PROFORMA FOR ANNUAL REPORT 2011-12

(FOR THE PERIOD APRIL 2011 TO MARCH 2012)

KRISHI VIGYAN KENDRA (UTTARA KANNADA)

GENERAL INSTRUCTIONS

Please these instructions very carefully before starting preparation

Sl. No.	Instructions
General	Annual report is the most important achievement report for the KVK and it directly reflects the overall achievements pertaining to the reported period. Hence due care need to be given at your end for preparing this.
	Period of Report if from April 2011 to March 2012
	Last date of receiving the soft copy through email to ZPD VIII is 30th April 2012 positively.
	Please prepare minimum of 20 good action photographs with relevant captions covering various mandated activities of the KVK in High resolution JPG format and send separately along with this report
	By carefully preparing Summary Table you are helping ZPD VIII to compile your report. Hence please prepare the Summary tables carefully tallying with the relevant portions of the main report on all aspects.
	In the soft copy alone you please retain the blank column and rows as such with - as the same would be easy for ZPD VIII to compile and analyze the data
1.7	Under demonstration unit, kindly give name of unit. Source of funding must be mentioned
3.B.	This should tally with the thrust areas given in Sl.No.2.7
3.B2.	This can be made in landscape table
4.A1 to 4.B.4	Total of 4.A.1 should tally with 4.B.1, 4.A.2 with 4.B.2, 4.A.3 with 4.B.3. and 4.A.4 with 4.B.4
5.A.	For example thematic area – popularization of variety, and under this thematic area if two varieties have been popularized, please give separately.
5.A and 5.B	Kindly ensure that hybrids mentioned are really hybrids and then incorporate in the appropriate column
4.A, 4.B, 4.C, 5.A and 5.B	In case of all OFTs and FLDs, raw data (data on OFT and FLD on individual farmers basis) is required to be maintained at KVK level carefully and all data for this report must be compiled based on the raw data.
7 .A to 7.H	Please ensure that the total figures are tallying properly
Part VIII	Extension activity under celebrations for each important day, please insert separate rows and give appropriate data separately. Clubbing of data may be avoided.
10.A	Monthly, quarterly and Annual Report of KVK are compilation reports only and need not be considered as Technical Reports.
Cover page	For sending to ZPD, cover page should be same as given in the first page of the format. In other words no need of putting photographs and other picture formats. The same may be included while submitting the final Annual Report during Annual Review Workshop.

PART I - GENERAL INFORMATION ABOUT THE KVK

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

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

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

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

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

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

1.4. Year of sanction:2004

1.5. Staff Position (as 31st March 2012)

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(Agril .Ent)	Dr (Mrs) Roopa S. Patil	SMS (Agril. Entomology)	F	Agricultural Entomology	Ph.D (Agril. Entomology)	15600-39100+6000(AGP)	24330	3.12.2008	P	GM
3	SMS	Smt. Vinutha U. Muktamath	SMS (Home Science)	F	Home Science	M.Sc (Home Science)	15600-39100+6000(AGP)	22250	15.07.2009	P	GM
4	SMS	Shri Shivashenkaramurthy M.	SMS(Agronomy)	M	Agronomy	MSc(Agronomy)	15600-39100 +6000(AGP)	21600	28.11.2011	P	SC
5	SMS	Vacant									
6	SMS	Vacant									
7	SMS	Vacant									
8	Programme Assistant(Lab Tech.)	Vacant									
9	Programme Assistant (Computer	Mrs. Annapurna F. Neeralgi	Programme Asst. (Computer)	F	Computer Science	BCA	9300-37800 + 4200 GP	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 GP	10230	13.11.2008	P	GM
11	Assistant	Shri Somashekaraiah S. L.	Sr. Assistant	M	Accounts	-	10000-18150	10500	14.10.2011	P	SC
12	Jr. Stenographer /Typist	Miss Purnima K. Hirehal	Typist	F	Typist	MA	8000-14800	8200	12.11.2009	P	ST
13	Driver - LV	Mr.Balappa Taragar	Driver	M	Driver (LV)	SSLC	5800-10500	6000	06.10.2009	P	GM
14	Driver	Vacant									
15	Supporting staff	Mr. H.A. Nadaf	Cook cum caretaker	M	Cook cum Caretaker	10th	5200-8200	5500	02.08.07	P	cat-1
16	Supporting staff	Vacant									

1.6. Total land with KVK (in ha) : 2.5 ha

S. No.	Item	Area (ha)
1	Under Buildings	0.5
2.	Under Demonstration Units	-
3.	Under Crops	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	25118	Good
Motor bike KA 25 EC 7562 KA 25 EC 7564	Hero Honda - Passion 2009 2009	 42,450.00 42,450.00	 6770 5313	 Good Good
Toyota Qualis Jeep KA 31M 2652	 2004	 5,00,000.00	 131642	 Good

C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Godrej copier	30-03-2001	80,234/-	Good condition
Stabilizer	30-03-2001	6,000/-	’’
Portable OHP	31-03-2001	23,920/-	’’
Honda make EBK 2000 generator	31-03-2001	32,800/-	’’
EB 833 Altimeter	25-02-2002	10,990/-	’’
Thomson TV 29’’ monitor	30-03-2002	28,700/-	’’
Thomson CD player	30-03-2002	6,500/-	’’
Sharp VCR	30-03-2002	12,300/-	’’
Computer and accessories	30-03-2003	72,513/-	’’
Public address system	26-02-2003	10,500/-	’’
Nikon Camera	29-09-2003	28,350/-	”
Air Conditioner for computer hall	27-09-2003	10,500/-	’’
Photo display frame	27-09-2003	17,000/-	’’
Exhibition showcase	27-09-2003	14,000/-	’’
Scanner	27-09-2003	3,500/-	’’
Sony Digital Camera	2006	13,000/-	Under repair
Computer HP- with accessories	31.3.2007	36,000/-	’’
Motorized screen	2008	24,000/-	’’
Lexmark Printer	March 2008	15,043/-	’’
Printer (4 in one)	31.3.2009	13,950/-	’’
Sony DV cam – Portable camera	Jan-2010	1,84,000/-	’’
Computer and accessories-HP DC-7000 series (2 Nos)	April-2010	77690/-	’’
Lenovo s10-3s Idea pad	4.02.2011	21600/-	’’
Printer- HP 1007	30-03-2011	4900/-	Good

1.8. Details SAC meeting conducted in 2011-12

Sl.No.	Date	Number of Participants	No. of absentees	Salient Recommendations	Action taken
1.	23.07.2012	23	06	Suggested to strengthen website and email facility and to register about 10000 farmers to facilitate KMAS through SMSs	1500 farmers have been registered under this scheme through Way2SMS. The KVK website is updated regularly
				Success Stories regarding ginger disease management should be popularized through different media	Two radio programmes , one TV coverage and 2 popular articles have been popularized
				As there is lot of demand for quality seeds and seedlings a poly house should be established for producing the same and technology to establish a processing unit should be	Proposal has been sent and work is initiated.

				obtained by RHSC,Dharwad	
				Kvk web address, email id, phone and fax numbers should be publicized by printing them on all the publications and vehicle of kvk.	Implemented
				Proposal to establish a custom hiring centre at KVK is to be sent to UASD in view of helping small and marginal farmers	Initiated
				Talukawise Khariff and Rabi krishi utsavas should be organized in coordination with line departments	Talukawise krishi utsavas in the district , Krishi Jayantis and other melas are being organized in coordination with Developmental Depts. NGO, Cooperative Societies. etc.
				Information of different varieties of fodder demo plots at ARS paddy should provided to the farmers	Farmers and extension workers who participated in bhoochetana and other on campus training are taken for field visits to these demo plots
				Training schedule should be made available to DATC, Kumta	Scheduled has been prepared and sent to Head DATC, Kumta
				Information on weed management and contingent crop plan should be provided	Information has been provided to JDA , Karwar
				Training programme on calf management and processing of fodder should be arranged in coordination with Animal Husbandary Dept. SMS(Animal Science) should be appointed to this on priority basis	Training in IFS village have been arranged
				Training on value addition of milk and milk products should be organized to women SHGs	Trainings at Kantraji – Sirsi taluka and Hodike shirur – Honnavar taluka have been organized.
				Vocational trainings to farm youths and women SHGs should be organized and field days for every FLD should be arranged	5 vocational trainings on propagation techniques of pepper and 2 vocational trainings on bakery product preparation and one vocational training on embroidery were organized
				Souvenir of KVK,Sirsi should be published	Will be taken up
				Followup after issue of Soil Health Cards should be made and farmers should be given information on climate change	Will be initiated

PART II - DETAILS OF DISTRICT

2.1 Major farming systems/enterprises

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

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

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

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

2.3 Soil type/s

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

		silty clay loam.	

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

S. No	Crop	Area (ha)	Production (Metric tons)	Productivity (kg /ha)
1	Paddy	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	Arecanut	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

* Please provide latest data from authorized sources. Please quote the source

2.5. Weather data

Month	Rainfall (mm)	Temperature ^{0} C		Relative Humidity (%)
		Maximum	Minimum	
April 2011	44.6	32.8	19.4	71.45
May 2011	46.3	27.1	20.0	81.4
June 2011	714.7	26.0	19.6	88.6
July 2011	672.6	26.0	19.1	89.9
August 2011	425.1	27.0	19.2	90.1
Sept 2011	423.3	31.6	18.9	85.95
Oct 2011	109.8	31.6	20.9	75.2
Nov 2011	53.2	30.4	16.7	67.35
Dec 2011	0	30.3	14.0	74
Jan 2012	0	30.5	12.9	69.8
Feb 2012	0	33.1	13.9	55.9
March 2012	0	34.5	18.3	62.5

*Source : ARS Paddy, Sirsi

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

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

Hens			
Desi	**125633**	0	1.25Kg
Improved	**239940**	157041.25	2Kg
Ducks	**11234**	479880	4.5Kg
Turkey and others	**125**	50553	6Kg

Category	**Area**	**Production**	**Productivity**
Fish			
Marine		62779.56 mt	
Inland		7015.6 mt	
Prawn			
Scampi			
Shrimp			

* Please provide latest data from authorized sources. Please quote the source

2.7 District profile has been **Updated** for 2011-12 Yes / No:

2.8 Details of Operational area / Villages

Sl.No.	Taluk	Name of the block	Name of the village	How long the village is covered under operational area of the KVK (specify the years)	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Sirsi	Banavasi Janmane Hulekal Sirsi	Andagi Bidralli Ramapur, Hebbatti, Kantraji, Hegadekatta Vaddinakoppa Kenchagadde Manjuguni Yadurbail, Maragundi, Gudnapur	2 years	Ginger Mango Arecanut Paddy Banana Blackpepper	Rhizome rot ginger Powdery mildew and hoppers Soil acidity and Nut drop Rootgrub menace, Ear head bug in paddy, Blast , 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, processing technologies
2	Siddapur	Bilagi	Keregadde , Bilagi and Akkunji Avaraguppa	2 year	Pepper ,Paddy, Arecanut	Improper processing , Soil acidity and Low yield	Processing technologies , INM
3	Mundagod	Mundagod Kalakoppa	Indur	One year	Paddy	Soil acidity and Si deficiency Insect pests and diseases	Nutrient management, IPM
4	Honnavar	Haldipur Hadinabal	Habbu Haldipur Karwa	One year	Coconut Paddy	Rhinoceros beetle damage in coconut Labour	IPM, mechanization, Processing technolgoy

5	Kumta	Aghanashini	Aghanashini Mirjan IgalaKurve	One Year	Paddy, Groundnut	Salt accumulated soils,Nutrient deficiency	INM,IPM,Mechanization
6	Joida	Gunda	Gunda	Two Years	Arecanut, Blackpepper	Nutrient deficiency, foot rot in blackpepper, nut splitting and nut drop in arecanut	Production technology of blacklpepepr and arecanut

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
12	12	53	54	16	15	204	208

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
128	105		3107	1051	1378		12254

Seed Production (Qtl.)		Planting materials (Nos.)	
5		6	
Target	Achievement	Target	Achievement
		2000	**600**

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

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

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions										
				Title of OFT if any	Title of FLD if any	Number of Training (farmers)	Number of Training (Youths)	Number of Training (extension personnel)	Extension activities (No.)	Supply of seeds (Qtl.)	Supply of planting materials (No.)	Supply of livestock (No.)	Supply of bio products	
01	**Production Technology, IDM, INM, Mechanization**	Pepper / cardamom	Plant Propogation, Disease management, Processing	1. Production of quality seedlings in cardamom through CMS technology	1. Processing of quality black pepper 2. Foot rot management of blackpepper 3. Plant propagation through CMS technology	5	2	5	Field Day-1	-	200		**50**	**1.5**
02	**Production Technology, IDM, INM, Mechanization,**	Paddy	Acidic Soils, Blast, Ear head bug,WBPH , Leaf blight , Nutrient Deficiency, Mechanization	1. Efficacy of foliar silicon in rice under laterite soils. 2. Ecofriendly management of crabs & earhead bug in paddy 3. Introduction of KMP105 short duration variety for summer	1. IPM /INM in paddy 2. Popularization and use of mechanized paddy transplanter as IGactivity through commodity groups	6	1	5	Field day-3	KMP 105 seeds - 2.5 qtl			Randia Spinosa Neemoil	22 Kg 3 ltrs
03	Production Technology ICm,INM,Varietal introduction, Mechanization,	Oilseeds &Pulses	Paddy fallow	1. production technology of green gram under irrigation in paddy fallows 2. Production technology of groundnut under irrigation in paddy fallows	1. ICM in blackgram 2. ICM in greengram 3. ICm in groundnut 4.Popularization of groundnut decorticator	8	0	5	Field day-01	Greengram – 2.25qtl Groundnut – 4 qtl Groundnut decorticator-03 Blackgram – 2 qtl			Rhizobium N rileyi	12.5kg 10kg

04	Production technology, IDM,IPM, organic farming	Plantation crops(Banana, Arecanut, Nutmeg, Mango)	Disease and pest management, plant propagation management of nutrients	1. Use of plant extracts from biodigester for the management of hoppers and powdery mildew in mango	1. soil test based fertilizer use in arecanut 2. Management of arecanut root grub through botanicals	17	4	5						
05	Production Technology of ginger	Ginger	Rhizome rot in ginger , lack of knowledge on resistant and high yielding varities,improper nutrient management and weed control methods,processing and value addition	1. Management of weeds in ginger through pre-emergent weedicides.	-	7	2	4						
06	Organic Farming	Field and Plantation Crops	Reluctant to use pesticides and fertilisers	-	-	3	-	5						
07	Kitchen Garden	-	Small land holdings left fallow	-	-	2	-	5						
08	Apiculture	-	Clean honey harvesting , lack of scientific knowledge	-	-	3	-	-						
09	Processing and Value addition/ IG activities/drudgery reduction	Ginger , banana ,cocoa,kokum and other vegetable and fruits.	Wastage of indigenous fruits and vegetables available , low rates.	1. preparation of jackfruit pappad for commercial purpose.	1. Processing of quality black pepper 2. Popularisation of Xanthosoma sagittifolium as a subsidiaru income generating activity. 3.Popularisation of fuel efficient eco friendly chulhas.	14	2	6						

10	Fodder(Green fodder , azolla cultivation , fodder trees)	-	Scarcity of green fodder in summer	1. Production of fodder Bajra and legume mixture as a source of nutrient rich green fodder during summer.	-	1	1	5						
11	Others (nutrition , mother –Child care , etc)	-	Lack of knowledge	-	-	2	1	-						
12	Integrated farming system	Paddy – Arecanut based system	Small land holdings	-	-	5	-	5						

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	Use of plant extracts from bio digester for the management of hoppers and powdery mildew in mango	KVK,UKS	Mango	01		10	Demo : 05
2	Management of weeds in ginger through pre-emergent weedicides	UAS Bangalore	Ginger	01		02	
3	Efficacy of Foliar Silicon in rice under laterite soils	UASBangalore	Paddy	01		04	
4	Production technology of Green gram under irrigation in paddy fallows	UASDharwad	Greengram	01		02	
5	Production of Fodder bajra and Legume mixture as source of nutrient rich green fodder during summer	ITK	Bajra+cowpea	01		02	
6	Eco friendly Management of crabs in paddy	ARS Paddy	Paddy	01		04	Demo : 02
7	Production technology of Groundnut under irrigation in paddy fallows		Groundnut	01		02	
8	Eco friendly approach to manage ear head bug in paddy	ARS Paddy	Paddy	01	0	04	Demo: 01
9	Production of Quality seedlings in cardamom through CMS technology	IIHR,Bangalroe	Cardamom	01		04	Demo: 01
10	Preparation of Jackfruit leather	DFID,UK	Jackfruit	01		2	Demo: 03
11	Preparation of jackfruit pappad for commercial purpose	KVK,Sirsi	Jackfruit	01		2	Demo:02
12	Introduction of KMP 105 short duration paddy variety for summer	UAS , Bangalore	Paddy	01		03	Field Day
13	Popularisation of groudnut decorticator	UAS, Bangaluru	Groundnut		01	4	Demo :3
14	ICM in groundnut	UAS Dahrwad	Groundnut		01	04	Field day : 01
15	ICM in Black gram	UAS Dharwad	Blackgram		01	02	
16	Integrated Crop Management in Green gram	UASDharwad			01	01	
17	INM in paddy	UASDharwad	Paddy		01	02	
18	Popularization and use of mechanized paddy transplanter as IG activity through commodity groups	UAS Dharwad	Paddy		01	6	Demo : 10
19	IPM in Paddy	UASDharwad	Paddy		01	05	Demo:02 Field day: 01
20	Processing of quality black pepper	UASDharwad	Blackpepper		01	15	
21	Foot rot management of black pepper	KVK UKS	Blackpepper		01	06	Field day:01 Demo :02
22	Plant propagation through CMS technology	IIHR Bangalore	Blackpepper		01	20	Demo : 05
23	Management of sucking insects in Bt cotton	UAS Dahrwad	Bt. Cotton		01	01	
24	Soil Test Based Fertilizer use in Arecanut	UAS Dharwad	Arecanut		01	01	

25	Management of arecanut root grub through botanicals	UAS Dharwad	Arecanut		01	02	Demo: 04
26	Popularisation of Fuel efficient eco friendly chula		-		01	02	Demo :02
27	Popularization of Xanthosoma Sagittifolium as a subsidiary income generating activity	UAS Dharwad	Xanthosoma Sagittifolium		01		

3.B2 contd..

No. of farmers covered															
OFT				FLD				Training				Others (Specify)			
General		SC/ST		General		SC/ST		General		SC/ST		General		SC/ST	
M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
03	0	0	0	-	-	-	-	87	23	40	15	05	02	15	08
03	0	0	0	-	-	-	-	10	06	2	1	-	-	-	-
03	02	-	-	-	-	-	-	22	08	04	01	---	-	-	-
05	-	-	-	-	-	-	-	18	07	3	-	-	-	-	-
03	02	-	-	-	-	-	-	14	08	02	04	-	-	-	-
05	-	-	-	-	-	-	-	33	14	03	01	6	3	4	-
05	-	-	-	-	-	-	-	22	04	04	02	-	-	-	-
04	01	-	-	-	-	-	-	21	04	04	03	10	6	2	2
03	-	-	-	-	-	-	-	20	2	0	-	10	-	-	-
-	05	-	-	-	-	-	-	-	20	-	-	-	12	-	-
-	05	-	-	-	-	-	-	-	35	-	-	-	18	-	-
05	-	-	-	-	-	-	-	24	12	08	02	-	-	-	-
-	-	-	-	-	03	-	-	18	21	06	04	08	12	-	-
-	-	--	-	8	4	-	-	32	18	-	-	15	10	-	-
-	-	-	-	12	8	-	-	19	11	04	-	-	-	-	-
-	-	-	-	16	4	-	-	34	14	2	-	-	-	-	-
-	-	-	-	15	05	-	-	28	11	10	02	-	-	-	-
-	-	-	-	07	03	-	-	48	29	8	6	22	10	-	-
-	-	-	-	12	-	-	-	62	8	-	-	18	2	-	-
-	-	-	-	15	-	-	-	68	15	-	-	35	-	-	-
-	-	-	-	10	-	-	-	45	-	-	-	25	-	-	-
-	-	-	-	25	-	-	-	42	10	-	-	25	-	-	-
-	-	-	-	10	05	8	2	28	10	05	04	-	-	-	-
-	-	-	-	20	-	-	-	32	-	-	-	-	-	-	-
-	-	-	-	05	-	-	-	22	8	-	-	15	04	-	-
-	-	-	-	-	06	-	-	-	18	28	10	-	-	-	-
-	-	-	-	05	-	-	-	-	-	-	-	-	-	-	-

PART IV - On Farm Trial

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Integrated Nutrient Management	01									01
Varietal Evaluation	01									01
Integrated Pest Management	02					01				03
Integrated Crop Management	01	01								02
Integrated Disease Management										
Small Scale Income Generation Enterprises										
Weed Management				01						01
Resource Conservation Technology										
Farm Machineries										
Integrated Farming System										
Seed / Plant production				01						01
Value addition						02				02
Drudgery Reduction										
Storage Technique										
Mushroom cultivation										
Total	**05**	**01**		**02**		**03**				**11**

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

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

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

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

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

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

4.B. Achievements on technologies Assessed and Refined

4.B.1. Technologies Assessed under various Crops

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha (Per trail covering all the Technological Options)
Integrated Nutrient Management	Paddy	Efficacy of Foliar Silicon in rice under laterite soils	05	05	0.3
Varietal Evaluation	Paddy	Introduction of KMP-105 short duration Paddy variety for summer	10	10	0.3
Integrated Pest Management	Mango	Use of Plant extracts from bio digester for the management of hoppers and powdery mildew	03	03	
	Paddy	Eco friendly management of Crabs	05	05	
	Paddy	Eco friendly approach to mnage ear head bug	05	05	
Integrated Crop Management	Green gram	Production technology of green gram in Paddy fallows	05	05	0.3
	Ground nut	Production technology of Ground nut in Paddy fallows	05	05	0.3
Fodder					
Integrated Disease Management					
Small Scale Income Generation Enterprises					
Weed Management	Ginger	Management of weeds in Ginger through pre-emergent weedicide	03	03	
Resource Conservation Technology					
Farm Machineries					

Integrated Farming System					
Seed / Plant production	Cardamom	Production of Quality seedling in Cardamom through CMS technology	03	03	900 seedlings
Value addition	Jack fruit	Preparation of Jack fruit leather	05	05	
	Jack fruit	Preparation jack fruit pappad for commercial purpose	05	05	
Drudgery Reduction					
Storage Technique					
Mushroom cultivation					
Total	11				

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 (Per trail covering all the Technological Options)
Integrated Nutrient Management					
Varietal Evaluation					
Integrated Pest Management					
Integrated Crop Management					
Integrated Disease Management					
Small Scale Income Generation Enterprises					
Weed Management					
Resource Conservation Technology					
Farm Machineries					
Integrated Farming System					
Seed / Plant production					
Value addition					
Drudgery Reduction					
Storage Technique					
Mushroom cultivation					
Total					

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

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials	No. of farmers
Evaluation of breeds				
Nutrition management				
Disease management				
Value addition				
Production and management				
Feed and fodder	Cattle	Bajra + Cowpea	05	05
Small scale income generating enterprises				
Total	01			

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

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials	No. of farmers
Evaluation of breeds				
Nutrition management				
Disease management				
Value addition				
Production and management				
Feed and fodder				
Small scale income generating enterprises				
Total				

4.C1. Results of Technologies Assessed

Results of On Farm Trial 1:

Crop/ enterprise	Farming situation	**Problem definition**	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Paddy	Irrigation	Shortage water and blast problem during summer	Introduction of KMP-105 short duration Paddy variety for summer	10	Assessment of KMP-105 short duration paddy variety	Yield q/ha No.of tillers Duration Blast occurance Stem Borer occurrence	40.8 q/ha 22.4/hill 110-115 days No blast 1-2 plants affected /m2	KMP-105 given more yield and escape from shortage water due to short duration. 110 days v/s 125 days Rasi Variety. No Pest and diseases	Expressed good opinion on yield and duration.where as Rasi experience the water stress at flowering stage.	Nil	Nil

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Rasi		32.64	q/ha	13962/ha	1.6
Rasi	UAS, Dharwad	32.64	q/ha	13962/ha	1.6
KMP 105	UAS,Bangalore	40.80	q/ha	18602/ha	1.9

Results of On Farm Trial 2

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
Ground nut	Paddy residual moisture and Irrigation	Low yield	Production technology of Ground nut in Paddy fallows	5	Broad bed and furrow method sowing	Yield No.of Pods	13.1 q/ha 20.52/plant	Recorded higher yield and No.of pods	Though No.of pods and yield is higher making broad bed and furrow is expensive and scarcity and labour.	-	-

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
Line Sowing		12.1	q/ha	31811/ha	2.90
Dibbling on ridges	UAS, Dharwad	12.6	q/ha	32940/ha	2.89
Broad bed furrow sowing	UAS, Dharwad	13.1	q/ha	34933/ha	3.00

Results of On Farm Trial 3

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Green gram	Paddy Residual moisture	Lower yield	Production technology of green gram under irrigation in Paddy fallows	5	Broad bed and furrow method sowing	Yield	6.74q/ha	Recorded lower yield than recommended practice (6.86 q/ha)	As there loss of moisture during preparation land bed making yield might have reduced . No protected irrigation was provided	nil	nil

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Broadcasting		5.50	q/ha	7572/ha	1.85
Green gram –Line sowing	UAS, Dharwad	6.86	q/ha	10966/ha	2.14
Broad bed furrow sowing	UAS, Dharwad	6.74	q/ha	9420/ha	1.87

Results of On Farm Trial 4

Crop/ enterprise	Farming situation	**Problem definition**	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Paddy	Rainfed	Soil acidity ans silicon deficiency	Efficacy of Foliar Silicon in rice under laterite soils	05	Spray of Si@4 ml/l with RDF	Yield	44.00 q/ha	Recorded higher yield with spray of Si @ 4 ml/l with RDF	Expressed good opinion on assessed technology	Nil	nil

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice)		35.24	q/ha	20564 /ha	2.01
Technology option 2	UAS Dharwad	42.10	q/ha	26340 /ha	2.25
Technology option 3	UAS Bangalore	44.00	q/ha	27522 /ha	2.30

Results of On Farm Trial 5

Crop/ enterprise	Farming situation	**Problem definition**	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Ginger	Rainfed	Weed problem due non weeding because of heavy rain and labour problem	Management of weeds in Ginger through pre-emergent weedicide	03	Pre emergent weedicides Diuron @ 1.0 kg a.i./ha	Yield Weed Population Weed bio mass	73.6 q/ha 111/m^2 149.3/ m^2	RP recorded higher yield of 74.4 q/ha compared to AP (73.6q/ha) and FP 68.4 q/ha	Diuron had suppressing effect on sprouting and growth of ginger in initial stages	Need for identification of selective herbicide for ginger is to be researched	Diuron had suppressing effect on sprouting and growth of ginger in initial stages

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. / ha	BC Ratio
13	14	15	16	17	18
Hand weeding		68.4	q/ha	56400	3.19
Mulching with green leaves	UASD	74.4	q/ha	66960	4.0
Diuron@1.0 kg ai/ha	UASD	73.6	q/ha	66510	4.0

Results of On Farm Trial 6

Crop/ enterprise	Farming situation	**Problem definition**	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Cardamom	Rainfed	Non availability of Quality seedlings and poor germination with higher cost of production	Production of Quality seedling in Cardamom through CMS technology	03	Seedling Production through CMS Technology	% Germination No. of Germinated seedlings	94.66 284 /300	Result showed the higher germination with lower cost and 100 % survivability	Farmers express good opinion on germination and lower cost of production	Nil	Nil

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice)		168.3	Per 300 seeds sown	74.5	1.90
Technology option 2	UAS, Dharwad	240.7	Per 300 seeds sown	126.7	2.17
Technology option 3	UAS Dharwad (KVK,UK)	284.0	Per 300 seeds sown	275.6	33.81

Results of On Farm Trial : 07

Crop/ enterprise	Farming situation	**Problem definition**	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Fodder bajra	Rainfed	Scarcity of fodder during summer	Assessment of fodder bajra – legume mixture in paddy fallows	5	Green fodder cowpea mixture in paddy fallows	Fodder yield tones/ha Palatability	28 t/ha Very Good	33.33% higher yield than the fodder maize, Fodder available for a longer period	• Highly palatable • Increased milk yield by ½ ltr/day • Green fodder available for longer period	-	-

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
Fallow	-	-	-	-	
Fodder Maize	UASD	21	t/ha	15000	3.5
Fodder bajra legume mixture	UASD	28	t/ha	21500	4.3

4.C1. Results of Technologies Assessed

Results of On Farm Trial :08

Crop/ enterprise	Farming situation	**Problem definition**	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Jackfruit	-	Low shelf life, wastage No market value for soft pulped varieties	Preparation of Jackfruit leather	03	heating the pulp to 70° + Drying with addition of preservative kms 0.1 gms/kg pulp	Shelf life , Quality	Shelf life : Demo : 8 months RP : 3 months	Colour : golden yellow Taste : Good	Good quality and fetches more price	-	-

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (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
	-	-	-	-	
Recommended Practice	UAS Bangalore	15 kg	-	900	6
Alternative Practice	DFID,UK	15 kg	-	1500	7.5

Results of On Farm Trial :09

Crop/ enterprise	Farming situation	**Problem definition**	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Jackfruit	-	Low shelf life, wastage, uniform size	Preparation of Jackfruit pappad for commercial purpose	05	Steaming pulp to retain colour and preparing uniform size and weight pappads for commercial purpose	Shelf life , Quality	Shelf life : Demo : 10months FP : 8 months	Good Colour Increased shelflife	Good quality and fetches more price	-	-

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
Farmers practice : Sundrying	-	2000	No	2100	2.3
Recommended Practice	-	-	-	-	-
Alternative Practice	ITK	2000	No	3000	4.0

Results of On Farm Trial :10

Crop/ enterprise	Farming situation	**Problem definition**	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Paddy	Rainfed	Crab damage to seedlings	Eco friendly Management of crabs in paddy	05	Broadcasting of Randia spinosa matured fruits 20 kg/ha + ash 2 kg/ha	% seedling damage Yield (q/ha)	4..35% 45.50 q/ha	Eventhough % seedling damage in is 4.35 as compared to 1.05 in phorate applied plots, but noticed death of non target animals.	Spreading crushed Randia fruits is also effective in minimising crab damage. This plant product is best alternative to phorate which kills beneficial organisms apart from crab	-	-

Contd..

Technology Assessed	Source of Technology	Production	q/ha	Net Return (Profit) in Rs. / ha	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice) : Application of Phorate 10 G @ 2.5 kg/ha	-	46.10	q/ha	32000.00	2.60
Technology option 2: Nil	-	-	-	-	-
Technology option 3: Broadcasting of *Randia spinosa* matured fruits 20 kg/ha + ash 2 kg/ha	Preliminary results from ARS (Paddy) trials	45.50	q/ha	30800.00	2.54

Results of On Farm Trial :11 ON going

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	% Hopper s incidence % powdery mildew incidence No. of fruits per sq, meter	4.5 4 06	Observed less incidence of powdery mildew and hoppers and more yield. Fruits were larger in size and attractive	Plant appeared more greener and fruits were larger in size	Spray schedule has to be systematized	To get improved quality and yields. Efficacy of the repellent action to be worked out.

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**	-				
Technology option 2 Monocrotophos @ 1.25 ml/l + Hexaconozole @ 1.0 ml/l	UAS Dharwad	Fruits yet to be harvested			
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				

Results of On Farm Trial :12 : OnGoing

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		Ecofriendly management of ear head bug in paddy	05	Spraying with Nimbecidine 300 ppm @ 3 ml/l, 2 sprays at 15 days interval	Number of ear head bugs/hill % grain damage Yield (q/ha)	1.5/hill Yet to be compiled	Spraying with neem pesticides at grain filling stage results in residue free produce apart from minimizing ear head bug menace	Residue free produce	-	-

Contd..

Technology Assessed	Source of Technology	Production	q/ha	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice)	-	Yet to be compiled	q/ha	-	-
Technology option 2	-		q/ha		
Technology option 3	Preliminary results from ARS (Paddy) trials		q/ha		

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

OFT : 01 :

1 Title of Technology Assessed : Introduction of KMP-105 short duration Paddy variety for summer

2 Problem Definition : Farmers adopting Rasi variety for summer which is duration of 120-125 days and there is shortage water during the season. So, there is need of short duration paddy variety for summer season.

3 Details of technologies selected for assessment: KMP 105 short durated paddy for summer

4 Source of technology: UAS Bangalore

5 Production system and thematic area: Varietal evaluation

6 Performance of the Technology with performance indicators: KMP 105 recorded highest yield of 40.8 q/ha. The neighboring farmers have desired to procure the seed.

7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques : Expressed good opinion on yield and duration where as Rasi experience the water stress at flowering stage.

8 Final recommendation for micro level situation : Growing of KMP 105 variety for summer season

9 Constraints identified and feedback for research : -

10 Process of farmers participation and their reaction: Method demonstration, group discussion, field visits.

OFT : 02 :

1 Title of Technology Assessed : Production technology of Ground nut in Paddy fallows

2 Problem Definition : Lower yield

3 Details of technologies selected for assessment: Broad bed and furrow method sowing

4 Source of technology: UAS Dharwad

5 Production system and thematic area: ICM

6 Performance of the Technology with performance indicators: Recorded numerically higher yield and No.of pods

7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques : Though No.of pods and yield is higher making broad bed and furrow is expensive and scarcity of labour

8 Final recommendation for micro level situation : Nil

9 Constraints identified and feedback for research: nil

10 Process of farmers participation and their reaction :Field visits, trainings, Method demonstration. Farmers showed negative response

OFT : 03 :

1 Title of Technology Assessed : Production technology of green gram in Paddy fallows

2 Problem Definition : Lower yield

3 Details of technologies selected for assessment: Broad bed and furrow method sowing

4 Source of technology: UAS Dharwad

5 Production system and thematic area: ICM

6 Performance of the Technology with performance indicators: Recorded lower yield (6.74q/ha) than recommended practice (6.86 q/ha)

7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques : Farmers not shown good response as there is more labour involvement

8 Final recommendation for micro level situation : Line sowing

9 Constraints identified and feedback for research: Moisture loss

10 Process of farmers participation and their reaction : Field visits, trainings, Method demonstration. Farmers showed negative response

OFT : 04 :

1 Title of Technology Assessed : Efficacy of Foliar Silicon in rice under laterite soils

2 Problem Definition : Soil acidity and silicon deficiency

3 Details of technologies selected for assessment: Spray of si@ 4 ml /ltr with RDF

4 Source of technology: UAS Bangalore

5 Production system and thematic area: Nutrient management

6 Performance of the Technology with performance indicators: -

7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques : As there loss of moisture during preparation land bed making yield might have reduced .It is risky

8 Final recommendation for micro level situation : Spray of si@ 4 ml /ltr with RDF

9 Constraints identified and feedback for research: Nil

10 Process of farmers participation and their reaction: Field visits, trainings, Result demonstration. Farmers showed positive response

OFT : 05:

1 Title of Technology Assessed : Management of weeds in Ginger through pre-emergent weedicide

2 Problem Definition : Weed problem due non weeding because of heavy rain and labour problem

3 Details of technologies selected for assessment: Pre emergent weedicides Diuron @ 1.0 kg a.i./ha

4 Source of technology: UAS Dharwad

5 Production system and thematic area: Weed management

6 Performance of the Technology with performance indicators: nil

7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques : Selective herbicide of ginger crop is to be researched.

8 Final recommendation for micro level situation : Mulching with green leaves is the superior practice

9 Constraints identified and feedback for research : Urgent need for identification of selective herbicide for ginger

10 Process of farmers participation and their reaction : Method demonstration, field visits, result demonstrations.

OFT : 06 :

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

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

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

4 Source of technology: IIHR, Bangalore and refined by UASD(KVK,Sirsi)

5 Production system and thematic area: Seeds and seedling production

6 Performance of the Technology with performance indicators: Result showed the higher germination (94.66) with lower cost and 100 % survivability.

7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques : Farmers express good opinion on germination and lower cost of production , low maintenance and pest free.

8 Final recommendation for micro level situation : Seedling Production through CMS Technology

9 Constraints identified and feedback for research : Technology needs to be stream lined and approved by the scientific body.

10 Process of farmers participation and their reaction: low cost technology with good results.

OFT: 07

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 (1:4)
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. Multiple cuttings,. Farmers are approaching the KVK for this technology and seeds.
7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques : Increased milk yield , improved animal health, 100% appreciation by the farmers.
8 Final recommendation for micro level situation: Can be adopted 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. There is horizontal spread of technology.

OFT: 08

1. Title of Technology Assessed : Preparation of jackfruit leather
2 Problem Definition : Wastage and shelflife
3 Details of technologies selected for assessment : Drying with addition of preservative kms 0.1 gms/kg pulp plus heating the pulp to 70·
4 Source of technology : Dept.For International Development, UK
5 Production system and thematic area : Value Addition to soft pulped jackfruit which has no market.
6 Performance of the Technology with performance indicators: Good quality, more shelf life, more price
7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques : Good colour, flavor, taste

8 Final recommendation for micro level situation: Needs popularization, requires proper packaging and marketing know how

9 Constraints identified and feedback for research: nil

10 Process of farmers participation and their reaction: Good quality and fetches more price

OFT: 09

1. Title of Technology Assessed : Preparation of jackfruit papad for commercial purpose

2 Problem Definition : Wastage and shelf life

3 Details of technologies selected for assessment :
Steaming pulp to retain colour and preparing uniform size and weight pappads for commercial purpose

4 Source of technology: ITK

5 Production system and thematic area : Post harvest technology

6 Performance of the Technology with performance indicators: Good quality, more shelf life, more price

7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques : Good colour, more shelf life

8 Final recommendation for micro level situation: Can be adopted

9 Constraints identified and feedback for research: Need for nutritive analysis and need for appropriate packaging

10 Process of farmers participation and their reaction: Good quality and fetches more price

OFT: 10

1 Title of Technology Assessed : Ecofriendly management of crabs in paddy

2 Problem Definition : Crab damage to seedlings

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

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

5 Production system and thematic area : Rainfed and Plant protection

6 Performance of the Technology with performance indicators : No death stink in the vicinity of the farm

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

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

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

10 Process of farmers participation and their reaction: Crushed Randia fruits is also effective in minimising crab damage. This plant product is best alternative to phorate which kills beneficial organisms apart from crab.

OFT : 11

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 from various plant leaves, gobar gas slurry Jaggery , Butter milk , Pulses powder , Cow urine and Neem cake

4 Source of technology : Krishi Vigyan Kendra, Sirsi

5 Production system and thematic area: Rain fed and plant protection

6 Performance of the Technology with performance indicators : Need for assessment

7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques : Need for assessment

8 Final recommendation for micro level situation : -

9 Constraints identified and feedback for research :

10 Process of farmers participation and their reaction :

OFT : 12

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

2 Problem Definition : Ear head bug damage to grains

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

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

5 Production system and thematic area : Rainfed and Plant protection

6 Performance of the Technology with performance indicators: Initial results are encouraging

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

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

9 Constraints identified and feedback for research : -

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

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 refined t	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

Contd..

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)					
Technology Option 2 (Modification over Technology Option 1)					
Technology Option 3 (Another Modification over Technology Option 1)					

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

1. Title of Technology refined
2. Problem Definition
3. Details of technologies selected for refinement
4. Source of technology
5. Production system and thematic area
6. Performance of the Technology with performance indicators
7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques
8. Final recommendation for micro level situation
9. Constraints identified and feedback for research
10. Process of farmers participation and their reaction

PART V - FRONTLINE DEMONSTRATIONS

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

Sl. No.	Category	Farming Situation	Season and Year	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
									Proposed	Actual	SC/ST	Others	Total	
	Oilseeds	Paddy Residual Moisture and Irrigation	Summer 2012	Ground nut	GPBD-4		ICM	Integrated Crop Management	5	5	2	10	12	-
	Pulses	Paddy Residual moisture	Summer 2012	Black gram	TAU-1		ICM	Integrated Crop Management	10	10	-	44	44	-
		Paddy Residual moisture	Summer 2012	Green gram	Sel-4		ICM	Integrated Crop Management	8	8	4	11	15	
	Cereals	Rain fed	Kharif 2011	Paddy	Intan		INM	Integrated Nutrient Management	10	10	4	16	20	-
	Millets													
	Vegetables													
	Flowers													
	Ornamental													
	Fruit													
	Spices and condiments	Rainfed	Kharif 2011	Pepper	Paniyur-1		Value addition	Processing Black Pepper	15 Nos	15 Nos	-	15	15	-
		Rainfed	Kharif 2011	Pepper	Paniyur-1		IDM	Foot rot Managemnt in Black Pepper	250 Vines	250 Vines	-	10	10	-
		Rainfed	Kharif 2011	Pepper	Paniyur-1		Seeds/Seedling Prodcution	Plant Propagation through CMS	6250 Vines	6250 Vines	5	20	25	

								Technology						
	Commercial													
	Medicinal and aromatic													
	Fodder													
	Plantation	Rainfed	Kharif 2011	Arecanut	Local		INM	Soil test Based Fertilizer use	10	10	4	16	20	
	Fibre													
	Dairy													
	Poultry													
	Rabbitry													
	Pigerry													
	Sheep and goat													
	Duckery													
	Common carps													
	Mussels													
	Ornamental fishes													

	Oyster mushroom													
	Button mushroom													
	Vermicompost													
	Sericulture													
	Apiculture													
	Implements													
	Others (specify)													

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

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	
	Oilseeds	Residual Soil Moisture	Summer 2012	Groundnut	TMV2	-	Crop Production	ICM	Summer 2012				paddy
	Pulses												
	Cereals												
	Millets												
	Vegetables												
	Flowers												
	Ornamental												
	Fruit												
	Spices and condiments												
	Commercial												
	Medicinal and aromatic												
	Fodder												
	Plantation												
	Fibre												

5.B. Results of Frontline Demonstrations

5.B.1. Crops

Crop	Name of the technology demonstrated	Variety	Hybrid	Farming situation	No. of Demo.	Area (ha)	Yield (q/ha)				% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
							Demo			Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
							H	L	A										
Oilseeds	ICM In Ground nut	TMV-2		Paddy Residual moisture and Irrigation	12	5	15.2	10.0	12.98	10.40	24.81	17152	48025	30873	2.8	14800	38480	23680	2.6
Pulses	ICM in Black gram	TAU-1		Residual Moisture	44	10	14.8	9.10	10.89	9.05	20.33	13550	32670	19120	2.4	12250	27150	14900	2.22
	ICM In Green gram	Sel-4		Residual Moisture	15	8	8.1	5.7	6.73	5.58	20.61	9614	20190	10576	2.1	8928	16740	7812	1.88
Cereals	INM In Paddy	Intan		Rainfed	20	10	46.6	38.4	42.31	37.23	13.65	21155	48195	27040	2.28	20414	42864	22455	2.09
	IPM in paddy	MTU - 1001	-	Rainfed	12	5	35.75	29.25	32.50	26.75	21.50	18500	38875	20375	2.10	18000	31500	13500	1.75
Millets																			
Vegetables																			
Flowers																			
Ornamental																			
Fruit																			
Spices and condiments	Processing for quality black Pepper	Paniyur-1		Rainfed	15	15 Nos	9.4	7.8	8.45	7.75	9.03	120740	333775	213035	2.76	115700	302250	186550	2.61
	Foot rot Management in Black Pepper	Paniyur-1		Rainfed	10	250 Vines	9.2	6.55	8.49	6.39	32.86	120740	335355	214615	2.78	118850	249210	130360	2.10
	Plant Propagation through CMS Technology in Black Pepper	Paniyur-1			25	6250 Vines	250 out of 250	246 out of 250	249.4 out of 250	137.4 out of 250 Vines	81.51	788	2490	1702	3.16	1000	1370	370	1.37
Commercial																			
Fibre crops like cotton	Management of sucking insetcs	-	Bt Cotton	Rainfed	25	10	27.5	21.50	24.5	20.75	18.07	24500	90650	66150	3.70	26750	76775	50025	2.87
Medicinal and aromatic																			

Fodder																			
Plantation	INM in Arecanut	Local		Rainfed	20	10	36.9	27.4	31.09	25.26	23.07	41500	354426	312926	8.5	34000	282912	248912	8.3
Arecanut	Organic based pest management	Local	-	Rainfed	5	250 trees	-	-	-	-	-								
Fibre																			
Others (pl.specify)	Popularization of Xanthosoma Sagittifolium as a subsidiary income generating activity	Xanthosoma Sagittifolium	-	Rainfed	05	0.2	35	28	31.5	24	31	40000	315000	275000	7.87	38500	270000	231500	6.00

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

** BCR= GROSS RETURN/GROSS COST

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

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**
No. of Tiller	21	18
Plant Height	131.4	118.2

FLD : ICM in Groundnut

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

Data on other parameters in relation to technology demonstrated		
Parameter with unit	**Demo**	**Check**
No. of pods/plant	19	13
% Leaf damage	2.75	6.50

FLD : ICM in Blackgram

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

Data on other parameters in relation to technology demonstrated		
Parameter with unit	**Demo**	**Check**
No. of pods per plant	35	27
Plant Height	25.85	22.83
% Pod damage	0.5	2.0

FLD : ICM in Greengram

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

Data on other parameters in relation to technology demonstrated		
Parameter with unit	**Demo**	**Check**
No. of pods per plant	23	20
Plant Height	18.9	15.35

FLD : Soil test based Fertilizer use 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**
No. of nuts dropped / tree	7	22
No. of splitted nuts / tree	6	19
% Control of nutdrop	69.9	-

FLD : Processing of quality blackpepper

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**
% processing	30.72	28.15
% increase in processing	9.13	
Luster	Dark berries with luster	Dim

FLD : Foot rot management of blackpepper

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**
% disease incidence	1.05	34.37
% control	96.95	-
Luster of leaves	Green leaves with luster	dim

FLD : Plant propagation through CMS technology

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**
% rooting	99.76	54.96
% increase in rooting	81.51	
Quality	Superior	Medium

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	0.6/trap	-
Blast (%)	<2.5	>5.0
Leaf folder (%)	<1.75	<3.25
Ear head bug /hill	<1.05	>4.50

FLD : Management of arecanut root grub through botanicals

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

Data on other parameters in relation to technology demonstrated		
Parameter with unit	**Demo**	**Check**
% larval mortality	72.86	84.41

FLD : Management of sucking insects in Bt cotton

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

Data on other parameters in relation to technology demonstrated		
Parameter with unit	**Demo**	**Check**
Aphids /3 leaves	0.25	3.50
Thrips /3 leaves	0.20	2.00
Shoot weevil %	2.5	2.4

5.B.2. Livestock and related enterprises

Type of livestock	Name of the technology demonstrated	Breed	No. of Demo	No. of Units	Yield (q/ha)				% Increase	*Economics of demonstration Rs./unit)				*Economics of check (Rs./unit)			
					Demo			Check if any		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					H	L	A										
Dairy																	
Poultry																	
Rabbitry																	
Pigerry																	
Sheep and goat																	
Duckery																	
Others (pl.specify)																	

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

** BCR= GROSS RETURN/GROSS COST

Data on additional parameters other than yield (viz., reduction of percentage diseases, increase in conceiving rate, inter-calving period etc.)

Data on other parameters in relation to technology demonstrated		
Parameter with unit	**Demo**	**Check if any**

5.B.3. Fisheries

Type of Breed	Name of the technology demonstrated	Breed	No. of Demo	Units / Area (m^2)	Yield (q/ha)				% Increase	*Economics of demonstration Rs./unit) or (Rs./m2)				*Economics of check Rs./unit) or (Rs./m2)			
					Demo			Check if any		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					H	L	A										
Common carps																	
Mussels																	
Ornamental fishes																	
Others (pl.specify)																	

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST
H-High L-Low, A-Average

Data on additional parameters other than yield (viz., reduction of percentage diseases, effective use of land etc.)

Data on other parameters in relation to technology demonstrated		
Parameter with unit	**Demo**	**Check if any**

5.B.4. Other enterprises

Enterprise	Name of the technology demonstrated	Variety / species	No. of Demo	Units / Area {m^2}	Yield (q/ha)				% Increase	*Economics of demonstration (Rs./unit) or (Rs./m2)				*Economics of check (Rs./unit) or (Rs./m2)			
					Demo			Check if any		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					H	L	A										
Oyster mushroom																	
Button mushroom																	
Vermicompost																	
Sericulture																	
Apiculture																	
Others (pl.specify)																	

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST
H-High L-Low, A-Average

Data on additional parameters other than yield (viz., additional income realized, employment generation, quantum of farm resources recycled etc.)

Data on other parameters in relation to technology demonstrated		
Parameter with unit	**Demo**	**Local**

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	8000/unit	Popularization of groundnut decorticator	05	6	03/100 kg deshelling	12/100 kg deshelling	70%	700	-	-	-	-	-	-	-	-
Paddy transplanter	3000/ha (Hiring charges)	Popularization and use of mechanizaed paddy transplanter as IGA through commodity groups	10	05	10/ha	52/ha	45%	2950	17050	51000	33950	2.9	20000	42000	22000	2.1
Fuel Efficient Chula	950/unit	Popularisation of Fuel efficient eco friendly chula	06	-	-	-	-	-	-	-	-	-	-	-	-	-

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

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

Popularization of groundnut decorticator

Data on other parameters in relation to technology demonstrated		
Parameter with unit	**Demo**	**Local**
Wastage	5%	6%
% Germination	96%	95%

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

Popularization and use of mechanizaed paddy transplanter as IGA through commodity groups

Data on other parameters in relation to technology demonstrated		
Parameter with unit	**Demo**	**Local**
Yield	46 q/ha	35q/ha

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

Popularisation of Fuel efficient eco friendly chula

Data on other parameters in relation to technology demonstrated		
Parameter with unit	**Demo**	**Local**
% Save in Fuel	30%	100%
% save in cooking time	15%	100%
% emission	20%	100%

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

Sl.No.	Activity	No. of activities organised	Number of participants	Remarks
1	Field days	**05**	**166**	
2	Farmers Training	35	490	
3	Media coverage	05		
4	Training for extension functionaries	05		
5	Others (Please specify)			

PART VI – DEMONSTRATIONS ON CROP HYBRIDS

Demonstration details on crop hybrids

Type of Breed	Name of the technology demonstrated	Name of the hybrid	No. of Demo	Area (ha)	Yield (q/ha)				% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demo			Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					H	L	A										
Cereals																	
Bajra																	
Maize																	
Paddy																	
Sorghum																	
Wheat																	
Others (pl.specify)																	
Total																	
Oilseeds																	
Castor																	
Mustard																	
Safflower																	
Sesame																	
Sunflower																	
Groundnut																	
Soybean																	
Others (pl.specify)																	
Total																	
Pulses																	
Greengram																	
Blackgram																	
Bengalgram																	
Redgram																	
Others (pl.specify)																	
Total																	
Vegetable crops																	
Bottle gourd																	
Capsicum																	
Others (pl.specify)																	
Total																	
Cucumber																	
Tomato																	
Brinjal																	
Okra																	
Onion																	
Potato																	
Field bean																	
Others (pl.specify)																	
Total																	
Commercial crops																	
Sugarcane																	
Coconut																	

Others (pl.specify)																	
Total																	
Fodder crops																	
Maize (Fodder)																	
Sorghum (Fodder)																	
Others (pl.specify)																	
Total																	

H-High L-Low, A-Average

*Please ensure that the name of the hybrid is correct pertaining to the crop specified

PART VII. TRAINING

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production										
Weed Management										
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/Irrigation										
Seed production										
Nursery management										
Integrated Crop Management										
Soil and Water Conservation										
Integrated Nutrient Management										
Production of organic inputs										
Others :Production Technology	2	33	17	50	7	0	7	40	17	57
Horticulture										
a) Vegetable Crops										
Production of low value and high volume crop	1	10	20	30	6	0	6	16	20	36
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl.specify)										
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										

Cultivation of Fruit										
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (pl.specify)	1	25	0	25	7	0	7	32	0	32
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl.specify)										
d) Plantation crops										
Production and Management technology	7	148	67	215	56	5	61	204	72	276
Processing and value addition	1	48	14	62	4	2	6	52	16	68
Others (pl.specify)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
f) Spices										
Production and Management technology	4	78	37	115	4	2	6	82	39	121
Processing and value addition	3	56	7	63	2	1	3	58	8	66
Others (pl.specify)										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (pl.specify)										
Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated nutrient management										
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient use efficiency										
Balanced use of fertilizers										
Soil and water testing										
Others (Organic Farming)	8	196	1	197	37	10	47	233	11	244
Livestock Production and Management										

Dairy Management										
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Animal Disease Management										
Feed and Fodder technology										
Production of quality animal products										
Others (pl.specify)										
Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	1	0	10	10	0	6	6	0	16	16
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing										
Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition	2	10	32	42	2	6	8	12	38	50
Women empowerment	2	0	54	54	0	9	9	0	63	63
Location specific drudgery production	3	26	55	81	0	0	0	26	55	81
Rural Crafts				0			0	0	0	0
Women and child care	1	0	0	0	0	40	40	0	40	40
Others (pl.specify)										
Agril. Engineering										
Farm machinery and its maintenance										
Installation and maintenance of micro irrigation systems										
Use of Plastics in farming practices										
Production of small tools and implements										
Repair and maintenance of farm machinery and implements										
Small scale processing and value addition										
Post Harvest Technology										
Others (pl.specify)										
Plant Protection										
Integrated Pest Management	5	72	74	146	15	1	16	87	75	162
Integrated Disease Management										
Bio-control of pests and diseases	1	13	0	13	1	0	1	14	0	14
Production of bio control agents and bio pesticides										
Others (pl.specify)										
Fisheries										
Integrated fish farming										
Carp breeding and hatchery management										
Carp fry and fingerling rearing										

Composite fish culture										
Hatchery management and culture of freshwater prawn										
Breeding and culture of ornamental fishes										
Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
Others (pl.specify)										
Production of Inputs at site										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production	**5**	**101**	**0**	101	**34**	**10**	44	135	10	145
Bio-fertilizer production										
Vermi-compost production										
Organic manures production										
Production of fry and fingerlings										
Production of Bee-colonies and wax sheets										
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
Mushroom production										
Apiculture	**2**	**65**	**0**	65	**0**	**0**	0	65	0	65
Others (pl.specify)										
Capacity Building and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths	**1**	**15**	**0**	15	**0**	**0**	0	15	0	15
Others (pl.specify): Activities of KVK	**3**	**78**	**20**	98	**9**	**2**	11	87	22	109
Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems	**2**	**6**	**0**	6	**0**	**15**	15	6	15	21
Others (Pl. specify)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
TOTAL	**50**	**879**	**408**	**1287**	**150**	**99**	**249**	**1029**	**507**	**1536**

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production				0			0	0	0	0
Weed Management	1	8	5	13	0	0	0	8	5	13
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming	4	60	1	61	30	11	41	90	12	102
Micro Irrigation/Irrigation										
Seed production										
Nursery management										
Integrated Crop Management										
Soil and Water Conservation										
Integrated Nutrient Management	1	17	0	0	0	0	0	17	0	17
Production of organic inputs										
Others (pl.specify)	4	44	21	65	31	14	45	75	35	110
Horticulture										
a) Vegetable Crops										
Production of low value and high volume crop										
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl.specify)										
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit										
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (pl.specify)										
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										

Others (pl.specify)										
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
f) Spices										
Production and Management technology	6	113	16	129	8	2	10	121	18	139
Processing and value addition										
Others (pl.specify)										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (pl.specify)										
Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated nutrient management										
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient use efficiency										
Balanced use of fertilizers										
Soil and water testing										
Others (pl.specify)										
Livestock Production and Management										
Dairy Management										
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Animal Disease Management										
Feed and Fodder technology										
Production of quality animal products										
Others (pl.specify)										
Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	2	0	0	0	32	12	44	32	12	44
Design and development of low/minimum cost diet				0			0	0	0	0

Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing										
Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition	2	0	59	59	0	0	0	0	59	59
Women empowerment										
Location specific drudgery production	2	26	5	31	0	0	0	26	5	31
Rural Crafts										
Women and child care	1	0	0	0	0	10	10	0	10	10
Others (pl.specify)										
Agril. Engineering										
Farm machinery and its maintenance										
Installation and maintenance of micro irrigation systems										
Use of Plastics in farming practices										
Production of small tools and implements										
Repair and maintenance of farm machinery and implements										
Small scale processing and value addition										
Post Harvest Technology										
Others (pl.specify)										
Plant Protection										
Integrated Pest Management	6	97	0	97	44	5	49	141	5	146
Integrated Disease Management	1	25	0	25	0	0		25	0	25
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others (Pest management in organic farming)	1	19	1	20	0	0	0	19	1	20
Fisheries										
Integrated fish farming										
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture										
Hatchery management and culture of freshwater prawn										
Breeding and culture of ornamental fishes										
Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
Others (pl.specify)										

Production of Inputs at site										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production										
Organic manures production	1	0	0	0	4	4	8	4	4	8
Production of fry and fingerlings										
Production of Bee-colonies and wax sheets										
Small tools and implements										
Production of livestock feed and fodder	3	0	0	0	92	25	117	92	25	117
Production of Fish feed										
Mushroom production										
Apiculture	1	13	0	13	0	0	0	13	0	13
Others (pl.specify)										
Capacity Building and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
Others (pl.specify)										
Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (Pl. specify)										
TOTAL	**36**	**422**	**108**	**513**	**241**	**83**	**324**	**663**	**191**	**854**

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										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production	04	62	02	64	0	0	0	62	2	64
Vermi-culture										
Mushroom Production										
Bee-keeping	01	10	0	10	08	0	08	18	0	18
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other :										
TOTAL	**5**	**72**	**2**	**74**	**08**	**0**	**08**	**80**	**02**	**82**

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										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture	01	0	0	0	04	04	08	04	04	08
Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other : Production of azolla	1	0	0	0	32	06	38	32	06	38
TOTAL	**02**	**0**	**0**	**0**	**36**	**10**	**46**	**36**	**10**	**46**

7.E. Training programmes for Extension Personnel including sponsored training programmes (on campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Integrated Pest Management										
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Any other (Agriculture and Allied Subjects) Topics Covered: Production technology of paddy- Vaieties, soils, soil Fertility management, Mechanization, Post Harvest technology Horticulture : production technology of arecanut,coconut,pineapple, Irrigation and drainage, Multistoreyed cropping, spices production and post harvest technology, Production of fruits and vegetables. Post Harvest technology of fruits and vegetables Organic farming Practices, IPM practices in cotton, Production technology of blackgram, greengram, Maize Agroforestry practices, Income generation in Homestead through agriculture.	05	130	53	183	25	20	45	175	73	248
Total	**05**	**130**	**53**	**183**	**25**	**20**	**45**	**175**	**73**	**248**

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Integrated Pest Management										
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production										
Household food security										

7.G. Sponsored training programmes conducted

S.No.	Area of training	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
1	**Crop production and management**										
1.a.	Increasing production and productivity of crops										
1.b.	Commercial production of vegetables										
2	**Production and value addition**										
2.a.	Fruit Plants										
2.b.	Ornamental plants										
2.c.	Spices crops										
3.	**Soil health and fertility management**										
4	**Production of Inputs at site**										
5	**Methods of protective cultivation**										
6	**Others (pl.specify)**										
7	**Post harvest technology and value addition**										
7.a.	Processing and value addition										
7.b.	Others (pl.specify)										
8	**Farm machinery**										
8.a.	Farm machinery, tools and implements										
8.b.	Others (pl.specify)										
9.	**Livestock and fisheries**										
10	**Livestock production and management**										
10.a.	Animal Nutrition Management										
10.b.	Animal Disease Management										
10.c	Fisheries Nutrition										
10.d	Fisheries Management										
10.e.	Others (pl.specify)										
11.	**Home Science**										
11.a.	Household nutritional security										
11.b.	Economic empowerment of women										
11.c.	Drudgery reduction of women										
11.d.	Others (pl.specify)										
12	**Agricultural Extension**										
12.a.	Capacity Building and Group Dynamics										
12.b.	Others (pl.specify)										
	Any other (Agriculture and Allied Subjects) Topics Covered: Production technology of paddy- Vaieties, soils, soil Fertility management, Mechanization, Post Harvest technology	05	130	53	183	25	20	45	175	73	248
	Horticulture : production technology of arecanut,coconut,pineapple, Irrigation and drainage, Multistoreyed cropping, spices production and post harvest technology, Production of fruits and vegetables. Post Harvest technology of fruits and vegetables Organic farming Practices, IPM practices in cotton, Production technology of blackgram, greengram, Maize Agroforestry practices, Income generation in Homestead through agriculture.	02	40	18	58	03	02	05	43	20	63
	Total	**07**	**170**	**71**	**241**	**28**	**22**	**50**	**218**	**93**	**311**

Details of sponsoring agencies involved

1. State Department of Agriculture (Bhoochetana Programme)

2. Water Shed Department

3.

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

S.No.	Area of training	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
1	**Crop production and management**										
1.a.	Commercial floriculture										
1.b.	Commercial fruit production										
1.c.	Commercial vegetable production										
1.d.	Integrated crop management										
1.e.	Organic farming										
1.f.	Others (pl.specify)										
2	**Post harvest technology and value addition**										
2.a. 2.b.	Value addition Others (pl.specify)										
3.	**Livestock and fisheries**										
3.a.	Dairy farming										
3.b.	Composite fish culture										
3.c.	Sheep and goat rearing										
3.d.	Piggery										
3.e.	Poultry farming										
3.f.	Others (pl.specify)										
4.	**Income generation activities**										
4.a.	Vermi-composting										
4.b.	Production of bio-agents, bio-pesticides, bio-fertilizers etc.										
4.c.	Repair and maintenance of farm machinery and implements										
4.d.	Rural Crafts										
4.e.	Seed production										
4.f. 4.g.	Sericulture Mushroom cultivation										
4.h.	Nursery, grafting etc.										
4.i.	Tailoring, stitching, embroidery, dying etc.										
4.j.	Agril. para-workers, para-vet training										
4.k.	Others : Bakery product preparation	**01**	**0**	**24**	**24**	**0**	**06**	**06**	**0**	**30**	**30**
5	**Agricultural Extension**										
5.a.	Capacity building and group dynamics										
5.b.	Others (pl.specify)										
	Grand Total	**01**	**0**	**24**	**24**	**0**	**06**	**06**	**0**	**30**	**30**

PART VIII – EXTENSION ACTIVITIES

Extension Programmes (including extension activities undertaken in FLD programmes)

Nature of Extension Programme	No. of Programmes	No. of Participants (General)			No. of Participants SC / ST			No.of extension personnel		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	05	104	46	150	12	04	16	10	0	10
Kisan Mela	03	1800	540	2340	470	152	722	130	8	138
Kisan Ghosthi										
Exhibition	05	524	384	908	103	75	178	54	35	89
Film Show	07	56	17	73	06	02	08	50	12	62
Method Demonstrations	28	124	64	188	70	27	97	40	25	65
Farmers Seminar										
Workshop	01	720	215	935	99	52	151	75	39	114
Group meetings	12	48	22	60	9	4	13	35	02	37
Lectures delivered as resource persons	45	809	510	1319	56	22	78	152	81	1600
Newspaper coverage										
Radio talks	08									
TV talks	02									
Popular articles										
Extension Literature	08	900	500	1400	200	50	250	25	10	35
Advisory Services	250	120	80	200	25	15	40	10	0	10
Scientific visit to farmers field	10	08	02	10	0	0	0	0	0	0
Farmers visit to KVK	925	925	117	1042	547	84	631	22	07	29
Diagnostic visits	52	22	10	32	10	15	25	0	0	0
Exposure visits	01				21					
Ex-trainees Sammelan										
Soil health Camp										
Animal Health Camp										
Agri mobile clinic										
Soil test campaigns										
Farm Science Club Conveners meet										
Self Help Group Conveners meetings	12	0	200	200	0	0	0	0	0	0
Mahila Mandals Conveners meetings	02	0	150	150	10	0	100	0	0	0
Celebration of important days : World Forest Day International Women's Day	02	54	12	66	10	30	40	08	002	10
Any Other										
Total	1378	6214	2869	9073	1648	532	2349	611	221	832

PART IX – PRODUCTION OF SEED, PLANT AND LIVESTOCK MATERIALS

9.A. Production of seeds by the KVKs

Crop category	Name of the crop	Variety	Hybrid	Quantity of seed (qtl)	Value (Rs)	Number of farmers to whom provided
Cereals (crop wise)						
Oilseeds						
Pulses						
Commercial crops						
Vegetables						
Flower crops						
Spices						
Fodder crop seeds						
Fiber crops						
Forest Species						
Others (specify)						
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
Commercial						
Vegetable seedlings	Drumstick	Dhanraj		125	620	62
Fruits	Papaya	Taiwan		150	750.00	62
Ornamental plants						
Medicinal and Aromatic						
Plantation						
Spices	Nutmeg	Sel		300	15000	70
Tuber						
Fodder crop saplings						
Forest Species						
Others(specify)						
Total						

9.C. Production of Bio-Products

Bio Products	Name of the bio-product	Quantity Kg	Value (Rs.)	Number of farmers to whom provided
Bio Fertilizers				
Bio-pesticide				
Bio-fungicide				
Bio Agents				
Others : IBA	Rooting Harmone	1.7kg	1995	57
Organic pesticide & liquid manure unit	Bio-digester	162	243000	162
Total				

9.D. Production of livestock materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	Number of farmers to whom provided
Dairy animals				
Cows				
Buffaloes				
Calves				
Others (Pl. specify)				
Poultry				
Broilers				
Layers				
Duals (broiler and layer)				
Japanese Quail				
Turkey				
Emu				
Ducks				
Others (Pl. specify)				
Piggery				
Piglet				
Others (Pl.specify)				
Fisheries				
Fingerlings				
Others (Pl. specify)				
Total				

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

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

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

Date of Start	Periodicity	Number of copies
April-2011	April-June 2011 – 03 months	200
July-2011	July-September2011 – 03 months	100
October-2011	Oct-dec 2011 03 months	100
Jan-2012	Jan-Mar-2012	100

(B) Literature developed/published

Item	Title	Authors name	Number
Research papers	1. performance Evaluation of Groundnut Decorticator(GSM-5 Model)	Vinutha U Muktamath	01
	2. Poultry , A successful enterprise of a promising farmwoman entrepreneur – A Case study		01
	3. Kadamba- Farmer friendly Co-operative supply and marketing chain system		01
Technical reports			
News letters			
Technical bulletins			
Popular articles	Hannina rasa dehakke hita	Vinutha U Muktamath	01
Extension literature	1. Halasina mahatva hagoo hannina rotti (leather) tayarike (Kannada Folder	Smt.Vinutha.U.Muktamath SMS (Home-Science) Dr.Hemanth .G. Hegde PC,KVK,sirsi Dr.Roopa Patil SMS (Agril. Entamology	
	2. Bettada Nelliya Kristi Hagu Oushadiya Gunagalu.	Ganapathi .T. Dr.Hemanth .G. Hegde Dr.Krishna Smt.Vinutha.U.Muktamath	
	3. Nutritive Vegetable garden lay out and plan	Smt.Vinutha.U.Muktamath SMS (Home-Science) Dr.Hemanth .G. Hegde PC,KVK,sirsi Dr.Roopa Patil SMS (Agril. Entamology)	
	4.Nutritional importance of banana figs (dried)	Smt.Vinutha.U.Muktamath SMS (Home-Science) Dr.Hemanth .G. Hegde PC,KVK,sirsi Dr.Roopa Patil SMS (Agril. Entamology) Smt. Annapurna F Neeralgi Prg. Asst(Comp)	
	5.Drudgery reduction /IGA in agriculture		
	6.Parthenium weed management – An awareness campaign		

	7.Kokum Processing as a Enterprise		
	7.Successful SHG		
	8.Integrated farming System		
	9.Succesful woman Entrepreneur		
Others (Book)	1. Quilting Technology ….Product Development (50 pages)	Dr. Jyoti V. Vastrad Mrs.Vinutha U. Muktamath Mrs. Sujata S.	50
	2. Raitana Angaladalli Krishi Tantrikategalu (Sept- 2011 , 30 pages)	. Raitana Angaladalli Krishi Tantrikategalu (Sept- 2011 , 30 pages)	100
TOTAL			

10.B. Details of Electronic Media Produced

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

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

Success Story of farm women in secondary agriculture:

TITLE :

LIVELIHOOD SECURITY THROUGH VALUE ADDITION OF MINOR FOREST FRUITS - SAGA OF A RURAL WOMEN, A CASE STUDY

Background:

Smt. Bhagirathi Hegde is a house wife hailing from a religious hindu family from remote Talagere village of Honnavar Taluk of Uttara Kannada , District in Karnataka. Her husband was a local priest with only ½ an acre of arecanut garden , which was the main source of livelihood. All was fine till her husband's illness in 2006, which confined him to bed. It was inevitable for this innocent lady with minimal primary education to take up any work to lead her family. Smt. Bhagirathi was not deterred by this setback, the knowledge she had on processing and medicinal value of indigenous under exploited minor forest fruits which have high neutraceutical and medicinal value came in hand to her.

Interventions
Training on processing and marketing
Initiative to start the venture
Technological know how
Production technology
Market Linkage

Process/Technology :
Syrup and squashes from Indigenous fruits most which of which are minor forest produces through process of osmosis and juice extraction.
Products prepared:

a. Kokum Juice with and without sugar
b. Kokum Kadi
c. Amla juice with and without sugar
d. Lemon-Ginger
e. Lemon-Honey
f. Brahmi Juice
g. Honey
h. Pineapple Syrup

She is one women entrepreneur who believes in her strength, dignity and potential and has not undergone any formal training nor taken any loan or subsidy. She has encashed her own indigenous knowledge, skills , limited resources and with little technical advice from KVK, Sirsi, is producing nearly 250 tonnes of value added products like squashes, juices and syrups using kokum, brahmi, amla,local ginger, pineapple, honey, Synaden dactylon(Garake) juice etcs. Blending them with local liquid organic jaggery. She sells them under brand "Swastik" and has market linkage with Kadamba , a co-operative society.

Initially she produced with the raw materials available in her garden , later started procuring from other farm women and SHGs thus providing employment opportunities to other women. She is engaging two women labours on regular basis. Her son who work for meager Rs. 2000/month has left his job and has joined hands with his mother as this has become a viable unit. Today, the venture which she started with initial investment of Rs.5000/- has reached to Rs.1,00,000/- and her net income has increased from Rs. 1000 to Rs. 50,000/- per month.

MAJOR PROCESSED PRODUCTS OF FRUITS AND/OR VEGETABLES

(A) Fruits

Name of fruits	Name of the products	Quantity produced
Kokum	Kokum syrup Kokum kadi	16 ton 05 ton
Amla	Amla Juice with and without sugar	15 ton
Lemon ginger	Juice	20ton
Lemon honey	Juice	05 ton
pineapple	Juice	05 ton
Other (Honey)	-	10 ton
Squashes using local organic liquid jiggery	Kokum Syrup	05 ton

(B) Vegetables

Name of vegetables	Name of the products	Quantity produced
Brahmi	Juice	2 ton
Garike	Juice	0.5 ton
Tender mango (appe midi)	Pickle	75 kgs
Tender bamboo	Pickle	35 kgs

Smt Bhagirathi Hegde is one representative of simple rural women who can change the scenario of this country through secondary agriculture.

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

The Uttara Kannada District of Karnataka has a large geographical area. Agriculture is the main occupation. This district has three distinct agro ecological situations viz. Hill Zone, Transitional Zone and Coastal Zone, where the agricultural practices for the same crop differ. The vast area and remoteness of villages make Transfer of Technology difficult. The scientists of KVK alone would have taken a number of years for reaching out to these farmers.

Constraints for Transfer of Technology:
1. Large district with inadequate facilities to reach the end users
2. Limited availability of resources.
3. Availability of expert trainers
4. Time and cost constraints for reaching the farmers

To overcome the above constraints for Transfer of Technology , an innovative strategy was initiated for dissemination of technology.

Innovation:
1. Dissemination of important knowledge through the NGOs
2. Enlisting the important problems
3. Training and demonstration to grass root level Extension personnel to identify and technology transfer
4. Engaging the best hand in training the trainers.

An inventory was made regarding the most needed problem to be addressed. A training course was developed and a mechanism of dissemination of these technologies was planned through an active NGO of the District **S**hri **K**shetra **D**harmasthala **R**ural **D**evelopment **P**rogramme. Extension personnel of the NGO were given **important training/demonstration in important aspects like:**
1. Soil conservation and nutrient management
2. Drainage and irrigation management
3. Quality seed / seedling production
4. Nutrient Management
5. Pest and disease management of important crops
6. Post harvest technology and marketing
7. Use of ICT in agriculture
8. Income Generating Activities

The training was conducted in 5 batches for 3 days for each batch, thus training 240 extension personnel in the different aspects of agriculture/horticulture. These extension personnel are working in remote areas of the district. The follow-up shows good positive response from extension personnel as well as farming community. These extension personnel now are in regular contact with KVK and are acting as link between farmers and KVK.

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

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK
1	**Banana**	**High density banana planting**	**Purpose:** Reduce the fruit size for consumer acceptance Effective utilization of natural resources Labour Saving **Impact:** Number of plants /ha doubled when compared with traditional method thus yields are doubled. **Farmers Acceptability:** 10% of the farmers adopted the technology It has spread to other districts like Bidar, Shimoga, Chikkamagalur, Dharwad ,Koppal , Gulbarga

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 :
Haliyal Taluka – Jataka Hosur, Sirsi Taluka – Andagi, Hebbatti, Kantraji, Ramapura
ii. No. of farm families selected : 62
iii. No. of survey/PRA conducted : 10

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

Details of samples analyzed during the 2011-12 :

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)
Soil Samples	**96**	**94**	**15**	**24020**
Water Samples	**05**	**05**	**03**	**250**
Plant samples				
Manure samples				
Others (specify)				
Total	**101**	**99**	**18**	**24275**

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

Period of observing Technology Week : **From 12/12/2011 to 17/12/2011**
Total number of farmers visited : 540
Total number of agencies involved : 02
Number of demonstrations visited by the farmers within KVK campus : 04

Other Details

Types of Activities	No. of Activities	Number of Farmers	Related crop/livestock technology
Gosthies	01	24	Blackpepper
Lectures organized	08	320	Cereal crops, plantation crops, post harvest technology, mechanization
Exhibition	01	540	Technologies related to Uttara Kannada
Film show	04	250	Blackpepper, Plant protection, Mechanization, Vermocomposting
Fair			
Farm Visit	02	84	Mechanization in paddy, fodder crops
Diagnostic Practicals	02		
Supply of Literature (No.)	06	452	
Supply of Seed (q)			
Supply of Planting materials (No.)		25	
Bio Product supply (Kg)		15	
Bio Fertilizers (q)			
Supply of fingerlings			
Supply of Livestock specimen (No.)			
Total number of farmers visited the technology week		**540**	

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

A. Introduction of alternate crops/varieties

State	Crops/cultivars	Area (ha)	Number of beneficiaries

B. Major area coverage under alternate crops/varieties

Crops	Area (ha)	Number of beneficiaries
Oilseeds		
Pulses		
Cereals		
Vegetable crops		
Tuber crops		
Total		

C. Farmers-scientists interaction on livestock management

State	Livestock components	Number of interactions	No.of participants
Total			

D. Animal health camps organized

State	Number of camps	No.of animals	No.of farmers
Total			

E. Seed distribution in drought hit states

State	Crops	Quantity (qtl)	Coverage of area (ha)	Number of farmers
Total				

F. Large scale adoption of resource conservation technologies

State	Crops/cultivars and gist of resource conservation technologies introduced	Area (ha)	Number of farmers
Total			

G. Awareness campaign

State	Meetings		Gosthies		Field days		Farmers fair		Exhibition		Film show	
	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers
Total												

PART XI. IMPACT

11.A. Impact of KVK activities

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	170	80%	230/kg	240/kg
IDM in black pepper	25	60%	362/vine	718/vine
Rhizome rot management in ginger	210	80%	80000/ha	150000/ha
Mechanized paddy transplanting	74	20%	60000/ha	75000/ha
CMS technology for plant propagation	320	20%		

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

11.B. Cases of large scale adoption

1. Seed Treatment :

2. Popularization of high yielding paddy variety Abhilash for Hill Zone and MO-4 (Bhadra) fro Coastal Zone: Abhilash – 35000 ha, MO-4 – 8000 ha

3. Popularisation of mechanized transplanting:

- Manual transplanting which is labour intensive.
- Paddy transplanting through mechanized paddy transplanter and intervened to take up the activity as enterprise to raita shakti groups and SHG's.

- Dissemination of technology through FLD , Trainings and Demonstrations
- 5 transplanters have been purchased by 5 farmers groups who are taking up as enterprise. Highly accepted by farmers and has spread to 1000 ha.

4. Black pepper processing: 920 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.

5. 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 12000 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.
- Short duration paddy variety KMP 105 has been popularized
- Use of botanicals for pest control in arecanut, paddy for organic farmers
- Value addition of local fruits has gained acceleration.
- Income generation through production and marketing of under utilized crops

PART XII - LINKAGES

12.A. Functional linkage with different organizations

Name of organization	Nature of linkage
Sri Kshetra Dhrmastala Grameenabhivrudhi Yojane (SKDRDP)	Training, Field visits, Method demonstration, Seminars.
State Dept. of Agriculture	Trainings, demonstrations, seminars and field days.
State Dept. of Horticulture	Training programmes, demonstrations, seminars and field days, NHM Activities.
Thotagar's Service Soceity, Sirsi	Trainings, input procurement, seminars.
State Dept. of Animal husbandry & Veterinary Sciences	Animal Health Camps, trainings.
Grameen Banks	Guidance to beneficiaries about schemes in Trainings
Rotary / Lions club / Junior chamber	Trainings
BAIF, Institute for rural development	Trainings, demonstrations.
Water shed department	Trainings.
All India Radio, E-TV and Door Darshan	Publicity and transfer of technology
Kadamba charitable trust, Sirsi	Trainings, method demonstration, meetings , Seminars.
Snehakunja Charitable Trust, Honnavar	Training & method demonstration.
Farmers clubs	Trainings, demonstrations, seminars and field days.

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

Name of the scheme	Date/ Month of initiation	Funding agency	Amount (Rs.)
National anola campaign	July 2010	IIHR, Bangalore	873750
Empowerment of SC farm house holds in agriculture zones of northern Karnataka	April 2009	Dept of Agriculture, Govt of Karnataka	3225000
Empowerment of ST farm house holds in agriculture zones of northern karnataka	April 2009	Dept of Agriculture, Govt of Karnataka	1564000

12.C. Details of linkage with ATMA

a) Is ATMA implemented in your district No

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

Coordination activities between KVK and ATMA during 2011-12

S. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK	Other remarks (if any)
01	**Meetings**				
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.	Establishment of disease forecasting unit	Through NHM-DOH-GOK	77175	42537	nil

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

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

12.F. Details of linkage with RKVY

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

12. G Kisan Mobile Advisory Services

Month	No. of SMS sent	No. of farmers to which SMS was sent	No. of feedback / query on SMS sent
April 2011	3	750	-
May	4	750	-
June	8	750	-
July	8	750	-
August	7	820	-
September	5	820	-
October	9	800	-
November	8	600	-
December	5	600	-
January 2012	6	100	-
February	2	50	-
March	2	50	-

PART XIII- PERFORMANCE OF INFRASTRUCTURE IN KVK

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

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

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

Name of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.	Cost of inputs	Gross income	
Cereals	20/06/2011	24/12/2011	0.8	Intan	Bulk	24 qtls	26136	36927.00	
Pulses									
Oilseeds									
Fibers									
Spices & Plantation crops									
Floriculture									
Fruits									
Vegetables									
Others (specify)									

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

Sl. No.	Name of the Product	Qty	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	
1	IBA	1.75 kg	300	1995	
2	Bio – digester	162	162000	243000	

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

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

13.E. Utilization of hostel facilities

Accommodation available (No. of beds)

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
October 2010	09	01	
November 2010	05	01	
December 2010	30	03	
January 2011	30	02	
February 2011	13	02	
March 2011	0	0	
April 2011	15	01	
May 2011	16	01	
June 2011	20	3	
July 2011	13	01	
August 2011	12	01	
September 2011	14	01	

13.F. Database management

S. No	Database target	Database created

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

Amount sanction (Rs.)	Expenditure (Rs.)	Details of infrastructure created / micro irrigation system etc.	Activities conducted					Quantity of water harvested in '000 litres	Area irrigated / utilization pattern
			No. of Training programmes	No. of Demonstration s	No. of plant materials produced	Visit by farmers (No.)	Visit by officials (No.)		

PART XIV - FINANCIAL PERFORMANCE

14.A. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Branch code	Account Name	Account Number	MICR Number	IFSC Number
With Host Institute							
With KVK	SBI	SIRSI	00917	KVK R/F	10816617558		00917

14.B. Utilization of KVK funds during the year 2011-12 (Rs. in lakh)

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	**Pay & Allowances**	**39,00,000**	**39,00,000**	**4159509**
2	**Traveling allowances**	**1,00,000**	**1,00,000**	**111395**
3	**Contingencies**			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	**1,15,000**	**1,15,000**	**112258**
B	POL, repair of vehicles, tractor and equipments	**1,00,000**	**1,00,000**	**97396**
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	**75000**	**75000**	**72394**
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	**25000**	**25000**	**21204**
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	**250000**	**250000**	**230137**
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	**55000**	**55000**	**54943**
G	Training of extension functionaries	**25000**	**25000**	**24850**
H	Maintenance of buildings	**0**	**0**	
I	Establishment of Soil, Plant & Water Testing Laboratory	**0**	**0**	
J	Library	**5000**	**5000**	**2607**
TOTAL (A)		**46,50,000**	**46,50,000**	**48,86,693**
B. Non-Recurring Contingencies				
1	**Works**			
2	**Equipments including SWTL & Furniture**			
3	**Vehicle** (Four wheeler/Two wheeler, please specify)			
4	**Library** (Purchase of assets like books & journals)			
TOTAL (B)				
C. REVOLVING FUND				
GRAND TOTAL (A+B+C)		**46,50,000**	**46,50,000**	**48,86,693**

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

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 1st April of each year
April 2009 to March 2010	**2.37599**	**0.69697**	**0.59699**	**2.47597**
April 2010 to March 2011	**2.47597**	**2.13882**	**2.87922**	**1.73557**
April 2011 to March 2012	**1.73557**	**4.20913**	**2.2975**	**3.64595**

15. Details of HRD activities attended by KVK staff during 2011-12

Name of the staff	Designation	Title of the training programme	Institute where attended	Dates
Dr.Hemanth G Hegde	PC	Computer aided Irrigation water allocation	STU , UASD	29-03-2012
Smt. Vinutha U Muktamath	SMS(Home Science)	MARKET LED EXTENSION	MANAGE , Hyderabad	1-8-2011 to 5-8-2011
Smt. Vinutha U Muktamath		Trainers Training at AICRP(Clothing & Textiles)	UAS ,Dharwad	17-8-2011 to 18-8-2011
Smt. Vinutha U Muktamath		Training on Development and Management of Agricultural Programme of radio	MANAGE , Hyderabad and UASD	30-1-2012 to 3-2-2012
Shri.Shivashenkaramurthy M	SMS (Agronomy)	Operationalising Krishi Community Radio Station	STU , UASD	22-02-2012 to 29-02-2012
		Computer aided Irrigation water allocation		29-03-2012
Smt. Annapurna F Neeralgi	Programme Assistant (Computer)	Training programme of SQL and .net	ZPD, Bangalore	23-05-2011 28-05-2011
Smt. Annapurna F Neeralgi		IT based Decision Support System for Digital Content Development	NAARM	20^{th}- 30^{th} Dec 2011
Dr. Roopa S. Patil	SMS (Agril. Entomology)	Trainers Training on implementation of bhoochetana programme	UAS, Dharwad	7.4.2011 to 9.4.2011
Dr. Roopa S. Patil		Commodity futures markets in agriculture	UAS, Dharwad	7.3.2012 to 8.3.2012

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

SUMMARY FOR 2011-12

I. TECHNOLOGY ASSESSMENT

Summary of technologies assessed under various crops

Thematic areas	Crop	Name of the technology assessed	No. of trials
Integrated Nutrient Management	Paddy	Efficacy of Foliar Silicon in rice under laterite soils	05
			10
Varietal Evaluation	Paddy	Introduction of KMP-105 short duration Paddy variety for summer	
Integrated Pest Management	Mango	Use of Plant extracts from bio digester for the management of hoppers and powdery mildew	03
	Paddy	Eco friendly management of Crabs	05
	Paddy	Eco friendly approach to mnage ear head bug	05
Integrated Crop Management	Green gram	Production technology of green gram in Paddy fallows	05
	Ground nut	Production technology of Ground nut in Paddy fallows	05
Integrated Disease Management			
Small Scale Income Generation Enterprises			
Weed Management	Ginger	Management of weeds in Ginger through pre-emergent weedicide	03
Resource Conservation Technology			
Farm Machineries			
Integrated Farming System			
Seed / Plant production	Cardamom	Production of Quality seedling in Cardamom through CMS technology	03
Value addition			
Drudgery Reduction			
Storage Technique			
Others (Pl. specify)			
Total: 09			

Summary of technologies assessed under livestock

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials
Disease Management			
Evaluation of Breeds			
Feed and Fodder management	Cattle	Bajra + Cowpea	05
Nutrition Management			
Production and Management			
Others (Pl. specify)			
Total : 01			

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Summary of technologies assessed under various enterprises

Thematic areas	Enterprise	Name of the technology assessed	No. of trials

Summary of technologies assessed under home science

Thematic areas	Enterprise	Name of the technology assessed	No. of trials
Value Addition	Jackfruit	Preparation of Jackfruit leather	03
	Jackfruit	Preparation of jackfruit pappad for commercial purpose	05
Total:	**02**		

II. TECHNOLOGY REFINEMENT

Summary of technologies refined under various crops

Thematic areas	Crop	Name of the technology refined	No. of trials
Integrated Nutrient Management			
Varietal Evaluation			
Integrated Pest Management			
Integrated Crop Management			
Integrated Disease Management			
Small Scale Income Generation Enterprises			
Weed Management			
Resource Conservation Technology			
Farm Machineries			
Integrated Farming System			
Seed / Plant production			
Value addition			
Drudgery Reduction			
Storage Technique			
Others (Pl. specify)			
Total			

Summary of technologies assessed under refinement of various livestock

Thematic areas	Name of the livestock enterprise	Name of the technology refined	No. of trials
Disease Management			
Evaluation of Breeds			
Feed and Fodder management			
Nutrition Management			
Production and Management			
Others (Pl. specify)			
Total			

Summary of technologies refined under various enterprises

Thematic areas	Enterprise	Name of the technology assessed	No. of trials

Summary of technologies refined under home science

Thematic areas	Enterprise	Name of the technology assessed	No. of trials

III. FRONTLINE DEMONSTRATION

Crops

Crop	Thematic area	Name of the technology demonstrated	No. of KVKs	No. of Farmer	Area (ha)	Yield (q/ha)		% change in yield	Other parameters		*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
						Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Cereals	Nutrient Management	INM in paddy		20	10	42.31	37.23	13.65	No. of tillers: 21 Plant Height :131.4	18 118.2	17152	48025	30873	2.8	14800	38480	23680	2.6
	Pest & Disease Management	IPM paddy		12	05	32.50	26.75	21.50	No. of moths trapped 0.6/trap Blast(%) : <2.5% Leaf Folder(%) : <1.75 Ear Head ug/hill : <1.05	0 >5.0 <3.25 >4.50	18500	38875	20375	2.10	18000	31500	13500	1.75
Millets																		
Oilseeds	Crop Production	ICM In Ground nut		12	5	12.98	10.40	24.81	No. of pods/plant:19 % Leaf damage:2.75	1 3 6.50	17152	48025	30873	2.8	14800	38480	23680	2.6
Pulses	Crop Production	ICM in Black gram		44	10	42.31	37.23	13.65	No. of pods per plant: 35 Plant Height : 25.85 % Pod damage: 0.5	27 22.83 2.0	13550	32670	19120	2.4	12250	27150	14900	2.22
	Crop Production	ICM In Green gram		15	8	32.50	26.75	21.50	No. of pods per plant : 23 Plant Height : 18.9	20 15.35	9614	20190	10576	2.1	8928	16740	7812	1.88
Vegetables																		
Flowers																		
Ornamental																		
Fruit																		
Fibres like Cotton	Pest and Disease Management	Management of sucking insetcs		25	10	24.5	20.75	18.07	Aphids /3 leaves:0.25 Thrips /3 leaves: 0.20 Shoot weevil % : 2.5	3.50 2.00 2.4	24500	90650	66150	3.70	26750	76775	50025	2.87
Spices and condiments	Post Harvest	Processing for quality black Pepper		15	15 Nos	8.45	7.75	9.03	% processing 30.72 % increase in processing : 9.13 Luster : Dark berries with luster	28.15 Dim	120740	333775	213035	2.76	115700	302250	186550	2.61
	IDM	Foot rot Management in Black Pepper		10	250 Vines	8.49	6.39	32.86	% disease incidence : 1.05 % control : 96.95 Luster of leaves : Green leaves with luster	34.37 Dim -	120740	335355	214615	2.78	118850	249210	130360	2.10

	Plant Propagation	Plant Propagation through CMS Technology in Black Pepper		25	6250 Vines	249.4 out of 250	137.4 out of 250 Vines	81.51	% rooting 99.76 % increase in rooting: 81.51 Quality : Superior	54.96 - Medium	788	2490	1702	3.16	1000	1370	370	1.37
Commercial																		
Medicinal and aromatic																		
Fodder																		
Plantation	**Nutrient Management**	INM in Arecanut		20	10	31.09	25.26	23.07	No. of nuts dropped / tree : 7 No. of splitted nuts / tree : 6 % Control of nutdrop : 69.9	22 19 -	24500	90650	66150	3.70	26750	76775	50025	2.87
	Pest Management	Organic based pest management		5	250 trees				% larval mortality : 72.86	84.41								
Fibre																		
Others (pl.specify)																		
	Total			**203**														

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

** BCR= GROSS RETURN/GROSS COST

Livestock

Category	Thematic area	Name of the technology demonstrated	No. of KVKs	No. of Farmer	No.of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
						Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Dairy																		
Poultry																		
Rabbitry																		
Pigerry																		
Sheep and goat																		
Duckery																		
Others (pl.specify)																		
	Total																	

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

Fisheries

Category	Thematic area	Name of the technology demonstrated	No. of KVKs	No. of Farmer	No.of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
						Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Common carps																		
Mussels																		
Ornamental fishes																		
Others (pl.specify)																		
	Total																	

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

Other enterprises

Category	Name of the technology demonstrated	No. of KVKs	No. of Farmer	No.of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.) or Rs./unit				*Economics of check (Rs.) or Rs./unit			
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Oyster mushroom																	
Button mushroom																	
Vermicompost																	

Sericulture																	
Apiculture																	
Others (pl.specify)																	
Total																	

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

Women empowerment

Category	Name of technology	No. of KVKs	No. of demonstrations	Name of observations	Demonstration	Check
Women						
Pregnant women						
Adolescent Girl						
Other women						
Children						
Neonats						
Infants						
Children						

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		05	06	20 kg/hr	5 kg/hr	70%	07				700			
Paddy Transplanter	Paddy	Popularization and use of mechanized paddy transplanter as IGA through commodity groups		10	05	10/ha	52/ha	45%	42				2950			
Fuel Efficient Chula	-	Popularization of fuel efficient eco friendly Chula		06												

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

Other enterprises

Demonstration details on crop hybrids

Crop	**Name of the Hybrid**	**No. of farmers**	**Area (ha)**	**Yield (kg/ha) / major parameter**			**Economics (Rs./ha)**			
				Demonst-ration	**Local check**	**% change**	**Gross Cost**	**Gross Return**	**Net Return**	**BCR**

Cereals										
Bajra										
Maize										
Rice										
Sorghum										
Wheat										
Others (pl.specify)										
Total										
Oilseeds										
Castor										
Mustard										
Safflower										
Sesame										
Sunflower										
Groundnut										
Soybean										
Others (pl.specify)										
Total										
Pulses										
Greengram										
Blackgram										
Bengalgram										
Redgram										
Others (pl.specify)										
Total										
Vegetable crops										
Bottle gourd										
Capsicum										
Others (pl.specify)										
Total										
Cucumber										
Tomato										
Brinjal										
Okra										
Onion										
Potato										
Field bean										
Others (pl.specify)										
Total										
Commercial crops										
Sugarcane										
Coconut										
Others (pl.specify)										

Total										
Fodder crops										
Maize (Fodder)										
Sorghum (Fodder)										
Others (pl.specify)										
Total										

IV. Training Programme

Training for Farmers and Farm Women including sponsored training programmes (On campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production										
Weed Management										
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/Irrigation										
Seed production										
Nursery management										
Integrated Crop Management										
Soil and Water Conservation										
Integrated Nutrient Management										
Production of organic inputs										
Others (Production Technology)	2	33	17	50	7	0	7	40	17	57
Horticulture										
a) Vegetable Crops										
Production of low value and high volume crop	1	10	20	30	6	0	6	16	20	36
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl.specify)										
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit										
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (pl.specify)	1	25	0	25	7	0	7	32	0	32
c) Ornamental Plants										
Nursery Management										
Management of potted plants										

Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl.specify)										
d) Plantation crops										
Production and Management technology	7	148	67	215	56	5	61	204	72	276
Processing and value addition	1	48	14	62	4	2	6	52	16	68
Others (pl.specify)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
f) Spices										
Production and Management technology	4	78	37	115	4	2	6	82	39	121
Processing and value addition	3	56	7	63	2	1	3	58	8	66
Others (pl.specify)										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (pl.specify)										
Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated nutrient management										
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient use efficiency										
Balanced use of fertilizers										
Soil and water testing										
Others (pl.specify)	8	196	1	197	37	10	47	233	11	244
Livestock Production and Management										
Dairy Management										
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Animal Disease Management										
Feed and Fodder technology										
Production of quality animal products										
Others (pl.specify)										
Home Science/Women empowerment										

Household food security by kitchen gardening and nutrition gardening	1	0	10	10	0	6	6	0	16	16
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing										
Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition	2	10	32	42	2	6	8	12	38	50
Women empowerment	2	0	54	54	0	9	9	0	63	63
Location specific drudgery production	3	26	55	81	0	0	0	26	55	81
Rural Crafts				0			0	0	0	0
Women and child care	1	0	0	0	0	40	40	0	40	40
Others (pl.specify)										
Agril. Engineering										
Farm machinery and its maintenance										
Installation and maintenance of micro irrigation systems										
Use of Plastics in farming practices										
Production of small tools and implements										
Repair and maintenance of farm machinery and implements										
Small scale processing and value addition										
Post Harvest Technology										
Others (pl.specify)										
Plant Protection										
Integrated Pest Management	5	72	74	146	15	1	16	87	75	162
Integrated Disease Management										
Bio-control of pests and diseases	1	13	0	13	1	0	1	14	0	14
Production of bio control agents and bio pesticides										
Others (pl.specify)										
Fisheries										
Integrated fish farming										
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture										
Hatchery management and culture of freshwater prawn										
Breeding and culture of ornamental fishes										
Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										

Others (pl.specify)										
Production of Inputs at site										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production	**5**	**101**	**0**	101	**34**	**10**	44	135	10	145
Bio-fertilizer production										
Vermi-compost production										
Organic manures production										
Production of fry and fingerlings										
Production of Bee-colonies and wax sheets										
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
Mushroom production										
Apiculture	**2**	**65**	**0**	65	**0**	**0**	0	65	0	65
Others (pl.specify)										
Capacity Building and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths	**1**	**15**	**0**	15	**0**	**0**	0	15	0	15
Others (pl.specify)	**3**	**78**	**20**	98	**9**	**2**	11	87	22	109
Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems	**2**	**6**	**0**	6	**0**	**15**	15	6	15	21
Others (Pl. specify)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
TOTAL	**50**	**879**	**408**	**1287**	**150**	**99**	**249**	**1029**	**507**	**1536**

Training for Farmers and Farm Women including sponsored training programmes (Off campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production				0			0	0	0	0
Weed Management	1	8	5	13	0	0	0	8	5	13
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming	4	60	1	61	30	11	41	90	12	102
Micro Irrigation/Irrigation										
Seed production										
Nursery management										
Integrated Crop Management										
Soil and Water Conservation										
Integrated Nutrient Management	1	17	0	0	0	0	0	17	0	17
Production of organic inputs										
Others (pl.specify)	4	44	21	65	31	14	45	75	35	110
Horticulture										
a) Vegetable Crops										
Production of low value and high volume crop										
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl.specify)										
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit										
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (pl.specify)										
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										

Others (pl.specify)										
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
f) Spices										
Production and Management technology	6	113	16	129	8	2	10	121	18	139
Processing and value addition										
Others (pl.specify)										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (pl.specify)										
Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated nutrient management										
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient use efficiency										
Balanced use of fertilizers										
Soil and water testing										
Others (pl.specify)										
Livestock Production and Management										
Dairy Management										
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Animal Disease Management										
Feed and Fodder technology										
Production of quality animal products										
Others (pl.specify)										
Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	2	0	0	0	32	12	44	32	12	44
Design and development of low/minimum cost diet				0			0	0	0	0

Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing										
Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition	2	0	59	59	0	0	0	0	59	59
Women empowerment										
Location specific drudgery production	2	26	5	31	0	0	0	26	5	31
Rural Crafts										
Women and child care	1	0	0	0	0	10	10	0	10	10
Others (pl.specify)										
Agril. Engineering										
Farm machinery and its maintenance										
Installation and maintenance of micro irrigation systems										
Use of Plastics in farming practices										
Production of small tools and implements										
Repair and maintenance of farm machinery and implements										
Small scale processing and value addition										
Post Harvest Technology										
Others (pl.specify)										
Plant Protection										
Integrated Pest Management	6	97	0	97	44	5	49	141	5	146
Integrated Disease Management	1	25	0	25	0	0		25	0	25
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others (pl.specify)	1	19	1	20	0	0	0	19	1	20
Fisheries										
Integrated fish farming										
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture										
Hatchery management and culture of freshwater prawn										
Breeding and culture of ornamental fishes										
Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
Others (pl.specify)										

Production of Inputs at site										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production										
Organic manures production	1	0	0	0	4	4	8	4	4	
Production of fry and fingerlings										
Production of Bee-colonies and wax sheets										
Small tools and implements										
Production of livestock feed and fodder	3	0	0	0	92	25	117	92	25	
Production of Fish feed										
Mushroom production										
Apiculture	1	13	0	13	0	0	0	13	0	
Others (pl.specify)										
Capacity Building and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
Others (pl.specify)										
Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (Pl. specify)										
TOTAL	**36**	**422**	**108**	**513**	**241**	**83**	**324**	**663**	**191**	

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										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production	04	62	02	64	0	0	0	62	2	64
Vermi-culture										
Mushroom Production										
Bee-keeping	01	10	0	10	08	0	08	18	0	18
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl.specify)										
TOTAL	**5**	**72**	**2**	**74**	**08**	**0**	**08**	**80**	**02**	**82**

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										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture	01	0	0	0	04	04	08	04	04	08
Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl.specify)	1	0	0	0	32	06	38	32	06	38
TOTAL	**02**	**0**	**0**	**0**	**36**	**10**	**46**	**36**	**10**	**46**

Training programmes for Extension Personnel including sponsored training programmes (on campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Integrated Pest Management										
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Any other (pl.specify)	05	130	53	183	25	20	45	175	73	248
Total	**05**	**130**	**53**	**183**	**25**	**20**	**45**	**175**	**73**	**248**

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Integrated Pest Management										
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Any other (pl.specify)										
Total										

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	**Crop production and management**										
1.a.	Increasing production and productivity of crops										
1.b.	Commercial production of vegetables										
2	**Production and value addition**										
2.a.	Fruit Plants										
2.b. 2.c.	Ornamental plants Spices crops										
3.	**Soil health and fertility management**										
4	**Production of Inputs at site**										
5	**Methods of protective cultivation**										
6	**Others (pl.specify)**										
7	**Post harvest technology and value addition**										
7.a.	Processing and value addition										
7.b.	Others (pl.specify)										
8	**Farm machinery**										
8.a.	Farm machinery, tools and implements										
8.b.	Others (pl.specify)										
9.	**Livestock and fisheries**										
10	**Livestock production and management**										
10.a.	Animal Nutrition Management										
10.b. 10.c	Animal Disease Management Fisheries Nutrition										
10.d	Fisheries Management										
10.e.	Others (pl.specify)										
11.	**Home Science**										
11.a.	Household nutritional security										
11.b.	Economic empowerment of women										
11.c.	Drudgery reduction of women										
11.d.	Others (pl.specify)										
12	**Agricultural Extension**										
12.a.	Capacity Building and Group Dynamics										
12.b.	Others (pl.specify)										
	Any other (Agriculture and Allied Subjects) Topics Covered: Production technology of paddy- Vaieties, soils,	05	130	53	183	25	20	45	175	73	248
	soil Fertility management, Mechanization, Post Harvest technology Horticulture : production technology of arecanut,coconut,pineapple, Irrigation and drainage, Multistoreyed cropping, spices production and post harvest technology, Production of fruits and vegetables. Post Harvest technology of fruits and vegetables Organic farming Practices, IPM practices in cotton, Production technology of blackgram, greengram, Maize Agroforestry practices, Income generation in Homestead through agriculture.	02	40	18	58	03	02	05	43	20	63
	Total	**07**	**170**	**71**	**241**	**28**	**22**	**50**	**218**	**93**	**311**

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	**Crop production and management**										
1.a.	Commercial floriculture										
1.b.	Commercial fruit production										
1.c.	Commercial vegetable production										
1.d.	Integrated crop management										
1.e.	Organic farming										
1.f.	Others (pl.specify)										
2	**Post harvest technology and value addition**										
2.a.	Value addition										
2.b.	Others (pl.specify)										
3.	**Livestock and fisheries**										
3.a.	Dairy farming										
3.b.	Composite fish culture										
3.c.	Sheep and goat rearing										
3.d.	Piggery										
3.e.	Poultry farming										
3.f.	Others (pl.specify)										
4.	**Income generation activities**										
4.a.	Vermi-composting										
4.b.	Production of bio-agents, bio-pesticides, bio-fertilizers etc.										
4.c.	Repair and maintenance of farm machinery and implements										
4.d.	Rural Crafts										
4.e.	Seed production										
4.f.	Sericulture										
4.g.	Mushroom cultivation										
4.h.	Nursery, grafting etc.										
4.i.	Tailoring, stitching, embroidery, dying etc.										
4.j.	Agril. para-workers, para-vet training										
4.k.	Others : Bakery Product Preparation	**01**	**0**	**24**	**24**	**0**	**06**	**06**	**0**	**30**	**30**
5	**Agricultural Extension**										
5.a.	Capacity building and group dynamics										
5.b.	Others (pl.specify)										
	Grand Total	**01**	**0**	**24**	**24**	**0**	**06**	**06**	**0**	**30**	**30**

V. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services	250	228	22	250
Diagnostic visits	52	52		52
Field Day	05	166	10	176
Group discussions	12	73	37	110
Kisan Ghosthi				
Film Show	07	81	62	143
Self -help groups				
Kisan Mela	03			3100
Exhibition	05	1086	89	1175
Scientists' visit to farmers field	10	10	0	10
Plant/animal health camps				
Farm Science Club				
Ex-trainees Sammelan				
Farmers' seminar/workshop				
Method Demonstrations	28	285	65	350
Celebration of important days	02	106	10	116
Special day celebration				
Exposure visits	01	01	0	01
Others (pl.specify)				
Total	**375**	**2088**	**295**	**5483**

Details of other extension programmes

Particulars	Number
Electronic Media	10
Extension Literature	09
News Letter	04
News paper coverage	10
Technical Articles	06
Technical Bulletins	-
Technical Reports	15
Radio Talks	08
TV Talks	02
Animal health amps (Number of animals treated)	
Others (pl.specify)	
Total	**64**

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					
Oilseeds					
Pulses					
Commercial crops					
Vegetables					
Flower crops					
Spices					
Fodder crop seeds					
Fiber crops					
Forest Species					
Others					
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	
Commercial						
Vegetable seedlings	Drumstick	Dhanraj	125	620	62	62
Fruits	Papaya	Taiwan	150	750.00	62	62
Ornamental plants						
Medicinal and Aromatic						
Plantation						
Spices	Nutmeg	Sel	300	15000	85	70
Tuber						
Fodder crop saplings						
Forest Species						
Others						
Total						

Production of Bio-Products

Bio Products	Name of the bio-product	Quantity Kg	Value (Rs.)	No. of Farmers
Bio Fertilizers				
Bio-pesticide				
Bio-fungicide				
Bio Agents				
Others				
Total				

Production of livestock and related enterprise materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers
Dairy animals				
Cows				
Buffaloes				
Calves				
Others (Pl. specify)				
Poultry				
Broilers				
Layers				
Duals (broiler and layer)				
Japanese Quail				
Turkey				
Emu				
Ducks				
Others (Pl. specify)				
Piggery				
Piglet				
Others (Pl.specify)				
Fisheries				
Fingerlings				
Others (Pl. specify)				
Total				

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

Samples	No. of Samples	No. of Farmers	No. of Villages	Amount realized (Rs.)
Soil	**96**	**94**	**15**	**24020**
Water	**05**	**05**	**03**	**250**
Plant				
Manure				
Others (pl.specify)				
Total	**101**	**99**	**18**	**24275**

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 :

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

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

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