2.66

8. Results of On Farm Trial

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement done / needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Jackfruit/ processing & value addition	NA	Dehydration of jackfruit for preservation and value addition	Efficacy of poly tunnel drier for production of hygienic jackfruit leather/fig /pappad	4	Dehydration of jackfruit pappad	Time taken for drying, shelf life, colour Contamination	6.30 hrs, good even after 3 months Pale cream, dust free	Drying in drier is on par with sun drying . Free from dust and other contamination, Drier suitable for drying copra, black pepper, nutmeg, cinnamon, chillies and other food products also	Very good & necessity for every farm house. No hassles of rain or due. Free from animal and bird theft. Nick named it as "My Solar Drier"	Needs improvement on the quality of the material used in fabrication of drier	Improving the hygiene and food contamination

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
T1: Farmers Practice- Sun Drying	-	2000	Numbers	1600	3.2
T2:Drying in solar drier	Dept of Science and Technology, Govt of India &Gujarat energy development agency	2000	Numbers	1600	3.2

9. Results of On Farm Trial

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement done / needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Fishery	NA	Dehydration of fish for preservation and value addition	Efficacy of solar tunnel drier for hygienic dehydration of fish	4	Dehydration of fish	Time taken for drying, shelf life, colour Contamination		Drying in drier is on par with sun drying . Free from dust and other contamination,	Very good & necessity for every farm house. No hassles of rain or due. Free from animal and bird theft.	-	-

* The trial was conducted for prawns

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
T1: Farmers Practice- Sun Drying	-	100	Kg	8500	1.32
T2:Drying in solar drier	-	100	Kg	9500	1.57

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 : Evaluation of Foliar Silicon in Paddy grown under laterite soils
- 2 Problem Definition : Soil acidity and Si deficiency
- 3 Details of technologies selected for assessment : Foliar Silicon in Paddy
- 4 Source of technology : UAS Bangalore (Dept.of Soil science)
- 5 Production system and thematic area: Integrated Nutrient Management
- 6 Performance of the Technology with performance indicators: No.of Tillers and Yield q/ha
7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques : Crop health is good, with more number of tillers/hill
- 8 Final recommendation for micro level situation : Yet to be assessed for one more year
- 9 Constraints identified and feedback for research: nil
- 10 Process of farmers participation and their reaction : Found the crop to be more vigorous and resistant to pest

OFT : 2

- 1 Title of Technology Assessed : Organic based products for management of arecanut root grub
- 2 Problem Definition : Root grub infestation
- 3 Details of technologies selected for assessment: Drenching of soil with mixture of neem oil and soapnut aqueous 5% extract
- 4 Source of technology: ITK and 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 : % reduction in root grub population at 60 DAT
7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques : Neem oil and soap nut extract was found eco friendly and effective alternative to chemicals
- 8 Final recommendation for micro level situation: Neem oil and soap nut 5% aqueous extract can be effective alternative to chemical insecticides best suited in organic farming
- 9 Constraints identified and feedback for research: Preparation of standard plant extracts
- 10 Process of farmers participation and their reaction: Neem oil and soap nut extract was found eco friendly in managing root grubs, appearance of new healthy green frond, improvement in growth of the palms.

OFT : 3

- 1 Title of Technology Assessed : Eco friendly approaches in the management of leaf folder in paddy
- 2 Problem Definition : Incidence of leaf folder
- 3 Details of technologies selected for assessment: a. *Gnidea glauca* 5% aqueous leaf extract as foliar spray
b. *N. rileyi* 1 g/l of water as foliar spray
- 4 Source of technology: ITK and 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 : No. of freshly damaged leaves per hill and yield q/ha
7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques : *Gnidea glauca* is locally available botanical insecticide and effective in managing leaf folder organically.
- 8 Final recommendation for micro level situation: *G. glauca* leaf extract and *N. rileyi* can be effective alternative to chemical insecticides best suited in organic farming
- 9 Constraints identified and feedback for research: Preparation of plant extracts, congenial microclimate for entomopathogenic fungus to cause the infection and nil
- 10 Process of farmers participation and their reaction: : *Gnidea glauca* is locally available and effective in managing leaf folder organically. Noticed diseased larvae due to fungus infection

OFT : 4

- 1 Title of Technology Assessed : Use of plant extracts from bio- digester for the management of leaf hoppers and powdery mildew in mango
- 2 Problem Definition : Powdery mildew and mango hoppers
- 3 Details of technologies selected for assessment : Bio digester extract of glyricidia, parthenium, eupatorium, blackgram, cowpea, sunhemp(leaves @ 3 kg each), gobar gas slurry (n10 litre), Jaggery (2 kg), Butter milk (10 litre), Pulses powder (2 kg), Cow urine (10 litre) and Neem cake (2.0 kg)
- 4 Source of technology : Krishi Vigyan Kendra, Sirsi
- 5 Production system and thematic area: Rain fed
- 6 Performance of the Technology with performance indicators : Yet to be documented
7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques : Less incidence of hoppers and powdery mildew and good quality chemical residue free fruits
- 8 Final recommendation for micro level situation : Needs to be re-assessed in the coming years
- 9 Constraints identified and feedback for research : Standardization of ingredients and their quantity
- 10 Process of farmers participation and their reaction : residue free fruits

OFT : 5

- 1 Title of Technology Assessed : Assessment of fodder bajra – legume mixture in paddy fallows
- 2 Problem Definition : Scarcity of green fodder during summer
- 3 Details of technologies selected for assessment : fodder bajra + cow pea mixture
- 4 Source of technology : ITK
- 5 Production system and thematic area : Crop production
- 6 Performance of the Technology with performance indicators: High yield, more palatable, low cost of cultivation
7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques : Increased milk yield , improved animal health, 10 out of 10 farmers say most useful
- 8 Final recommendation for micro level situation: Can be adapted as a good source green fodder in summer
- 9 Constraints identified and feedback for research: Suitable varieties which will give higher yield
- 10 Process of farmers participation and their reaction: Actively participated and preserved seeds for next kharif and summer, opine that the crop is boon to the farmers

OFT : 6

- 1 Title of Technology Assessed : Cultivation of black green gram under residual soil moisture in paddy fallows
- 2 Problem Definition : Paddy fallows with very low moisture status
- 3 Details of technologies selected for assessment: Black green gram
- 4 Source of technology : UASD
- 5 Production system and thematic area : Crop production
- 6 Performance of the Technology with performance indicators : Thrives where normal green gram fail
7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques: Grains are acceptable
- 8 Final recommendation for micro level situation:
- 9 Constraints identified and feedback for research: Improved varieties with good seed fodder yield
- 10 Process of farmers participation and their reaction: Gives normal yield

OFT : 7

- 1 Title of Technology Assessed : Assessment of media for production of oyster mushroom
- 2 Problem Definition : High cost of production
- 3 Details of technologies selected for assessment: Pady Husk,Arecaut husk ,Coconut coir
- 4 Source of technology : ITK, Trials conducted by COF Sirsi
- 5 Production system and thematic area: Mushroom Cultivation
- 6 Performance of the Technology with performance indicators: Paddy straw is suitable
7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques: Paddy straw is better compared to coconut coir and arecanut husk
- 8 Final recommendation for micro level situation: Paddy straw is recommended
- 9 Constraints identified and feedback for research: Arecanut husk is more prone to infection and techniques for sterilizing necessary.
- 10 Process of farmers participation and their reaction: Farmers find paddy straw as a good media and coconut coir can also be used

OFT : 8

- 1 Title of Technology Assessed: Efficacy of poly tunnel drier for production of hygienic jackfruit leather/pappad/figs
- 2 Problem Definition : Dehydration/value addition
- 3 Details of technologies selected for assessment: Small poly tunnel drier with platform
- 4 Source of technology: Dept of Science and Technology, Govt of India &Gujarat energy development agency
- 5 Production system and thematic area: Post harvest processing and value addition
- 6 Performance of the Technology with performance indicators: Farmers have shown keen interest and borrowed the design for getting it fabricated locally.
7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques: 30 out of 30 farmers feel it is appropriate technology
- 8 Final recommendation for micro level situation: Needs fine tuning
- 9 Constraints identified and feedback for research: Equipment suitable for small farmer's requirement of larger models for big farmers
- 10 Process of farmer's participation and their reaction: Farmers have shown interest and have requested for transfer of technology.

OFT : 9

- 1 Title of Technology Assessed : Efficacy of solar tunnel drier for dehydration of fish
- 2 Problem Definition : Dehydration/value addition
- 3 Details of technologies selected for assessment: Solar drier
- 4 Source of technology : Dept of Science and Technology , GOI
- 5 Production system and thematic area: Value addition
- 6 Performance of the Technology with performance indicators: Product is hygienic and free from animal and bird theft
7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques : Best suited for house hold and small entrepreneur
- 8 Final recommendation for micro level situation : Can be modified for large scale commercial drying
- 9 Constraints identified and feedback for research : commercial purpose larger size drier is required
- 10 Process of farmers participation and their reaction : drying is faster and hygienic

4.D1. Results of Technologies Refined Results of On Farm Trial

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology refined	Parameters of refinement	Data on the parameter	Results of refinement	Feedback from the farmer	Details of refinement done
1	2	3	4	5	6	7	8	9	10	11
Copra/Solar drying	NA	Refinement of home scale solar drier for increased efficiency	Home scale solar drier for quality farm produce and drudgery reduction	04	Heat exchange	Placement of Heat exchange & improvement in draft	Time taken for drying and quality parameters like colour texture , flavour, taste labour required and market price	Quick drying, free from contamination, retaining colour and flavour	Very useful for drying copra for small house holds. Can be used for other products also (fruits, vegetables and spices)	Modification in heat exchange chamber and placement of drying chamber

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Technology Refined	Source of Technology for Technology Option1 / Justification for modification of assessed Technology Option 1	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13		14	15	16	17
Technology Option 1 (best performing Technology Option in assessment)	Farmer Practice	6	Kg/batch	-	-
Technology Option 2 (Modification over Technology Option 1)	-	6	Kg/batch	-	-
Technology Option 3 (Another Modification over Technology Option 1)	FAO & USAID	6	Kg/batch	-	-

* Tehchnology 3 gives good colour, taste and flavor to the dried products.

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

1. Title of Technology refined : Home scale solar drier for quality farm produce and drudgery reduction
2. Problem Definition : Refinement of home scale solar drier for increased efficiency
3. Details of technologies selected for refinement : Modification in heat exchange chamber and placement of drying chamber
4. Source of technology : FAO & USAID
5. Production system and thematic area : Preservation and Value addition
6. Performance of the Technology with performance indicators : Final recommendation needs to be assessed by appropriate scientists
7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques
8. Final recommendation for micro level situation :
9. Constraints identified and feedback for research : Need for improvement of fabricating materials
10. Process of farmers participation and their reaction : Farmers feel that such equipment is very essential for dehydration of home products in day to day life alternative equipment not available in the market easily.

PART V - FRONTLINE DEMONSTRATIONS

5.A. Summary of FLDs implemented during 2010-11

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 moisture	Summer 2010-11	Groundnut	GPBD-4	-	Drudgery reduction	Groundnut decorticator for deshelling	-	-	-	3	3	-
	Pulses													
	Cereals	Rainfed	Kharif 2010-11	Paddy	Intan	-	Plant protection	IPM	4	4	3	9	12	nil
		Rainfed	Kharif 2010	Paddy	1001	-	INM	INM in Paddy	4	4	4	6	10	-
		Rainfed	Kharif 2010-11	Paddy	Abhilash	-	Drudgery reduction	Mechanized transplanting	5	5	-	10	10	-
	Fruit	Rainfed	Kharif 2010	Mango and Koam	Picling varieties	-	IFS	Silvi--horti-pastrol system	1.0	1.0	05	05	10	-
		Rainfed	Summer 2010-11	Garcinia	Garcinia indica and Garcinia gummigatta	-	Value addition	Extraction of fats and oils	-	-	03	-	03	-
	Spices and condiments	Rainfed	Summer ,2011	Black pepper	Paniyur-1	-	Value addition	Solarization of black pepper in between UV resistant polythene sheets	-	-	02	13	15	-
		Rainfed	Kharif ,2010	Ginger	Himachal	-	Production technology	Yield maximization through disease management	1.0	1.0	03	01	04	-
		Rainfed	Khariff 2010	Blackpepper		Paniyur-1	IDM	Integrated Management of foot rot of blackpepper	0.06	0.06	-	08	08	
	Medicinal and aromatic	Rainfed	Kharif + rab/summer 2010	Long pepper	Vishwam	-	Income generation	Long pepepr as an intercrop	-	-	10	-	10	-

	Plantation	Rainfed	Rabi/summer 2010-11	Coconut	local	-	Managemnt of rhinoceros beetle	Monitoring through traps, Treatment of FYM pit with metarrhizium and filling up of bored holes with malathion and sand	1	1	-	2	2	nil
		Rainfed	Kharif/ 2010-11	Rabi Areca nut	Local	-	Soil Test based nutrient management	Soil Test based nutrient management	4	4	04	09	13	-

5.A. 1. Soil fertility status of FLDs plots during 2010-11

Sl. No.	Category	Farming Situation	Season and Year	Crop	Variety/breed	Hybrid	Thematic area	Technology Demonstrated	Season and year	Status of soil			Previous crop grown
										N	P	K	
	Cereals	Rainfed	Kharif 2010	Paddy	1001		INM	INM in Paddy	Kharif 2010	L-M	L	L	
		Rainfed	Kharif 2010	Paddy	IR 64		Machine Transplanting	Machine Transplanting in Paddy	Kharif 2010	L-M	L	L	
	Spices and condiments	Rainfed	Kharif 2010	Black pepper				Integrated management of foot rot		L-M	L	L	
	Commercial	Rainfed	Kharif 2010	Ginger				Ginger rhizome rot management		L-M	L	L	
	Medicinal and aromatic	Rainfed	Kharif 2010	Long pepper				Production of Long pepper		L-M	L	L	
	Fodder	Rainfed	Kharif 2010					Popularization of silvi-culture system		M	L	L	
	Plantation	Rainfed	Kharif 2010	Areca nut	Local	-	Soil test based nutrient management	Soil test based nutrient management in Areca nut	Kharif/Rabi 2010-11	L-M	L	L	

	Soil test based nutrient management in Arecanut	Local	-	Rainfed	13	4	36.25	31.00	33.06	27.83	50.27	44000	387500	343500	1.8.81	38000	325000	287000	1:8.55	
Others	Extraction and utilization of oils and fats from Garcinia Species				03	-	Hand operated mini oil expeller is not suitable for the Garcinia species. .But works with coconut and groundnut													

FLD : IPM in paddy

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 moths trapped	0.4/trap	-	
Blast (%)	<3.65	>10.5	
Leaf folder (%)	<1.5	<2.75	
Ear head bug (%)	<7.5	>15.00	

FLD : Yield maximization through disease management

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
Ginger : % rhizome rot incidence	7	27

FLD : Integrated management of foot rot f black pepper

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
Incidence of foot rot/collar rot	3.3	65.5
Incidence of	10	35
Mortality of vines	2.7	52.54
Farmers reaction	Excellent & can be adopted as plastic is reusable	-

FLD : INM in paddy**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
Tillers/hill	22	18
Panicle length, cm	22.20	19.00

FLD : Soil test based nutrient management in arecanut**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
Nut drop	Avg. 10 nuts / palm	Avg. 50 nuts / palm
Nut splitting / disease	Not observed	Observed with specks on nuts

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
Groundnut decorticator	2500	Popularization of groundnut decorticator	03	6	2/100 kg deshelling	12/100 kg deshelling	83%	800	-	-	-	-	-	-	-	-
Paddy transplanter	2500/ha (Hiring charges)	Popularization and use of mechanized paddy transplanter as IGA through commodity groups	10	05	3/ha	50/ha	52%	3250	16750	56250	39500	3.35	20000	40500	20500	2.0

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
% wastage	1%	4%

5.B.6.6 Technical Feedback on the demonstrated technologies on all crops / enterprise

S. No	Crop / Enterprise	Name of the technology demonstrated	Feed Back
1	Ginger	Yield maximization in ginger through management of rhizome rot	Cultivar Himachal found to be disease tolerant
2	Black pepper	Solarization of black pepper in between UV resistant polythene sheet	Higher percent of oleoresin(8.1) and piperine(3.8) noticed as compare to check(7.3 and 2.8 respectively)
3	Paddy	INM in Paddy	Availability of biofertilizers in market needs to be ensured
4	Arecanut	STCR in Arecanut	Long term, at least for 4 years it needs to be studied

5.B.6.7 Farmers' reactions on specific technologies

S. No	Crop / Enterprise	Name of the technology demonstrated	Feed Back
1	Ginger	Yield maximization in ginger through management of rhizome rot	Rhizome treatment with effective chemical, neem cake application and time of sowing can reduce the disease to a greater extent
2	Black pepper	Solarization of black pepper in between UV resistant polythene sheet	The produce fetches Rs.5/- per kg more in the market as compared to check
3	Paddy	INM in Paddy	Seed treatment with biofertilizers seems to be essential
4	Arecanut	STCR in Arecanut	Nut splitting and nut drop is reduced on application of nutrients based on soil test

5.B.6.8 Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organised	Number of participants	Remarks
1	Field days	03	395	-
2	Farmers Training	19	402	-
3	Media coverage	04	-	-
4	Training for extension functionaries	10	193	-

PART VII. TRAINING

7.A.. Farmers' Training 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
Integrated Farming	3	0	0	0	54	9	63	54	09	63
Production of low value and high volume crop	3	130	15	145	25	05	25	155	20	175
Cultivation of Fruit	02	46	-	46	5	-	5	51	-	51
Export potential of ornamental plants	1	52	0	52	0	0	0	52	0	52
Production and Management technology	05	99	5	80	30	09	39	129	14	143
Processing and value addition	01	15	-	15	07	-	07	22	-	22
Others (pl.specify)	3	45	7	52	15	5	20	50	12	62
Production and Management technology	2	95	25	120	25	15	40	120	40	160
Production and Management technology	02	35	3	38	5	2	7	40	05	45
Processing and value addition	02	35	05	40	10	-	10	45	05	50
Production and management technology	2	40	15	55	10	05	15	50	20	70
Designing and development for high nutrient efficiency diet	1	0	20	20	0	5	05	0	25	25
Value addition	2	08	34	42	0	11	11	08	45	53
Women empowerment	1	0	18	18	0	10	10	0	28	28
Location specific drudgery production	3	37	15	52	05	10	15	42	30	72
Integrated Disease Management	1	14	0	14	0	0	0	14	0	14
Mushroom production	1	10	12	22	02	00	02	12	12	24
Entrepreneurial development of farmers/youths	1	12	02	14	0	0	0	12	02	14
TOTAL	36	673	176	825	193	86	274	856	267	1123

7.B.. Farmers' Training including sponsored training programmes (Off campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production										
Weed Management	1	10	02	22	01	03	01	11	15	26
Production of low value and high volume crop	2	65	15	80	25	05	30	90	20	110
Plant propagation techniques	3	55	10	65	35	18	53	90	28	118
Nursery Management	2	-	-	-	63	20	83	63	20	83
Production and Management technology	1	20	0	20	0	0	0	20	0	20
Processing and value addition	2	65	20	85	15	10	25	80	30	110
Others (pl.specify)	1	16	-	16	-	-	-	16	-	16
Production and Management technology	3	35	15	50	15	10	25	50	25	75
Production and management technology	2	23	-	23	-	14	14	23	14	37
Soil fertility management	02	19	-	19	10	-	10	29	-	29
Soil and water testing	03	45	-	45	11	-	11	56	-	56
Household food security by kitchen gardening and nutrition gardening	2	32	30	62	0	10	10	30	42	72
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet	1	0	16	16	0	02	02	0	18	18
Gender mainstreaming through SHGs	1	0	13	13	00	0	0	0	13	13
Value addition	3	25	45	70	12	20	32	37	65	102
Women empowerment	2	0	35	35	0	7	7	0	42	42
Location specific drudgery production	5	50	35	85	15	19	34	65	54	119
Integrated Pest Management	6	76	40	116	45	14	59	121	54	175
Mushroom production	1	15	30	45	08	15	23	23	45	68
TOTAL	43	551	306	867	265	167	419	804	485	1289

7.C. Training for Rural Youths including sponsored training programmes (on campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops	1	15	-	15	6	-	6	21	-	21
Planting material production	1	15	7	22	8	5	13	23	12	35
Value addition	1	12	6	18	5	1	6	17	7	24
Any other (pl.specify)										
Management of micronutrients in Plantation crops	01	135	-	135	-	-	-	135	-	135
Testing of organic matter and soil pH by Om kit	01	30	-	30	-	-	-	30	-	30
TOTAL	05	207	13	220	19	06	25	226	19	245

7.D. Training for Rural Youths including sponsored training programmes (off campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops	1	12	8	18	6	1	7	18	8	26
Value addition	2	16	8	24	6	2	8	22	10	32
Post Harvest Technology	1	12	4	16	5	-	5	17	4	21
TOTAL	04	40	20	58	17	03	20	57	22	79

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
Integrated Nutrient management	04	65	25	90	22	08	30	87	33	120
Production technology of pulsese	01	45	05	50	8	02	10	53	07	60
Value addition	1	6	1	7	-	-	-	6	1	7
Bio digester extract preparation	1	5		5				5		5
Scientific ginger cultivation practices	2	12		12				12		12
IFS	1	27	0	27	0	0	0	27	0	27
Women & Child care	1	0	14	14	0	0	0	0	14	14
Total	11	160	45	205	30	10	40	190	55	245

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
Integrated Nutrient management	01	42	0	42	08	0	08	50	0	50
Women and Child care	1	0	14	14	0	0	0	0	14	14
Total	02	42	14	56	08	0	08	50	14	64

7.G. Sponsored training programmes

S.No.	Area of training	No. of Courses	No. of Participants									
			General			SC/ST			Grand Total			
			Male	Female	Total	Male	Female	Total	Male	Female	Total	
1	Soil health and fertility management											
	Management of micronutrients in Plantation crops	01	135	-	135	-	-	-	135	-	135	
	Testing of organic matter and soil pH by Om kit	01	30	-	30	-	-	-	30	-	30	
	Total	02	165	-	165	-	-	-	165	-	165	

Details of sponsoring agencies involved

1.KSDA

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	Post harvest technology and value addition										
1.a.	Value addition	1	-	24	24	-	6	6	-	30	30
2.	Tailoring, stitching, embroidery, dying etc.	1	-	20	20	-	11	11	-	31	31
	Grand Total	2	-	44	44	-	11	11	-	61	61

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
Pulses	Velvet bean	-	-	10kg	350	08
Vegetables	Vegetable seed kit	Major vegetables		123 kits	61500	123
Total						

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
Vegetable seedlings	Drumstick	Dhanraj	-	500	2500	83
Fruits	Papaya	Taiwan	-	500	2500	83
Spices	Pepper rooted cuttings	Paniyur -1	-	1000	10000	41
Total				2000	15000	207

9.C. Production of Bio-Products

Bio Products	Name of the bio-product	Quantity Kg	Value (Rs.)	Number of farmers to whom provided
Misc food products	Turmeric powder	10kg	1200	12
Total		10 kg	1200	12

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.): 4 quarterly issues , 100 copies each

(B) Literature developed/published :

Item	Title	Authors name	Number
Research papers	Infestation status of teak plantation against stem borer, <i>Alterogystia cadambae</i> Moore (Lepidoptera : Cossidae) : a case study from Dandeli province of Karnataka	Gunaga, R. P., Hanumantha, M., Roopa S. Patil, Doddabasava and Biradar S. S.	
	A report on infestation status of <i>Loranthus</i> among teak plantation s of Dandeli province of Karnatka, India.	Hanumantha, M., Gunaga, R. P., Doddabasava , and Biradar, S. S. and Roopa S. Patil,	
Technical reports			
News letters	Newsletter – 4 issues (April- June 2010, July-Sept 2010, Oct-Dec 2010, Jan-mar-2011)	Publisher : Hegde, H.G.PC,KVK,UKS	500
Technical bulletins			
Popular articles	Kalpavrikshakke Sambhavaneeya Hosa kuttu	S. T. Prabhu and Roopa S. Patil	-
	Shatamanada Sadagara Kanda Mahila Dinacharane	Vinutha U. Muktamath, Roopa S. Patil and Rajeswari N.	
	Malenad adikege muluvagiruv beru hulu	S. T. Prabhu and Roopa S. Patil	
	Ginger production technologies	Ganapathi T	
	Scientific arecanut production technologies	Ganapathi T	
Extension literature	Om Soil testing Kit	Rajakumar GR and Hemant G.Hegde	1000
Folder	Biodigestor	Ganapathi T, Vinutha U. Muktamath,G.R. Rajakumar, Roopa S. Patil and BGN	1000
	Bhattada pramukha keetagalu hagoo rogalu	Roopa S. Patil, S. T. Prabhu and M. R. Ravikuar	
	Ginger production and value addition	Ravi kumar, M.R. Ganapathi, T Vinutha Muktamath	1000
booklet	Om Soil testing Kit (Kannada and English)	Rajakumar GR and Hemant G.Hegde	100
TOTAL			

10.B. Details of Electronic Media Produced

S. No.	Type of media (CD / VCD / DVD/ Audio-Cassette)	Title of the programme	Number
1	CD	Mechanized Paddy Transplanter	1

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

Shri . Ravindra Bhat is a young farmer ,who hails from Vanalli village of Sirsi taluk in Uttara Kannada district. He is a rare, well educated youth farmer with lot of initiative and zeal towards agriculture in the time when youths are shunning away from agriculture.

Shri Ravindra Bhat with lot of enthusiasm to achieve something in agriculture contacted Krishi Vigyan Kendra , Sirsi in the year 2006. Since then he has adopted many innovative techniques like scientific methods of pepper cultivation, multicropping pattern in areca nut plantation , etc. He is a regular contact farmer of KVK , Sirsi who attends different trainings, workshops organized by KVK, sirsi and has adopted many innovative and scientific methods of cultivation in his farm. In the year 2009 , he attended one of the awareness campaigns of KVK , Sirsi regarding food security. He is one innovative farmer who started cultivating paddy by adopting mechanized methods of paddy transplanting through KVK interventions.

Later KVK scientists gave him a complete training on the use of paddy transplanting machine , dapog methods of seed bed preparation , CMS technology and mulching in pepper , soil sampling , Integrated farming system, etc. Now he is a youth farmer facilitator of KVK in spreading these technologies to different farmers by making Raita Shakti Kutas with the help of KVK. KVK scientists also have encouraged him in growing black green gram in paddy fallows through FLD programmes. This has boosted his morale and he is making optimum use of his land round the year and is getting regular and stable income. He has become a champion for sustainable agriculture in the area.

In the year 2010 KVK suggested to buy a paddy transplanter and guided him to take subsidy from line department and gave him information about availability , model , etc. With this encouragement he along with five other youths has purchased a paddy transplanter and has formed a commodity group. In the first year that is kharif 2010 he has covered about 5 nearby panchayats and has covered about 50 acres of paddy transplanting through mechanization. Thus by KVK intervention he has brought the paddy land which were left fallow for more than 3 years due to labour scarcity . The youths have kept a target of covering more than 100 acres in the next kharif. Thus he is helping KVK in horizontal spreading of the technology there by increasing cereal and pulse area which is a great contribution to food security which is top priority programme of Govt. of India.

Thus , Shri Ravindra Bhat of Vanalli is a model for all youths with self respect for taking up agriculture as an enterprise.

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

The depletion of soil organic matter is taking place at an alarming rate, Farmers are adopting different methodologies due to higher cost of farm inputs and shortage of labour which is aggravating the faster depletion of organic matter. Campaigns and training lectures did not cause an impact. Hence KVK scientist developed the tool called the Om Soil Kit where in a farmer can rapidly test his soil and get an inference regarding the important productivity parameters such as soil organic matter status ,pH of the soil and the And the kits were distributed to 25 SHGs in the district. The farmers reaction was overwhelming and thank the KVK scientist for developing the kit which has educated them in soil and crop productivity enhancement and sustainable agriculture. Similar opinion was revealed by extension functionaries and NGOs working in the district.

Similarly Jalodhar mapak a low cost tool for gauging the depth to the water table in different seasons has helped the farmer to understand the gravity of the problem and the importance of soil drainage and soil erosion in crop productivity.

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	Areca nut	Multi storeyed cropping system with Areca nut, Black pepper, Nutmeg	Sustainable land utilization, Maximum benefit of space, light ,soil and moisture regime

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

- Identification of courses for farmers/farm women :
 - PRA of the villages
 - Bench mark Survey
 - Field Visits
- Rural Youth :
 - Income generating activity
 - Entrepreneurship development in agriculture based on PRA
- Inservice personnel: **Need based training,**

10.G. Field activities

- i. Number of villages adopted : Tigani,Kuntavani,Baragadde
- ii. No. of farm families selected : 96
- iii. No. of survey/PRA conducted : 3

10.H. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab :

- 1. Year of establishment : September 2005
- 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	741	552	142	123208
Water Samples	160	160	105	
Plant samples	-	-	-	
Manure samples	-	-	-	
Others (specify)	23	23	23	
Total	924	735	270	

Details of samples analyzed during the 2010-11 :

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)
Soil Samples	330	210	50	25,200*
Water Samples	24	24	24	
Plant samples	-	-	-	
Manure samples	-	-	-	
Others (specify)	12	12	12	
Total	362	246	86	25,200

*amount yet to be received from various sources

10.I. Technology Week celebration

Period of observing Technology Week: From 20-7-2010 to 26-7-2010

Total number of farmers visited : 810

Total number of agencies involved : 04

Number of demonstrations visited by the farmers within KVK campus : 05

Other Details

Types of Activities	No. of Activities	Number of Farmers	Related crop/livestock technology
Gosthies	01	34	Organic farming
Lectures organized	08	452	Paddy, pulses , horticulture crops, organic farming , etc.
Exhibition	01	615	Paddy, pulses , horticulture crops, organic farming , etc.
Film show	02	540	Paddy transplanting , vermi composting , organic farming , floriculture
Fair	-	-	-
Farm Visit	05	240	Paddy , arecanut , pepper
Diagnostic Practicals	10	150	
Supply of Literature (No.)	10	600	
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 during the technology week		810	

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)
Processing of black pepper	500	80%	230/kg	240/kg
IDM in black pepper	25	60%	362/vine	718/vine
Rhizome rot management in ginger	600	80%	80000/acre	200000/acre
Mechanized paddy transplanting	60	10%	60000/ha	75000/ha

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

11.B. Cases of large scale adoption

Black pepper processing: 500 farmers adopted processing method of solarization in between polythene sheets a technology developed by UASD. Now the technology has spread to the neighboring districts and state.

Rhizome rot management in ginger: The incidence due to bacterial rot was from 30-90% . A low cost IDM technology by UASD was disseminated through training, demonstrations and seminars. The disease incidence was brought down to 10%. Now the area under ginger is around 7000 ha and the technology has spread not only in the district but also neighboring districts Hassan, chikkamagalur, shimoga and bidar.

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

- Area under pepper has increased due to dissemination of knowledge on management of diseases in pepper, processing and low cost plant propagation technology.
- Progressive farmers and youth groups have purchased 5 paddy transplanters
- Yield maximization in ginger by 40%
- IN M practices and foliar spray methods have been adopted by the farmers.

PART XII - LINKAGES

12.A. Functional linkage with different organizations

Sl.No	Name of organization	Nature of linkage
1	Sri Kshetra Dharmastala Grameenabhivrudhi Yojane (SKDRDP)	Training, Field visits, Method demonstration, Seminars.
2	JSS, Mysore	Training, Field Visits, Method Demonstrations
3	State Dept. of Agriculture	Trainings, demonstrations, seminars and field days.
4	State Dept. of Horticulture	Training programmes, demonstrations, seminars and field days, NHM Activities.
5	Thotagar's Service Society, Sirsi	Trainings, input procurement, seminars.
6	State Dept. of Animal husbandry & Veterinary Sciences	Animal Health Camps, trainings.
7	Grameen Banks	Guidance to beneficiaries about schemes in Trainings
8	Rotary / Lions club / Junior chamber	Trainings
9	BAIF, Institute for rural development	Trainings, demonstrations.
10	Water shed department	Trainings.
11	All India Radio, E-TV and Door Darshan	Publicity and transfer of technology
12	Kadamba charitable trust, Sirsi	Trainings, method demonstration, meetings , Seminars.
13	Snehakunja Charitable Trust, Honnavar	Training & method demonstration.
14	Farmers clubs	Trainings, demonstrations, seminars and field days.
15	D- RUDSETI, Haliyal and Mundgod	Trainings, demonstrations and field days.

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.)
AICRP soil science trials on rice	June2010	D.R.R.Hyderabad	15000
National anola campaign	July 2010	IIHR, Bangalore	873750
Empowerment of SC farm house holds in agriculture zones of northern Karnataka	April 2010	Dept of Agriculture, Govt of Karnataka	3048000
Empowerment of ST farm house holds in agriculture zones of northern karnataka	April 2010	Dept of Agriculture, Govt of Karnataka	1686000

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? Survey of three AEZ at K.K.Halli at Haliyal Taluk, Onikere at Sirsi Taluka and Holigade at Kumta Taluk of the district.

Coordination activities between KVK and ATMA during 2010-11

S. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK	Other remarks (if any)
01	Meetings	Development Departments	4	-	-
02	Research projects	-	-	-	
		-	-	-	
03	Training programmes	-	-	-	
		-	-	-	
04	Demonstrations	-	-	-	
		-	-	-	
05	Extension Programmes	-	-	-	
	Kisan Mela	-	-	-	
	Technology Week	-	-	-	
	Exposure visit	-	-	-	
	Exhibition	-	-	-	
	Soil health camps	-	-	-	
	Animal Health Campaigns	-	-	-	
	Others (Pl. specify)	-	-	-	
06	Publications	-	-	-	
	Video Films	-	-	-	
	Books	-	-	-	
	Extension Literature	-	-	-	
	Pamphlets	-	-	-	
	Others (Pl. specify)	-	-	-	
07	Other Activities (Pl. specify)	-	-	-	
	Watershed approach	-	-	-	
	Integrated Farm Development	-	-	-	
	Agri-preneurs development	-	-	-	
		-	-	-	

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

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Constraints if any
1.	Training		Nil		No
	On integrated management of diseases of plantation and horticultural crops	Farmers			
		Extension Functionaries			
		Rural youths			
2.	Demonstrations		Nil		No
	Plastic kotte wrapping to areca growers	Farmer/Extension functionary/rural youth			
	Scientific method of Bordeaux mixture preparation				
	Seed treatment to Onion seeds				
3.	Survey for collection of diseases samples for forecasting	Farmers/department officials/mass media	38715.00	24357.00	No
4.	Dissemination of Technologies		20472.00	15511.00	

12. G Kisan Mobile Advisory Services

Month	No. of SMS sent	No. of farmers to which SMS was sent	No. of feedback / query on SMS sent
April 2010	5	350	-
May	4	350	-
June	7	350	-
July	8	350	-
August	6	350	-
September	5	350	-
October	9	350	-
November	4	350	-
December	5	350	-
January 2011	6	350	-
February	4	350	-
March	5	350	-

PART XIII- PERFORMANCE OF INFRASTRUCTURE IN KVK

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. (kgs)	Cost of inputs	Gross income	
Cereals	30.06.2010	17.12.2010 to 20.12.2010	0.8	KMP-105	TL seeds	678	3150	13560	
				KMP-105	bulk	603		5608	
				Intan	bulk	1603		14908	
				Mixture (Abhilash and other exptls var)	bulk	232		2158	

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	
	Om Soil testing Kit	25 Main kits	17000	20000	Only trial kits are being produced
		25 Refill kits kits	5000	7500	

13.E. Utilization of hostel facilities

Accommodation available (No. of beds): 20

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
April-2010	14	01	-
May-2010	-	-	-
June-2010	-	-	-
July-2010	-	-	-
August-2010	06	17	-
September-2010	06	01	-
October-2010	02	01	-
November-2010	05	04	-
December-2010	30	03	-
	27	06	
Jan-2011	29	02	-
February-2011	02	13	-
March-2011	15	04	
	72	01	

PART XIV - FINANCIAL PERFORMANCE

14.A. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Branch code	Account Name	Account Number	MICR Number	IFSC Number
With Host Institute	SBI	Dharwad	03151	Comptroller,UASD	1002545154		
With KVK	SBI	Sirsi	0197	PC, KVK,UK,Sirsi	301578095325	581002401	0000917

14.C. Utilization of KVK funds during the year 2010-11 (Rs. in lakh)

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances	3500000	-	3911991
2	Traveling allowances	100000	-	113302
3	Contingencies			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	180000	180000	178514
B	POL, repair of vehicles, tractor and equipments	140000	140000	139277
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	75000	75000	74788
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	30000	30000	34169
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	175000	175000	168927
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	80000	80000	81942
G	Training of extension functionaries	25000	25000	19622
H	Maintenance of buildings	30000	30000	30000
I	Establishment of Soil, Plant & Water Testing Laboratory	-	-	-
J	Library	5000	5000	3442
K	Extension activities	30000	30000	28272
L	Farmers field school	25000	25000	16450
TOTAL (A)		4395000	4395000	4800696
B. Non-Recurring Contingencies				
1	Works	-	-	-
2	Equipments including SWTL & Furniture	750000	750000	733707
3	Vehicle (Four wheeler/Two wheeler, please specify)	-	-	-
4	Library (Purchase of assets like books & journals)	10000	10000	10324
TOTAL (B)				
C. REVOLVING FUND				
GRAND TOTAL (A+B+C)		5155000	5155000	5544727

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

Year	Opening balance as on 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st April of each year
April 2008 to March 2009	214358.52	23266	25	237599.52
April 2009 to March 2010	237599.52	69697	59699	247597.52
April 2010 to March 2011	247597.52	213882	162688	298791.52

15. Details of HRD activities attended by KVK staff during 2010-11

Name of the staff	Designation	Title of the training programme	Institute where attended	Dates
Dr. Roopa S. Patil	SMS (Agril. Entomology)	Technology demonstration for harnessing oilseed and pulse productivity	UAS, Dharwad	26.07.10 to 30.07.10 (5 days)
		Use of biotechnology and awareness on GM crops and post release monitoring	UAS, Dharwad	06.09.10 to 07.09.10 (2 days)
		Mass production of parasitoids against papaya mealy bug	NBAIL, Bangalore	28.10.10 to 30.10.10 (3 days)
		Harnessing the potential of biopesticides against pests and diseases : its implications in sustainable crop protection	TNAU, Coimbatore	09.11.10 to 29.11.10 (21 days)
		development and promotional strategies of GM crops for transfer of technology centers	UAS, Dharwad	19.02.11
Dr.Rajakumar GR	SMS Soils Science	Remote Sensing and GIS applications in Agriculture developments	MANAGE, Hyderabad	19-23 July 2010

SUMMARY FOR 2010-11

I. TECHNOLOGY ASSESSMENT

Summary of technologies assessed under various crops

Thematic areas	Crop	Name of the technology assessed	No. of trials
Integrated Nutrient Management	Paddy	Evaluation of foliar Si in paddy	06
Integrated Pest Management	Arecanut	Organic based products for the management of arecanut rootgrub	05
	Paddy	Ecofriendly approaches in the management of leaf folder in paddy	10
	Mango	Use of plant extracts from bio digester for the management of leaf hoppers and powdery mildew in mango	03
Integrated Crop Management	Long pepper	Production of long pepper as subsidiary income generating crop	10
Value addition	Jackfruit	Efficacy of poly tunnel drier for production of hygienic jackfruit/leather/figs	04
	Fish	Efficacy of solar tunnel drier for dehydration of fish	04
Mushroom Cultivation	Oyster Mushroom	Assessment of media for production of oyster mushroom	05
Total			47

Summary of technologies assessed under livestock

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials
Feed and Fodder management	Cattle	Production of green fodder (Bajra+Cowpea)	08
Total			

Summary of technologies assessed under home science

Thematic areas	Enterprise	Name of the technology assessed	No. of trials
Mushroom Cultivation	Mushroom	Assessment of media for production of oyster mushroom	05

Spices and condiments	Processing	Solarization of black pepper in between UV resistant polythene sheets		15	-	30	28	7.14			114750	559000	478955	4.89	111000	540000	42000	4.86
	IDM	Integrated management of foot rot of blackpepepr		08	0.06	6.8	1.8	73			115000	40253	287543	3.99	87500	232646	145146	2.66
	Disease Management	Yield maximization through disease management	-	04	1	300	155	93.54			126750	900000	773250	7.1	115000	465000	350000	4.04
Commercial																		
Medicinal and aromatic	Income Generation	Production of long pepper as subsidiary income generating crop	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fodder																		
Plantation	Insect Management	Management of rhinoceros beetle in coconut	-	02	1.0	-	-	-	-	-	-	-	-	-	-	-	-	-
	Nutrient Management	Soil test based nutrient management in arecanut	-	13	4	33.06	27.83 50.27			44000	3875000	343500	8.81	38000	325000	287000	8.55	
Fibre																		
Others (pLspecify)		Extraction and utilization of oils and fats from Garcinia Species	-	03	-													
The model was not suitable for garcinia species.																		
Total																		

Farm implements and machinery

Name of the implement	Crop	Name of the technology demonstrated	No. of KVKs	No. of Farmer	Area (ha)	Filed observation (output/man hour)		% change in major parameter	Labor reduction (man days)				Cost reduction (Rs./ha or Rs./Unit ect.)			
						Demonstration	Check									
Groundnut decorticator	Groundnut	Popularization of groundnut decorticator	-	03	06	2/100 kg deshelling	12/100 kg deshelling	83%	10				800			
Paddy Transplanter	Paddy	Popularization and use of mechanized paddy transplanter as IGA through commodity groups	-	10	05	3/ha	50/ha	52%					3250			

IV. Training Programme

Farmers' Training 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
Integrated Farming	3	0	0	0	54	9	63	54	09	63
Production of low value and high volume crop	3	130	15	145	25	05	25	155	20	175
Cultivation of Fruit	02	46	-	46	5	-	5	51	-	51
Export potential of ornamental plants	1	52	0	52	0	0	0	52	0	52
Production and Management technology	05	99	5	80	30	09	39	129	14	143
Processing and value addition	01	15	-	15	07	-	07	22	-	22
Others (pl.specify)	3	45	7	52	15	5	20	50	12	62
e) Tuber crops										
Production and Management technology	2	95	25	120	25	15	40	120	40	160
Production and Management technology	02	35	3	38	5	2	7	40	05	45
Processing and value addition	02	35	05	40	10	-	10	45	05	50

Production and management technology	2	40	15	55	10	05	15	50	20	70
Designing and development for high nutrient efficiency diet	1	0	20	20	0	5	05	0	25	25
Value addition	2	08	34	42	0	11	11	08	45	53
Women empowerment	1	0	18	18	0	10	10	0	28	28
Location specific drudgery production	3	37	15	52	05	10	15	42	30	72
Integrated Disease Management	1	14	0	14	0	0	0	14	0	14
Mushroom production	1	10	12	22	02	00	02	12	12	24
Entrepreneurial development of farmers/youths	1	12	02	14	0	0	0	12	02	14
TOTAL	36	673	176	825	193	86	274	856	267	1123

Farmers' Training 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
Weed Management	1	10	02	22	01	03	01	11	15	26
Production of low value and high volume crop	2	65	15	80	25	05	30	90	20	110
Plant propagation techniques	3	55	10	65	35	18	53	90	28	118
Nursery Management	2	-	-	-	63	20	83	63	20	83
Production and Management technology	1	20	0	20	0	0	0	20	0	20
Processing and value addition	2	65	20	85	15	10	25	80	30	110
Others (pl.specify)	1	16	-	16	-	-	-	16	-	16
Production and Management technology	3	35	15	50	15	10	25	50	25	75
Production and management technology	2	23	-	23	-	14	14	23	14	37
Soil fertility management	02	19	-	19	10	-	10	29	-	29
Soil and water testing	03	45	-	45	11	-	11	56	-	56
Household food security by kitchen gardening and nutrition gardening	2	32	30	62	0	10	10	30	42	72
Designing and development for high nutrient efficiency diet	1	0	16	16	0	02	02	0	18	18
Gender mainstreaming through SHGs	1	0	13	13	00	0	0	0	13	13
Value addition	3	25	45	70	12	20	32	37	65	102
Women empowerment	2	0	35	35	0	7	7	0	42	42

Location specific drudgery production	5	50	35	85	15	19	34	65	54	119
Integrated Pest Management	6	76	40	116	45	14	59	121	54	175
Mushroom production	1	15	30	45	08	15	23	23	45	68
TOTAL	43	551	306	867	265	167	419	804	485	1289

Training for Rural Youths including sponsored training programmes (on campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops	1	15	-	15	6	-	6	21	-	21
Planting material production	1	15	7	22	8	5	13	23	12	35
Value addition	1	12	6	18	5	1	6	17	7	24
Any other (pl.specify)										
Management of micronutrients in Plantation crops	01	135	-	135	-	-	-	135	-	135
Testing of organic matter and soil pH by Om kit	01	30	-	30	-	-	-	30	-	30
Total	05	207	13	220	19	06	25	226	19	245

Training for Rural Youths including sponsored training programmes (off campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops	1	12	8	18	6	1	7	18	8	26
Value addition	2	16	8	24	6	2	8	22	10	32
Small scale processing										
Post Harvest Technology	1	12	4	16	5	-	5	17	4	21
TOTAL	04	40	20	58	17	03	20	57	22	79

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
Integrated Nutrient management	04	65	25	90	22	08	30	87	33	120
Women and Child care	1	0	14	14	0	0	0	0	14	14
Production technology of pulse	01	45	05	50	8	02	10	53	07	60
Value addition	1	6	1	7	-	-	-	6	1	7
Bio digester extract preparation	1	5		5				5		5
Scientific ginger cultivation practices	2	12		12				12		12
IFS	1	27	0	27	0	0	0	27	0	27
Total	11	160	45	205	30	10	40	190	55	245

Sponsored training programmes

S.No.	Area of training	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
1	Soil health and fertility management										
a	Management of micronutrients in Plantation crops	01	135	-	135	-	-	-	135	-	135
B	Testing of organic matter and soil pH by Om kit	01	30	-	30	-	-	-	30	-	30
	Total	02	165	-	165	-	-	-	165	-	165

Details of vocational training programmes carried out for rural youth

S.No.	Area of training	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
1	Value addition	1	-	24	24	-	6	6	-	30	30
2	Others (pl.specify)										
	Tailoring, stitching, embroidery, dying etc.	1	-	20	20	-	11	11	-	31	31
	Agril. para-workers, para-vet training										
	Grand Total	2	-	44	44	-	11	11	-	61	61

V. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services	600	600	-	600
Diagnostic visits	18			
Field Day	07	210	60	270
Group discussions	15	430		430
Kisan Ghosthi				
Film Show	10	500	-	500
Self -help groups	06	62	15	77
Kisan Mela	12	10000		10000
Exhibition	05	1500	40	1540
Scientists' visit to farmers field	20			
Plant/animal health camps				
Farm Science Club				
Ex-trainees Sammelan				
Farmers' seminar/workshop	17	680	-	680
Method Demonstrations	15	430	-	430
Celebration of important days	02	115	32	147
Special day celebration				
Exposure visits	08	160	0	160
Soil Health Campaigns	6			
Total	741	14057	147	14834

Details of other extension programmes

Particulars	Number
Electronic Media : CD	1
Extension Literature : Om Soil Kit	1000
News Letter : 04 issues	500
News paper coverage:	
Technical Articles :	
Technical Bulletins :	
Technical Reports :	
Radio Talks :	09
TV Talks	01
Animal health amps (Number of animals treated)	-
Others (pl.specify)	
Total	

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	Paddy	KMP-105 T1 seeds	6.78	13560.00	25
Vegetables	Vegetable seed kit	-	-	123 kits	123
Green Manure	Velvet bean	-	-	10	08
Total					

Production of planting materials by the KVKs

Crop category	Name of the crop	Name of the variety (if hybrid pl. specify)	Number	Value (Rs.)	Number of farmers
Vegetable seedlings	Drumstick	Dhanraj	500	2500	83
Fruits	Papaya	Taiwan	500	2500	83
Spices	Pepper	Paniyur-1	1000	10000	41
Total			2000	2500	207

Production of Bio-Products

Bio Products	Name of the bio-product	Quantity	Value (Rs.)	No. of Farmers
		Kg		
Misc food products	Turmeric powder	10 kg	1200	12
Supplementary feed	Azolla	83kg	8300	83
Total		93 kg	9500	95

VII. DETAILS OF SOIL, WATER AND PLANT ANALYSIS 2010-11

Samples	No. of Samples	No. of Farmers	No. of Villages	Amount realized (Rs.)
Soil	330	210	50	25200
Water	24	24	24	
Plant			-	
Manure			-	
Others (pl.specify)	12	12	12	
Total	362	246	86	25200

VIII. SCIENTIFIC ADVISORY COMMITTEE

Number of SACs conducted : 01

IX. NEWSLETTER

Number of issues of newsletter published : 04

X. RESEARCH PAPER PUBLISHED

Number of research paper published : 03

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.)

PHOTO GALLERY



Demonstration of Groundnut decorticator



Demonstration of use of bio fertilizers in paddy



Diagnostic visit to ear head bug affect paddy field



Footrot management in black pepper



Statelevel Ginger Seminar



Training cum demo on mechanized paddy transplanting



Management of tea mosquito in cashew



Nutrition Vegetable garden for small farmers



IPM practices for rootgrub management



Vocational training on bakery product preparation



Vocation training on tailoring



Imparting knowledge on soil acidity management