PROFORMA FOR ANNUAL REPORT-2006-07

1. GENERAL INFORMATION ABOUT THE KVK

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

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

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

Address	Telephone		E- mail
	Office	FAX	
Vice Chancellor University of Agricultural Sciences, G.K.V.K. Campus, Bangalore-65.	080- 23332442	3330277	vcuasbangalore_2007@rediffmail.com
Director of Extension University of Agricultural Sciences, Hebbal Campus, Bangalore-24.	080- 23418883	080- 23516836	deuasb@yahoo.co.in

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

Name	Telephone / Contact		
	Residence	Mobile	E-mail
Dr. H. Hanumanthappa	0824-2458585	9449450768	drhh1954@rediffmail.com

1.4. Year of sanction : 2004

1.5. Staff Position (as on 30th September 2007)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic	Date of joining	Permanent /Temporary	Category (SC/ST/ OBC/ Others)
1	Programme Coordinator	Dr. H.Hanumanthappa	Programme Coordinator	Fisheries	12,000-18,300 (15780)	21-01-06	Permanent	SC
2	Subject Matter Specialist	Dr. Jayashree S.	Subject Matter Specialist	Home Science (F & N)	8,000-13,500 (9100)	02-03- 07	Permanent	OBC
3	Subject Matter Specialist	Dr. G. Nagesha	Subject Matter Specialist	Agril. Extension	8,000-13,500 (9100)	10-03- 07	Permanent	SC
4	Subject Matter Specialist	Dr. Rajesh K.M.	Subject Matter Specialist	Fisheries	8,000-13,500 (9100)	13-03-07	Permanent	General
5	Subject Matter Specialist	Dr. Parashuram Chandravanshi	Subject Matter Specialist	Soil Science	8,000-13,500 (9100)	16-03- 07	Permanent	SC
6	Subject Matter Specialist	Mr. Srinivas N.	Subject Matter Specialist	Horticulture	8,000-13,500 (8000)	05-04 07	Permanent	SC
7	Subject Matter Specialist	Mr. Veerendra Kumar K.V.	Subject Matter Specialist	Plant Pathology	11,500 + HRA	28-07-07	Contract basis	SC
8	Programme Assistant	-	Programme Assistant	-	-	-	Vacant	-
9	Computer Programmer	-	Computer Programmer	-	-	-	Vacant	-
10	Farm Manager	-	Farm Manager	-	-	-	Vacant	
11	Accountant / Superintendent	Mr. Ravichandra	Accountant / Superintendent	-	5,200-9580 (5450)	05-03- 05	Permanent	General
12	Stenographer	Mrs. Nalinakshi	Stenographer	-	3850.00	18-07-07	Contract basis	OBC
13	Driver	Mr. Shiva Prasad B.	Driver	-	2975.00	18-07-07	Contract basis	SC
14	Driver	--	Driver	-	-	-	Vacant	-
15	Supporting staff	Mr. A. Annu	Supporting staff		2500.00	18-07-07	Contract basis	SC
16	Supporting staff	Mr. Ashwith Kumar	Supporting staff		2500.00	18-07-07	Contract basis	OBC

1.6. Total land with KVK (in ha) : 22.00

S. No.	Item	Area (ha)
1	Under Buildings	2.0
2.	Under Demonstration Units	0.016
3.	Under Crops	19.984
4.	Orchard/Agro-forestry	-
5.	Others	-

1.7. Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR	-	-	-	21-6-2006	550	Power & water supply connection is not done
2.	Staff Quarters (6)	ICAR	-	-	-	21-6-2006	400	Power & water supply connection is not done
3.	Farmers Hostel	ICAR	-	-	-	12-10-2006	300	Power & water supply connection is not done
4.	Demonstration Units (2)	ICAR	20-02-2007	80	1.75 lakhs	-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Bolero DI Jeep	2004	5,00,000	66701	Good condition
M.F.Tractor 1035	2005	5,00,000	372.6 hrs	Good condition
Hero Honda (Bike)	2006	40,000	6618	Good condition

C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Sprayers	2005	2,640.00	Good
Drum Seeder & Conaweeder	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
AV aids			
Digital Camera	2006	20,000	Good

1.8. A). Details of SAC meeting conducted in the year

Date	Number of Participants	Salient Recommendations	Action taken
20-02-2007	23	• Suggested to conduct more Front Line Demonstration on maize cultivation. Organize more number of training programmes on Rubber cultivation in collaboration with Rubber board.	Front Line Demonstration on maize has been sanctioned and it will be implemented during Rabi- 2007.Conducted training programme on Rubber production technology
		• Suggested to plan and conduct farmers need based training programmes and avail the services of trained farmers as resource person while conducting training programmes. Advised to take up KVK activities in all the taluks coming under its jurisdiction and take up the impact studies on off campus trainings programmes conducted by KVK.	Conducted need based training programmes and trained farmers are being invited as a resource persons during training programmes KVK activities have been covered in all the five taluks of Dakshina kannada district and reviewed impact study of training programmes.
		• Before the preparation of Action Plan, Scientist of KVK should discuss with Developmental Departments regarding farmer's oriented problems and also include the valuable suggestions of SAC members.	Contacted Developmental Departments regarding farmers problems for including in action plan viz., FLDs , OFTs and training programmes and taken note of valuable suggestions given by SAC members while preparing Action Plan.
		• Suggested to organize training programmes on Medicinal and Aromatic plants cultivation and marketing arrangements.	Planned to conduct training programmes during Rabi/Summer season. **Enclosed**

2. DETAILS OF DISTRICT (2006-07)

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

CEREALS	**:**	Paddy and Maize
PULSES	**:**	Black gram, Green gram, Cowpea and Horse gram
OIL SEEDS	**:**	Seasamum
VEGETABLES	**:**	Brinjal, Bhendi, Vegetable cowpea, Basella, Amarphophilus, Sweet potato and cucumber
FRUITS	**:**	Banana, Pineapple, Jackfruit, Mango and Sapota
PLANTATION CROPS	**:**	Arecanut, Coconut, Cashew, Pepper, Rubber, Vanilla and cocoa
FLOWER CROPS	:	Jasmine
ANIMAL HUSBANDARY:		Fishery, Dairy, Goat, Piggery and Poultry

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

Agro-climatic Zone

Agro-climatic Zone	Characteristics
Coastal Zone, Zone 10	Krishi Vigyan Kendra, Dakshina Kannada, Kankanady, Mangalore is 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 land 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. The temperature varies from maximum of 34 ^{0} C during the months of May and April and lowest temperature of 21.5^{o} C is observed during the month of December.

Agro ecological situation

Agro ecological situation	Characteristics
	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. The temperature varies from maximum of 34 ^{0} C during the months of May and April and lowest temperature of 21.5^{o} C is observed during the month of December. The majority of soil in the district consisting 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 low soluble salt content. The major nutrient status of the soils is varying from medium to low. The major crops grown in the districts are paddy, Arecanut, Coconut, Cashew, Pepper and Banana. In some parts of the district pulses like Black gram, Green gram and vegetables are being grown during Rabi/ Summer season.

2.3 Soil types

Soil type	Characteristics	Area in ha
Coastal sands, alluvial, laterite and red loamy soil	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 major nutrient status of the soils is varying from medium to low.	1, 34,246

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

S. No.	Crop	Area (ha)	Production (Qtl)	Productivity (Qtl /ha)
1.	Paddy	61500	1590390	25.86
2.	Black gram	2048	11590	5.66
3.	Cowpea	416	2040	4.90
4.	Arecanut	27388	4237400	154.72
5.	Coconut	15773	1563 lakh nuts	10000 nuts/ha
6.	Pepper	1970	36000	18.27
7.	Cashew	30524	2441900	-
8.	Cocoa	875	344800	394.06
9.	Banana	3130	6062800	1937
10.	Jack Fruit	996	2589600	2600
11.	Vegetables	2983	3028800	1015.35
12.	Jasmine	61	1530	-

2.5. Weather data

Month	Rainfall (mm)	Temperature ^{0} C		Relative Humidity (%)
		Maximum	Minimum	
October	219.00	30.04	26.97	84.04
November	161.40	29.83	26.98	83.78
December	-	29.26	25.65	67.36
January	-	29.32	25.10	70.32
February	-	26.76	26.40	74.77
March	-	31.91	29.13	75.71
April	80.40	32.62	30.37	75.11
May	128.00	31.28	30.04	81.26
June	1236.60	27.39	27.32	90.32
July	654.20	26.94	25.34	91.64
August	766.00	28.28	26.23	90.88
September	722.40	29.06	25.27	90.18

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	-
Hens	-	-	-
Desi	-	-	-
Improved	-	-	-
Ducks	-	-	-
Turkey and others	-	-	-

Category	Area	Production (mt)	Productivity
Fish			
Marine	-	88972	-
Inland	-	1064.53	-
Prawn	-	9119	-

2.7 Details of Operational area / Villages (2006-07)

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	• Soil acidity • Imbalanced nutrient application • Non adoption of high yielding varieties	• Introduction of high yielding varieties • Organic farming • Integrated Nutrient Management Approaches • Soil reclamation
2.	Bantwal	-	Meramajalu	Paddy, Arecanut, Coconut, Pepper, Banana, Vegetables, Jasmine	• Imbalanced nutrient application • Soil acidity • Lack of knowledge on management of pest and diseases	• Integrated Nutrient Management Approaches • Soil reclamation • Integrated pest management approaches • Employment generation activities • Value addition
3.	Puttur	-	Panaje	Paddy, Arecanut, Coconut, Pepper, Banana, Vegetables, Jasmine, Cashew, Cocoa, Rubber, Vanilla	• Soil acidity • Imbalanced nutrient application • Non adoption of high yielding varieties • Untimely application of pesticides	• Soil reclamation • Introduction of high yielding varieties • Organic farming • Integrated Nutrient Management Approaches • Plant protection

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

2.8 Priority thrust areas

- ❋ Introduction of high yielding Varieties
- ❋ Integrated nutrient management approaches
- ❋ Soil reclamation
- ❋ Vermi composting
- ❋ Use of growth regulators
- ❋ Employment generation activities
- ❋ Water management
- ❋ Value addition to Agriculture and Horticulture produce
- ❋ Encouraging areca plate making units
- ❋ weed Management
- ❋ Plant Protection
- ❋ Organic farming
- ❋ Rice based cropping system
- ❋ Soil and water conservation

3. TECHNICAL ACHIEVEMENTS

3. A. Details of target and achievements of mandatory activities by KVK during 2006-07

OFT				FLD			
1				2			
Number of OFTs		Number of Farmers		Number of FLDs		Number of Farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
5	5	30	30	11	8	103	78

Training				Extension Activities			
3				4			
Number of Courses		Number of Participants		Number of activities		Number of participants	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
37	37	1620	1620	-	-	1157	1157

Seed Production (Qtl.)		Planting material (Nos.)	
5 (Paddy seed production)		6 (Cashew grafts)	
Target	Achievement	Target	Achievement
15	13.79	3500	3225

3. B. Abstract of interventions undertaken

Sl. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Integrated nutrient management	Arecanut	• Nut splitting and button shedding • Imbalanced nutrient supply	Integrated Nutrient Management	-	Integrated Nutrient Management in Arecanut	-	Field visits, Trainings, Demonstrations	-
2	Plant Protection	Arecanut	• Root grub • Inflorescence die back disease	Inflorescence die back disease management	Root grub management	Integrated pest management in Arecanut	-	Trainings, Field visits, Demonstrations	-
3	Integrated nutrient management	Coconut	• Poor nutrient management • Non use of micro nutrients	-	Integrated nutrient management	Integrated nutrient management in Coconut	-	Trainings, Field visits, Demonstrations	-
4	Integrated nutrient management	Cashew	• Poor nutrient and water management	Nutrient and water management in Cashew	-	Nutrient and water management in Cashew	-	Field visits, Trainings, Demonstrations	-
5	Pest management	Cashew	• Lack of knowledge on management of Tea mosquito	-	Tea mosquito management	Pest management in Cashew	-	Trainings, Field visits, training	-
6	Plant Protection	Pepper	• Quick wilt	-	Quick wilt management	Quick wilt management in Pepper	-	Field visits, Trainings, Method demonstrations	-
7	Integrated nutrient management	Banana	• Imbalanced and untimely application of nutrient	-	Integrated nutrient management in Banana	Nutrient management in Horticultural crops	-	Method demonstrations, field visits	-

8	Pest management	Bhendi	• Yellow vein mosaic disease	-	Pest management in Bhendi	Cultivation of vegetable crops	-	Trainings, method demonstrations, field visits	Seeds (Arka Anamika)
9	Integrated Nutrient management	Ashgourd	• Lack of nutrient management	Potash management in Ashgourd	-	Nutrient management in vegetables	-	Field visits, demonstrations	Seeds
10	Introduction of high yielding variety	Drum Stick	• Lack of awareness on high yielding variety	-	Introduction of high yielding variety of Drum Stick	Nutrient management in horticulture crops	-	Field visits, demonstrations	Seeds
11	Integrated Nutrient management	Jasmine	• Imbalanced Nutrient application	Integrated Nutrient management in jasmine	-	Cultivation of Jasmine	-	Trainings, Field visits, Method demonstrations	-
12	Introduction of high yielding variety	Amaranthus	• Lack of awareness on high yielding variety	-	Introduction of high yielding variety of Amaranthus	-	-	Field visits	Seeds (Arka Suguna)

3.1 Achievements on technologies assessed and refined

A.1 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	-	-	-	-	1	-	1	2	-	**4**
Integrated Disease Management	-	-	-	-		-	-	1	-	**1**
TOTAL	-	-	-	-	**1**	-	**1**	**3**	-	**5**

A.2. Abstract on the number of technologies refined in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Integrated Nutrient Management	-	-	-	-	1	-	1	2	-	**4**
Integrated Disease Management	-	-	-	-		-		1		**1**
TOTAL					**1**	**-**	**1**	**3**		**5**

A.3. Abstract on the number of technologies assessed in respect of livestock / enterprises: Nil

A.4. Abstract on the number of technologies refined in respect of livestock / enterprises: Nil

B. Details of each On Farm Trial to be furnished in the following format

I. Integrated Nutrient Management in Arecanut

Sl. No	Particulars	On Farm Trail
1	Title of on-farm trial	Integrated Nutrient Management in Arecanut
2.	Problem diagnose	Poor nutrient management result in low yield
3.	Details of technologies selected for assessment/refinement	Green manure- 20 kg/pl, Lime: 300 g/pl, $ZnSO_4$-20 g/pl, $MgSO_4$-200 g/pl, Borax: 25 g/pl, Neem cake- kg/pl, FYM: 20 kg/pl Compost enriched with (*Azospirillum* 20 gm + PSB 20 gm /pl) NPK: 50 % of N,75 % of P& 100% K of Recommended dose of fertilizer (75:45:210 gm /pl)
4.	Source of technology	K.V.K, Mangalore
5.	Production system and thematic area	Protective irrigation and poor nutrient management
6.	Performance of the Technology with performance indicators	4.2% increased in yield compared with recommended Nutrient supply.
7.	Final recommendation for micro level situation	Suitable for sustainable production of Arecanut by reducing inorganic fertilizers.
8.	Constraints identified and feedback for research	Leaching of nutrients, soil acidity and nutrient deficiencies. Use of slow releasing fertilizers, reclamation of soil acidity and standardization of organic manures for efficient utilization and sustainable production
9.	Process of farmers participation and their reaction	Farmers felt that yield in refined practice is better over traditional method and slightly lower than the improved method. But in long run refined practice may help to maintain the soil health and sustain the yield.

II. Integrated Nutrient Management in Jasmine

Sl. No	Particulars	On Farm Trail
1	Title of on-farm trial	Integrated Nutrient Management in Jasmine
2.	Problem diagnose	Poor nutrient management, low yield
3.	Details of technologies selected for assessment/refinement	Neem cake - 0.5 kg/pl, Lime- 0.5 kg/pl., Enriched Bio compost 20 kg (20g. *Azospirillum* + 20g. PSB/pl),50 % N through groundnut cake, 50%N, 75% of P&, 100% K of Recommended Dose of Fertilizer
4.	Source of technology	U.A.S.,Bangalore
5.	Production system and thematic area	Rain fed with protective irrigation
6.	Performance of the Technology with performance indicators	Increase in the yield with less wilt disease incidence
7.	Final recommendation for micro level situation	Technology suitable for small holding farmers
8.	Constraints identified and feedback for research	Leaching loss of nutrients , pest and disease incidence and Market fluctuation
9.	Process of farmers participation and their reaction	Farmers convinced that yield in refined practice performed better over traditional method and slightly lower than the improved method. But in long run refined practice helps to maintain the soil health and sustain the yield. They have adopted it and agreed to disseminate the neighbouring farmers.

III. Potash Management in Ash gourd

Sl. No	Particulars	On Farm Trail
1	Title of on-farm trial	Potash Management in Ash gourd
2.	Problem diagnose	Poor Potash availability
3.	Details of technologies selected for assessment/refinement	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, poor potash availability
6.	Performance of the Technology with performance indicators	21.26 % increase in the yield over technology assessment
7.	Final recommendation for micro level situation	Application of 70 kg /ha potash will increase the yield
8.	Constraints identified and feedback for research	Poor potash availability in the soil, soil acidity and poor nutrient management Integrated Nutrient Management practices in cultivation of such crops indicates better keeping quality and sustainable production
9.	Process of farmers participation and their reaction	Farmers have actively participated in implementation and evaluation of the technology. They convinced that application of potash as a nutrient source along with the recommended dose of fertilizers resulted higher yield and better keeping quality. Farmers agreed to adopt and disseminate the same technology to neighbouring farmers.

IV. Nutrient and water Management in Cashew

Sl. No	Particulars	On Farm Trail
1	Title of on-farm trial	Nutrient And Water Management in Cashew
2.	Problem diagnose	Poor nutrient and water management, low yield
3.	Details of technologies selected for assessment/refinement	Recommended dose of fertilizer 500:250:250 NPK gm/plant/year + 50 litres water/plant/15days at flowering stage + 3% Urea spray at November, December and January
4.	Source of technology	A.R.S, Ullal
5.	Production system and thematic area	Rain fed, Poor nutrient and water management and soil acidity
6.	Performance of the Technology with performance indicators	15 % increase in the yield over other treatment
7.	Final recommendation for micro level situation	Spraying 3% Urea with irrigation at the time of flowering stage played vital role in increasing flower production, fruit set, nut yield and quality.
8.	Constraints identified and feedback for research	Poor nutrient and water management, soil acidity and pest and disease incidence
9.	Process of farmers participation and their reaction	Active participation of farmers in implementation and evaluation of OFT was observed and they have adopted and accepted the technology and agreed to practice the same and disseminate to the neighbouring farmers.

V. White fly management in Jasmine

Sl. No	Particulars	On Farm Trail
1	Title of on-farm trial	White fly management in Jasmine
2.	Problem diagnose	White fly incidence
3.	Details of technologies selected for assessment/refinement	Spraying of Imidacloprid 0.3ml/ltr and Neem oil 30 ml/ltr at 20 days interval during the pest incidence.
4.	Source of technology	U.A.S Bangalore
5.	Production system and thematic area	Protective irrigation , pest incidence during summer
6.	Performance of the Technology with performance indicators	Timely application of chemicals will reduces the pest incidences and increases the flower yield
7.	Final recommendation for micro level situation	Spraying of Imidacloprid 0.3ml/ltr and Neem oil 30 ml/ltr at 20 days interval
8.	Constraints identified and feedback for research	Less acceptance by the farmers
9.	Process of farmers participation and their reaction	Farmers participated actively in implementation and evaluation of the OFT. They have adopted and accepted the technology and agreed to disseminate to the neighbouring farmers.

C. Results of On Farm Trials

1. Integrated Nutrient Management in Arecanut

Crop/ enterprise	Farming situation	Problem Diagnosed	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
Arecanut	RF + Protective irrigation	Poor nutrient management	Integrated Nutrient Management in Arecanut	05	Integrated Nutrient management	Kg/pl.	3.07 kg/pl 3.20 kg/pl	3.07 kg/pl 3.20 kg/pl	Reduction in the nut drop and nut splitting	-	-

Technology Assessed / Refined		Production per unit (t/ha)	Net Return (Profit) in Rs. / unit	BC Ratio
13		14	15	16
Farmer's practice	FYM:15-20 kg/pl, Green manure; 10kg/pl, Complex fertilizer @ 150 to 200 gm/pl.	3.0	166931.00	1:4.87
Technology assessed	Green manure: 20kg/pl, Compost: 20 kg/pl, NPK: 150:60:210 gm /pl, $ZnSO_4$: 20 g/pl, $MgSO_4$: 200 g/pl, Lime: 300 g/pl, Borax: 25 g/pl	4.2	248323.00	1:6.38
Technology refined	Green manure-20 kg/pl, Lime: 300 g/pl, $ZnSO_4$- 20 g/pl, $MgSO_4$: 200 g/pl, Borax: 25g/pl, Neem cake: 1 kg/pl, FYM-20 kg/pl, Compost enriched with (*Azospirillum* 20 gm + PSB 20 gm /pl),NPK: 50 % of N,75 % of P& 100% K of Recommended dose of fertilizer (75:45:210 gm /pl)	4.38	259080.00	1:6.40

2. Integrated Nutrient Management in Jasmine

Crop/ enterprise	Farming situation	Problem Diagnosed	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
Jasmine	RF+Protective irrigation	Poor nutrient management	Integrated Nutrient Management in Jasmine	05	Integrated Nutrient management	Kg/pl.	2.73 kg/pl 2.79 kg/pl	2.73 kg/pl 2.79 kg/pl	Increase in the yield and soil health	-	-

Technology Assessed / Refined		Production per unit (kg/ha)	Net Return (Profit) in Rs. / unit	BC Ratio
13		14	15	16
Farmer's practice	FYM : 10 kg, Groundnut cake :150 gm/pl, Burnt soil:1 kg, No phosphorus and potash application, Neem cake: 0.5kg /pl	1.80	319598.00	1:4.32
Technology assessed	Organic manure: 20 kg /pl, Fertilizer 120:240:240 gm NPK/pl	2.73	519824.00	1:5.7
Technology refined	Neem cake: 0.5 kg/pl, Lime: 0.5 kg/pl, Enriched Bio compost 20 kg (20g. *Azospirillum* + 20g. PSB/pl), 50 % N through groundnut cake, 50%N, 75% of P& 100% K of Recommended Dose of Fertilizer	2.79	532377.00	1:5.76

3. Potash Management in Ash gourd

Crop/ enterprise	Farming situation	Problem Diagnosed	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
Ash gourd	Protective irrigation	Poor Potash management	Potash Management in Ash gourd	05	Potash management	Yield t/ha	23.8 t/ha 28.86 t/ha	23.8 t/ha 28.86 t/ha	Increase in the yield and better keeping quality	-	-

Technology Assessed / Refined		Production per unit (t/ha)	Net Return (Profit) in Rs. / unit	BC Ratio
13		14	15	16
Farmer's practice	FYM : 5 t/ha	17.3	22230.00	1:2.79
Technology assessed	FYM : 12.5 t/ha, 50:50:0 kg NPK/ha	23.8	34040.00	1:3.51
Technology refined	FYM : 12.5 t/ha, 50:50:70 kg NPK/ha	28.86	43608.00	1:4.09

4. Nutrient and water management in Cashew

Crop/ enterprise	Farming situation	Problem Diagnosed	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
Cashew	Rain fed	Poor nutrient and water management	Nutrient and water management in Cashew	05	Nutrient and water management	Yield kg/pl	10 kg/pl 11.5 kg/pl	10 kg/pl 11.5 kg/pl	Irrigation and 3% spray of Urea at the time of flowering Increase the flowering fruit set and nut yield	-	-

Technology Assessed / Refined		Production per unit (kg/pl)	Net Return (Profit) in Rs. / unit	BC Ratio
13		14	15	16
Farmer's practice	Application of 250gm. of complex fertilizer per plant per year	2.78	7580.00	1:1.48
Technology assessed	Recommended dose of fertilizer 500:250:250 NPK gm/plant/year	10.0	42450.00	1:4.75
Technology refined	Recommended dose of fertilizer 500:250:250 NPK gm/plant/year + 50 litres water/plant/15days at flowering stage + 3% Urea spray at November, December and January	11.5	50940.00	1:5.20

5. White Fly Management in Jasmine

Crop/ enterprise	Farming situation	Problem Diagnosed	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
Jasmine	Protective irrigation	In discriminate and untimely applications of insecticide due to this White fly incidence increases. Hence reduce the plant vigour and yield	White Fly Management in Jasmine	10	Spraying of Imidacloprid 0.3ml/ltr and Neem oil 30ml/ltr at 20 days interval during the pest incidence.	Yield t/ha	3.82 t/ha 4.32 t/ha	Application of these chemicals increases the plant vigour, yield and reduces the whitefly incidence	Timely application of chemicals will reduces the pest incidences and increases the yield	-	-

Technology Assessed / Refined		Production per unit (t/ha)	Net Return (Profit) in Rs. / unit	BC Ratio
13		14	15	16
Farmer's practice	Monocrotophos-1ml or 2ml/ltr. Some times mixing of 2-3chemicals at a time and sprayed at severe infestation	2.57	250150.00	1:3.7
Technology assessed	Melathian 50 EC @ 2ml+Wettable Sulphar @ 3 gm/ltr. Spray at pest occurrence	3.82	399760.00	1:4.7
Technology refined	Imidacloprid 0.3ml/ltr. Neem oil @ 30ml/ltr. Spray alternatively at 20 days interval during the pest incidence	4.32	462170.00	1:5.1

3.2 Achievements of Frontline Demonstrations

a. Follow-up for results of FLDs implemented during previous years

List of technologies demonstrated during previous year and popularized during 2006-07 recommended for large scale adoption in the district

S. No	Thematic Area	Technology demonstrated	Details of popularization methods suggested to the Extension system	Horizontal spread of technology		
				No. of villages	No. of farmers	Area in ha
1.	Integrated Nutrient Management	**Integrated Nutrient Management in Coconut** • Introduction of Recommended dose of fertilizer - 500:320:1200 g NPK / pl/ Yr, • Lime-4 Kg / plant • Boron-50 g / pl, $MgSO_4$-500 g / pl • Neem cake- 2.5 Kg /pl / yr	• Training • Group discussion • Method demonstration • Field visits	10	25	06
2.	Integrated Nutrient Management	**Integrated Nutrient Management in Banana** Use of Banana special	• Training • Method demonstration • Field visits	20	35	08
3.	Introduction of High Yielding variety	**Introduction of Hybrid Amaranthus** Variety –Arka suguna	• Training • Group discussion • Field visits	06	18	2.0
4.	Introduction of High Yielding variety	**Introduction of High yielding variety of Drumstick** Variety : PKM-1 Seed rate-250 g / ha	• Training • Group discussion • Field visits	06	10	1.5

5.	Plant Protection	**Root grub management in Areca nut** • Application of Phorate @ 25 gm/pl.during June-July. Drenching of Chlorpyriphos 5ml/ltr during Sept.- Oct	• Training • Group discussion • Method demonstration • Field visits	15	35	10
6.	Disease management	**Quick wilt management in Pepper** • Sanitation • Soil application of 50 gm Trichoderma + 5 kg. FYM. • Drenching and spraying with 1% Bordeaux mixture • Spray and drenching with Hexaconozole 2ml/litre (3-4 lit /Plant)	• Training • Group discussion • Method demonstration • Field visits	12	23	03
7.	Pest management	**Pest management in Bhendi** (yellow vein mosaic) Popularization of resistant variety (*Arka anamika*)	• Training • Group discussion • Method demonstration • Field visits	09	17	2.0
8.	Pest management	**Tea mosquito management in Cashew** • Monocrotophos 36 SL @ 1.5 ml/ lit will be spray at October-November • Quinalphos 25 EC@ 2ml /lit will be sprayed during December –January • spraying of Carbaryl 50 WP @ 2 gm/lit during February	• Training • Group discussion • Method demonstration • Field visits	07	16	06
9.	Vaccination and Deworming	**Deworming in Dairy Cattle** Use of Anti-helmintic –200 dose	• Method demonstration • Field visits	14	32	-
10.	Popularization of Giriraja bird	**Rearing of backyard poultry** Use of supplementary feed.	• Group discussion • Method demonstration	05	12	-

b. Details of FLDs implemented during 2006-07

a. Horticulture Crops:

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1.	Coconut	Integrated Nutrient Management	Integrated Nutrient Management in Coconut	Kharif-06	0.4	0.4	03	06	09	-
2.	Banana	Integrated Nutrient Management	Integrated Nutrient Management in Banana	April -2007	0.4	0.4	05	05	10	-
3.	Amaranthus	Introduction of High Yielding variety	Introduction of Hybrid Amaranthus	April-2007	1.0	1.0	07	03	10	-
4.	Drumstick	Introduction of High Yielding variety	Introduction of High yielding variety of Drumstick	April-2007	1.0	1.0	01	03	04	-
5.	Arecanut	Plant Protection	Root grub management in Areca nut	Kharif-2006	0.8	0.8	03	07	10	-
6.	Pepper	Disease management	Quick wilt management in Pepper	Kharif-2006	0.4	0.4	04	06	10	-
7.	Bhendi	Pest management	Pest management in Bhendi	Rabi-2006	1.0	1.0	02	08	10	-
8.	Cashew	Pest management	Tea mosquito management in Cashew	Rabi-2006	2.0	2.0	01	04	05	-
9.	Ginger	Integrated Nutrient Management	Integrated Nutrient Management in Ginger	Not implemented	1.0	1.0	-	-	-	Season escaped Because of late approval of FLD

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Coconut	Kharif-06	RF	Laterite	Medium	Low	Low	-	-	15-7-2007	3067.4	114
Banana	April - 2007	RF	Laterite	Medium	Low	Low	Bhendi	16-10-06	27-09-07	3335	119
Amaranths	April-2007	RF	Laterite	Medium	Low	Low	Brinjal	24-05-07	20-8-07	2454	76
Drumstick	April-2007	RF	Laterite	Medium	Low	Low	Pineapple	13-5-07	Crop is at flowering stage	-	-
Arecanut	Kharif-2006	RF	Laterite	Medium	Low	Low	-	-	14-11-06	2859	103
Pepper	Kharif-2006	RF	Laterite	Medium	Low	Low	-	-	7-2-07	2859	103
Bhendi	Rabi-2006	RF+ Protective irrigation	Laterite	Medium	Low	Low	Vegetable cowpea	23-9-06	12-1-07	492.1	25
Cashew	Rabi-2006	RF	Laterite	Medium	Low	Low	-	-	12-4-07	896.7	40

Performance of FLD

Sl. No.	Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Qtl/ha			Yield of local Check Qtl./ha	Increase in yield (%)	Data on parameter in relation to technology demonstrated	
						H	L	A			Demo	Local
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Coconut	Integrated Nutrient Management in Coconut	West Coast Tall	09	0.4	97 nuts/pl.	91 nuts/pl.	95 nuts/pl.	57.6 nuts/pl.	62	-	-
2.	Banana	Integrated Nutrient Management in Banana	Robusta (Tissue culture)	10	0.4	480.0	280.0	394.0	293.4	34.28	-	-
3.	Amaranthus	Introduction of hybrid Amaranthus	Arka suguna	10	1.0	350.0	220.0	241.0	-	-	-	-
4.	Drumstick	Introduction of high yielding variety of Drumstick	PKM-1	04	1.0	-	-	-	-	-	Crop is at flowering stage	
5.	Arecanut	Root grub management in Arecanut	Mangala	10	0.8	8.25	7.15	8.25	5.63	46.53	-	-
6.	Pepper	Quick wilt management in Pepper	Karimunda	10	0.4	9.28	4.48	6.88	3.84	79.16	23% infestation	76% infestation
7.	Cashew	Tea mosquito management in Cashew	Ullal-1	5	2.0	14.87	8.31	11.06	6.96	58.79	-	-
8.	Bhendi	Pest management in Bhendi (yellow vein mosaic)	Arka Anamika	10	1.0	117.4	103.8	110.7	92.7	16.86	46.24% infestation	74.94% infestation

Economic Impact (continuation of previous table)

Average Cost of cultivation (Rs./ha)		Average Gross Return (Rs./ha)		Average Net Return (Profit) (Rs./ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)
Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check	
14	15	16	17	18	19	20
15580	13500	56240	34099	40660	20599	1:3.60
51500	49300	157600	117360	106100	68060	1:3.06
12500	-	72300	-	59800	-	1:5.70
-	Drumstick at flowering stage					-
29181	26721	57750	39410	28569	12689	1:1.97
28360	25324	88064	49152	59704	23828	1:3.10
12450	10935	33180	20880	20730	9945	1:2.60
13212	12890	22140	18540	8928	5650	1:1.67

b. Pulses

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1.	Black gram	Utilization of residual moisture	Black gram production technology	Summer 2007	5 .0	5.0	0	10	10	-

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Black gram	Summer 2007	Rainfall with protective irrigation	Sandy - loam	Medium	low	low	Paddy	14-02-2007	02-05-07	168.8	06

Performance of FLD

Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Qtl/ha			Yield of local Check Qtl./ha	Increase in yield (%)	Data on parameter in relation to technology demonstrated	
					H	L	A			Demo	Local
2	3	4	5	6	7	8	9	10	11	12	13
Black gram	Black gram production technology	TAU-1	10	5.0	5.5	4.4	5.02	3.81	31.75	32 pods/plant	20 pods/plant

Economic Impact (continuation of previous table)

Average Cost of cultivation (Rs./ha)		Average Gross Return (Rs./ha)		Average Net Return (Profit) (Rs./ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)
Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check	
14	15	16	17	18	19	20
2301	1841	6526	4953	4225	3112	1:2.83

Analytical Review of component demonstrations

Crop	Season	Component	Farming situation	Average yield (q/ha)	Local check (q/ha)	Percentage increase in productivity over local check
FLd's 2006-07						
Seed/Variety						
Amaranthus	Kharif-2007	Introduction of hybrid Amaranthus	Rainfed	241.0	-	-
Drumstick	April-2007	Introduction of high yielding variety (PKM-1)	Protective irrigation	Crop is at flowering stage		
Fertilizer management						
Banana	April -2007	Integrated Nutrient Management	Rainfed + Protective irrigation	394.0	293.4	34.28
Plant Protection						
Arecanut	Kharif-2006	Root grub management	Rainfed + Protective irrigation	8.25	5.63	46.53
Pepper	Kharif-2006	Quick wilt management	Protective irrigation	6.88	3.84	79.16
Cashew	Rabi-2006	Tea mosquito management	Rainfed	11.06	6.96	58.79
Bhendi	Kharif- 2006	Pest management (yellow vein mosaic)	Rainfed + Protective irrigation	110.7	92.7	16.86
Combination of components						
Coconut	Kharif-2006	Integrated Nutrient Management	Protective irrigation	95 nuts/pl.	57.6 nuts/pl.	62

Technical Feedback on the demonstrated technologies

Amaranthus:

- Popularization of high yielding variety Arka suguna which rich in minerals and vitamin A and C resulted in higher yield (241.0 q/ha).
- It is resistant to white rust disease which is highly prevalent in coastal zone.

Coconut:

- Combination of components like lime and nutrients management has increased the soil pH. This resulted in higher yields (62%) by better nutrient up take.
- Application of neem cake considerably reduced mite infestation

Banana:

- Tissue culture Banana plants (Robusta) have responded very well to five foliar and bunch spray of banana special at monthly interval (5 months after planting). This resulted in increasing fruits size and number of fingers to an extent of 34.28% yield when compared to farmers practice. Uniform fruits size and fruit ripening was also observed.

Pepper:

- Application of 50gm Trichoderma with 4-5kg of compost per vine during May, spraying and drenching with 1% Bordeaux mixture during July followed by drenching with Hexaconazole 1ml/ltr during August reduced quick wilt incidence. Recorded 79.16% more yield as compared to farmers practice.

Arecanut:

- Application of Phorate 25gm/pl. during May-June and drenching of Chlorpyriphos 5ml/ltr. (2ltr/pl.) during September reduced root grub incidence and recorded 46.53% higher yield compared to farmers practice.

Bhendi:

- Popularization of yellow vine mosaic disease resistant variety Arka Anamika reduced the disease incidence.
- Increased about 16.86% more yield compared to local variety.

Farmers' reactions on specific technologies

Frontline Demonstrations:

Arecanut

- Accepted the integrated nutrient management through organic and inorganic fertilizers which has helped to increase the productivity and fertility of the soil in long run.
- Farmers appreciated the technology management on the Arecanut root grub with integrated approaches.

Amaranthus

- This green leafy vegetable with disease resistance characters are very much liked by farmers of the coastal zone, as this vegetable is rich source of iron and vitamin A and C.

Banana

- Farmers have accepted foliar application of nutrients because this technology helps in effective utilization of nutrients with minimum nutrient loss when compare to soil application. Apart from this, it has also improved the yield by producing uniform and large size fruit.

Pepper

- The technology used in managing pepper quick wilt is very much appreciated by farmers and wish to disseminate the technology to the fellow farmers.
- Use of Eco friendly management of soil borne pathogens were highly appreciated by farmers.

Bhendi

- Yellow vein mosaic disease is very serious problem of our region. The introduction of this variety will help to overcome this disease problem.

On Farm Test

Integrated Nutrient Management in Jasmine

- Integrated Nutrient Management helped to sustain the yield and soil health
- It improved the quality and shelf life of the flower.

Potash Management in Ash gourd

- Application of potash as a nutrient along with the recommended dose of fertilizers resulted in higher yield and better keeping quality of the ash gourd.

Nutrient and Water management in Cashew

- Application of recommended dose of fertilizer resulted in higher yields.
- Spraying 3% Urea with irrigation at the time of flowering stage played vital role in increasing flower, fruit set and nut yield.

Extension and Training activities under FLD

Sl. No.	Activity	No. of activities organised	Date	Number of participants	Remarks
1	Farmers Training	02	25-5-07	78	
			13-07-07	36	
2	Media coverage	01	November - 2006	-	-

C. Details of FLD on Enterprises

(i) Farm Implements: Nil

(ii) Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Performance parameters / indicators	Data on parameter in relation to technology demonstrated		% change in the parameter	Remarks
					Demon.	Local check		
Poultry	Giriraja	05	05	Growth , egg production	4.5 kg	1.25 kg	3.5	-

(iii) Other Enterprises: Nil

3.3 **Achievements on Training (Including the sponsored and FLD training programmes):**

A) ON Campus

Thematic Area	No. of Courses	No. of Participants						
		Others			SC/ST			Grand Total
		Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women								
II Horticulture								
c) Ornamental Plants								
Propagation techniques of Ornamental Plants	01	13	08	**21**	01	00	**01**	**22**
IV Livestock Production and Management								
Dairy Management	01	30	14	**44**	06	00	**06**	**50**
V Home Science/Women empowerment								
Value addition	01	15	44	**59**	01	00	**01**	**60**
VIII Fisheries								
Breeding and culture of ornamental fishes	01	20	05	**25**	02	00	**02**	**27**
XII Others (Pl. Specify)								
Farmers and Scientists discussion meeting	01	13	00	**13**	03	00	**03**	**16**
TOTAL	**05**	**91**	**71**	**162**	**13**	**00**	**13**	**175**

B) OFF Campus

Thematic Area	No. of Courses	No. of Participants						
		Others			SC/ST			Grand Total
		Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women								
I Crop Production								
Nursery management	1	44	17	**61**	9	02	**11**	**72**
Integrated Crop Management	3	52	43	**95**	16	02	**18**	**113**
Production of organic inputs	1	0	53	53	0	8	8	61
II Horticulture								
a) Vegetable Crops								
Production of low volume and high value crops	2	77	30	107	04	04	08	**115**
c) Ornamental Plants								
Export potential of ornamental plants	3	21	79	100	02	04	06	106
d) Plantation crops								
Production and Management technology	7	194	75	**269**	38	8	**46**	**315**
h) Others								
Integrated farming system	1	17	17	**34**	02	00	**02**	**36**
Fertilizer management in horticulture crops	1	24	05	**29**	06	00	**06**	**35**
V Home Science/Women empowerment								
Value addition	1	09	35	**44**	04	02	**06**	**50**
Others								
Bore well recharging	5	144	115	**259**	26	12	**38**	297
VII Plant Protection								
Integrated Disease Management	3	73	20	**93**	10	02	**12**	**105**
VIII Fisheries								
Integrated fish farming	1	19	06	25	05	00	05	30
IX Production of Inputs at site								
Bio-pesticides production	1	07	38	**45**	00	02	**02**	**47**
Vermi-compost production	1	10	13	23	00	02	02	25
XII Others (Pl. Specify)								
Contract farming	1	22	10	**32**	4	0	**4**	**36**
TOTAL	**32**	**713**	**556**	**1269**	**126**	**48**	**174**	**1443**

C) Consolidated table (ON and OFF Campus)

Thematic Area	No. of Courses	No. of Participants						
		Others			SC/ST			Grand Total
		Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women								
I Crop Production								
Nursery management	1	44	17	**61**	9	02	**11**	**72**
Integrated Crop Management	3	52	43	**95**	16	02	**18**	**113**
Production of organic inputs	1	00	53	**53**	00	08	**08**	**61**

II Horticulture								
a) Vegetable Crops								
Production of low volume and high value crops	2	77	30	**107**	04	04	**08**	**115**
c) Ornamental Plants								
Export potential of ornamental plants	3	21	79	**100**	02	04	**06**	**106**
Propagation techniques of Ornamental Plants	1	13	08	**21**	01	00	**01**	**22**
d) Plantation crops								
Production and Management technology	7	194	75	**269**	38	08	**46**	**315**
Others								
Integrated farming system	1	17	17	**34**	02	00	**02**	**36**
Fertilizer management in horticulture crops	1	24	05	**29**	06	00	**06**	**35**
IV Livestock Production and Management								
Dairy Management	1	30	14	**44**	06	00	**06**	**50**
V Home Science/Women empowerment								
Value addition	2	24	79	**103**	05	02	**07**	**110**
Others								
Bore well recharging	5	144	115	**259**	26	12	**38**	**297**
VII Plant Protection								
Integrated Disease Management	3	73	20	**93**	10	02	**12**	**105**
VIII Fisheries								
Integrated fish farming	1	19	06	**25**	05	00	**05**	**30**
Breeding and culture of ornamental fishes	1	20	05	**25**	02	00	**02**	**27**
IX Production of Inputs at site								
Bio-pesticides production	1	07	38	**45**	00	02	**02**	**47**
Vermi-compost production	1	10	13	**23**	00	02	**02**	**25**
XII Others (Pl. Specify)								
Contract farming	1	22	10	**32**	04	00	**04**	**36**
Farmers Scientists interaction	1	13	00	**13**	03	00	**03**	**16**
TOTAL	**37**	**804**	**627**	**1431**	**139**	**48**	**187**	**1618**

Date	Clientele	Title of the training programme	Duration in days	Venue (Off / On Campus)	Number of participants			Number of SC/ST		
					Male	Female	Total	Male	Female	Total
16-10-06	Practicing Farmers	Dairy Products Preparation Demonstration	1	On campus	16	44	60	01	00	01
11-11-06 to 13-11-06	Practicing Farmers	Dairy Technology	3	On campus	36	14	50	06	00	06
17-02-07	Practicing Farmers	Farmers Scientists interaction	1	On campus	16	00	16	03	00	03
7-5-2007 to 9-5-2007	Practicing Farmers	Propagation techniques of Horticulture crops	3	On campus	14	08	22	01	00	01
15-05-07 to 17-05-07	Practicing Farmers	Aquarium fabrication and maintenance	3	On campus	22	05	27	02	00	02
7-11-06	Practicing Farmers	Vermi composting	1	Off campus	00	61	61	00	08	08
4-01-07	Practicing Farmers	Cultivation practices of horticulture crops	1	Off campus	32	18	50	09	04	13
29-1-07	Practicing Farmers	Contract farming	1	Off campus	26	10	36	04	00	04
10-02-07	Practicing Farmers	Preparation of Bio pesticides and its use	1	Off campus	07	40	47	00	02	02
23-2-07	Practicing Farmers	Processing of Agriculture crops	1	Off campus	13	37	50	04	02	06
24-4-07	Practicing Farmers	Integrated Horticulture cropping systems	1	Off campus	19	17	36	02	00	02
22-5-07	Practicing Farmers	Nutrient management in Horticulture crops	1	Off campus	30	05	35	06	00	06
23-5-07	Practicing Farmers	Different methods of paddy nursery preparation	1	Off campus	53	19	72	11	02	13
25-5-07	Practicing Farmers	Cultivation of vegetable crops	1	Off campus	53	25	78	12	04	16
5-6-07	Practicing Farmers	Cultivation of Agriculture crops	1	Off campus	43	06	49	00	00	00
8-6-07	Practicing	Bordeaux mixture preparation demonstration	1	Off campus	26	10	36	04	00	04

	Farmers									
13-6-07	Practicing Farmers	Integrated fish farming	1	Off campus	24	06	30	05	00	05
29-06-07	Practicing Farmers	Cashew Cultivation	1	Off campus	35	08	43	05	00	05
30-06-07	Practicing Farmers	Cashew Cultivation	1	Off campus	11	20	31	02	00	02
5-07-07	Practicing Farmers	Cashew Cultivation	1	Off campus	29	18	47	05	02	07
13-07-07	Practicing Farmers	Integrated nutrient management in Coconut	1	Off campus	33	03	36	07	00	07
13-07-07	Practicing Farmers	Bordeaux mixture preparation demonstration	1	Off campus	35	00	35	04	00	04
14-07-07	Practicing Farmers	Integrated paddy cultivation	1	Off campus	35	11	46	11	00	11
20-07-07	Practicing Farmers	Cultivation of vegetable crops	1	Off campus	28	09	37	02	00	02
27-07-07	Practicing Farmers	Jasmine cultivation	1	Off campus	14	31	45	02	00	02
31-07-07	Practicing Farmers	Paddy cultivation	1	Off campus	29	10	39	04	00	04
31-07-07	Practicing Farmers	Jasmine cultivation	1	Off campus	00	29	29	00	02	02
28-08-07	Practicing Farmers	Integrated Nutrient management in Paddy	1	Off campus	24	04	28	02	01	03
30-08-07	Practicing Farmers	Integrated Nutrient management in coconut	1	Off campus	29	30	59	02	10	12
6-09-07	Practicing Farmers	Bore well recharging	1	Off campus	41	52	93	14	06	20
12-09-07	Practicing Farmers	Bore well recharging	1	Off campus	26	24	50	04	04	08
12-09-07	Practicing Farmers	Bore well recharging	1	Off campus	42	05	47	02	00	02
14-09-07	Practicing Farmers	Bore well recharging	1	Off campus	45	09	54	03	01	04
18-09-07	Practicing	Vermi Compost and Azolla Cultivation	1	Off campus	10	15	25	00	02	02

	Farmers									
21-09-07	Practicing Farmers	Bore well recharging	1	Off campus	16	37	53	03	01	04
27-09-07	Practicing Farmers	Jasmine Cultivation	1	Off campus	09	23	32	00	02	02
27-09-07	Practicing Farmers	Management Kole roga in Arecanut	1	Off campus	22	12	34	02	02	04
			37		**943**	**675**	**1618**	**144**	55	199

(D) **Vocational training programmes for Rural Youth**: Nil

(E) Sponsored Training Programmes

Title	**Thematic area**	**Month**	**Duration (days)**	**Client**	**No. of courses**	**No. of Participants**							**Sponsoring Agency**
						Male		**Female**		**Total**			
				PF/RY/EF		**Others**	**SC/ST**	**Others**	**SC/ST**	**Others**	**SC/ST**	**Total**	
Training programme on sustainable agriculture	Crop production	October	1	PF	1	18	02	10	0	28	02	30	Disha Trust
Product Preparation of Fruits & Vegetables	Home Science	October	1	PF	1	02	0	38	03	40	03	43	CODP
Product Preparation of Fruits & Vegetables	Home Science	November	1	PF	1	16	00	58	08	74	08	82	Dept. of Agri.
Safe use of pesticides	Plant Protection	November	1	PF	1	41	2	21	00	62	02	64	Dept. of Agri.
Jasmine and Vegetable Cultivation	Horticulture	November	1	PF	1	00	00	14	04	14	04	18	Dept. of Agri.
Jasmine and Vegetable Cultivation	Horticulture	November	1	PF	1	01	00	17	02	18	02	20	Dept. of Agri.

Product Preparation of Fruits & Vegetables	Home Science	December	1	PF	1	30	06	09	02	39	08	47	Dept. of Agri.
Product Preparation of Fruits & Vegetables	Home Science	December	1	PF	1	00	00	22	04	22	04	26	CDPO
Jasmine Cultivation	Horticulture	December	1	PF	1	00	00	18	02	18	02	20	Dept. of Hort.
Product Preparation of Fruits & Vegetables	Home Science	December	1	PF	1	00	00	23	03	23	03	26	Dept. of Agri.
Product Preparation of Fruits & Vegetables	Home Science	December	1	PF	1	00	00	19	02	19	02	21	Dept. of Agri.
Jasmine and Flower crops cultivation	Horticulture	December	1	PF	1	00	00	27	04	27	04	31	Dept. of Agri.
Safe use of pesticide in agriculture	Plant Protection	December	1	PF	1	10	00	29	03	39	03	42	Dept. of Agri.
Integrated Pest Management	Plant Protection	December	1	PF	1	21	01	22	02	43	03	46	Dept. of Agri.
Cultivation of Agriculture and Horticulture crops	Crop production	January	1	PF	1	22	05	04	00	26	05	31	Dept. of Agri.
Marketing & processing of Agriculture Products	Horticulture	January	1	PF	1	16	02	13	00	29	02	31	Dept. of Agri.
Processing of Fruits	Home Science	January	1	PF	1	00	00	14	02	14	02	16	Dept. of Agri.

Product preparation of fruits and vegetables	Home Science	January	1	PF	1	00	00	22	03	22	03	25	Dept. of Agri.
Product preparation of fruits and vegetables	Home Science	January	1	PF	1	17	03	10	00	27	03	30	SKDRDP
Contract farming	Crop production	January	1	PF	1	17	00	05	00	22	00	22	Dept. of Agri.
Vocational education and skill developments	Home Science	February	1	PF	1	00	00	51	05	51	05	56	Woman and Child Welfare Departmen t
Sustainable cultivation practices in horticultural crops	Horticulture	February	1	PF	1	24	01	31	02	55	03	58	Dept. of Hort.
Processing of Agricultural Produce	Home Science	February	1	PF	1	18	03	26	00	44	03	47	Dept. of Agri.
Cultivation of Horticultural crops	Horticulture	February	1	PF	1	06	00	15	00	21	00	21	Dept. of Hort.
Mushroom Cultivation	Plant Protection	March	1	PF	1	06	00	10	00	16	00	16	Dept. of Agri.
Product preparation of fruits and vegetables	Home Science	January	1	PF	1	23	02	11	00	34	02	36	Dept. of Agri.
Integrated Agriculture	Crop Production	April	5	EF	1	25	02	00	00	25	02	27	SKDRDP
Fish culture in Farm pond	Fisheries	July	1	PF	1	34	00	10	00	44	00	44	Dept. of Agri.

Seminar on cultivation of Horticulture crops	Horticulture	August	1	PF	1	8	2	52	10	60	12	72	SKDRDP
Processing of Agriculture Crops	Home Science	August	1	PF	1	06	02	83	12	89	14	103	Dept. of Agri.
Composite Fish Culture	Fisheries	August	1	PF	1	30	01	12	03	42	04	46	Nagarika Seva Trust
Use of farm machinery in Agriculture	Agri. Engineering	August	1	PF	1	18	02	20	02	38	04	42	Dept. of Agri.
Value addition in agricultural and Horticulture crops	Home Science	August	1	PF	1	12	00	00	00	12	00	12	Dept. of Agri.
Mushroom Cultivation	Plant Protection	August	1	PF	1	16	03	00	00	16	03	19	SKDRDP
Training on Rabi crops	Crop production	September	1	PF	1	48	02	04	00	52	02	54	Dept. of Agri.
Value addition Agricultural crops	Home Science	September	1	PF	1	15	00	01	00	15	01	16	Dept. of Agri.
Cultivation of fodder crops and Azolla	Crop production	September	1	PF	1	14	02	10	00	24	02	26	SKDRDP
Importance of Kitchen Garden	Home Science	September	1	PF	1	05	00	14	00	19	00	19	Vishwas, NGO, Mangalore
			42		38	519	43	745	78	1263	122	1385	

3.4. Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Exhibition	03	-	-	-	-	-	-	-	-	-
Kisan Mela	01	28	45	72	-	-	-	28	45	**72**
Method Demonstrations	02	60	07	67	01	03	04	61	10	**71**
Farmers Seminar	04	184	127	311	04	02	06	188	129	**317**
Advisory Services	48	38	10	48	06	02	08	44	12	**56**
Scientific visit to farmers field	115	146	17	163	05	02	07	151	19	**170**
Farmers visit to KVK	343	250	93	343	23	13	36	273	106	**379**
Diagnostic visits	06	10	04	14	02	00	02	12	04	**16**
Farm Science Club Conveners meet	01	09	00	09	07	00	07	16	00	**16**
World food day	01	10	43	53	06	01	07	16	44	**60**
Total	**524**	**735**	**346**	**1080**	**54**	**23**	**77**	**789**	**369**	**1157**
Lectures delivered as resource persons	10	-	-	-	-	-	-	-	-	-
Newspaper coverage	47	• Activities of KVK								
Radio talks	03	• Pest management in vegetables • Aquarium fabrication and its maintenance • Soil management in coastal zone								
TV talks	01	Pest Management in Cashew								
Popular articles	06	• Efficient use of water and nutrient management • A guide for kitchen gardening • Cultivation of Rose and Gerbera in Green House Condition • Aquarium fabrication and its maintenance • Compost Production Technology • Use of Biofertilizers for better soil health								
Extension Literature	03	• Preparation of 1% Bordeaux mixture • Value added products from Banana • A Glance at Krishi Vigyan Kendra								
Books published	01	Value added Products of Horticultural Crops in Coastal Zone								

3.5 Production and supply of Technological products

SEED MATERIALS

Sl. No.	Crop		Variety	Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
1	**CEREALS**	Paddy	MO-4	13.79	19306	46

SUMMARY

Sl. No.	Crop		Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
1	CEREALS	Paddy	13.79	19306	46
TOTAL			**13.79**	**19306**	**46**

PLANTING MATERIALS

Sl. No.	Crop		Variety	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
1	**PLANTATION CROPS**	**Cashew**	**Ullal-1**	3225	45150	10

SUMMARY

Sl. No.	Crop	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
1	PLANTATION CROPS	3225	45150	10
	TOTAL	**3225**	**45150**	**10**

3.6. Literature Developed/Published

(A) KVK News Letter: Nil

(B) Literature developed/published

Item	Title	Authors name	Number
Popular articles	A guide for kitchen gardening	Ms. Mangala K.	06
	Efficient use of water and nutrient management	Ms. Mangala K.	
	Cultivation of Rose and Gerbera in Green House Condition	Ms. Mangala K.	
	Aquarium fabrication and its maintenance	Dr. K.M. Rajesh	
	Compost Production Technology	Dr. Parashuram Chandravanshi	
	Use of Biofertilizers for better soil health	Dr. Parashuram Chandravanshi	

Extension literature	Preparation of 1% Bordeaux mixture	Mr. Veerendra Kumar K.V. *et.al,*	500
	Value added products from Banana	Mr. Srinivas N. *et.al,*	500
	A Glance at Krishi Vigyan Kendra	Dr. H. Hanumanthappa	500
Books	Value added Products of Horticultural Crops in Coastal Zone	Dr. Jayashree S. *et.al,*	500
TOTAL			**2025**

(C) Details of Electronic Media Produced: Nil

3.7. 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

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

- Vermi wash
- Cow dung slurry treatment
- Leaf clipping method demonstrated to manage stem borer
- Liming application

3.9 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 vermi wash and cow urine in the ratio of 3:1 @ 10 ltr.of water at 20-50 days interval	For better vegetative growth due to better microbial activity in Rhizosphere
2.	Paddy	Spraying of plant extract like Neem, Eupatorium	To prevent insects and disease incidence
3.	Coconut	Attraction of Rhinoceros beetle in coconut garden by placing mixture made up of ground nut cake and cow dung.	Attraction of Rhinoceros beetle
4.	Ash gourd	Hanging of Ash gourd	To improve the shelf life

3.10 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
- **Inservice 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

3.11 Field activities

i.	Number of villages adopted	:	05
ii.	No. of farm families selected	:	67
iii.	No. of survey/PRA conducted	:	10

3.12. Activities of Soil and Water Testing Laboratory: Construction of the KVK building is in progress.

4.0 IMPACT

4.1. Impact of KVK activities (Not to be restricted for reporting period).

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
Jasmine cultivation	330	26.21	-	1640/month
Vermicomposting	60	18.61	-	4500/3months

4.2. Cases of large scale adoption: Nil

4.3 Details of impact analysis of KVK activities carried out during the reporting period: Nil

5.0 LINKAGES

5.1 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 development	• Conducting training and demonstrations. • Extension functionaries meeting and technical discussion in bi-monthly workshops • Diagnostic survey and suggestion • Celebration of Field days, Farmers day, World Food day etc. • Training need assessment
Non-Governmental Organisation Shree kshetra Dharmasthal Rural development project, Nagarika seva trust, Cooperative Societies	• Conducting training programmes • Participation in meeting • FLD, OFT implementation • Training need assessment
Bank Co-operative Agri. Bank	• Collaborative activities for Shelf Help Groups. Conducting training Programmes for the farmers
All India Radio	• Transfer of technology through radio talks and message, announcing KVK training Programme schedules.

5.2 List special programmes undertaken by the KVK, which have been financed by State Govt./Other Agencies

Name of the scheme	Date/ Month of initiation	Funding agency	Amount (Rs.)
Post Harvest technology in Horticultural crops	29-7-2007	Department of Horticulture	2,00000

5.3 Details of linkage with ATMA: Nil

5.4 Give details of programmes implemented under National Horticultural Mission

Provided scientific support to the Department of Horticulture viz., awareness creating programmes, field visits, training programmes and also in establishing demonstrations. Subject Matter Specialists of KVK is member of technical committee at taluk level for implementing and monitoring NHM programmes.

5.5 Nature of linkage with National Fisheries Development Board: Nil

6. PERFORMANCE OF INFRASTRUCTURE IN KVK

6.1 Performance of demonstration units (other than instructional farm)

Sl. No.	Demo Unit	Year of establishment.	Area (m^2)	Details of production			Amount (Rs.)		Remarks
				Variety	Produce	Qty.	Cost of inputs	Gross income	
1.	Poly house	2006	252	Ullal-1	Grafts	3275	30608	45150	-
2.	Fish Pond	2006	80	Ornamental fish Brood stock maintenance and breeding is under progress					

6.2 Performance of instructional farm (Crops) including seed production

Name of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty. (Qtl.)	Cost of inputs	Gross income	
Cereals									
Paddy	July 2006	November 2006	0.8	MO-4	TFL Seeds	13.79	10411	19306	-

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

6.4 Performance of instructional farm (livestock and fisheries production) - Nil

6.5 Utilization of hostel facilities: Construction work is just completed.

7. FINANCIAL PERFORMANCE

7.1 Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
With Host Institute	-	-	-
With KVK	Canara Bank Fisheries College Extension Counter, Mangalore	Mangalore	100857
			100918 (Revolving Fund)

7.2 Utilization of funds under FLD on Oilseed *(Rs. In Lakhs)* : Nil

7.3 Utilization of funds under FLD on Pulses *(Rs. In Lakhs)*

Item	Released by ICAR		Expenditure		Unspent balance as on 1st April 2007
	Kharif 2006	Rabi 2006 -07	Kharif 2006	Rabi 2006-07	
Inputs	-	7000.00	-	7000.00	Nil
Extension activities	-	1000.00	-	952.00	48.00
TA/DA/POL etc.	-	1500.00	-	1392.00	108.00
TOTAL	**-**	**9500.00**	**-**	**9344.00**	**156.00**

7.4 Utilization of funds under FLD on Cotton *(Rs. In Lakhs)* : Nil

7.5 Utilization of KVK funds during the year 2006 -07 and 2007 -08 (upto Sep. 2007)

a. Utilization of KVK funds during the year 2006 -07

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	**Pay & Allowances**	15.00	1500000.00	1264988.00
2	**Traveling allowances**	0.75	75000.00	56579.00
3	**Contingencies**			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	0.51	51000.00	50334.00
B	POL, repair of vehicles, tractor and equipments	0.55	55000.00	54976.00
C	Meals/refreshment for trainees (ceiling up to Rs.40/day/trainee be maintained)	0.25	25000.00	24993.00
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	0.10	10000.00	9521.00
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	0.28	28000.00	25016.00
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	0.20	20000.00	17657.00
G	Training of extension functionaries	0.01	1000.00	528.00
H	Maintenance of buildings			
I	Establishment of Soil, Plant & Water Testing Laboratory	-		
J	Library	-		
TOTAL (A)		**17.65**	**1765000.00**	**1504592.00**

B. Non-Recurring Contingencies				
1	**Works**	71.44	6772067.00	6772067.00
2	**Equipments including SWTL & Furniture**	5.00	500000.00	498540.00
3	**Vehicle** (Four wheeler/Two wheeler, please specify)	-	-	-
4	**Library** (Purchase of assets like books & journals)	0.10	10000.00	9970.00
TOTAL (B)		**76.54**	**7282067.00**	**7280577.00**
C. REVOLVING FUND		-	-	-
GRAND TOTAL (A+B+C)		**94.19**	**9047067.00**	**8785169.00**

b. Utilization of KVK funds during the year 2007 -08 (upto Sep. 2007)

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	**Pay & Allowances**	2400000.00	889500.00	904086.00
2	**Traveling allowances**	75000.00	60000.00	50068.00
3	**Contingencies**			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	186000.00	186000.00	57272.00
B	POL, repair of vehicles, tractor and equipments	96000.00	96000.00	70992.00
C	Meals/refreshment for trainees (ceiling up to Rs.40/day/trainee be maintained)	78000.00	78000.00	21861.00
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	72000.00	60000.00	7700.00
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	75000.00	75000.00	23444.00
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	36000.00	36000.00	7630.00
G	Training of extension functionaries	24000.00	24000.00	-
H	Maintenance of buildings	24000.00	24000.00	-
I	Establishment of Soil, Plant & Water Testing Laboratory	-	-	-
J	Library	9000.00	9000.00	-
TOTAL (A)		**3075000.00**	**1537500.00**	**714731.00**
B. Non-Recurring Contingencies				
1	**Works**	372000.00	372000.00	-
2	**Equipments including SWTL & Furniture**			
3	**Vehicle** (Four wheeler/Two wheeler, please specify)			
4	**Library** (Purchase of assets like books & journals)			
TOTAL (B)		**372000.00**	**372000.00**	**-**
C. REVOLVING FUND				
GRAND TOTAL (A+B+C)		**3447000.00**	**1909500.00**	**714731.00**

7.5 Status of revolving fund (Rs. in lakhs) for the three years

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 1st April of each year
April 2004 to March 2005	100000.00	-	10041.00	89959.00
April 2005 to March 2006	89959.00	34236.00	13635.00	110560.00
April 2006 to March 2007	110560.00	70114.00	156261.00	24413.00

8.0 Please include information which has not been reflected above (write in detail).

8.1 Constraints

(a) **Administrative:** Appointment of Technical and Non-Technical staff on regular basis is required for smooth functioning and implementation of KVK mandate programmes

(b) **Financial** : Delay in release of budget leads to inconvenience in the implementation of Kharif programmes

(c) **Technical** **:** For the effective technology transfer following teaching aids are required

1. Slide projector
2. Overhead projector
3. Fax machine
4. Laptops

SUMMARY TABLES

1 Details of Technology assessment and refinement

Table 1A: 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	-	-	-	-	1	-	1	2		**4**
Integrated Disease Management	-	-	-	-		-		1		**1**
TOTAL					**1**	**-**	**1**	**3**		**5**

Table 1 B; Abstract on the number of technologies refined in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Integrated Nutrient Management	-	-	-	-	1	-	1	2		**4**
Integrated Disease Management	-	-	-	-		-		1		**1**
TOTAL					**1**	**-**	**1**	**3**		**5**

Table 1 C: Abstract on the number of technologies assessed in respect of livestock enterprises : Nil

Table 1 D: Abstract on the number of technologies refined in respect of livestock enterprises : Nil

Table – 1 E Details of technology refined

Crop / Enterprise	Technology Assessed	No. replications	Technology refined	Result justifying the refinement
Arecanut	Green manure: 20kg/pl, Compost: 20 kg/pl, NPK: 150:60:210 gm/pl, $ZnSO_4$: 20 g/pl, $MgSO_4$: 200 g/pl, Lime: 300 g/pl, Borax: 25 g/pl	**05**	Green manure-20 kg/pl, Lime: 300 g/pl, $ZnSO_4$- 20 g/pl, $MgSO_4$: 200 g/pl, Borax: 25g/pl, Neem cake: 1 kg/pl, FYM-20 kg/pl, Compost enriched with (*Azospirillum* 20 gm + PSB 20 gm /pl), NPK: 50 % of N,75 % of P& 100% K of Recommended dose of fertilizer (75:45:210 gm /pl)	• Integrated nutrient management approaches helps to improve productivity, production and soil fertility • Refined practice performed better over traditional method and slightly higher than the improved method. But in long run refined practice helps to maintain the soil health and sustain the yield
Cashew	Recommended dose of fertilizer 500:250:250 NPK gm/plant/year	**05**	Recommended dose of fertilizer 500:250:250 NPK gm/plant/year + 50 litres water/plant/15days at flowering stage + 3% Urea spray at November, December and January	• Nutrient and water management in cashew helped to increase flowering, fruit set and nut yield
Ash gourd	FYM : 12.5 t/ha, 50:50:0 kg NPK/ha	**05**	FYM : 12.5 t/ha, 50:50:70 kg NPK/ha	• Application of potash as a nutrient along with recommended dose of fertilizers resulted higher yield and better keeping quality
Jasmine	Organic manure: 20 kg /pl, Fertilizer 120:240:240 gm NPK/pl	**05**	Neem cake: 0.5 kg/pl, Lime: 0.5 kg/pl, Enriched Bio compost 20 kg (20g. *Azospirillum* + 20g. PSB/pl), 50 % N through groundnut cake, 50%N, 75% of P& 100% K of Recommended Dose of Fertilizer	• Integrated nutrient management approaches helped to get the higher yield and to maintain good soil health
Jasmine	Melathian 50 EC @ 2ml+Wettable Sulphar @ 3 gm/ltr. Spray at pest occurrence	**10**	Imidacloprid 0.3ml/ltr. Neem oil @ 30ml/ltr. Spray alternatively at 20 days interval during the pest incidence	• Timely application of chemicals will reduces the pest incidences and increases the yield

2. Details of Frontline Demonstrations

Table – 2 A Front Line Demonstrations on Oilseed Crops : Nil

Table – 2 B Front Line Demonstrations on Pulse Crops

Crop	Technology Demonstrated	No. of Farmers	Area (ha.)	Demo. Yield (Qtl./ha)	Local Check (Qtl./ha)	Increase in yield (%)	Data on parameter in relation to technology demonstrated		Average Net Return (Profit) (Rs./ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
							Demo	Local		
Black gram	Production technology of Black gram	10	5.0	5.02	3.81	31.75	32 pods/plant	20 pods/plant	**4225**	1:2.83

Table – 2 C Front Line Demonstrations on Other Crops

Crop	Technology Demonstrated	No. of Farmers	Area (ha.)	Demo. Yield (Qtl./ha)	Local Check (Qtl./ha)	Increase in yield (%)	Data on parameter in relation to technology demonstrated		Average Net Return (Profit) (Rs./ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
							Demo	Local		
Coconut	Integrated Nutrient Management in Coconut	09	0.4	95 nuts/pl.	57.6 nuts/pl.	62	-	-	40,660	1:3.6
Banana	Integrated Nutrient Management in Banana	10	0.4	394	293.4	34.28	-	-	1.06100	1:3.06
Amaranthus	Introduction of hybrid Amaranthus	10	1.0	241	-	-	-	-	59,800	1:5.70
Arecanut	Root grub management in Arecanut	10	0.8	8.25	5.63	46.53	-	-	28,569	1:1.97
Pepper	Quick wilt management in pepper	10	0.4	6.88	3.84	79.16	23 % infestation	76 % infestation	59,704	1:3.10
Cashew	Tea mosquito management in Cashew	05	2.0	11.06	6.96	58.79	-	-	20,730	1:2.60
Bhendi	Pest management in Bhendi	10	1.0	110.7	92.7	16.86	46.24% infestation	74.94 % infestation	8,928	1:1.67
Drumstick	Introduction of high yielding variety of Drumstick	04	1.0	-	-	-	-	-	Crop is at flowering stage	

Table – 2 D Front Line Demonstrations on Other enterprises

Enterprise	Variety/ breed/Species/others	No. of farmers	No. of Units	Size of Unit	Parameter indicators	Data on parameter in relation to technology demonstrated		% change in the parameter	Remarks
						Demon.	Local check		
Poultry	Giriraja	05	-	-	Growth , egg production	4.5 kg	1.25 kg	3.5	-

3. Details of training programmes conducted:

Table – 3 A. Area-wise distributions of On + Off Campus Training Courses for Farmers and Farm Women (regular + sponsored)

Thematic Area	No. of Courses	No. of Participants						
		Others			SC/ST			Grand Total
		Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women								
I Crop Production								
Nursery management	1	44	17	**61**	9	02	**11**	**72**
Integrated Crop Management	3	52	43	**95**	16	02	**18**	**113**
Production of organic inputs	1	00	53	**53**	00	08	**08**	**61**
II Horticulture								
a) Vegetable Crops								
Production of low volume and high value crops	2	77	30	**107**	04	04	**08**	**115**
c) Ornamental Plants								
Export potential of ornamental plants	3	21	79	**100**	02	04	**06**	**106**
Propagation techniques of Ornamental Plants	1	13	08	**21**	01	00	**01**	**22**
d) Plantation crops								
Production and Management technology	7	194	75	**269**	38	08	**46**	**315**
Others								
Integrated farming system	1	17	17	**34**	02	00	**02**	**36**
Fertilizer management in horticulture crops	1	24	05	**29**	06	00	**06**	**35**
IV Livestock Production and Management								
Dairy Management	1	30	14	**44**	06	00	**06**	**50**
V Home Science/Women empowerment								
Value addition	2	24	79	**103**	05	02	**07**	**110**
Others								
Bore well recharging	5	144	115	**259**	26	12	**38**	**297**
VII Plant Protection								
Integrated Disease Management	3	73	20	**93**	10	02	**12**	**105**
VIII Fisheries								
Integrated fish farming	1	19	06	**25**	05	00	**05**	**30**
Breeding and culture of ornamental fishes	1	20	05	**25**	02	00	**02**	**27**
IX Production of Inputs at site								
Bio-pesticides production	1	07	38	**45**	00	02	**02**	**47**
Vermi-compost production	1	10	13	**23**	00	02	**02**	**25**
XII Others (Pl. Specify)								
Contract farming	1	22	10	**32**	04	00	**04**	**36**
Farmers Scientists interaction	1	13	00	**13**	03	00	**03**	**16**
TOTAL	**37**	**804**	**627**	**1431**	**139**	**48**	**187**	**1618**

Table – 3 B Area-wise distributions of On + Off Campus Training Courses for Rural Youth (regular + sponsored + vocational); Nil

Table – 3 C Area-wise distributions of On + Off Campus Training Courses for In-service Extension Personnel (regular + sponsored); Nil

Table – 4 Numbers of Extension Activities and Beneficiaries

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Exhibition	03	-	-	-	-	-	-	-	-	-
Kisan Mela	01	28	45	72	-	-	-	28	45	**72**
Method Demonstrations	02	60	07	67	01	03	04	61	10	**71**
Farmers Seminar	04	184	127	311	04	02	06	188	129	**317**
Advisory Services	48	38	10	48	06	02	08	44	12	**56**
Scientific visit to farmers field	115	146	17	163	05	02	07	151	19	**170**
Farmers visit to KVK	343	250	93	343	23	13	36	273	106	**379**
Diagnostic visits	06	10	04	14	02	00	02	12	04	**16**
Farm Science Club Conveners meet	01	09	00	09	07	00	07	16	00	**16**
World food day	01	10	43	53	06	01	07	16	44	**60**
Total	**524**	**735**	**346**	**1080**	**54**	**23**	**77**	**789**	**369**	**1157**
Lectures delivered as resource persons	10	-	-	-	-	-	-	-	-	-
Newspaper coverage	47	• Activities of KVK								
Radio talks	03	• Pest management in vegetables • Aquarium fabrication and maintenance • Soil management in coastal zone								
TV talks	01	Pest Management in Cashew								
Popular articles	06	• Efficient use of water and nutrient management • A guide for kitchen gardening • Cultivation of Rose and Gerbera in Green House Condition • Aquarium fabrication and its maintenance • Compost Production Technology • Use of Biofertilizers for better soil health								
Extension Literature	03	• Preparation of 1% Bordeaux mixture • Value added products from Banana • A Glance at Krishi Vigyan Kendra								
Books published	01	Value added Products of Horticultural Crops in Coastal Zone								

Table – 5 A Productions of Seeds

SEED MATERIALS

Sl. No.	Crop		Variety	Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
1	**CEREALS**	Paddy	MO-4	13.79	19306	46

SUMMARY

Sl. No.	Crop		Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
1	CEREALS	Paddy	13.79	19306	46
TOTAL			**13.79**	**19306**	**46**

Table – 5 B Productions of planting/seedling materials of Fruits/Vegetables/Forest Species

PLANTING MATERIALS

Sl. No.	Crop		Variety	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
1	**PLANTATION CROPS**	**Cashew**	**Ullal-1**	3225	45150	10

SUMMARY

Sl. No.	Crop	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
1	PLANTATION CROPS	3225	45150	10
	TOTAL	**3225**	**45150**	**10**

SUMMARY

Table –5 C Production of bio products: Nil

Table 5 D Livestock materials: Nil