## **PROFORMA FOR ANNUAL REPORT 2009-10**

(FOR THE PERIOD FROM OCTOBER 2008 TO SEPTEMBER 2009)

KRISHI VIGYAN KENDRA
Mangalore, Dakshina Kannada
Karnataka

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

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

Adduses	Telephone		E mail	Woh Addross	
Address	Office	FAX	E-mail	Web Address	
Krishi Vigyan Kendra (D.K), Kankanady, Mangalore-575002.	0824- 2431872	0824- 2430060	kvkdk@rediffmail.com	-	

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

Addwaga	Telephone		E mail	Wah Adduses	
Address	Address Office FAX E mail		Web Address		
Vice Chancellor University of Agricultural Sciences, G.K.V.K. Bangalore	080- 23332442	080- 23330277	vcuasbangalore_2007@rediffmail.com	www.uasbangalore.edu.in	

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

Nome	Telephone / Contact				
Name	Residence	Mobile	Email		
Dr. H. Hanumanthappa	0824-2430716	9449866934	hhanumanthappa@rediffmail.com		

1.4. Year of sanction: 2004

## 1.5. Staff Position (as on 31st August 2009)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	M/F	Discipline	Highest Qualification	Pay Scale (Rs.)	Basic pay	Date of joining KVK	Permanent /Temporary	Category (SC/ST/ OBC/ Others)
1	Programme Coordinator	Dr. H.Hanumanthappa	Programme Coordinator	M	Fisheries	Ph D	16400-22400	18200.00	21-1-2006	Permanent	SC
2	SMS	Dr. Jayashree S.	Subject Matter Specialist	F	Home Science (F & N)	Ph D	8,000-13,500	9650.00	2-3-2007	Permanent	OBC
3	SMS	Dr. G. Nagesha	Subject Matter Specialist	M	Agril. Extension	Ph D	8,000-13,500	9650.00	10-3-2007	Permanent	SC
4	SMS	Dr. Parashuram Chandravanshi	Subject Matter Specialist	M	Soil Science	Ph D	8,000-13,500	9650.00	16-3-2007	Permanent	SC
5	SMS	Dr. K.M. Rajesh	Subject Matter Specialist	M	Fisheries	Ph D	8,000-13,500	9650.00	7-11-08	Permanent	General
6	SMS	Dr. Raviraj Shetty G.	Subject Matter Specialist	M	Horticulture	Ph D	8,000-13,500	8000.00	24-7-09	Permanent	General
7	SMS	Dr. Sharanabasappa	Subject Matter Specialist	M	Entomology	Ph D	8,000-13,500	8000.00	30-7-09	Permanent	General
8	Programme Assistant ( Lab Tech.)/T-4	-	-	-	-	-	-	-	-	Vacant	-
9	Programme Assistant (Computer)/ T-4	Mrs. Nalinakshi	Programme Assistant (Computer)	F	-	M.A (ADCA)	-	9300.00 consolidated	7-9-2009	Work contract basis	OBC
10	Programme Assistant/ Farm Manager	Mr. Veerendra Kumar K.V.	Farm Manager	M	Plant Pathologyy	M.Sc. (Agri.)	-	9300.00 consolidated	7-9-2009	Work contract basis	SC
11	Assistant	Mr. Dayanada G.N.	Assistant	M	-	-	-	8000.00 consolidated	-	Work contract basis	-
12	Jr. Stenographer	-	-	-	-	-	-	-	-	Vacant	-
13	Driver	Mr. Rajesh N.	Tractor Driver	M	-	S.S.L.C	7275-13350	7275.00	25-10-08	Permanent	General
14	Driver	Mr. R.T. Nagaraja	Driver (LV)	M	-	$7^{\mathrm{th}}$	5800-10500	6650.00	6-11-2008	Permanent	General
15	Supporting staff	Mr. Jayaram	Messenger	M	-	PUC	4800-7275	5000.00	13-7-2007	Permanent	General
16	Supporting staff	Mr. Ashwith Kumar	Messenger	M	-	S.S.L.C	4800.00	-	7-9-2009	Work contract basis	OBC

### 1.6. Total land with KVK (in ha)

Sl. No.	Item	Area (ha)
1	Under Buildings	2.0
2.	Under Demonstration Units	0.11
3.	Under Crops	6.89
4.	Orchard/Agro-forestry	-

: 9.0

#### 1.7. Infrastructural Development:

## A) Buildings

					Stage	e			
S.		Source of funding		Complete			Incomplete		
No.	Name of building		Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction	
1.	Administrative Building	ICAR	24-11-2007	550	42.25	-	-	-	
2.	Farmers Hostel	ICAR	24-11-2007	300	35.72	-	-	-	
3.	Staff Quarters	ICAR	24-11-2007	400	32.35	-	-	-	
4.	<b>Demonstration Units</b>								
a.	Demonstration Units (Fisheries)	ICAR	20-02-2007	80	1.75	-	-	-	
b.	Demonstration Units (Horticulture)	ICAR	12-05-2008	260	2.0	-	-	-	

### B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Bolero DI Jeep	2004	5,00,000	128576	Good condition
M.F. Tractor 1035	2005	5,00,000	103 hrs.	Good condition
Hero Honda (Bike)	2006	40,000	17939	Good condition
Aviator	2009	50,000	977	Good condition

### C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Sprayers	2005	2,640.00	Good
Power sprayer	2008	4,800.00	Good
Drum Seeder & Cona weeder	2005	2,600.00	Good
Paddy Planting Marker	2005	1,350.00	Good
Xerox Machine	2006	75,000.00	Good
Computer & Accessories	2006-07	98,890.00	Good
Weed cutter	2008	13,000.00	Good
AV aids			
Digital Camera	2006	20,000.00	Good
Magnetic White Board	2008	3,800.00	Good

## 1.8. A). Details SAC meeting conducted in 2008-09

Sl. No.	Date	Number of Participants	No. of absentees	Salient Recommendations	Action taken
1.	24-10-08	31	06	Asked to take up Coconut Nursery in large scale.	Coconut seedlings of Chowghat orange dwarf and west coast tall varieties have been raised in KVK farm and sold to the needy farmers.
				Suggested to organize trainings for farmers on the use of fingerlings in order to develop inland fisheries.	FLD on use of stunted fish finger lings has been taken up and also information is being provided through training programmes on production and rearing of stunted fish fingerlings.
				Informed to organize more on campus training programmes.	A total of 10 on campus training programmes have been organized.
				Suggested to take up Front Line Demonstration on Maize in 5 Acres of Land	In order to popularize the maize variety, OFT has been sanctioned and it will be implemented during Jan-Feb. 2010.
				Suggested to organize more number of training programmes on fisheries in collaboration with marine products development authority (MPEDA) and college of fisheries, Mangalore.	Two on campus training programmes of 7 days duration on integrated fish farming (sponsored by NFDB) and one off campus training programme on value addition to fish have been organized in collaboration with college of fisheries, Mangalore.
				Suggested to organize training programmes on improved method of compost preparation by using resource persons of Department of Microbiology G.K.V.K. Bangalore	One day seminar on modern methods of Vermicomposting and composting was organized in collaboration with Vijaya College, Mulki and Dr. B.K. Siddegowda, Associate Professor, College of Agriculture, Mandya delivered a lecture as resource person.
				Suggested to organize training programme on marine fisheries preferably during the month of June - July	Training programme on marine fisheries will be taken up after the monsoon season (after Sept. 2009).
				Suggested to take up demonstration on Ragi for popularizing it in Dakshina Kannada District.	In order to popularize Ragi, OFT has been sanctioned and it will be implemented during Rabi -2009 season.
				Suggested to organize more number of training programmes related to animal husbandry and veterinary aspects in collaboration with the department.	One training programme on animal husbandry and veterinary aspects has been organized.

Suggested to organize more number of training programme on fisheries in collaboration with marine products development authority	In collaboration with MPEDA, training programmes will be organised in future.		
Suggested to organize training programmes in collaboration with Department of fisheries and college of fisheries in order to develop fisheries in farm pond and water tank.	Two on campus training programmes of 7 days duration on integrated fish farming (sponsored by NFDB) and one off campus training programme on value addition to fish have been already organized in collaboration with college of fisheries, Mangalore.		
Suggested to organize training programmes in collaboration with department of social welfare for other backward class people.	Discussed with concerned authorities for organizing training programmes and same will be implemented in the coming months.		
Suggested to organize more number of training programmes on orchids and high value crops.	Information on orchids and cultivation of high value crops in poly house is provided during the training programmes.		
Suggested to intimate while conducting training programmes for self help groups, so that NABARD can help them for setting up an enterprise.	Information is being provided to such group before organizing training programmes.		
Suggested to release new varieties on paddy suitable to Dakshina Kannada District	Paddy varieties suitable to D.K. are already under farm trial and University will take up action to release the same.		

#### PART II - DETAILS OF DISTRICT

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

S. No		]	Farming system/enterprise
1.	CEREALS	:	Paddy
	PULSES	:	Black gram, Green gram, Cowpea and Horse gram
	OIL SEEDS	:	Sesamum
	VEGETABLES	:	Brinjal, Bhendi, Vegetable cowpea, Ash gourd,
			Basella, Amarpophilous, Sweet potato and cucumber
	FRUITS	:	Banana, Pineapple, Jackfruit and Mango
	PLANTATION CROPS	:	Arecanut, Coconut, Cashew, Pepper, Rubber, Vanilla
			and cocoa
	FLOWER CROPS	:	Jasmine
	ANIMAL HUSBANDARY:		Dairy, Piggery, Poultry and Fisheries

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

S. No	Agro-climatic Zone	Characteristics
1	Coastal Zone,	Krishi Vigyan Kendra, Dakshina Kannada, Kankanady, Mangalore is
	Zone 10	situated in the Coastal Zone No-10 with an operational area of five Taluks viz.,
		Mangalore, Bantwal, Belthangady, Puttur and Sullya. The total Geographical area
		of the district is 4866 sq. km. The district has 134246 ha of net cultivable area
		mainly dependent on rainfall. The annual average rainfall is 3592.8 mm. This
		district receives rainfall between May and October with heavy rainfall during the
		month of June, July, and August. Recorded maximum temperature of 34°C during
		the months of April and May and minimum temperature of 21.5° C during the
		month of January.

S. No	Agro ecological situation	Characteristics						
1	Coastal Zone,	The annual average rainfall is 3592.8 mm. This district receives rainfall						
	Zone 10	between May and October with heavy rainfall during the month of June, July, and						
		August. Recorded maximum temperature of 34°C during the months of April and						
		May and minimum temperature of 21.5° C during the month of January. The soil in						

the major portions of the district consists of three types, viz. coastal sands, alluvial, laterite and red loamy soil. Apart from this, coastal saline soil is also noticed in some parts of the district owing to the proximity to sea or backwater. Soils are low in CEC and acidic in condition. The PH of the soil ranges from 4.5 to 5.9 with content of low soluble salt. The major nutrient status of the soil is varying from medium to low. The major crops grown in the districts are Paddy, Arecanut, Coconut, Cashew, Rubber, Pepper, Cocoa and Banana. In some parts of the district pulses like Black gram, Green gram, oilseeds like Sesamum and vegetables like cucumber, Bhendi, Chill, Brinjal bitter gourd, Ash gourd, little gourd and Spinach are grown during Rabi/ Summer season.

#### 2.3 Soil type/s

S. No	Soil type	Characteristics	Area in ha
1.	Coastal sands, alluvial, Laterite and	Soils are low in CEC and acidic in condition. The PH of the soil ranges from 4.5 to 5.9 with low soluble salt content. The	1,34,246
	red loamy soil	major nutrient status of the soils is varying from medium to low.	

#### 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	55948	13899.6	2484			
2.	Black gram	2111	117.9	558			
3.	Cowpea	607	28.9	476			
4.	Arecanut	27481	4923.087	179			
5.	Coconut	16094	207.180	13			
6.	Pepper	2008.31	3600	1827			
7.	Cashew	30524	244190	-			
8.	Cocoa	Cocoa 906		39406			
9.	Vanilla	232.86	8.87	38			
10.	Mango	1572.65	1323.155	841			
11.	Sapota	184	201.5	1095			
12.	Banana	3146.71	606280	193700			
13	Pine apple	356.75	2169.2	6080			
14	Jack Fruit	996	258960	260000			
15	Ginger	313.95	359.344	1145			
16	Vegetables	2983	302880	101535			
17	Jasmine	66	153	-			

<sup>\*</sup> Source: Statistical Department, Dakshina Kannada

#### 2.5. Weather data

Month	Dainfall (mm)	Tempera	ature <sup>0</sup> C	Relative
Month	Rainfall (mm)	Maximum	Minimum	Humidity (%)
October	130.2	31.02	24.77	75.29
November	27.4	30.36	24.31	72.63
December	25.2	31.77	20.36	57.64
January	-	33.99	19.81	56.85
February	-	32.80	20.80	64.76
March	1.8	33.36	22.31	77.45
April	-	33.33	25.00	79.00
May	221	34.71	24.79	72.63
June	465.4	31.31	24.33	89.54
July	1525	31.67	24.63	81.32
August	570.8	32.24	23.45	81.53
September	308.8	31.81	23.86	75.66

Source: HRS, Ullal, Mangalore

#### 2.6. Production and productivity of Livestock, poultry, fisheries etc. in the district

Category	Population	Production (No. Meat)	Productivity
Cattle			
Crossbred	107707	908	-
Indigenous	229670	-	-
Buffalo	26069	1151	-
Sheep			
Crossbred	-	-	-
Indigenous	420	-	-
Goats	16487	13368	-
Pigs			
Crossbred	1728	-	-
Indigenous	6263	-	-
Rabbits	566	-	-
Poultry	855976	1287600	-
Category	Area	Production (mt)	Productivity
Fish			•
Marine	-	88972	-
Inland	-	1064.53	-
Prawn	-	9119	-

• Source: Statistical Department, Dakshina Kannada

## 2.6 Details of Operational area / Villages

Sl. No.	Taluk	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Mangalore	-	Puttige	Paddy, Arecanut, Coconut, Pepper, Cashew, Banana, Vegetables, Jasmine	<ul> <li>Imbalanced nutrient application</li> <li>Non adoption of high yielding Varieties</li> <li>Soil acidity</li> </ul>	<ul> <li>Introduction of high yielding varieties</li> <li>Organic farming</li> <li>Integrated Nutrient Management Approaches</li> <li>Soil reclamation</li> </ul>
2.	Bantwal	-	Meramajalu	Paddy, Arecanut, Coconut, Pepper, Banana, Vegetables, Jasmine	<ul> <li>Imbalanced nutrient application</li> <li>Lack of knowledge on management of pest and diseases</li> <li>Soil acidity</li> </ul>	<ul> <li>Integrated Nutrient Management Approaches</li> <li>Soil reclamation</li> <li>Integrated pest management approaches</li> <li>Employment generation activities</li> <li>Value addition</li> </ul>
3.	Puttur	-	Panaje	Paddy, Arecanut, Coconut, Pepper, Banana, Vegetables, Jasmine, Cashew, Cocoa, Rubber, Vanilla	<ul> <li>Soil acidity</li> <li>Imbalanced nutrient application</li> <li>Non adoption of high yielding varieties</li> <li>Untimely application of pesticides</li> </ul>	<ul> <li>Soil reclamation</li> <li>Introduction of high yielding varieties</li> <li>Organic farming</li> <li>Integrated Nutrient Management Approaches</li> <li>Plant protection</li> </ul>

4.	Belthangady	-	Machhina	Paddy, Arecanut, Coconut, Pepper, Banana, Vegetables, Jasmine, Cashew, Cocoa, Rubber, Vanilla	<ul> <li>Imbalanced nutrient application</li> <li>Soil acidity</li> <li>Lack of knowledge on management of pest and diseases</li> </ul>	<ul> <li>Introduction of high yielding varieties</li> <li>Organic farming</li> <li>Integrated Nutrient Management Approaches</li> <li>Soil reclamation</li> </ul>
5.	Sullya	-	Ajjavara	Paddy, Arecanut, Coconut, Pepper, Banana, Vegetables, Jasmine, Cashew, Cocoa, Rubber, Vanilla	<ul> <li>Imbalanced nutrient application</li> <li>Soil acidity</li> <li>Lack of knowledge on management of pest and diseases</li> </ul>	<ul> <li>Integrated Nutrient Management Approaches</li> <li>Soil reclamation</li> <li>Integrated pest management approaches</li> <li>Employment generation activities</li> <li>Value addition</li> </ul>

#### 2.7 Priority thrust areas

- Integrated nutrient management approaches
- Integrated crop and Pest management approaches
- Soil reclamation
- Introduction of high yielding Varieties
- Rice based cropping system
- Plant Protection
- Weed Management
- Value addition to Agriculture and Horticulture produce
- Employment generation activities
- Water management
- Soil and water conservation
- Organic farming

## PART III - TECHNICAL ACHIEVEMENTS

### 3.A. Details of target and achievements of mandatory activities

	0	FT		FLD				
1				2				
Num	Number of OFTs		Number of farmers		Number of FLDs		Number of farmers	
Targets	Achievement	Targets	Achievement	Targets Achievement		Targets	Achievement	
05	05	25	25	12	11	84	79	

	Trai	ining		Extension Activities				
	3				4			
Numbe	Number of Courses		Number of Participants		Number of activities		of participants	
Targets	Achievement	Targets	Achievement	Targets Achievement		Targets	Achievement	
46	46	1618	1618	556	556	2760	2760	

Seed Pro	oduction (Qtl.)	Planting	material (Nos.)		
	5	6			
Target	Achievement	Target	Achievement		
79	79 79 (Paddy)		1000 (Coconut seedlings)		

Lives	tock (No.)	Bio-products (Kg)			
	7	8			
Target	Achievement	Target	Achievement		
170	170	-	-		

## ${\bf 3.~B1.~Abstract~of~interventions~undertaken~based~on~thrust~areas~identified~for~the~district~as~given~in~Sl.No. 2.7}$

				Interventions										
S. No	Thrust area	Crop/ Enterprise	Identified Problem	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.)	bi	oly of io lucts Kg
1.	Nutrient and water management	Paddy	Poor nutrient management.     Lack of Knowledge on use of RHA which is rich source of P and Silicon.	Rice hull ash application in paddy.     STCR concept fertilizer in recommendation for paddy     Split application of Potash in paddy	Integrated crop management in Paddy     SRI Method of paddy cultivation	05	·	-	Field Days-4	79	-	-	-	-
2.	Nutrient management	Arecanut	Poor nutrient management	-	Nutrient management in Arecanut	02	ı	-	-	-	ı	-	ı	-
3.	Nutrient management	Cashew	No nutrient management	-	• Integrated crop management in Cashew	-	-	-	-	-	-	-	-	-
4.	Crop management	Banana	Poor cultivation practices	-	Integrated crop management in Banana	-	1	1	-	-	1	-	-	-
5.	Introduction of high yielding of variety	Cassava	Cultivation of local varieties	-	<ul> <li>Cultivation of high yielding varieties of cassava</li> </ul>	-	ı	-	Field day-	-	ı	-	-	-
6.	Nutrient management	Ash gourd	Poor nutrient management	<ul> <li>Application of Potash in Ash gourd</li> </ul>	-	-	1	-	-	-	-	-	-	-
7.	Pest management	Arecanut	Koleroga and root grub	Management of Inflorescence die back disease in Arecanut	Management of Koleroga disease in arecanut     Integrated management of root grub in Arecanut	03	01	-	-	-	-	-	-	-
8.	Disease management	Pepper	Quick wilt	-	Quick wilt management in pepper	-	-	-	-	-	-	-	-	-

9.	Fisheries	Fish	Lack of knowledge in scientific cultivation of fish	-	Production and performance of stunted fish fingerlings Introduction of Amur carp in polyculture of fish	05	02	-	Field day- 1	-	-	-	-	-	
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### 3. B2. Details of technology used during reporting period

S.No	Title of Technology	Source of technology	Crop/		No. of prog	rammes cond	ucted
5.110	Title of Technology	Source of technology	enterprise	OFT	FLD	Training	Field Day
1	2	3	4	5	6	7	8
1.	STCR concept fertilizer recommendation for paddy	UAS, Bangalore	Paddy	03	-	01	-
2.	Rice hull ash application in paddy	UAS, Bangalore	Paddy	05	-	01	01
3.	Split application of Potash in paddy	UAS, Bangalore	Paddy	05	-	01	01
4.	Application of Potash in Ash gourd	UAS, Bangalore	Ash gourd	05	-	01	-
5.	Management of Inflorescence die back in Arecanut	CPCRI, Kasaragod	Arecanut	05	-	-	-
6.	Integrated crop management in Paddy	UAS, Bangalore	Paddy	-	10	02	01
7.	Integrated management of root grub in Arecanut	UAS, Bangalore	Arecanut	-	10	-	-
8.	SRI Method of paddy cultivation	UAS, Bangalore	Paddy	-	05	-	01
9.	Cultivation of high yielding varieties of cassava	CTCRI, Coimbatur	Cassava	-	05	-	01
10.	Management of Koleroga disease in arecanut	UAS, Bangalore	Arecanut	-	06	03	-
11.	Quick wilt management in pepper	UAS, Bangalore	Pepper	-	05	-	-
12.	Integrated crop management in Banana	UAS, Bangalore	Banana	-	05	-	-
13.	Integrated crop management in Cashew	UAS, Bangalore	Cashew	-	10	-	-
14.	Nutrient management in Arecanut	UAS, Bangalore	Arecanut	-	10	02	-
15.	Production and performance of stunted fish fingerlings	UAS, Bangalore	Fisheries	-	10	-	01
16.	Introduction of Amur carp in polyculture of fish	UAS, Bangalore	Fisheries	-	03	-	-

#### 3. B2 contd..

						No	o. of farme	ers covered	d						
	OF	T			FI	L <b>D</b>			Trai	ning			Field	Day	
Gen	neral	SC	/ST	Gen	eral	SC	/ST	Gen	eral	SC	/ST	Gen	eral	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
01	01	01	00	-	ı	-	-	16	01	02	01	-	-	-	-
04	00	01	00	-	-	-	-	-	-	-	-	28	00	02	00
03	00	02	00	-	-	-	-	-	-	-	-	22	00	03	00
05	00	00	00	-	-	-	-	12	00	03	00	-	-	-	-
04	00	01	00	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	06	01	02	01	33	20	07	06	11	22	12	08
-	-	-	-	06	02	02	00	-	-	-	-	-	-	-	-
-	-	-	-	03	01	01	00	-	-	-	-	19	01	15	00
				03	00	02	00	-	-	-	-	12	02	04	02
-	-	-	-	05	00	01	00	55	11	08	00	-	-	-	-
-	-	-	-	05	00	00	00	-	-	-	-	-	-	-	-
-	-	-	-	05	00	00	00	-	-	-	-	-	-	-	-
-	-	-	-	09	00	01	00	-	-	-	-	-	-	-	-
-	-	-	-	08	00	02	00	59	17	06	02	-	-	-	-
-	-	-	-	10	00	00	00	-	-	-	-	14	03	14	00
-	-	-	-	03	00	00	00	-	-	-	-	-	-	-	-

#### 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	03	-	-	-	01	-	-	-	-	04
Varietal Evaluation	-	-	-	-	-	-	-	-	-	-
Integrated Pest Management	-	-	-	-	-	-	-	-	-	-
Integrated Crop Management	-	-	-	-	-	-	-	-	-	-
Integrated Disease Management	-	-	-	-	-	-	-	01	-	01
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	03	-	-	-	01	-	-	01	-	05

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Integrated										
Nutrient										
Management										
Varietal										
Evaluation										
Integrated Pest										
Management										
Integrated Crop										
Management										
Integrated										
Disease										
Management										
Small Scale										
Income										
Generation										
Enterprises										

Weed					
Management					
Resource					
Conservation					
Technology					
Farm Machineries					
Integrated					
Farming System					
Seed / Plant					
production					
Value addition					
Drudgery					
Reduction					
Storage					
Technique					
Mushroom					
cultivation					
Total					

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

Thematic areas	Cattle	Poultry	Piggery	Rabbitary	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.A4. Abstract on the number of technologies refined in respect of livestock enterprises: Nil

Thematic areas	Cattle	Poultry	Piggery	Rabbitary	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	Area (ha)
	Paddy	STCR concept fertilizer recommendation for paddy	03	2.0
Integrated Nutrient Management	Paddy	Rice hull ash application in paddy	05	2.0
	Paddy	Split application of Potash in paddy	05	2.0
	Ash gourd	Application of Potash in Ash gourd	05	2.0
Varietal Evaluation				
Integrated Pest Management				
Integrated Crop Management				
Integrated Disease Management	Arecanut	Management of Inflorescence die back disease in Arecanut	05	5.0
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			23	13.0

#### 4. B. 2. Technologies Refined under various Crops: Nil

Thematic areas	Crop	Name of the technology assessed	No. of trials	Area (ha)
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: Nil

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

#### 4. B. 4. Technologies Refined under Livestock: Nil

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials
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. Use of rice hull ash in paddy cultivation

Crop/ enterprise	Farming situation		Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment (t/ha)	Feedback from the farmer	Any refinement done	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Paddy		<ul> <li>Poor nutrient management</li> <li>Lack of knowledge on use of RHA in paddy cultivation</li> <li>Leaching loss of nutrient due to heavy rainfall.</li> </ul>	Use of rice hull ash in paddy cultivation	05	Use of rice hull ash in paddy cultivation.	Grains/ panicle	T1: 149 T2: 153 T3: 159	T1: 3.79 T2: 4.18 T3: 4.34	Increased in the yield up to 20%      Less chaffy grains was observed	-	-

T	echnology Assessed	Production (t/ha)	Please give the unit	Net Return (Profit) in Rs. / unit	BC Ratio
13		14	15	16	17
Technology option 1 (Farmer's practice)	T1: FYM: 2.0 t/ha. 125-150 kg complex fertilizer/ha.	3.79	t/ha	10900.00	1.40
Technology option 2	<b>T2:</b> FYM: 5.0 t/ha. N:P:K:: 60:30:45kg/ha.	4.18	t/ha	13800.00	1.49
Technology option 3			t/ha	14900.00	1.52

<sup>2.</sup> Split application of Potassium in Paddy

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment (t/ha)	Feedback from the farmer	Any refinement done	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Paddy	Rain fed	<ul> <li>Poor nutrient management</li> <li>Potash deficiency in paddy field</li> <li>Lack of knowledge on potash management</li> <li>Leaching loss of Potash due to heavy rainfall.</li> </ul>	Split application of Potassium in Paddy	05	Split application of Potassium in Paddy	Grains/ panicle	T1: 157 T2: 166 T3: 169	T1: 4.28 T2: 4.67 T3: 4.84	<ul> <li>Increased in the yield up to 15%.</li> <li>Farmers appreciated the technology and desired to adopt it.</li> </ul>	-	-

#### Contd..

	Technology Assessed	Production (t/ha)	Please give the unit	Net Return (Profit) in Rs. / unit	BC Ratio
	13	14	15	16	17
Technology option 1 (Farmer's practice)	T1: FYM: 2.0 t/ha. 100-125 kg complex fertilizer/ha.	4.28	t/ha	15800	1.58
Technology option 2	T2: FYM: 5.0 t/ha.  N:P:K:60:30:45 kg/ha (Potassium given in 2 doses – 50% as basal dose and 50% as top dressing after one month along with nitrogen)	4.67	t/ha	18700	1.66
Technology option 3	<b>T3:</b> FYM: 5.0 t/ha. N:P:K: 60:30:45 kg/ha (Potassium given in 3 doses – 50% as basal dose and 25% top dressing after one month and remaining during panicle initiation stage)	4.84	t/ha	20200	1.71

## 3. Soil test based fertilizer recommendation (STCR concept)

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment (t/ha)	Feedback from the farmer	Any refinement done	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Paddy	Rain fed	<ul> <li>Poor nutrient manage ment</li> <li>Lack of knowled ge on potash manage ment</li> <li>Leachin g loss of Potash due to heavy rainfall.</li> </ul>	Soil test based fertilizer recommendation (STCR concept)	03	Soil test based fertilizer recommendation (STCR concept)	Grains/ panicle	T1: 140 T2: 158 T3: 172	T1: 3.52 T2: 4.30 T3: 4.89	<ul> <li>Farmers         accepted         the         technolo         gy "The         use of         fertilizer         s based         on soil         test         value".</li> <li>Farmers         appreciat         ed the         technolo         gy and         desired         to adopt         it.</li> </ul>	-	-

Tecl	nnology Assessed	Production (t/ha)	Please give the unit	Net Return (Profit) in Rs. / unit	BC Ratio
13		14	15	16	17
Technology option 1 (Farmer's practice)	T1: FYM: 2.0 t/ha. 100-125 kg complex fertilizer/ha.	3.52	t/ha	8200	1.30
Technology option 2	<b>T2:</b> FYM: 5.0 t/ha. N:P:K:: 60:30:45kg/ha.	4.30	t/ha	15000	1.53
Technology option 3	T3: Fertilization application based on Soil Test values (STCR concept) with bio- fertilizers and recommended	4.89	t/ha	20400	1.71

FYM, application of ZNSO <sub>4</sub> 20 kg/ha.		

## 4. Application of Potash in Ash gourd

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment (t/ha)	Feedback from the farmer	Any refinement done	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Ash gourd	Protective irrigation	Imbalanced Nutrient application resulted in lower yield.	Application of Potash in Ash gourd	5	Potash management in Ashgourd	Wt. of fruit (kg) No. fruits/pl.	<ul><li>4.92</li><li>5.32</li></ul>	23.08	Increase in the yield with better keeping quality.	-	-

	<b>Technology Assessed</b>	Production (t/ha)	Please give the unit	Net Return (Profit) in Rs. / unit	BC Ratio
	13	14	15	16	17
Technology option 1 (Farmer's practice)	FYM: 5 t/ha.	14.14	t/ha	18260	1.87
Technology option 2	FYM: 12.5 t/ha., 50:50:0 kg NPK/ha.	19.40	t/ha	25684	2.01
Technology option 3	FYM: 12.5 t/ha., 50:50:70 kg NPK/ha.	23.08	t/ha	37376	2.53

#### 5. Management of Inflorescence die back disease in Arecanut

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of	Technology Assessed	Parameters of assessment	Data on the	Results of assessment	Feedback from the	Any refinement	Justification for
				trials			parameter	(t/ha)	farmer	done	refinement
1	2	3	4	5	6	7	8	9	10	11	12
Arecanut	Rain fed / Protective irrigation	Inflorescence die back is a major disease causes 30- 40% yield loss	Management of Inflorescence die back disease in Arecanut	05	Management of Inflorescence die back disease	No. of inflorescence infected/pl  % disease incidence  Yield(qtl/ha)	5.0	2.29	Timely spraying of Zineb 4gm/l. will reduces the disease incidence	-	-

	Technology Assessed	Production (t/ha)	Please give the unit	Net Return (Profit) in Rs. / unit	BC Ratio
	13	14	15	16	17
Technology option 1 (Farmer's practice)	No management as been followed	1.34	t/ha	58160	2.98
Technology option 2	• Spraying of Mancozeb 2.5 gm/ltr. at the time of opening of female flower	1.97	t/ha	95490	3.92
Technology option 3	Sanitation     Spraying of Zineb 4 gm/ltr at the time of opening of female flower	2.29	t/ha	115515	4.41

# 4. C2. Details of each On Farm Trial to be furnished in the following format separately along with raw data as per the separate proforma provided

#### 1. Use of rice hull ash in paddy cultivation

Sl. No	Particulars	On Farm Trial
1	Title of Technology assessed	Use of rice hull ash in paddy cultivation
2.	Problem Definition	<ul> <li>Poor nutrient management</li> <li>Lack of knowledge on use of RHA in paddy cultivation Leaching loss of nutrient due to heavy rainfall.</li> </ul>
3.	Details of technologies selected for assessment	125-150 kg complex fertilizer/ha. FYM: 5.0 t/ha. N:P:K:: 60:30:45kg/ha. FYM:10 ton/ha, Recomendad Dose of NK + RHA 2 tones/ ha
4.	Source of technology	U.A.S., Bangalore
5.	Production system and thematic area	Rainfed/Protective irrigation and Acidic Soils reclamation, Nutrient Management
6.	Performance of the Technology with performance indicators	Recorded 20% increased in yield compared to farmers practice.
7.	Final recommendation for micro level situation	Application of RHA 2 tones per ha with recommended dose of fertilizer increase the yield and available Phosphorous content in the soil. Hence, technology well suited for coastal acidic soils
8.	Constraints identified and feedback for research	Transportation of Rice hull Ash from the Rice mills involves more expenditure.
9.	Process of farmers participation and their reaction	Farmers appreciated the technology and desired to adopt the same

# Raw data about the performance of the Technology assessed with performance indicators (Use of rice hull ash in paddy cultivation)

		Name of the Village	Da	ata on th	e perform	ance indi	cators of th	ne technol	ogy asses	ssed
Farmer No	Name of the farmer		Technology Option 1		<b>Technology Option 2</b>			Technology Option 3		
140			Grains /panicle	Yield (Q/ha)	Grains /panicle	Yield (Q./ha)	% increased	Grains /panicle	Yield (Q./ha)	% increased
1.	Ramesh Bhat Bharanya	Panaje	149	37.95	155	42.62	12.3	160	43.77	15.0
2.	Vishnu Bhat	Panaje	151	38.90	153	41.54	6.78	156	42.78	9.38
3.	Balakrishna Bhat	Panaje	148	37.90	155	42.32	11.66	164	45.91	17.0
4.	Madhava Shettigar	Yedapadavu	143	36.90	152	41.75	13.4	158	45.96	18.97
5.	Harishchandra Gorwda	Yedapadavu	153	38.00	150	41.00	7.89	156	43.56	11.84
		Average	148.8	37.93	153	41.84	10.4	158.8	43.34	14.43

#### 2. Split application of Potassium in Paddy

Sl. No	Particulars	On Farm Trial
1	Title of Technology assessed	Split application of Potassium in Paddy
2.	Problem Definition	<ul> <li>Poor nutrient management</li> <li>Potash deficiency in paddy field</li> <li>Lack of knowledge on potash management Leaching loss of Potash due to heavy rainfall.</li> </ul>
3.	Details of technologies selected for assessment	FYM: 5.0 t/ha.  N:P:K: 60:30:45kg/ha (Potassium given in 2 doses – 50% as basal dose and 50% as top dressing after one month along with nitrogen)
4.	Source of technology	U.A.S., Bangalore
5.	Production system and thematic area	Rainfed/Protective irrigation and Acidic Soils reclamation, Nutrient Management
6.	Performance of the Technology with performance indicators	Recorded 15% increased in yield compared to farmers practice.
7.	Final recommendation for micro level situation	Split application of Potassium in paddy cultivation increase the yield up to 20%. Hence, technology well suited for coastal acidic soils.
8.	Constraints identified and feedback for research	Nil
9.	Process of farmers participation and their reaction	Farmers appreciated the technology and desired to adopt the same

## Raw data about the performance of the Technology assessed with performance indicators (Split application of Potassium in Paddy)

		Name of the Village	Data on the performance indicators of the technology assessed										
Farmer No	Name of the farmer		Techno Optio	0.	Techn	Technology Option 3							
110	141 11101		Grains /panicle	Yield (Q/ha)	Grains /panicle	Yield (Q/ha)	% increased	Grains /panicle	Yield (Q/ha)	% increased			
1.	Padmanabha Amin	Paladka	166	46.64	171	49.75	6.66	175	51.84	11.14			
2.	Bhaskar Poojary	Paladka	164	45.54	167	47.85	5.07	170	49.64	9.00			
3.	Gopal Kulal	Paladka	152	38.54	164	44.64	15.82	166	45.75	18.7			
4.	Devaki Shetty	Paladka	155	42.84	165	46.84	9.33	169	48.00	12.04			
5.	Govinda	Paladka	150	40.84	163	44.76	9.59	164	46.82	14.64			
		Average	157.40	42.88	166	46.76	9.29	168.8	48.41	13.14			

### 3. Soil test based fertilizer recommendation (STCR concept)

Sl. No	Particulars	On Farm Trial
1	Title of Technology assessed	Soil test based fertilizer recommendation (STCR concept)
2.	Problem Definition	<ul> <li>Poor nutrient management</li> <li>Lack of knowledge on potash management</li> <li>Leaching loss of Potash due to heavy rainfall.</li> </ul>
3.	Details of technologies selected for assessment	FYM: 5.0 t/ha. N:P:K: 60:30:45kg/ha. Fertilization application based on STCR approach with biofertilizers and recommended FYM.
4.	Source of technology	U.A.S., Bangalore
5.	Production system and thematic area	Rainfed/Protective irrigation and Acidic Soils reclamation, Nutrient Management
6.	Performance of the Technology with performance indicators	Application of fertilizers based on the soil test values increased in the yield up to 15-20%.
7.	Final recommendation for micro level situation	Application of fertilizers based on the soil test values increased in the yield up to 20%. Hence, it can be recommended for micro level situation.
8.	Constraints identified and feedback for research	<ul> <li>Majority of the farmers applying fertilizer invariably without knowing nutrient status.</li> <li>There is need to take up more research on STCR concept in coastal zone.</li> </ul>
9.	Process of farmers participation and their reaction	Farmers appreciated the technology and desired to adopt the same

# Raw data about the performance of the Technology assessed with performance indicators (Soil test based fertilizer recommendation in Paddy) (STCR concept)

	Name of the farmer	Name of the Village	Data on the performance indicators of the technology assessed										
Farmer No			Technology Option 1		Techn	ology Op	tion 2	Technology Option 3					
			Grains	Yield	Grains	Yield	%	Grains	Yield	%			
			/panicle	(Q/ha)	/panicle	(Q/ha)	increased	/panicle	(Q/ha)	increased			
1.	Chandravathi	Molebettu	148	37.8	153	40.84	8.04	167	46.85	23.94			
2.	M. Narayana Bhat	Molebettu	139	34.15	157	42.34	23.98	172	48.64	42.43			
3.	Lorence D'souza	Molebettu	132	33.8	165	45.84	25.62	177	51.34	51.89			
		Average	139.66	35.25	158.33	43.00	19.21	172	48.94	39.42			

#### 4. Nutrient Management in Ash gourd

Sl. No	Particulars	On Farm Trial
1	Title of Technology assessed	Nutrient Management in Ash gourd
2.	Problem Definition	Imbalanced Nutrient application resulted in lower yield.
3.	Details of technologies selected for assessment	FYM: 12.5 t/ha 50:50:70 kg NPK/ha
4.	Source of technology	ZARS, Brahmavar
5.	Production system and thematic area	Protective irrigation, nutrient management
6.	Performance of the Technology with performance indicators	18.96 % increase in the yield over technology assessment
7.	Final recommendation for micro level situation	Application of 70 kg /ha of potash along with Recommended dose of fertilizer will enhance the yield with good keeping quality. Hence, this technology is suitable to micro level situation
8.	Constraints identified and feedback for research	Leaching loss of nutrients
9.	Process of farmers participation and their reaction	Farmers have actively participated in implementation and evaluation of the technology. They have been convinced that application of potash as a nutrient source along with the recommended dose of fertilizers results in higher yield with better keeping quality. Farmers agreed to adopt and disseminate the same technology to neighboring farmers.

# Raw data about the performance of the Technology assessed with performance indicators (Nutriment Management in Ash gourd)

			Data on the performance indicators of the technology assessed										
Farmer	Name of the farmer	Name of the Village	Technology Option 1				Technology Option 2			Technology Option 3			
No			Wt. of fruit (kg)	No. of fruits / plant	Yield (ton /ha)	Wt. of fruit	No. of fruits / plant	Yield (ton /ha)	Wt. of fruit	No. of fruits / plant	Yield (ton /ha)		
1.	Alex Rodrigous	Kariyala	3.3	3.0	12.10	3.6	4.0	15.00	4.4	4.8	20.30		
2.	Filomina Rodrigous	Kariyala	3.60	3.5	13.50	3.8	4.4	20.00	5.0	5.30	22.0		
3.	Bhoja Kundar	Polali	3.55	4.0	17.1	3.7	4.8	23.00	4.80	6.0	27.5		
4.	Chadrashekar Rao	Polali	3.90	3.85	15.0	4.2	4.6	21.00	5.30	5.40	24.6		
5.	Krishna Holla	Polali	3.85	3.40	13.0	4.6	4.2	18.00	5.10	5.10	21.0		
	I	Average	3.64	3.55	14.14	3.86	4.4	19.40	4.92	5.32	23.08		

#### 5. Management of Inflorescence die back disease in Arecanut

Sl. No	Particulars	On Farm Trial
1	Title of Technology assessed	Management of Inflorescence die back disease in Arecanut
2.	Problem Definition	Inflorescence die back is a major disease which causes 30-40% yield loss
3.	Details of technologies selected for assessment	• Sanitation  Spraying of Zineb 4 gm/ltr at the time of opening of female flower
4.	Source of technology	CPCRI, Kasaragod
5.	Production system and thematic area	Rainfed/Protective irrigation and disease Management
6.	Performance of the Technology with performance indicators	Removal of infected debris and timely spraying of Zineb 4gm/ltr. will reduce the disease incidence, nut dropping and increases the yield.
7.	Final recommendation for micro level situation	Removal of disease infected inflorescence and spraying of Zineb 4gm/l. at the time of opening of female flower found effective in management of the disease.
8.	Constraints identified and feedback for research	Nil
9.	Process of farmers participation and their reaction	Farmers express the happiness about the demonstrated technology and there was low disease incidence observed when compared to traditional practice.

# Raw data about the performance of the Technology assessed with performance indicators (Management of Inflorescence die back disease in Arecanut)

		Name of the Village	Data on the performance indicators of the technology assessed											
Farmer	Name of the farmer		Technology Option 1			<b>Technology Option 2</b>			Technology Option 3					
No			No. of Inflorescence infected /pl	% Disease incidence	Yield (t./ha)	No. of Inflorescence infected /pl	% Disease incidence	Yield (t./ha)	No. of Inflorescence infected/pl	% Disease incidence	Yield (t./ha)			
1.	Chandrashekhar Gatty	Kondana	04	50	1.12	02	25	1.82	01	12.5	2.08			
2.	Prabhakara Mayya	Nada	03	37.5	1.43	01	12.5	2.08	00	00	2.35			
3.	Ramesh Bhat Bharanya	Panaje	03	37.5	1.2	01	12.5	2.06	00	00	2.20			
4.	Ajith Kumar Shetty	Arkula	03	37.5	1.59	01	12.5	1.93	00	00	2.58			
5.	Shashidhar Hebbar	Mundoor pady	04	50	1.37	01	12.5	1.95	01	12.5	2.26			
		Average	3.4	42.5	1.34	1.2	15.0	1.97	0.4	5.0	2.29			

#### 4. D1. Results of Technologies Refined: Nil

#### **Results of On Farm Trial**

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement done	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12

#### Contd..

Technology Refined	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				
(Farmer's practice)				
Technology option 2				
Technology option 3				

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

- 1 Title of Technology Refined
- 2 Problem Definition
- 3 Details of technologies selected for assessment/refinement
- 4 Source of technology
- 5 Production system and thematic area
- 6 Performance of the Technology with performance indicators
- 7 Final recommendation for micro level situation
- 8 Constraints identified and feedback for research
- 9 Process of farmers participation and their reaction

#### PART V - FRONTLINE DEMONSTRATIONS

## **5.A.** Summary of FLDs implemented during 2008-09

			. Season		Varioty/				Area (ha)		No. of farmers/ demonstration			Reasons for
Sl. No	Category	Farming Situation	and Year	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Proposed	Actual	SC/ST	Others	Total	shortfall in achieveme nt
1	Oilseeds	Rainfed with protective irrigation	Rabi/summer	Sesamum	Navile-1	-	Residual moisture utilization	Production technology	5.0	5.0	05	10	15	-
2	Pulsas	Rainfed with protective irrigation	Rabi/summer	Black gram	TAU-9	-	Residual moisture utilization	Production technology	10.0	10.0	10	15	25	-
2	Pulses	Rainfed with protective irrigation	Rabi/summer	Green gram	Rashmi	-	Residual moisture utilization	Production technology	5.0	5.0	03	08	11	-
3	Cereals	Rainfed	Rabi	Paddy	MO-4	-	Water managem ent	SRI Method of Paddy cultivation	5.0	5.0	02	03	05	-
3		Rainfed	Kharif	Paddy	MO-4	-	Nutrient management	Integrated Crop Management in Paddy	5.0	5.0	01	04	05	-
4	Millets													
5	Vegetables	Protective irrigation	Rabi-2008	Cassava	Sree Vijaya		Introduction of new variety	Cultivation of high yielding varieties of Cassava	0.1	0.1	02	03	05	-
6	Flowers													
7	Ornamental													
/	Officialiental													

8	Fruit	Rainfed/ protective irrigation	Rabi-2008	Banana	G-9	-	Crop management	Integrated crop management in Banana	1.0	1.0	01	04	05	-
9	Spices and condiments	Rainfed /protective irrigation	Kharif -2008	Pepper	Paniyur	-	Disease management	Quick wilt management in pepper	500 vines	500 vines	01	04	05	-
10	Commercial													
11	Medicinal and aromatic													
12	Fodder													
13		Rainfed/ protective irrigation	Rabi-2008	Arecanut	-	Mangala	Nutrient management	Nutrient management in Arecanut	2.0	2.0	03	07	10	-
		Rainfed/ protective irrigation	Rabi-2008	Cashew	Ullal-1	-	Crop management	Integrated crop management in Cashew	2.0	2.0	02	08	10	-
	Plantation	Rainfed/ protective irrigation	Kharif - 2008	Arecanut	-	Mangala	Disease management	Koleroga management in Arecanut	2.5	2.5	01	05	06	-
		Rainfed/ protective irrigation	Kharif - 2008	Arecanut	D.K. local	Mangala	Insect management	Integrated management of root grub in Arecanut	2.0	2.0	02	08	10	-
	D'I													
14	Fibre													
15	Dairy													
16	Poultry													

17 Rabbitry  18 Pigerry  19 Sheep and goat  20 Duckery  21 Common carps  22 Mussels  23 Ornamental fishes  24 Oyster mushroom  25 Button mushroom			1	1	1	ı	1		1	
18 Pigerry  19 Sheep and goat  20 Duckery  21 Common carps  22 Mussels  23 Ornamental fishes  24 Oyster mushroom  25 Button mushroom										
18 Pigerry  19 Sheep and goat  20 Duckery  21 Common carps  22 Mussels  23 Ornamental fishes  24 Oyster mushroom  25 Button mushroom	17	Rabbitry								
19 Sheep and goat  20 Duckery  21 Common carps  22 Mussels  23 Ornamental fishes  24 Oyster mushroom  25 Button mushroom	1 /	,								
19 Sheep and goat  20 Duckery  21 Common carps  22 Mussels  23 Ornamental fishes  24 Oyster mushroom  25 Button mushroom										
19 Sheep and goat  20 Duckery  21 Common carps  22 Mussels  23 Ornamental fishes  24 Oyster mushroom  25 Button mushroom	18	Pigerry								
20 Duckery  21 Common carps  22 Mussels  23 Ornamental fishes  24 Oyster mushroom  25 Button mushroom										
20 Duckery  21 Common carps  22 Mussels  23 Ornamental fishes  24 Oyster mushroom  25 Button mushroom										
20 Duckery  21 Common carps  22 Mussels  23 Ornamental fishes  24 Oyster mushroom  25 Button mushroom	19	Sheep and								
21 Common carps  22 Mussels  23 Ornamental fishes  24 Oyster mushroom  25 Button mushroom  26 Vermicom		goat								
21 Common carps  22 Mussels  23 Ornamental fishes  24 Oyster mushroom  25 Button mushroom  26 Vermicom										
21 Common carps  22 Mussels  23 Ornamental fishes  24 Oyster mushroom  25 Button mushroom  26 Vermicom	20	Duckery								
22 Mussels  23 Ornamental fishes  24 Oyster mushroom  25 Button mushroom  26 Vermicom										
22 Mussels  23 Ornamental fishes  24 Oyster mushroom  25 Button mushroom  26 Vermicom		C								
22 Mussels  23 Ornamental fishes  24 Oyster mushroom  25 Button mushroom  26 Vermicom	21									
23 Ornamental fishes  24 Oyster mushroom  25 Button mushroom  26 Vermicom		Carps								
23 Ornamental fishes  24 Oyster mushroom  25 Button mushroom  26 Vermicom										
24 Oyster mushroom  25 Button mushroom  26 Vermicom	22	Mussels								
24 Oyster mushroom  25 Button mushroom  26 Vermicom										
24 Oyster mushroom  25 Button mushroom  26 Vermicom		Ornamental								
24 Oyster mushroom  25 Button mushroom  Vermicom  Vermicom	23	fishes								
25 Button mushroom		Hones								
25 Button mushroom		0								
25 Button mushroom	24	Dyster								
26 Vermicom		musmoom								
25 mushroom										
Vermicom Vermicom	25	Button								
		mushroom								
post	26									
		post								
27 Sericulture	27	Sericulture								
		A 1 1.								
28 Apiculture	28	Apiculture								
29 Implements	20	Implements								
29   Implemente	29	Implements								

30	Fisheries	Rainfed	Kharif/Rabi	Fish	Catla, Rohu & Mrigal	-	Growth and survival the performance of stunted fish fingerlings	Production and performance of stunted fish fingerlings		1.0	-	10	10	-
		Rainfed	Kharif/Rabi	Fish	Catla, Rohu & Amur carp (Chakri)		Growth and survival performance of Amur carp	Introduction of Amur carp in poly culture of fish	0.3	0.3	-	03	03	-

5. A. 1. Soil fertility status of FLDs plots during 2008-09

Sl.	~ ·	Farming	Season		Variety/			Technology	Season and	Status of soil			Previous
No. Category		Situation	and Year	Crop	breed	Hybrid	Thematic area	Demonstrated	year	N	P	K	crop grown
													grown
1	Oilseeds	Rainfed/ protective irrigation	Rabi/summer 2008-09	Sesamum	Navile-1	-	Utilization of Residual moisture	Production technology	Rabi/summer 2008-09	M	Н	M	Paddy
2	Pulses	Rainfed /protective irrigation	Rabi/summer 2008-09	Black gram	TAU-9	-	Utilization of Residual moisture	Production technology	Rabi/summer 2008-09	M	M	M	Paddy
2	ruises	Rainfed /protective irrigation	Rabi/summer 2008-09	Green gram	Rashmi	-	Residual moisture utilization	Production technology	Rabi/summer 2008-09	М	M	L	Paddy
3	Cereals	Rainfed	Kharif- 2008-09	Paddy	MO-4	-	Water management	SRI-Method of Paddy cultivation	Kharif- 2008-09	M	Н	L	Paddy
3	Cercuis	Rainfed	Kharif- 2008-09	Paddy	MO-4	-	Nutrient management in paddy	Integrated Crop Management in Paddy	Kharif- 2008-09	M	M	L	Paddy
4	Millets												
5	Vegetables	Protective irrigation	Rabi-2008	Cassava	Sree Vijaya	-	Introduction of new variety	Cultivation of high yielding variety of cassava	Rabi-2008	M	M	L	Bhendi

6	Flowers												
7	Ornamental												
8	Fruit	Protective irrigation	Rabi-2008	Banana	G-9	-	Crop management	Integrated crop management in Banana	Rabi-2008	M	M	L	Black gram
9	Spices and condiments	Rainfed/protective irrigation	Kharif-2008	Pepper	Paniyur	-	Disease management	Quick wilt management in pepper	Kharif- 2008	M	L	L	-
10	Commercial												
11	Medicinal and aromatic												
12	Fodder												
		Rainfed/ protective irrigation	Rabi-2008	Arecanut	-	Mangala	Nutrient management	Nutrient management in Arecanut	Rabi-2008	M	M	L	-
		Rainfed	Rabi-2008	Cashew	Ullal-1	-	Crop management	Integrated crop management in cashew	Rabi-2008	M	M	L	-
13	Plantation	Rainfed/ protective irrigation	Kharif-2008	Arecanut	-	Mangala	Disease management	Koleroga management in Arecanut	Kharif- 2008	M	M	L	-
		Rainfed/ protective irrigation	Kharif-2008	Arecanut	D.K. local	Mangala	Insect management	Integrated management of root grub in Arecanut	Kharif - 2008	M	M	L	-
14	Fibre												

<sup>\*</sup> H = High, \* M = Medium, \* L = Low

### 5. B. Results of Frontline Demonstrations

### 5. B.1. Oilseeds:

	Name of the			Famina	No of	<b>A</b>		Yield	l (q/ha)		%	*Ecoi	nomics of (Rs.	demonstra /ha)	ation	*	Economic (Rs./	s of check /ha)	ζ.
d	technology demonstrated	Variety	Hybrid	Farming situation	No. of Demo.	Area (ha)		Demo		Check	Increase	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
							Н	L	A			Cost	Ketuin	Ketuin	DCK	Cost	Ketuin	Ketuin	DCK
Sesamum	Introduction of high yield variety of oilseeds	Navile-1	-	-	15	5.0	2.86	1.25	2.75	1.95	41.02	6000	14400	8400	2.4	6500	10210	3710	1.57
	Total				15	5.0													

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

	Data on other parameters in relation	on to technology demonstrated											
Parameter with unit	Parameter with unit Demo Local												
No. of Pods/plant 32 pods/plant 12 pods/plant													

### 5.B.2. Pulses

Cwan	Name of the	Variety	Hybrid	Farming	No. of	Area		Yield	(q/ha)		%	*Eco	nomics of (Rs./	demonstra /ha)	ation	*	Economic (Rs./		k
Crop	technology demonstrated	variety	пурпа	situation	Demo.	(ha)		Demo		Check	Increase	Gross	Gross	Net	**	Gross	Gross	Net	**
							Н	L	Α			Cost	Return	Return	BCR	Cost	Return	Return	BCR
Black gram	Black gram production technology	TAU-9	-	Rainfed	25	10.0	3.10	1.76	4.86	3.81	27.55	7500	18375	10875	2.45	7000	14477	7477	2.06
Green gram	Green gram production technology	Rashmi	-	Rainfed	11	5.0	1.76	1.20	2.15	1.75	22.85	5500	10120	4620	1.84	5000	8750	3750	1.75
	Total				36	15.0				•			·						

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

	Data on other parameters in relation to tech	nology demonstrated											
Parameter with unit	Demo	Local											
Black gram													
No. of Pods/plant	25 pods/plant	12 pods/plant											
Green gram													
No. of Pods/plant	10 pods/plant												

# 5. B. 3. Other crops

Cwan	Name of the technology	Maniatra	Hadani d	Farming situation	No. of	Area		Yield	l (q/ha)		%	*Eco	onomics of (Rs.	demonstra /ha)	tion	*	Economic (Rs.	es of check /ha)	(
Crop	demonstrated	Variety	Hybrid	situation	Demo.	(ha)	Н	Demo L	A	Check	Increase	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Cereals																			
Paddy	SRI-Method of Paddy cultivation	MO-4		Rainfed	05	2.0	50.64	40.65	48.40	34.98	38.36	24000	52800	28800	2.2	23000	35880	12881	1.56
,	Integrated Crop Management in Paddy	MO-4		Rainfed	05	2.0	53.84	48.64	51.14	35.41	44.42	25000	48250	23250	1.93	23000	32200	9200	1.40
Millets																			
Vegetables																			
Cassava	Cultivation of high yielding variety of Cassava	Sree Vijaya	-	Rainfed/ protective irrigation	05	0.1	340	290	325	250	23	23000	97500	74500	4.2	19200	56000	36800	2.9
Flowers																			
Ornamental																			
Fruit																			
Banana	Integrated crop management in Banana	G-9	-	Rainfed/ protective irrigation	05	1.0	436	280	396	263.1	50.5	53825	237600	183775	4.41	48618	157860	109242	3.24
Spices and condiments																			
Pepper	Quick wilt management in Pepper	Paniyur	-	Rainfed/ Protective irrigation	05	500 vines	6.79	3.43	5.32	2.98	78.52	28360	61180	32820	2.15	25324	34200	8876	1.35
Commercial																			
Medicinal and aromatic																			
Fodder																			
Plantation																			

Arecanut	Nutrient management in Arecanut	-	Mangala	Rainfed/ Protective irrigation	10	2.0	29.7	18.3	26.4	18.60	41.93	34970	171600	136630	4.9	33870	120900	87030	3.56
Cashew	Integrated crop management in Cashew	Ullal -1	-	Rainfed/ Protective irrigation	10	2.0	16.20	11.10	12.21	6.2	96.93	12135	36630	24495	3.0	9980	18600	8620	1.86
Arecanut	Koleroga management in Arecanut	ı	Mangala	Rainfed/ Protective irrigation	06	2.5	31.83	26.68	29.32	23.11	26.87	38660	190580	151920	4.92	37690	109393	71640	2.90
Arecanut	Integrated root grub management in Arecanut	D.K. local	Mangala	Rainfed/ Protective irrigation	10	2.0	12.56	6.34	9.21	5.7	61.57	32030	64470	32440	2.0	31267	39900	8633	1.27
Fibre																			
Others (pl.specify)																			

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

	Data on other parameters in relation	n to technology demonstrated
Parameter with unit	Demo	Local
Cereals:		
SRI-Method of Paddy cultivation		
Grains/panicle	174.4	144.4
Tillers/plant	36.2	12.2
Integrated Crop Management in Paddy		
Grains/panicle	179	144
Tillers/plant	30	13.0
Vegetables:		
Cultivation of high yielding variety of Cassava		
t/ha.	30	15
Ornamental		
Integrated crop management in Banana		
Bunch weight (Kg.)	28	22
Spices and condiments		
Quick wilt management in Pepper		
% disease incidence	23	76

Plantation		
Nutrient management in Arecanut		
No. of Nut drops/plant	6.60	15.50
Integrated crop management in Cashew		
No. of nuts / kg.	149.3	114
Koleroga management in Arecanut		
No. of bunches in infected /plant	0.8	2.1
Integrated root grub management in Arecanut	·	
No. of bunches/plant	4.2	1.4

### 5.B.4. Livestock: Nil

T	Name of the technology	D 1	N. cD.	No.		Yie	ld (q	/ha)	0/ 1	*Econo	omics of de	emonstration (	Rs./ha)			nics of check Rs./ha)	
Type of livestock	demonstrated	Breed	No. of Demo	of Units		Demo	)	Check	% Increase	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					Н	L	A										
Dairy																	
Poultry																	
Rabbitry																	
Pigerry																	<del>                                     </del>
Sheep and goat																	
Duckery																	
Others (pl.specify)																	

<sup>\*</sup> 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	on to technology demonstrated
Parameter with unit	Demo	Local

### 5. B. 5. Fisheries

Type of	Name of the technology	Breed	No. of	Units/		Yield	(q/ha)		%	*Eco	nomics of (Rs.	demonstra /ha)	ition	*	Economic (Rs.	s of check /ha)	ζ
Breed	demonstrated	breed	Demo	Area (m²)		Demo		Check	Increase	Gross	Gross	Net	**	Gross	Gross	Net	**
	demonstrated			(111)	H	L	A	CHECK		Cost	Return	Return	BCR	Cost	Return	Return	BCR
Common																	
carps																	
Mussels																	
Ornamental																	
fishes																	
Others																	
Catla, Rohu & Mrigal	Production and performance of stunted fish fingerlings	Catla, Rohu & Mrigal	10	10	31.75	22.62	25.87	17.50	47.83	56250	129350	73100	2.30	48150	87500	39350	1.82
Catla, Rohu & Amur carp	Introduction of Amur carp in poly culture of fish	Catla, Rohu & Amur carp	03	03	37.65	32.47	34.28	18.50	85.30	57590	143970	86380	2.50	46500	77700	31200	1.67

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

Data on other	Data on other parameters in relation to technology demonstrated										
Parameter with unit Demo Local											
Production and performance of stunted fish	Production and performance of stunted fish fingerlings										
% Survival	50.25	42.86									
Introduction of Amur carp in poly culture of fish											
% Survival	% Survival 57.17 46.14										

### 5. B.6. Other enterprises: Nil

Entounuico	Name of the	Variety/	No. of	Units/		Yie	eld (q	η/ha)	%	*Eco	nomics of (Rs.		ation	*	Economic (Rs.,		, L
Enterprise	technology demonstrated	species	Demo	Area (m²}	]	Dem	0	Check	Increase	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					Н	L	A										
Oyster mushroom																	
Button mushroom																	
Vermicompost																	
Sericulture																	
Apiculture																	
Others (pl.specify)																	

<sup>\*</sup> 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.): Nil

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

### 5. B.7. Farm implements and machinery: Nil

Name of the	Name of the technology	No. of	Units/		Yie	ld (q	/ha)	%	*Eco		demonstra /ha)	tion	*		cs of check ./ha)	
implement	demonstrated	Demo	Area (m <sup>2</sup> }	H	Demo	O A	Check	Increase	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR

<sup>\*</sup> 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 in drudgery, time and labour saving etc.): Nil

	Data on other parameters in relatio	n to technology demonstrated
Parameter with unit	Demo	Local

### 5.B.8. Cotton: Nil

### Summary of demonstrations conducted under FLD cotton

Sl. No.	Category	Technology Demonstrated	Variety	Hybrid	Season and year	Area	Area (ha)		. of farme monstratio		Reasons for shortfall in achievement
						Proposed	Actual	SC/ST	Others	Total	
	Production										
	Technology										
	IPM										
	Farm										
	Implements										

### **Production technology demonstrations**

### Performance of demonstrations

Farming	Technology	Area	No. of	¥7. •.4	W 1 - 21	Yield	(q/ha)	%	Eco	nomics of (Rs.	demonstrat /ha)	ion	Econo	mics of loc	al check (R	s./ha)
situation	Demonstrated	(ha)	demo.	Variety	Hybrid	Demo	Local	Increase	Gross Cost	Gross Return	Net Return	BCR	Gross Cost	Gross Return	Net Return	BCR

### Performance of Bt hybrids, Desi hybrids, non-Bt hybrids and Varieties in Front Line Demonstrations in cotton during 2008-09: Nil

Catalana	Farming	Technology	Area	No.of	Variety	TT-did	Yield	(q/ha)	%	Eco	nomics of (Rs.		tion	Econor	mics of loc	al check (F	₹s./ha)
Category	situation	Demonstrated	(ha)	demo.	variety	Hybrid	Demo	Local	Increase	Gross Cost	Gross Return	Net Return	BCR	Gross Cost	Gross Return	Net Return	BCR
Bt hybrids																	
Desi hybrids (AXA)																	
HXB Hybrids																	
HXH Hybrids																	
Herbacium Varieties																	
Hirsutum Varieties																	
Arboreum Varieties																	

### Integrated pest management demonstrations: Nil

Farming	Variety	Hybrid	No. of	Total No. of	Area		lence of p		See	d Cottor (q/ha)		Eco	nomics of d (Rs./		ion	Econo	omics of loc	al check (R	s./ha)
situation	variety	пурпа	blocks	Demo.	(ha)	IPM	Non IPM	% Change	IPM	Non IPM	% Change	Gross Cost	Gross Return	Net Return	BCR	Gross Cost	Gross Return	Net Return	BCR

### Demonstrations on farm implements: Nil

Name of the implement	Aron (Ha)	No. of Domo	Name of the technology demonstrated	Details on parameters				
Name of the implement	Alea (Ha)	No. of Dellio.	Name of the technology demonstrated	Demo	Local check	BCR		
Total								

### **Extension Programmes organized in Cotton Demonstration Plots:** Nil

Extension activity	No. of Programmes		Participants			SC/ST	
	Trogrammes	Male	Female	Total	Male	Female	Total
Consultancy							
Conventions							
Demonstrations							
Diagnostic surveys							
Exhibition							
Farmer study tours							
Farmers Field school							
Field Days							
Field visits							
Gram sabha							
Group discussions							
Kisan Gosthi							
Kisan Mela							
Training for Extension Functionaries							
Training for farmers							
Viedo show							
Newspaper coverage							
Popular articles							
Publication							
Radio talks							
T.V. Programme							
Others (Pl.specify)							
TOTAL							

# $Technical\ Feedback\ on\ the\ demonstrated\ technologies\ on\ all\ crops\ /\ enterprise$

S. No	Crop / Enterprise	Name of the technology demonstrated	Feed Back
1.	Sesamum	Production technology	The introduced variety (Navile-1) performed better in yield than the local variety.
2.	Black gram	Production technology	The introduced variety (TAU-9) black gram performed better in pod yield than the local variety.
3.	Green gram	Production technology	The introduced variety (Rashmi) performed slightly better in yield than the local variety.
4.	Paddy	SRI-Method of Paddy cultivation	Under SRI method of paddy cultivation grain and straw yield are better than the traditional method. Recorded higher number of tillers in SRI method which resulted in higher yield with water savings than the normal method of paddy cultivation.
5.	Paddy	Integrated Crop Management in Paddy	Adoption of ICM practices gave higher yield over traditional method. In long run ICM practice will help to maintain the soil health and sustained the yield.
6.	Arecanut	Integrated root grub management in Arecanut	Timely application of Phorate 25 gm/plant during May-June and drenching of Chloropyriphos 5ml/ltr. (2-3ltr/plant) during September reduced root grub incidence and increase the vigour of the plant
7	Fisheries	Production and performance of stunted fish fingerlings	Stocking of stunted fingerlings in the farm ponds and irrigation tanks recorded 2-3 times higher yield and survival compared to normal fish fingerlings.
8	Fisheries	Introduction of Amur carp in poly culture of fish	Use of Amur carp in place of normal common carp recorded in higher yield due to higher somatic growth.

# Farmers' reactions on specific technologies

S. No	Crop / Enterprise	Name of the technology demonstrated	Feed Back
1	Sesamum	Production technology	Farmers felt that the new variety Navile-1 and scientific cultivation practices has increased the yield of Sesamum over the local variety and traditional methods. Farmers agreed to adopt the variety and cultivation practices and disseminate the same to the neighbouring farmers.
2	Black gram	Production technology	Farmers felt the scientific cultivation of black gram can increase the yield over traditional method. Further the farmer willing to continue the scientific cultivation practices in black gram in future.
3	Green gram	Production technology	Farmers felt the scientific cultivation of green gram can increase the yield over traditional method. Further the farmer willing to continue the scientific cultivation practices in green gram in future.
4	Paddy	SRI-Method of Paddy cultivation	Farmers felt that the yield in SRI-method of paddy cultivation is better over traditional practice. Experienced labour and weed management is major problem in this method, which can be over come by use of conoweeder. The farmers are willing to adopt it and agree to disseminate the same to the neighbouring farmers.
5	Paddy	Integrated Crop Management in Paddy	Farmers felt the ICM technology in paddy cultivation has helped to increase the grain and straw yield. Farmers wish to continue the same technology in future and disseminate it to the neighbouring farmers.
6	Arecanut	Integrated root grub management in Arecanut	Farmers opined that timely application of Phorate and Chloropyriphos reduced root grub incidence and plant may regain the vigour and yield.
7	Fisheries	Production and performance of stunted fish fingerlings	Farmers appreciated the growth and survival of stunted fish fingerlings.
	Fisheries	Introduction of Amur carp in poly culture of fish	The growth performance of Amur carp was highly appreciated by the farmer as it matures later.

## **Extension and Training activities under FLD**

Sl. No.	Activity	No. of activities organised	Number of participants	Remarks
1	Field days	06	194	-
2	Farmers Training	03	90	-
3	Training for extension functionaries	-	-	-

## <u>PART VI – DEMONSTRATIONS ON CROP HYBRIDS</u>

## Demonstration details on crop hybrids: Nil

Type of	Name of the technology	Name of the	No. of	Units/ Area		Yie	ld (q/	/ha)	%		nomics of (Rs.	/ha)			(Rs.		
Breed	demonstrated	hybrid	Demo	(m <sup>2</sup>		Demo		Check	Increase	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
C 1					Н	L	A										
Cereals																	
Bajra																	
Maize																	
Rice																	
Sorghum																	
Wheat																	
Others																	
(pl.specify)																	
Total Oilseeds																	
Castor																	<del>                                     </del>
Mustard																	<del>                                     </del>
Safflower																	<del>                                     </del>
Sesame								-									<del>                                     </del>
Sunflower					-					<del>                                     </del>				-			<del> </del>
Groundnut								-		-							<del> </del>
Soybean										<del>                                     </del>							
Others				-				-		<del>                                     </del>				-			$\vdash$
(pl.specify)																	
Total					-					<del>                                     </del>							<del></del>
Pulses																	
Greengram																	
Blackgram																	<del>                                     </del>
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)																	<u> </u>
Total																	<u> </u>
Fodder crops																	
Maize																	
(Fodder)																	<u> </u>
Sorghum																	
(Fodder)																	
Others																	
(pl.specify)																	
Total									1	1			1	0			

H-High L-Low, A-Average

## PART VII. TRAINING

# 7. A. Farmers' Training including sponsored training programmes (On campus)

A was of two ining	No. of	of No. of Participants											
Area of training	Courses	Male	General Female	Total	Male	SC/ST Female	Total	Male	Grand Tota Female	l Total			
Crop Production													
Weed Management													
Resource Conservation Technologies													
Cropping Systems													
Crop Diversification													
Integrated Farming	01	27	00	27	02	00	02	29	00	29			
Micro Irrigation/Irrigation													
Seed production													
Nursery management													
Integrated Crop Management													
Soil and Water Conservation													
Integrated Nutrient Management													
Production of organic inputs													
Mechanization	01	25	00	25	02	00	02	27	00	27			
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	01	19	15	34	03	02	05	22	17	39			
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	01	06	08	14	01	00	01	07	08	15
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										
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	01	14	10	24	08	02	10	22	12	34
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  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	04	11	138	149	00	13	13	11	151	162
Women empowerment										
Location specific drudgery production										
Rural Crafts										
Women and child care										
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										
Integrated Disease Management										
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others (pl.specify)										
Fisheries										
Integrated fish farming	01	14	02	16	00	00	00	14	02	16
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture	01	35	03	38	08	00	08	43	03	46
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										
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										
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	11	151	176	327	24	17	41	175	193	368

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

	No. of	No. of Participants												
Area of training	Courses		General			SC/ST		Grand Total						
		Male	Female	Total	Male	Female	Total	Male	Female	Total				
<b>Crop Production</b>														
Weed Management														
Resource Conservation Technologies														
Cropping Systems	02	32	14	46	05	00	05	37	14	51				
Crop Diversification														
Integrated Farming														
Micro Irrigation/Irrigation														
Seed production														

Nursery management	01	49	13	62	05	02	07	54	15	69
Integrated Crop Management	01	23	03	26	02	02	04	25	05	30
Soil and Water Conservation										
Integrated Nutrient Management										
Production of organic inputs	02	43	05	48	20	08	28	63	13	76
Mechanization	01	25	09	34	03	01	04	28	10	38
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	01	44	00	44	04	00	04	48	00	48
Others (pl.specify)										
d) Plantation crops										
Production and Management technology	02	59	17	76	06	02	08	65	19	84
Processing and value addition										
Mechanization	01	32	00	32	03	00	03	35	00	35
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
f) Spices										
Production and Management technology		1								

5										
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	01	53	0	53	25	0	25	78	0	78
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	01	14	02	16	04	00	04	18	02	20
Others (pl.specify)										
Livestock Production and Management										
Dairy Management	02	58	18	76	09	03	12	67	21	88
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  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	03	32	56	88	03	02	05	35	58	93
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition	03	18	89	107	03	05	08	21	94	115
Women empowerment										
Location specific drudgery production										
Rural Crafts										
Women and child care										
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										
Integrated Disease Management	03	55	11	66	08	00	08	63	11	74
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others (pl.specify)										
Fisheries										
Integrated fish farming	01	21	14	35	05	00	05	26	14	40
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture	02	25	23	48	02	02	04	27	25	52
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										
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										
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	27	583	274	857	107	27	134	690	301	991

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

	No. of				No. of	Participa	nts			
Area of training	Courses		General			SC/ST			Grand Tota	
Nursery Management of		Male	Female	Total	Male	Female	Total	Male	Female	Total
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										
Mushroom Production	01	19	12	31	02	00	02	21	12	33
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)										
TOTAL	01	19	12	31	02	00	02	21	12	33

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

Area of training	No. of Courses			1	No. of 1	Particip	ants			
			General			SC/ST			Grand Tota	
		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										
Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition	01	00	31	31	00	05	05	00	36	36
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	01	19	02	21	03	00	03	22	02	24
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Integrated disease management	01	22	00	22	04	00	04	26	00	26
Integrated Pest management	01	30	17	47	09	02	11	39	19	58
TOTAL	04	71	50	121	16	07	23	87	57	144

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

	No. of				No. o	f Participaı	nts			
Area of training	Courses		General			SC/ST			Grand Tota	ıl
		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	01	00	23	23	00	03	03	00	26	26
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										
Integrated farming	01	00	37	37	00	03	03	00	40	40
Total	02	00	60	60	00	06	06	00	66	66

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

	No. of				No. of	Participan	ts			
Area of training	Courses		General			SC/ST			<b>Grand Tota</b>	ıl
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in										İ
field crops										
Integrated Pest Management										
Integrated Nutrient										İ
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								İ		
diet designing										
Group Dynamics and farmers										
organization										İ
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										

# 7.G. Sponsored training programmes

		No. of Courses				No.	of Particip	ants			
S.No.	Area of training	Courses		General			SC/ST			Grand Tota	ıl
			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	01	14	02	16	00	00	00	14	02	16
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)										
	Total	01	14	02	16	00	00	00	14	02	16

Details of sponsoring agencies involved
1. National Fisheries Development Board, Hyderabad

7.H. Details of vocational training programmes carried out by KVKs for rural youth: Nil

		No. of				No.	of Particip	oants			
S.No.	Area of training	Courses		General			SC/ST			Grand Tota	al
		Courses	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 (pl.specify)										
5	Agricultural Extension										
5.a.	Capacity building and group dynamics										
5.b.	Others (pl.specify)										
	Grand Total										

### Farmers Field School on Integrated Pest Management in Paddy

		No. of Courses				No. o	of Participa	ints			
Sl. No.	Area of training			General			SC/ST			<b>Grand Tota</b>	ıl
			Male	Female	Total	Male	Female	Total	Male	Female	Total
1.	FFS concept, Ballot Box test (Pre-test)	1	20	4	24	0	1	1	20	5	25
2.	Seed treatment and land preparation	1	20	4	24	0	1	1	20	5	25
3.	Pest management and AESA-I	1	20	4	24	0	1	1	20	5	25
4.	Disease Management and AESA-II	1	20	4	24	0	1	1	20	5	25
5.	Field Day on Integrated Pest Management in Paddy	1	20	4	24	0	1	1	20	5	25
6.	Post test and withdrawn programme	1	20	4	24	0	1	1	20	5	25

### **Farmers Field School Results**

	Name of the			Eaumina	No. of	Amaa		Yi	ield (q/h	a)	%	*Eco	nomics of (Rs.	demonstra /ha)	tion	*	Economic (Rs.	es of check /ha)	<u>r</u>
Crop	technology demonstrated	Variety	Hybrid	Farming situation	Demo.	Area (ha)		Der	mo	Check	Increase	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
							H	L	A			Cost	Return	Return	DCK	Cost	Return	IXCUII II	DCK
Paddy	Integrated Pest Management in Paddy	Jaya	-	Rainfed	01	0.8	-	-	37.50	28.75	30.43	18950	37750	14800	1.78	21000	25875	4875	1.23
	Total				01	0.8													

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

	Data on other parameters in relation	on to technology demonstrated
Parameter with unit	Demo	Local
Grains/panicle	175	140
No. of Tillers/plant	30	14

## <u>PART VIII – EXTENSION ACTIVITIES</u>

# **Extension Programmes (including activities of FLD programmes)**

Nature of Extension	No. of	No. of P	articipants (	General)	No.	of Particip SC / ST	ants	No. of	extension pe	ersonnel
Programme	Programmes	Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	07	150	26	176	52	10	62	06	02	08
Kisan Mela	-	-	-	-	-	-	-	-	-	-
Kisan Ghosthi	-	-	-	-	-	-	-	-	-	-
Exhibition	=	-	-	-	-	-	-	-	-	-
Film Show	-	-	-	-	-	-	-	-	-	-
Method Demonstrations	19	271	300	571	34	24	58	06	03	09
Farmers Seminar	02	212	193	405	02	00	02	12	09	21
Workshop	-	-	-	-	-	-	-	-	-	-
Group meetings	=	-	-	-	-	-	-	-	-	-
Lectures delivered as resource persons	44	550	115	665	18	06	24	5	8	13
Newspaper coverage	70	-	-	-	-	-	-	-	-	-
Radio talks	10	-	-	-	-	-	-	-	-	-
TV talks	=	-	-	-	-	-	-	-	-	-
Popular articles	17	-	-	-	-	-	-	-	-	-
Extension Literature	04	-	-	-	-	-	-	-	-	-
Advisory Services	134	98	12	110	09	06	15	03	06	09
Scientific visit to farmers field	71	75	06	81	11	06	17	05	03	08
Farmers visit to KVK	174	128	11	139	23	06	29	04	02	06
Diagnostic visits	-	-	-	-	-	-	-	-	-	-
Exposure visits	-	-	-	-	-	-	-	-	-	-
Ex-trainees Sammelan	-	-	-	-	-	-	-	-	-	-
Soil health Camp	-	-	-	-	-	-	-	-	-	-
Animal Health Camp	=	-	=	-	-	-	-	-	-	-
Agri mobile clinic	-	-	-	-	-	-	-	-	-	-
Soil test campaigns	01	14	02	16	04	00	04	00	00	00
Farm Science Club	-	-	-	-	-	-	-	-	-	-
Conveners meet										
Self Help Group	-	-	-	-	-	-	-	-	-	-
Conveners meetings	_									
Mahila Mandals Conveners meetings	-	-	-	-	-	-	-	-	-	-
Celebration of important	-	_	_	_	_	_	_	_	_	_
days (specify)	-	-	-	_	_	_	_	_	_	_
World Food Day	01	18	11	29	02	02	04	00	00	00
Farmers, Scientists and										
Officers interaction	01	30	02	32	06	00	06	00	00	00
World Environmental	01	22	02	24	01	00	01	00	00	00
Day	-									
Farmers Day	01	31	13	44	04	02	06	00	00	00
Any Other (Specify)	-	- 1705	-	-	-	-	-	-	-	-
Total	556	1599	693	2292	166	62	228	155	65	220

### 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	Paddy	MO-4	-	59.50	63054.00*	15 Farmers
Oilseeds	_	-	ı	-	1	-
Pulses	_	-	-	-	-	-
Commercial crops	_	-	-	-	-	-
Vegetables	-	-	-	-	-	-
Flower crops	-	-	-	-	-	-
Spices	-	-	-	-	-	-
Fodder crop seeds	_	-	-	-	-	-
Fiber crops	-	-	-	-	-	-
Forest Species	_	-	-	-	-	-
Others (specify)	_	-	ı	-	-	-
Total	-	_	-	79	63200.00	-

#### \* Note:

- 5.06 qtl sold as TL Seed @ Rs. 19.00/Kg.
- Remaining 5.34 qtl sold as bulk @ Rs.10.00/ Kg.

### 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	PKM-1	-	190	1900.00	45
Fruits	Papaya	Taiwan red lady	-	225	3375.00	40
Ornamental plants	-	-	-	-	-	-
Medicinal and Aromatic	-	-	-	-	-	-
Plantation	Coconut	West coast tall, Chowghat dwarf	-	850	29750.00	60
Spices	-	-	-	-	-	-
Tuber	-	-	-	-	-	-
Fodder crop saplings		-	-	-	-	-
Forest Species	-	-	-	-	-	-
Others(specify)		-	-	-	-	-
Total	-	-	-	1265	35025.00	145

### 9. C. Production of Bio-Products: Nil

Bio Products	Name of the his product	Quantity		Value	Number of farmers to	
Bio Froducts	Name of the bio-product	No	Kg	(Rs.)	whom provided	
Bio Fertilizers	-	1	-	-	-	
Bio-pesticide	-	-	-	-	-	
Bio-fungicide	-	1	-	-	-	
Bio Agents	-	1	-	-	-	
Others (specify)	-	1	-	-	-	
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	-	-	-	-
Ornamental Fish	Guppi, Platy, Swordtain and Molly	170	800.00	1
Total		170	800.00	1

### PART X – PUBLICATION, SUCCESS STORY, SWTL

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

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

### (B) Literature developed/published

Item	Title	Authors name	Number
Research papers	-		-
Technical reports	-	-	-
News letters	News letters Krishi Sanjeevini (Quarterly)		100
Technical bulletins	-	-	-
	• Krishi Vigyan Kendra- A ray of hope	Dr. G. Nagesha	01
	Balanced food	Dr. Jayashree. S	01
	• Value addition to food grains	Dr. Jayashree. S	01
	<ul> <li>Health benefits of Leafy vegetables</li> </ul>	Dr. Jayashree. S	01
Popular articles	• Minerals for good health	Dr. Jayashree. S	01
	• Health and food -Why do we need vitamins?	Dr. Jayashree	01
	<ul> <li>Information technology in Agriculture</li> </ul>	Dr. G. Nagesha	01
	• Jack of all fruits	Dr. Jayashree. S	01
	• Processing and preservation of fruits	Dr. Jayashree. S	01
	<ul> <li>Babycorn - An alternative crop in coastal zone</li> </ul>	Dr. Parashuram Chandravanshi	01
	• Its Right time for soil sampling and testing in coastal zone	Dr. Parashuram Chandravanshi	01
	• Important activities to be carried out by the farmers during pre monsoon	Dr. Parashuram Chandravanshi	01
	• Koleroga management in Arecanut	Mr. Veerendra kumar K.V	01
	• Root grub management in Arecanut	Mr. Veerendra kumar K.V	01
	<ul> <li>Utilization of seasonal water bodies for fish culture</li> </ul>	Dr. Rajesh K.M	01
	• Integrated fish farming	Dr. Rajesh K.M	01

	Potassium and Boron management in Arecanut	Dr. Parashuram Chandravanshi	01
	• Improved cultivation practices of Sesamum in coastal zone	Dr. Parashuram Chandravanshi	200
Extension literature	• Improved cultivation practices of green gram in coastal zone	Dr. Parashuram Chandravanshi	350
	• Improved fish and prawn culture	Dr. Rajesh K.M	50
	• Composite fish culture	Dr. Rajesh K.M	50
TOTAL			

#### 10. B. Details of Electronic Media Produced: Nil

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): Nil

The Broad outline for the case study may be

Title

Background

Interventions

**Process** 

Technology

Impact

Horizontal Spread

Economic gains

**Employment Generation** 

- 10.D. Give details of innovative methodology or innovative technology of Transfer of Technology developed and used during the year: Nil
- 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.	Paddy	Spraying of plant extract like Neem, Eupatorium	To prevent insects and disease incidence
2.	Coconut	Attraction of Rhinoceros beetle in coconut garden by placing mixture made up of ground nut cake and cow dung.	Attraction of Rhinoceros beetle
3.	Ash gourd/Cucumber	Hanging of Ash gourd/ cucumber	To improve the shelf life

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

• Identification of courses

for farmers/farm women : PRA/Discussion meetings/Focus group discussion/Group

meetings

• Rural Youth : PRA/Discussion meetings/Focus group discussion/Group

meetings

• In-service personnel : PRA/Discussion meetings/Focus group discussion/Group

meetings

### Tools and methodology followed are

- 1. Focus group discussion
- 2. Media coverage
- 3. Farmers response
- 4. Pre and Post evaluation tests
- 5. Suggestion box
- 6. Method demonstration

#### 10.G. Field activities

i. Number of villages adopted : 05
ii. No. of farm families selected : 50
iii. No. of survey/PRA conducted : 10

### 10.H. Activities of Soil and Water Testing Laboratory: Nil

Status of establishment of Lab :

1. Year of establishment :

2. List of equipments purchased with amount :

Sl. No	Name of the Equipment	Qty.	Cost
1			
2			
3			
·	Total		

#### Details of samples analyzed so far since establishment of SWTL including during 2008-09

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

### Details of samples analyzed during 2008-09

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized
Soil Samples				
Water Samples				
Plant samples				
Total				

:

#### **ART XII IMPACT**

#### 11.A. Impact of KVK activities (Not to be restricted for reporting period).

Name of specific	No. of	% of	Change in income (Rs.)				
technology/skill	participants	adoption	Before	After			
transferred	participants	adoption	(Rs./Unit)	(Rs./Unit)			
Mushroom Cultivation	33	25	6300.00	12000.00			

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

11. B. Cases of large scale adoption: Nil

(Please furnish detailed information for each case)

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

#### **METHODOLOGY**

Krishi Vigyan Kendra had organized On Campus training programme for seven days on Integrated farming technologies for practicing farmers of Dakshina Kannada district for which the impact analysis was done on knowledge gain. The total samples selected for the study were 40 trainees. The technologies selected for the training were eight in number viz. Jasmine production technology, Paddy Production technology, Arecanut cultivation technology, Coconut cultivation technology, cashew and banana cultivation technology, Vermicompost preparation technology, Dairy and fishery and value addition to agricultural and horticultural produce technologies. Data was collected from the trainees with the help of a structured schedule before and after the training programme to assess the gain in knowledge towards selected technologies. Data was further analyzed for Knowledge index of trainees.

Knowledge Index =	Knowledge score obtained	X	100
iiio wieuge iiiueii	Maximum Knowledge score		200

RESULTS

Table 1 Socio-economic characteristics of the trainees

Variable	Characteristics	No. of respondents	Percentage	
	Young ( <u>&lt;</u> 35)	35	87.50	
Age	Middle (36-50)	5	12.50	
	Old (> 50)	0	0	
	Illiterate	0	0	
	Primary school	8	20.00	
Education	High School	12	30.00	
	Pre-University College	20	50.00	
	Graduate	0	0	
Family size	Small family ( $\leq 5$ )	12	30.00	
1 anning Size	Large family (> 5)	28	70.00	
Family type	Nuclear family	10	25.00	
ranning type	Joint family	30	75.00	
	Marginal farmers	26	65.00	
I and halding	Small farmers	10	25.00	
Land holding	Medium farmers	4	10.00	
	Large farmers	0	0	

Table 1 clearly shows that more than three fourth of the trainees (87.50 %) were young followed by middle aged. With reference to education half of the trainees had pre-University college education followed by high school and primary school education. More than half of the trainees belong to the families having more than 5 family members i.e. large and joint family. More than half of the trainees were marginal farmers having land area less than 2.5 acres followed by small (25 %) and medium farmers (10%). Table 1 clearly indicates that majority of the trainees were young, sufficiently educated, came from joint and large families and practicing agriculture and allied activities.

Table 2 Knowledge level of trainees on various agriculture and allied technologies

Торіс	Know	ledge leve	el of trai	No. of trainees gained knowledge due to training			
	Before	%	After	%	Difference	%	
Arecanut cultivation	9	22.50	30	75.00	21	52.50	
Paddy cultivation	16	40.00	29	72.50	13	32.50	
Jasmine cultivation	9	22.50	26	65.00	17	42.50	
Coconut cultivation	17	42.50	23	57.50	6	15.00	
Cashew and banana cultivation	21	52.50	29	72.50	8	20.00	
Vermicompost preparation	10	25.00	24	60.00	14	35.00	

Knowledge Index	33.35 %		65.75 %			
Value addition to agricultural and horticultural produce	17	42.50	21	52.50	4	10.00
Dairy and fishery	20	50.00	31	77.50	11	27.50

Table 3 Ranking of the demonstrated technologies

Sl. No.	Technologies	Rank	Reasons
1.	Arecanut cultivation	I	Actively involved in areca nut cultivation
2.	Jasmine cultivation	II	Interest in Jasmine cultivation
3.	Vermicompost preparation	III	Organic farming
4.	Paddy cultivation	IV	Income generating and provides food
5.	Dairy and Fishery	V	Interest in dairy farming
6.	Cashew and Banana cultivation	VI	Felt cashew as neglected crop which does not need management
7.	Coconut cultivation	VII	Less income generating
8.	Value addition to agricultural and horticultural produces	VIII	Less scope for establishing processing units

Table 2 clearly indicates that there is an increase in knowledge level of trainees on various agricultural and allied technologies after the training. The knowledge level of trainees with regard to various technologies before training was maximum in case of cashew and banana cultivation (52.50%) followed by Dairy and fishery (50 %). The reason for this may be that cashew is one of the major dry land horticultural crop grown in Dakshina Kannada district and assured income. Dairy and Fisheries technologies were practiced over the years because of well established marketing network.

After the training programme, the gain in Knowledge was seen towards all the topics covered under the training programme. The number of trainees who gained knowledge due to training was maximum in case of areca nut cultivation followed by Jasmine cultivation, Vermicompost preparation and paddy cultivation. Areca nut cultivation was ranked as most important (Table 3) due to its economic value and the severity of loss in yield incurred due to viral disease (Koleroga) has made them to gain more knowledge towards areca nut cultivation. Jasmine cultivation technology earns second position in terms of Knowledge gain (42.50 %). This may be due to the fact that many of the marginal farmers were practice Jasmine cultivation and obtains continues second position in Knowledge gain (42.50%) and steady income through out the year. This has really made them to accelerate their knowledge level on Jasmine cultivation. Since, trainees have more affinity towards organic farming, they were very much keen to gain knowledge towards Vermicompost preparation (35%). As the area under paddy cultivation is declining and the cost of cultivation is increasing, they were interested to know profitable paddy cultivation technologies. Hence they gained 32.50 % increase in knowledge in paddy cultivation. Trainees had fairy good knowledge in cashew and banana cultivation and hence it may result in low knowledge gain due to training programme. With reference to value addition to agricultural and

horticultural produces, trainees gained least knowledge this may be due to lack of facilities and opportunities for them to establish processing units at village level.

#### **Knowledge Index:**

The knowledge index of the trainees shows that over all on an average the knowledge level has increased to 65.71 per cent from 33.35 per cent. This clearly indicates that the training programme has accelerated the trainees' knowledge level on agriculture and allied technologies.

#### 2. Impact analysis of Farmers Field School on Integrated Pest Management in Paddy

#### Methodology:

The study was conducted in a Farmers Field School (FFS) on Integrated Pest Management (IPM) in paddy during the rabi season of 2008 at Mogaru village of Mangalore taluk in Dakshina Kannada district. About 2 ha of paddy area was selected for this study where farmers apply pesticides in an huge amount. One group meeting was organized by inviting paddy growers of Mogaru village, Gram Panchayath president and Members, Agriculture Officer of concern Raitha Samparka Kendra (RSK) to indentify facilitators, Collaborators and other FFS trainees and to obtain approval of Gram Sabha for starting FFS in Mogaru village of Mangalore taluk. 28 paddy growers were selected including 5 SC/ST and 3 women farmers for conducting FFS programme. This FFS curriculum involved 8 sessions which includes Exposure Visit and a Field Day programme. Each session had different activities like field observation, group dynamics, identification of pests and defenders, agro-ecosystem analysis, management of pest and diseases of paddy and efficient use of IPM practices. The impact studies on these activities were under taken for monitoring and assessment of the activities. The impact analysis was mainly done to know the change in Knowledge level of FFS trainees.

#### Measuring tool: Ballot Box Test method

**Details of Methodology:** For evaluating the knowledge level of Farmers Field School trainees (28) before and after the Farmers Field School programme, ballot Box test consisting of 25 questions were given to them. These 25 questions depict knowledge and awareness of trainees on IPM practices, INM practices, resistant varieties, chemical pesticides and biological control. For each question, three answers were provided and trainees need to drop the given slip in any one slot / box. The results were entered in a data processing sheet with one point for each correct answer. The ballot box test was conducted to FFS trainees before commencing technical session and also after the technical session. Sum of these scores were taken, average and paired 't' test were calculated.

Table 1: Gain in knowledge level of FFS trainees

	Pre	training	Post	Gain in		
Farmers ID	Score	Knowledge level (%)	Score	Knowledge level (%)	knowledge level (%)	
1.	6	24	18	72	48	
2.	4	16	10	40	24	
3.	6	24	16	64	40	
4.	3	12	19	76	64	
5.	9	36	16	64	28	
6.	2	8	12	48	40	
7.	5	20	16	64	44	
8.	2	8	14	56	48	
9.	8	32	19	76	44	
10.	6	24	16	64	40	
11.	5	5 20 15	15	60	40	
12.	4	16	12	48	32	
13.	3	12	17	68	56	
14.	2	8	12	48	40	
15.	1	4	12	48	44	
16.	7	28	15	60	32	
17.	3	12	11	44	32	
18.	8	32	16	64	32	
19.	7	28	16	64	36	
20.	1	4	18	72	68	
21.	5	20	22	88	68	
22.	2	8	12	48	40	
23.	2	8	14	56	48	
24.	3	12	20	80	68	
25.	3	12	18	72	60	
	Mean	17.12	Mean	61.76	44.64	

After analysing the pre and post evaluation data of Ballot Box test, it was clear that there was a tremendous change in the knowledge level of FFS trainees. Before training, the knowledge level of farmers varied from 4 to 36 per cent. After undergoing series of training programmes, it was clear that the knowledge level of farmers increased to the range of 40 to 88 per cert and a overall **44.64 per cent** was recorded as the gain in knowledge level of entire group.

The paired t test value 4.216 found significant at 5 % level clearly indicated that the knowledge level of Farmers Field School trainee after FFS programme was different from that of before FFS programme. This shows the impact of FFS programme on change in knowledge level of FFS trainees.

### **PART XII - LINKAGES**

### 12.A. Functional linkage with different organizations

Name of organization	Nature of linkage						
State Department Department of Agriculture, Horticulture Animal Husbandry and Veterinary services, Fisheries, Child and women welfare development	<ul> <li>Training and demonstrations.</li> <li>Providing technical information to the Extension functionaries during bi-monthly workshops</li> <li>Diagnostic survey and forecasting of pest and disease in different crops.</li> <li>Field days, Farmers day, World Food day etc.</li> <li>Field visit to problematic crops in the District.</li> </ul>						
Non-Governmental Organization Shree Kshetra Dharmasthala Rural Development Project, Nagarika Seva Trust, Cooperative Societies and Vijaya Rural Developmental Foundation	<ul> <li>Training programmes and demonstrations</li> <li>Participation in meeting</li> <li>Farmers selection, FLD, OFT implementation</li> <li>Training need assessment</li> </ul>						
<b>Bank</b> Co-operative Agri. Bank	• Training Programmes for the farmers/Self Help Groups/OFT/FLD implementation.						
All India Radio	<ul> <li>Transfer of technology through radio talks. Announcing of messages to the farmers and KVK training Programme schedules.</li> <li>Pest and Disease forecasting in different crops.</li> </ul>						

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

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

Name of the scheme	Date/ Month of initiation	Funding agency	Amount (Rs.)
National Horticulture Mission	26-6-2009	Dept. of Horticulture, Mangalore	40000.00

### 12.C. Details of linkage with ATMA

### a) Is ATMA implemented in your district: Yes

S. No.	Programme	Nature of linkage	Remarks
1.	Training programmes	Technical support to farmers during training programmes.	-
2.	Organizing workshop cum Exhibitions	Technical support and guidance in organizing workshop and exhibition.	Five Kharif workshop cum Exhibitions organized
3.	Farmers Field School	Training programme and field days.	Conducted Farmers Field School on Integrated Pest Management in Paddy.

### Farmers Field School Results under ATMA

**Integrated Pest Management in Paddy** 

	Name of the			Eaumina	No of	<b>A</b>	` -		Yield (q/ha)		0/	*Economics of demonstration (Rs./ha)			*Economics of check (Rs./ha)				
Crop	technology demonstrated	Variety	Hybrid	Farming situation	No. of Demo.	Area (ha)		De	mo	Check	% Increase	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
							Н	L	A			Cost	Keturn	Ketuili	DCK	Cost	Ketuili	Ketuili	BCK
Paddy	Integrated Pest Management in Paddy	Jaya	-	Rainfed	1	1.0	1	-	39.40	30.50	29.18	19250	35460	18710	1.84	20500	27450	6950	1.34
	Total																		

### 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	Local					
Grains/panicle	175	140					
Tillers/plant	30	14					

### Farmers Field School on Integrated Pest Management in Paddy

GL M		No. of Courses	No. of Participants								
Sl. No.	Area of training			General			SC/ST		Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
1.	FFS concept, Ballot Box test (Pre-test)	01	20	04	24	00	001	01	20	5	25
2.	Seed treatment and land preparation	01	20	04	24	00	01	01	20	05	25
3.	Pest management and AESA-I	01	20	04	24	00	01	01	20	05	25
4.	Disease Management and AESA-II	01	20	04	24	00	01	01	20	05	25
5.	Field Day on Integrated Pest Management in Paddy	01	20	04	24	00	01	01	20	05	25
6.	Post test and withdrawn programme	01	20	04	24	00	01	01	20	05	25

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

S. No.	Programme	Nature of linkage	Constraints if any
1.	Plant health Clinic and Disease forecasting Unit	<ul> <li>Advisory services made during the period on pathological and insect problems of various crops through</li> <li>1) Diagnostic Field Visits - 84 No.</li> <li>2) Farmers visit to PHC/DFU - 98 No.</li> <li>3) Phone contacts - 135 No.</li> <li>4) Radio talk - 4 No.</li> <li>5) Press Coverage -16 No.</li> <li>6) Literatures -a) Technical bulletin -2 No.</li></ul>	-

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

S. No.	Programme	Nature of linkage	Remarks
		NFDB funded for conducting	Conducted one 7 days training
1	Integrated fish farming	training programmes on	programme to the farmers of
		fisheries technologies	Dakshina Kannada District.

### 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)	Detai	ils of produ	ction	Amoui	Remarks	
				Variety	Produce	Qty.	Cost of inputs	Gross income	- 7
1.	Vermi hatchery	2008	-	Earth worms	26 kg	26 kg	2000.00	10550.00	-
2.	Fisheries	2007	80 sq. m.	-	-	170 Nos.		800.00	-
3.	Poly house (Gerbera)	2008	260 sq.m.	African Daicy	414 flowers	414 flowers	11600.00	1242	The Gerbera yielding up to 3 years

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

Name	Date of	Date of harvest	Area (ha)	Details of production			Amour		
of the crop	sowing			Variety	Type of Produce	Qty.	Cost of inputs	Gross income	Remarks
Cereals									
Paddy	7-7-2008	11-10-2008	3.6	MO-4	TFL Seeds	79	92160.00	63200.00	Here seeds have been converted

							to bulk
Pulses							
Oilseeds							
Fibers							
		Spic	ces & Planta	tion crops	1	I	
Floriculture							
Fruits							
Vegetables							
	•	•	Others (sp	ecify)	•		•

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

Sl.	Name of the		Amou		
No.	Product	Qty	Cost of inputs	Gross income	Remarks

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

	Name	Details of production			Amou		
Sl. No		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	Remarks

### 13.E. Utilization of hostel facilities

Accommodation available (No. of beds): 18

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
October 2008	02	03	-
November 2008	00	00	-
December 2008	00	00	-
January 2009	00	00	-
February 2009	02	06	-
March 2009	01	02	-
April 2009	27	01	-
May 2009	82	03	-
June 2009	28	01	-
July 2009	00	00	-
August 2009	04	01	-
September 2009	09	01	-

### 13.F. Database management: Nil

S. No	Database target	Database created			

### 13.G. Details on Rain Water Harvesting structure and micro-irrigation system: Yet to be established

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

### 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	Canara Bank	Fisheries College Branch, Mangalore	100857 100918 (RF)	SB	100857 100918 (RF)		

### 14.B. Utilization of funds under FLD on Oilseed (Rs. in Lakh)

	Released by ICAR		Expenditure			
Item	Kharif 2008	Rabi 2008-09	Kharif 2008	Rabi 2008-09	Unspent balance as on 1 <sup>st</sup> April 2009	
Inputs		17500.00		11182.00	6318.00	
Extension activities		2500.00		2472.00	28.00	
TA/DA/POL etc.		2500.00		2423.00	77.00	
TOTAL		22500.00		16077.00	6423.00	

### 14.C. Utilization of funds under FLD on Pulses (Rs. in Lakh)

	Released	l by ICAR	Expenditure		Unspent balance
Item	Kharif 2008	Rabi 2008-09	Kharif 2008	Rabi 2008-09	as on 1 <sup>st</sup> April 2009
Inputs		52500.00		29940.00	22560.00
Extension activities		7500.00		1534.00	5966.00
TA/DA/POL etc.		7500.00		7348.00	152.00
TOTAL		67500.00		38822.00	28678.00

### 14.D. Utilization of funds under FLD on Cotton (Rs. in Lakh): Nil

## 14.E. Utilization of KVK funds during the year 2008-09 (Rs. in lakh)

S. No.	Particulars	Sanctioned	Released	Expenditure			
A. Rec	A. Recurring Contingencies						
1	Pay & Allowances	22.00	22.00	2048178.00			
2	Traveling allowances	1.00	1.00	98,334.00			
3	Contingencies						
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	2.20	2.20	2,19,884.00			
В	POL, repair of vehicles, tractor and equipments	1.30	1.30	1,30,000.00			
C	Meals/refreshment for trainees (ceiling up to Rs.40/day/trainee be maintained)	0.70	0.70	69,998.00			
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	0.50	0.50	49766.00			
Е	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	0.98	0.98	73,392.00			
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	0.32	0.32	25,751.00			
G	Training of extension functionaries	0.20	0.20	18184.00			
Н	Maintenance of buildings	V 1— V	V 1— V	101000			
I	Establishment of Soil, Plant & Water Testing Laboratory						
J	Library	0.10	0.10	5238.00			
k.	Farmers Field School	0.20	0.20	10087.00			
	TOTAL (A)	29.5	29.5	2748812.00			
B. Non	B. Non-Recurring Contingencies						
1	Works			-			
2	Equipments including SWTL & Furniture (Fax)	0.15	0.15	14406.00			
3	Vehicle (Four wheeler/Two wheeler, please specify)	0.50	0.50	50000.00			
4	Library (Purchase of assets like books & journals)			-			
TOTA		0.65	0.65	64406.00			
C. REVOLVING FUND							
GRAND TOTAL (A+B+C) 30.15 2813218.				2813218.00			

### Utilization of KVK funds during the year 2009-10 (up to August 2009) (Rs. in lakh)

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Rec	curring Contingencies			
1	Pay & Allowances	23.00	23.00	991750.00
2	Traveling allowances	1.00	1.00	54390.00
3	Contingencies			
A	Stationery, telephone, postage and other expenditure on			
	office running, publication of Newsletter and library			
	maintenance (Purchase of News Paper & Magazines)	1.50	1.50	112604.00
B	POL, repair of vehicles, tractor and equipments	1.20	1.20	87435.00
C	Meals/refreshment for trainees (ceiling up to			
	Rs.40/day/trainee be maintained)	1.00	1.00	37297.00
D	Training material (posters, charts, demonstration material			
	including chemicals etc. required for conducting the			
	training)	0.60	0.60	6783.00
E	Frontline demonstration except oilseeds and pulses	•		
	(minimum of 30 demonstration in a year)	2.30	2.30	141135.00
F	On farm testing (on need based, location specific and			
	newly generated information in the major production	0.20	0.20	4310.00

	systems of the area)				
G	Training of extension functionaries	0.10	0.10	-	
Н	Maintenance of buildings	-	-	-	
I	Establishment of Soil, Plant & Water Testing Laboratory	-	-	-	
J	Library	0.10	0.10	2375.00	
K.	Extension activities	0.25	0.25	-	
L.	Farmers Field School	0.25	0.25	5717.00	
	TOTAL (A)	31.50	31.50	1443796.00	
B. No	B. Non-Recurring Contingencies				
1	Works				
2	Works Equipments including SWTL & Furniture				
2 3					
1 2 3 4	Equipments including SWTL & Furniture				
-	Equipments including SWTL & Furniture  Vehicle (Four wheeler/Two wheeler, please specify)  Library (Purchase of assets like books & journals)				
4 TOTA	Equipments including SWTL & Furniture  Vehicle (Four wheeler/Two wheeler, please specify)  Library (Purchase of assets like books & journals)				

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

Year	Opening balance as on 1 <sup>st</sup> April	Income during the year	Expenditure during the year	Net balance in hand as on 1 <sup>st</sup> April of each year
April 2006 to	110560.00	70114.00	156261.00	24413.00
March 2007	110300.00	70114.00	130201.00	24413.00
April 2007				
to	24413.00	111451.00	116264.00	19600.00
March 2008				
April 2008				
to	19600.00	161627.00	175946.00	5281.00
March 2009				