

PART I - GENERAL INFORMATION ABOUT THE KVK**1.1. Name and address of KVK with phone, fax and e-mail**

Address	Telephone		E mail	Web Address
	Office	FAX		
Bapooji Krishi Vigyan Kendra, Santhanpara P.O., Idukki (Dt.), Pin-685 619, Kerala.	04868 – 247541, 247715.	04868 – 247715	kvksanthanpara@rediffmail.com	www.kvکیدukki.org

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

Address	Telephone		E mail	Web Address
	Office	FAX		
Bapooji Sevak Samaj, Kakkattu, Meenadom P.O., Pampady, Kottayam (Dt.), Pin-686 516, Kerala.	0481-2506271 +919446826019	NIL	kvksanthanpara@rediffmail.com	www.kvکیدukki.org

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. S. Jayababu Programme Coordinator i/c	04868-247546	9446223170	kvksanthanpara@rediffmail.com

1.4. Year of sanction: 1994.**1.5. Staff Position (as 31st August 2010)**

Sl. No.	Sanctioned post	Name of the incumbent	Designation	M/F	Discipline	Highest Qualification (for PC, SMS and Prog. Asstt.)	Pay Scale	Basic pay	Date of joining KVK	Permanent /Temporary	Category (SC/ST/OBC/ Others)
1	Programme Coordinator	Vacant	Programme Coordinator	-	-	-	12000-375-18000	12000	-	-	-
2	SMS	Dr. S. Jayababu	Subject Matter Specialist	M	Animal Science	B.V. Sc. in Animal Husbandry	8000-275-13500	11850	19-06-1995	Permanent	Others
3	SMS	Vacant	Subject Matter Specialist	-	Agronomy	-	8000-275-13500	8000	-	-	-
4	SMS	Vacant	Subject Matter Specialist	-	Horticulture	-	8000-275-13500	8000	-	-	-
5	SMS	Vacant	Subject Matter Specialist	-	Soil Science	-	8000-275-13500	8000	-	-	-
6	SMS	Vacant	Subject Matter Specialist	-	Plant Protection	-	8000-275-13500	8000	-	-	-
7	SMS	Vacant	Subject Matter Specialist	-	Agricultural Extension	-	8000-275-13500	8000	-	-	-
8	Programme Assistant(Lab Tech.)/T-4	Jayisy Joseph	Programme Assistant	F	Home Science	M. Sc. Home Science (Extension)	5500-175-9000	7950	20-06-1995	Permanent	Others
9	Programme Assistant (Computer)/ T-4	Biju Narayanan	Programme Assistant	M	Computer Application	PGDCA, M.C.A.	5500-175-9000	5850	01-10-2007	Permanent	OBC
10	Programme Assistant/ Farm Manager	Rachel Skariakutty	Programme Assistant	F	Rural Craft	M.A. Sociology (P.G. Diploma in Rural	5500-175-9000	7775	05-06-1995	Permanent	Others

						Development)					
11	Assistant	Shaji. K. Kakkattu	Assistant	M	-	-	5500-175-9000	7775	05-06-1995	Permanent	Others
12	Jr. Stenographer	Daisy Daniel	Jr. Stenographer	F	-	-	3050-80-4590	4110	05-06-1995	Permanent	Others
13	Driver	P. Nandagopal	Driver	M	-	-	3050-80-4590	4110	05-06-1995	Permanent	OBC
14	Supporting staff	K.O. Jose	F.F. Attendant	M	-	-	2550-55-3200	3260	05-06-1995	Permanent	Others
15	Supporting staff	P. Sabu	F.F. Attendant	M	-	-	2550-55-3200	3260	05-06-1995	Permanent	Others
16	Peon/Messenger	K.T. Mathew	Peon/Messenger	M	-	-	2550-55-3200	3260	05-06-1995	Permanent	Others

1.6. Total land with KVK (in ha) : 20 ha.

S. No.	Item	Area (ha)
1	Under Buildings	0.074 ha
2.	Under Demonstration Units	0.5 ha
3.	Under Crops	0.5 ha
4.	Orchard/Agro-forestry	0.5 ha
5.	Others	18.426 ha

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	2002	740	47,85,208.10	-	-	-
2.	Farmers Hostel	NA	-	-	-	-	-	Vernacular documents and details of KVK Land send to ZPD. Revised Master Plan will be submitted soon.
3.	Staff Quarters	NA	-	-	-	-	-	-
4.	Demonstration Units		-	-	-	-	-	-
	1. Duck cum fish culture unit.	RF	15-06-2009	50	7,000.00	-	-	-
	2 Mushroom unit	Grama panchayath, Santhanpara	2002	10	85,000.00	-	-	-
	3 Spawn production unit	SHM	2009	10	3,00,000.00			
	4 Mist Chamber	SHM	2009	96	2,72,832.00			
	5 Rain Shelter	SHM	2009	50	1,04,091.00			
5	Fencing	NA	-	-	-	-	-	-
6	Rain Water harvesting system	NA	-	-	-	-	-	-
7	Threshing floor	NA	-	-	-	-	-	-
8	Farm godown	NA	-	-	-	-	-	-
9								
10								

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tempo Trax	July - 1995	3,06,676.34	1,27,018	Vehicle Inspection Report by RTO send to ZPD for replacement of vehicle.
Motor Bike	January - 1995	37,972.78	8,336	In running condition with poor fuel efficiency.

Honda Aviator	March - 2009	50,000.00	1856	Good condition.
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C) Equipments & AV aids:

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
A.V. aids (Specify)			
Television	1995	20,894.00	Good
GE OHP	1996	7,100.00	Good
2ET Slide Projector	1996	11,556.00	Good
Sharp Video Player	1996	10,000.00	Good
Pentax SLR Camera	1996	13,599.15	Good
Public Address System	2003	26,755.00	Good
Power Generator	2003	32,492.00	Good
LCD Projector (EPSON – EBW8)	2010	55,186.00	Good
Liberty Show Juno 5 x 7 (MW) Screen	2010	5,885.00	Good
Soil Science Lab Equipments (Specify)			
KEM HOT PLATE with Energy Regulator	2006	5,400.00	Good
Electronic Balance	2006	1,00,000.00	Good
Physical Balance	2006	8,991.00	Good
Spectrophotometer	2006	1,17,499.00	Good
Electronic Automatic KEL PLUS model KES 12L (Nitrogen Analyzer)	2006	97,043.00	Good
Conductivity Meter (PH Meter Utech 510)	2006	21,935.00	Good
HOT AIR OVEN	2006	13,725.00	Good
Water bath WDB2 350 x 400 100mm Size 12	2006	41,895.00	Good
Flame Photometer	2006	45,000.00	Good
Conductivity Meter	2006	13,500.00	Good
LG 280 Litre Fridge Model – GI 296 TM V-Guard Stabilizer	2006	250.00	Good
Mixi 750 Watts	2006	4,500.00	Good
Online UPS System with Battery	2006	36,916.00	Good
Glassware and Chemicals with fume chamber 3 x 2	2006	2,68,192.00	Good
Bio-control Lab Equipments			
Laminar Flow Chamber	2000	50,000.00	Good
Refrigerator	2000	10,760.00	Good
Chemical Balance	2000	1,800.00	Good
Auto Clave	2000	19,000.00	Good
Step up Stabilizer	2008	4,595.00	Good
Other Equipments			
FACIT Typewriter (Malayalam)	1995	9,735.00	Bad
FACIT Typewriter (English)	1995	9429.00	Good
Stencil Duplicator	1995	13,700.00	Average
Computer with Printer	2003	49,750.00	Good
Photostat Machine	2003	80,000.00	Good
Brush Cutter	2009	23,726.00	Good
Fax Machine	2009	15,000.00	Good
Laptop Computer (DELL Studio 14 N)	2010	37,150.00	Good
Inkjet Printer (Epson TX 111 AIO)	2010	1,779.00	Good

1.8. A). Details SAC meeting conducted in 2009-10: Not conducted during the reporting period.

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	Cardamom and Pepper based farming system in the High Ranges of the District
2	Homestead based farming
3	Tea plantation
4	Cool season vegetables
5	Dairying
6	Banana cropping
7	Rubber monocrop

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

S. No	Agro-climatic Zone	Characteristics
1.	Zone-XIII	High Ranges
2.	Zone-VII	Malayoram
3.	High altitude zone – Vattavada & Kanthalloor	Climate suitable for cool season vegetables and temperate fruits

S. No	Agro ecological situation	Characteristics
1.	Agro Ecological Zone-1	Major part is monocropped with rubber, other areas - homestead farming is practiced with tapioca, banana and vegetables, altitude up to 500M above mean sea level, humid tropics spread over the zone. South West and North East monsoon are active and moderately distributed. South West monsoon with June maximum (South of 11° N latitude)
2.	Agro Ecological Zone-2	Major cropping pattern – Pepper, Cardamom, Coffee, Areca nut, Cocoa and Rubber intercropped, altitude 500M above mean sea level, humid tropics spread over the zone. Steep slopes
3.	Agro Ecological Zone-3	High altitude zone – Vattavada & Kanthalloor. Cool season vegetables occupies major area. Potato, temperate fruits are grown in a small scale. Zone includes the only wheat-growing tract of Kerala. North East monsoon prominent.

2.3 Soil type/s

S. No	Soil type	Characteristics	Area in ha
1.	Manakkattu series	Clayey very deep, developed from gneissic parent material	-
2.	Cheenikuzhy series	Fine loamy texture.	-
3.	Thommankuthu series	Clayey texture.	-
4.	Venmani series	Clayey texture.	-
5.	Marayoor series	Clay loam to clayey texture.	-
6.	Pampadumpara series	Clayey texture.	-

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.	Cardamom	32846	9076	276
2.	Pepper	84219	52063	618
3.	Banana	1828	13883	7595
4.	Rice	2932	7500	2558
5.	Coconut	24343	90 million nuts	3697
6.	Tapioca	6608	205293	31067
7.	Coffee	10870	6820	627
8.	Tea	23702	40063	1690

Source of Data:- Economics and Statistics Department, Idukki.

2.5. Weather data

Month	Rainfall (mm)	Temperature ° C		Relative Humidity (%)
		Maximum	Minimum	
April 2009	161.20	28.70	18.53	93.47
May 2009	48.70	28.00	18.62	92.90
June 2009	204.60	25.50	17.35	92.27
July 2009	536.60	22.73	17.73	98.30
August 2009	195.20	25.33	18.00	97.00
September 2009	279.60	25.52	18.10	97.13
October 2009	272.00	26.31	17.47	93.94
November 2009	338.90	25.00	17.30	96.60
December 2009	84.60	24.45	16.70	84.60
January 2010	18.90	25.19	16.34	97.20
February 2010	0.00	27.75	16.50	95.20
March 2010	12.80	30.35	17.56	94.40

Source of Data:- Indian Cardamom Research Institute, Myladumpara, Idukki.

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

Category	Population	Production	Productivity
Cattle			
<i>Crossbred</i>	187000	Milk – 51500 MT	-
<i>Indigenous</i>	34500	-	-
Buffalo	11000	-	-
Sheep			
<i>Crossbred</i>	-	-	-
<i>Indigenous</i>	-	-	-
Goats	312500	Meat – 320 T	-
Pigs			
<i>Crossbred</i>	64000	81.86 T	-
<i>Indigenous</i>	-	-	-
Rabbits	38400	6300 Kg	-
Poultry			
Hens	450000	1055 Lakh	-
<i>Desi</i>	150000		
<i>Improved</i>	-	-	-
Ducks	9000	84000	-
Turkey and others	150	0.09 (000)	-

Category	Area	Production	Productivity
Fish	More than 5 Lakhs	598 MT	-
<i>Marine</i>	-	-	-
<i>Inland</i>	-	-	-
Prawn	-	-	-
Scampi	-	-	-
Shrimp	-	-	-

* Source – District Animal Husbandry Office, Thodupuzha.

2.6 Details of Operational area / Villages

Sl. No.	Taluk	Name of the block	Name of the village	How long the village is covered under operational area of the KVK (specify the years)	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1.	Peermedu	Azhutha	Peermedu Manjhumala Periyar Kumily Elappara Upputhara Vagaman Peruvamthana m Kokkayar	1 Year	Tea, Cardamom, tourism Dairy cattle, Buffaloes, Broiler Japanese Quail, Goats, Turkey Toys making Bouquet making Emboss painting Tanjore painting Sand painting Shadow work. Milk products Snacks unit, preservation units.	Pest and diseases and imbalanced nutrition in cardamom. Scarcity in green fodder, Higher cost of Animal feed, Poor growth rate in goats, Stunted growth and higher mortality rate in calves, goat kids and lower production in birds. Lack of awareness about income generation activities especially for school dropouts which are more in number in this area. Low profit for dairy farmers. Motivation and awareness is lacking in many SHG's. Nutritional status data of ICDS shows malnutrition problem is clearly seen in the children of estate labours. Low market price for fruits. Wastage of fruits in rainy season. Daily intake of fruits and vegetables is less in Idukki, when compared to other districts.	IPDM in Cardamom & improving productivity of Cardamom. Scientific livestock management. Value addition in milk products. Empowerment of SHGs and other people in the backward section of the society. Area specific alternative practices through educating the extension functionaries.

Sl. No.	Taluk	Name of the block	Name of the village	How long the village is covered under operational area of the KVK (specify the years)	Major crops & enterprises	Major problem identified	Identified Thrust Areas
2.	Udumbanchola	1.) Kattappana 2.) Nedumkandom	Vandanmedu Anakkara Pampadumpara Kattappana Karunapuram Parathodu Senapathy Rajakumary Rajakkad	3 Years. 15 Years.	<p>Crops: Cardamom, pepper, banana, vegetables, coconut, ginger, fodder crops.</p> <p>Enterprises: Vermi composting, mushroom cultivation, plant nurseries, fruit and vegetable crops.</p> <p>Dairy cattle, goat, rabbit, pig</p> <p>Preparation of home care products, decorative and fancy articles, paper carry bag making. File preparation, Book binding Tie and Dye work, Ceramic arts. Book binding, soft toys making, fabric painting and such other craft works on small scale which require expansion and skill.</p> <p>Jack fruit, papaya, orange, mango, amla, Ginger, Gauva, etc.</p>	<p>Pest and disease infestation in cardamom,,</p> <p>Heavy incidence of fungal diseases in vegetables,</p> <p>Imbalanced nutrition in banana and paddy,</p> <p>Poor soil fertility status.</p> <p>Mastitis in dairy cattle.</p> <p>Infertility problem in dairy cattle.</p> <p>Poor growth in kids, lack of awareness about new breeds of goats.</p> <p>Goiter disease due to iodine deficiently. It leads to abortion, still birth incidence of retained placenta, birth of weak hairless offspring, ie, reproductive failures.</p> <p>Lack of knowledge and skill in Handicraft items.</p> <p>Motivation and awareness is lacking in many women SHGs</p> <p>Low market price for fruits.</p> <p>Wastage of fruits in rainy season.</p> <p>Comparatively daily intake of fruits and the block vegetables is less.</p>	<p>IPDM in cardamom</p> <p>Increase productivity of major crops.</p> <p>Scientific livestock management.</p> <p>Entrepreneurship development among SHG</p> <p>Value addition of fruit crops, preservation of fruits.</p> <p>Effective planning and implementation of nutritional gardening for households.</p>

Sl. No.	Taluk	Name of the block	Name of the village	How long the village is covered under operational area of the KVK (specify the years)	Major crops & enterprises	Major problem identified	Identified Thrust Areas
3.	Devikulam	1.) Adimali	Bisonvalley Kunchithanny Pallivasal Vellathooval Mannankanda m	3 Years.	Crops: Cardamom, Pepper, coconut, vegetables, cocoa, ginger, tapioca, banana.	Pest and disease incidences in cardamom and pepper. Indiscriminate use of chemicals fertilizers and pesticides.	IPDM in vegetables, cardamom and pepper. Improving productivity of major crops.
		2.) Devikulam	Kanthaloor Marayoor Vattavada	2 Years (Interventions are limited to field visits only)	Rice, wheat, potato, garlic, cool season vegetables. Pig, livestock products Paper carry bag making, screen printing, fabric painting and Book binding Fruit Preservation and snacks preparation unit Mushroom preservation	Low productivity in Rice. Heavy infestation of pest and diseases in cool season crops, low rainfall areas. Lack of scientific knowledge on pig rearing. Lack of knowledge on livestock product preparation. Lack of awareness about income generation activities especially for school drop outs Income generating enterprises are very less in SHGs.	Rainwater harvesting. Scientific Piggery Management. Entrepreneurship development among SHGs.

4.	Thodupuzha	Elamdesam	Arakkulam Kanjikkuzhi Vazhathoppu	4 Years (Main intervention is limited to trainings)	Crops: Pineapple, Rubber, coconut, vegetables, tapioca and ginger Pig, livestock products Value addition of fruits Toys making, bouquet making, emboss painting, Tanjore painting, sand painting and shadow work.	Low productivity of major crops grown. Lack of scientific knowledge on pig rearing and livestock product preparation. Wastage of seasonal fruits. Low entrepreneurial skills for running enterprises successfully.	Increase productivity of major crops grown. Scientific piggery management. Value addition of livestock products Preservation and value addition of fruits Entrepreneurship development among women SHGs.
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2.7 Priority thrust areas

S. No.	Thrust area
1.	Increase productivity of major crops.
2.	Entrepreneurship development.
3.	Integrated Pest & disease management in major crops.
4.	Farm mechanization.
5.	Productivity improvement of poultry.
6.	Scientific livestock management.

PART III - TECHNICAL ACHIEVEMENTS**3.A. Details of target and achievements of mandatory activities**

OFT				FLD			
1				2			
Number of OFTs		Number of farmers		Number of FLDs		Number of farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
8	7	45	40	10	8	128	128

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
231	134	2700	3529	73	198	4000	7710

Seed Production (Qtl.)			Planting material (Nos.)	
5			6	
Target	Achievement		Target	Achievement
Vegetables-10 Kg	8 Kg		5000	14009
Cereals-Nil	124.79 Kg			

Livestock (No.)		Bio-products (Kg)	
7		8	
Target	Achievement	Target	Achievement
Quail Egg-1500	Quail Egg-1218	Mushroom spawn – 6000 packets	2340 packets
		Pseudomonas – 1000 Litre	275.75 Litre
		Trichoderma – 500 Litre	35 Litre
		Azolla – 60 Kg	22.50 Kg

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

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions												
				Title of OFT if any	Title of FLD if any	Number of Training (farmers)	Number of Training (Youths)	Number of Training (extension personnel)	Extension activities (No.)	Supply of seeds (Qtl)	Supply of planting materials (No.)	Supply of livestock (No.)	Supply of bio products			
1.	Improvement in productivity	Cardamom	Low yield, Immature capsule shedding	-	1) Application of Zn and B for improving productivity. 2) Scientific nutrient management in cardamom.	5	2	-	3	-	79	-	-	No.	Kg	Pseudomonas – 150 L Trichoderma – 35 Kg.
2	Improvement in productivity	Pepper	Low yield, poor soil health, high incidence of pest & disease	1) Effect of consortium bio-fertilizers in improving productivity of pepper. 2) Evaluation of various pepper standards.	-	3	-	-	-	-	6486	-	-	-	-	Pseudomonas – 122.75 L
3	Improvement in productivity	Rice	Growing local varieties with poor yield potential, Low yield, Labour shortage, Conversion of paddy lands.	1) Evaluation of yield performance of Uma variety under High Ranges.	-	4	1	1	3	124.29 Kg.	-	-	-	-	-	-
4.	Increase in productivity	Banana	Untapped yield potential and high cost of cultivation	HDP in banana (3 plants / pit)	1) Scientific nutrient management in banana. 2) HDP in banana (2 plants / pit).	3	-	-	-	-	-	-	-	-	-	-
5.	IPDM in major crops	Ginger	Yield loss due to heavy incidence of soft rot in ginger	Integrated management of soft rot in Ginger	-	2	-	-	-	-	-	-	-	-	-	-
6.	Entrepreneurship development	Oyster mushroom	Less profitability, Use of polythene covers which are non-biodegradable	Use of reusable perforated plastic baskets for mushroom cultivation	Demonstration of oyster mushroom varieties CO1 & Florida	2	1	-	-	-	-	-	-	1500	-	-
7.	Increase in productivity	Sweet potato	Non-availability of high yielding varieties.	To assess the suitability of sweet potato varieties (Sree Arun, Sree Varun and Gauri from CTCRI) in high ranges of Idukki district.	-	-	2	-	-	1	2500 (each variety)	-	-	-	-	-
8.	Farm mechanization	Pepper	1) Price fluctuation. 2) Traditional methods of White pepper making is time consuming	-	Mechanization of White pepper making.	-	3	-	-	-	-	-	-	-	-	-
		Rice	Labour shortage in harvesting paddy fields on time.	Assessing the field performance of Brush Cutter for harvesting small paddy lands.	-	-	2	1	1	1	-	20 Rotary weeders sold to farmers for inter-cultural operations	-	-	-	-

9.	Productivity improvement of poultry	Turkey	Low egg production	-	Production performance or broad breasted bronze var. of Turkey under backyard system as influenced by source of food.	3	1	-	-	-	-	-	-	-
10.	Productivity improvement of poultry	Poultry	Low meat production	-	Production of broiler chicken feeding with pro-biotics under homestead.	1	2	-	-	-	-	-	-	-
11.	Scientific livestock management	Dairy calves	Low meat production	-	Cost effectiveness of male calves rearing with concentrate feeding as that of same method of rearing of heifer calves.	5	-	1	-	-	-	-	-	-

3.B2. Details of technology used during reporting period

S.No	Title of Technology	Source of technology	Crop/enterprise	No. of programmes conducted			
				OFT	FLD	Training	Others (Specify)
1	2	3	4	5	6	7	8
1.	Popularization of Uma variety of Rice	KAU	Rice	1	-	2	One Rice Workshop organized where the result of the OFT programme was much appreciated.
2.	Assessment of field performance of Brush cutter for harvesting small paddy lands.	KAU	Rice	1	-	1	-
3.	Evaluation of pepper standards	KAU	Pepper	1	-	2	-
4.	To test the suitability of consortium bio-fertilizers for improving productivity in black pepper.	KAU	Pepper	1	-	2	-
5.	Application of Zn and B for improving productivity in Cardamom	ICRI	Cardamom	-	1	2	-
6.	Scientific nutrient management towards the control of immature capsule shedding	ICRI	Cardamom	-	1	3	Field Visit-2
7.	Integrated management of soft rot in Ginger	IISR, Calicut	Ginger	-	1	-	-
8.	Scientific Nutrient Management in banana	KAU	Banana	-	1	2	-
9.	HDP in Banana	KAU	Banana	1 (3 plants / pit)	1 (2 plants / pit)	-	-
10.	Mechanization of white pepper making	UAS, Bangalore	Pepper	0	1	3	Demonstration-4, FAS-35.
11.	Newly released Sweet potato varieties Sree Arun, Sree Varun and Gauri for high ranges.	CTCRI, Trivandrum	Sweet potato	1	0	2	Field visit-5, FAS-5.
12.	Production performance of broad breasted bronze var. of Turkey under backyard system as influenced by source of food.	KAU	Turkey	-	1	4	Field visit-3, FAS-4.
13.	Production of broiler chicken feeding with pro-biotics under homestead.	KAU	Poultry	-	1	3	Field visit-3.

14.	Cost effectiveness of mail calves rearing with concentrate feeding as that of same method of rearing of heifer calves.	KAU	Dairy calves	1	0	6	Field visit-2, FAS-4.
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3.B2 contd..

S. No.	No. of farmers covered															
	OFT				FLD				Training				Others (Specify)			
	General		SC/ST		General		SC/ST		General		SC/ST		General		SC/ST	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	5	-	-	-	-	-	-	30	6	5	-	95	5	-	-	
2	5	-	-	-	-	-	-	25	5	-	-	-	-	-	-	
3	4	-	-	-	-	-	-	30	6	-	-	-	-	-	-	
4	5	-	-	-	-	-	-	30	5	8	2	-	-	-	-	
5	-	-	-	-	8	-	-	40	5	3	-	-	-	-	-	
6	-	-	-	-	5	-	-	5	-	-	-	-	-	-	-	
7	5	-	-	-	-	-	-	20	4	2	-	-	-	-	-	
8	-	-	-	-	5	-	-	25	5	4	3	-	-	-	-	
9	5	-	-	-	5	-	-	50	10	3	2	-	-	-	-	
10	-	-	-	-	20	-	-	13	27	-	-	-	-	-	-	
11	5	-	-	-	-	-	-	5	-	-	-	-	-	-	-	
12	-	-	-	-	5	-	-	12	11	-	-	-	-	-	-	
13	-	-	-	-	12	2	-	18	9	-	-	-	-	-	-	
14	10	-	-	-	-	-	-	22	10	-	-	-	-	-	-	

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								1		
Varietal Evaluation	1								1	
Integrated Pest Management										
Integrated Crop Management						1		1		
Integrated Disease Management										
Small Scale Income Generation Enterprises										
Weed Management										
Resource Conservation Technology										
Farm Machineries	1									
Integrated Farming System										
Seed / Plant production										
Value addition										
Drudgery Reduction										
Storage Technique										
Mushroom cultivation					1					
Total	2	-	-	-	1	1	-	2	1	7

4.A2. Abstract on the number of technologies refined in respect of crops: Nil.**4.A3. Abstract on the number of technologies assessed in respect of livestock enterprises**

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

4.A4. Abstract on the number of technologies refined in respect of livestock enterprises: Nil.**4.B. Achievements on technologies Assessed and Refined****4.B.1. Technologies Assessed under various Crops**

Thematic areas	Crop	Name of the technology assessed	No. of trials	Area (ha)
Integrated Nutrient Management	Pepper	Efficiency of consortium bio-fertilizers for improving productivity in black pepper.	5	0.80
Varietal Evaluation	Rice	Assessing yield performance of Uma variety under High Range conditions	5	1.00
	Sweet potato	Assessment of suitability of sweet potato varieties Sree Arun, Sree Varun & Gauri	5	1.21
Integrated Pest Management				
Integrated Crop Management	Pepper	Evaluation of Pepper standards	4	0.40
	Banana	HDP in Banana (3 plants / pit)	5	0.32
Integrated Disease Management				
Small Scale Income Generation Enterprises				
Weed Management				
Resource Conservation Technology				
Farm Machineries	Rice	Assessing the field performance of brush cutter for harvesting marginal paddy lands.	5	1.00
Integrated Farming System				
Seed / Plant production				
Value addition				
Drudgery Reduction				
Storage Technique				
Mushroom cultivation	Oyster mushroom	Mushroom cultivation in reusable perforated plastic baskets.	5	NA
Total			34	4.73

4.B.2. Technologies Refined under various Crops: Nil.**4.B.3. Technologies assessed under Livestock and other enterprises**

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials
Evaluation of breeds			
Nutrition management	Dairy calves	Cost effectiveness of mail calves rearing with concentrate feeding as that of same method of rearing of heifer calves.	10
Disease management			
Value addition			
Production and management			
Feed and fodder			
Small scale income generating enterprises			
Total			10

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

4.C1. Results of Technologies Assessed

Results of On Farm Trial

Crop/enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement done / needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Rice	Rice based farming	Lack of availability of high yielding varieties.	Assessing the yield performance of Uma variety under high ranges for improving production.	5	Yield performance of Uma variety for improving productivity in Rice.	1) Yield. 2) B:C Ratio.	Uma Variety: 6.67 t/ha. Edavaka – check: 2.5558 t/ha. B:C Ratio in demonstration – 2.71. B:C Ratio in check plots – 1.90.	1) More than 100% increase in yield. 2) Profitability increased.	Performance of Uma variety is being reported as excellent by farmers.	Nil	Nil.
	Paddy based cropping system	1) Labour shortage. 2) High labour cost. 3) Low profit from paddy farming.	On Farm Testing to assess the field performance of Brush cutter in harvesting paddy fields.	5	Assessing the performance of brush cutter in harvesting marginal paddy lands.	Field level efficiency.	Brush cutter harvested 50 cents in 6 hours with the help of 2 labours. Rs.670/- (Mean) was saved with the use of machine compared to traditional manual harvesting.	Brush cutter is a practical solution for harvesting marginal holdings of paddy lands where labour activity is a problem. Operating the machine in waterlogged areas is found impractical.	Machine is a workable solution for labour shortage in timely harvest of paddy fields.	Nil	Nil
Pepper	Pepper based cropping system	Erythrina gall wasp attack on pepper standards.	Performance evaluation of various standards for black pepper.	4	Erythrina, Glyricidia, Muringa, Silver oak and Jack as different standards for suitability.	1) Establishment rate. 2) Growth of vines.	Ongoing.	-	-	-	-
		Low productivity.	Assess the efficiency of consortium bio-fertilizers application in rejuvenating black pepper gardens.	5	1 Kg Neem cake + 10 Kg FYM + 25g each Azosprillum, Phospho bacteria + 110g AMF.	1) Yield. 2) Soil fertility.	1.75 t/ha under organic management. 2.01 t/ha under chemical fertilizer application. Farmers practice – 1.3 t/ha.	Organically managed plot gave 30% increase over farmers practice.	Organic practices improved the boldness of the capsules by 30%. Spike shedding reduced by 80%.	-	-
Banana	Monocropping banana in low lands.	High cost of cultivation & untapped yield potential.	HDP in banana (3 plants / pit).	5	Pits taken at a spacing of 3m X 2m and planting 3 suckers / pit, plant population of 4998 / ha.	1) Average bunch weight. 2) Hands / bunch. 3) Yield / ha.	On going	-	-	-	-
Oyster mushroom	Oyster mushroom cultivation as a subsidiary occupation by rural women.	Environmental pollution due to the use of non-bio-degradable polythene covers.	Use of reusable perforated plastic baskets for mushroom cultivation.	5	Perforated plastic baskets are used for mushroom bed preparation	The trial was a failure, no spawn running was obtained and the beds were dried up.					
Dairy cattle	Dairy farming is a major enterprise where poor growth performance, low body weight gain is a major	Low body weight and poor growth performance	Cost effectiveness of male calves rearing with concentrate feeding as	10	Cost effectiveness of male calves rearing with concentrate feeding as	1) Body weight. 2) Feed conversion ration. 3) BCR.	-	Scientific rearing of male calves with concentrate feeding and deworming medicines	Very good effective technology	-	-

	problem in male calves resulting from unscientific managerial practices.		that of same method of rearing of heifer calves.		that of same method of rearing of heifer calves.			attains good growth performance and 30% increase in body weight.			
Sweet potato	Homestead farming	Non-availability of high yielding varieties.	Assessment of the suitability of sweet potato varieties in high ranges.	5	Varietal evaluation of Sree Arun, Sree Varun and Gauri under high ranges.	1) Yield. 2) BCR. 3) Gustatory indicators.	Sree Arun var. 1.49 t/ha. BCR-2.07. Good cooking quality. Gauri var. 5 t/ha. BCR-2.97. Good cooking quality. Sree Varun var. 0.867 t/ha. BCR-1.91. Local check 0.51 t/ha. BCR-1.82.	Gauri var. is found most suitable for the High Ranges of Idukki district.	Excellent taste, Good cooking quality.		

Contd..

Technology Assessed	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):	4680	Kg/ha	Rs.18,894/ha	1.9
Technology option 2:	6670	Kg/ha	Rs.35,809/ha	2.71
Technology option 3:	Nil	Nil	Nil	Nil
Technology option 1 (Farmer's practice):	7 man labours required for harvesting 50 cents.	7 man labours / 50 cents.	-	-
Technology option 2:	2 man labours required for harvesting 50 cents.	2 man labours / 50 cents.	Saving of Rs.670 / 50 cents compared to manual harvesting.	-
Technology option 3:	Nil	Nil	Nil	Nil
Technology option 1 (Farmer's practice):	Growing Erythrina as a pepper standard.	Ongoing	-	-
Technology option 2:	Growing Glyricidia as a pepper standard.	Ongoing	-	-
Technology option 3:	Growing Muringa as a pepper standard.	Ongoing	-	-
Technology option 4:	Growing Silver oak as a pepper standard.	Ongoing	-	-
Technology option 5:	Growing Jack as a pepper standard.	Ongoing	-	-
Technology option 1: Factomphos application without specific dozes.	1.30	t/ha	87500	2.17
Technology option 2: 50:50:150 (NPK) g / vine / year.	2.01	t/ha	126250	2.68
Technology option 3: 1 Kg Neem cake + 10 Kg FYM + 25g each Azospirillum, Phospho bacteria + 110g AMF.	1.75	t/ha	135000	2.80
Technology option 1: Spacing 2m X 2m, plant population – 2500 / ha.	On going			
Technology option 2: Spacing 3m X 2m, plant population – 3332 / ha.				
Technology option 3: Spacing 3m X 2m, plant population – 4998 / ha.				
Technology option 1: Mushroom bed preparation in polythene covers 60cm X 30cm and 100-150 gauge thickness.	1.00	Kg / bed	Rs.60 / bed.	3
Technology option 2: Use of perforated plastic baskets (Reusable) for mushroom bed preparation.	Spawn running was not obtained and the trial was a failure.	-	-	-
Technology option 3:	-	-	-	-

Technology option 1: (Farmer's practice) : Farmers rearing male calves in unscientific method.	7-10 Kg / Month improved	70 Kg at 6 month	Rs.3000 / Unit	2.00
Technology option 2: Scientific rearing of male calves with optimal concentrate feeding and deworming practices.	10-15 Kg / Month improved	90 Kg at 6 month	Rs.4500 / Unit	3.00
Technology option 3:	-	-	-	-
Technology option 1 (Farmer's practice) : Local varieties	0.512	t/ha	-	0.13
Technology option 2 : Variety Sree Arun.	1.499	t/ha	32979/ha	1.69
Technology option 3 : Variety Sree Varun.	0.87	t/ha	-	0.22
Technology option 4 : Variety Gauri	5	t/ha	92800/ha	2.9

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

1)

1 Title of Technology Assessed

On Farm Testing programme to assess the yield performance of Uma variety of Rice under high range conditions.

2 Problem Definition

Rice farming is slowly becoming non-profitable, due to low productivity and labour shortage. Farmers don't have access/information about high yielding varieties.

3 Details of technologies selected for assessment

Uma variety of Rice with yield potential as high as 10 t/ha was a good option for the farmers of Rajakumari village to improve productivity in Rice.

4 Source of technology

Kerala Agricultural University.

5 Production system and thematic area

Rice based farming system and varietal evaluation in Rice.

6 Performance of the Technology with performance indicators

Mean yield of Uma variety in the trial plots was 6.67 t/ha as against 4.68 t/ha in check plots and in both plots same agro management practices were followed.

7 Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques

Feedback collected from farmers indicated the high yielding potential and suitability of Uma variety under High Range conditions..

8 Final recommendation for micro level situation

Uma variety of rice is suitable for high ranges, especially in the second crop of the season.

9 Constraints identified and feedback for research

Water scarcity was a problem during middle stage of the crop. Seed dormancy of Uma variety was tackled through soaking of seeds in water.

10 Process of farmer's participation and their reaction

Farmers were identified through group discussion in the Rajkumari Padasekharam. Krishi Bhavan and progressive farmers were also involved in the selection of farmers. During the crop season, many farmers in the

village visited the trial plots. All were impressed by the bumper crop stand. Harvest festival was organized to get further dissemination of the technology. A rice workshop titled “**Karshaka Sangamam**” involving 150 farmers were organized at Rajakad village. The yield data and other attributes of the variety were discussed in the workshop. Plant breeders who have released the variety from KAU were involved in the workshop. A publication titled “**Front Line Demonstration on Scientific Rice Cultivation 2009-10**” was also published in the workshop. The publication highlighted the On Farm Trial results on Uma variety which was distributed to 100 farmers.

2)

1 **Title of Technology Assessed**

Assessing the performance of Brush cutter for harvesting marginal holdings in paddy.

2 **Problem Definition**

Paddy farming is becoming a non-profitable one due to high cost of cultivation; labour shortage during harvesting stages delays timely harvest. To solve the problem of labour shortage during harvesting in marginal paddy fields, brush cutter with reaper attachment is being tried as an alternative.

3 **Details of technologies selected for assessment**

Oliomac weed cutter 2.1 hp petrol engine model Sparta 42, with reaper attachment (Italian make).

4 **Source of technology**

KAU.

5 **Production system and thematic area**

Rice based cropping system and mechanized paddy farming.

6 **Performance of the Technology with performance indicators**

Brush cutter harvested 50 cents in 6 hours with the help of 2 man labours. Labour charge of Rs.670/- was saved in mechanized harvesting compared to manual harvesting, besides being able to tackle the problem of labour scarcity.

7. **Feedback, matrix scoring of various technology parameters done through farmer’s participation / other scoring techniques**

Farmers have made positive response towards brush cutter for harvesting small paddy fields.

8 **Final recommendation for micro level situation**

Brush cutter is a practical solution for harvesting marginal paddy lands where scarcity of labour is a problem.

9 **Constraints identified and feedback for research**

It has been found that Brush cutter is not effective in harvesting Rice grown in waterlogged areas. Farmers also requested for paddy thresher to be demonstrated.

10 **Process of farmer’s participation and their reaction**

Farmers who participated in the harvest festivals organized by KVK in different paddy fields of the district were given a chance to operate brush cutter. 100 farmers participated in the 5 demonstrations conducted at Muttukadu, Anakara, Senapathy, Rajakumari North and Manjakkuzhy Padasekharams. Farmers were enthusiastic about the machinery.

3)

1 **Title of Technology Assessed**

Performance evaluation of various standards for black pepper.

2 **Problem Definition**

Infestation of Erythrina gall wasp in Erythrina standards of black pepper.

3 **Details of technologies selected for assessment**

Erythrina, Glyricidia, Muringa, Silver oak and Jack are assessed as standards for pepper vine.

4 **Source of technology**

KAU.

5 **Production system and thematic area**

Pepper based cropping system. Increasing productivity in pepper.

6 **Performance of the Technology with performance indicators**

Ongoing.

7 **Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques**

Ongoing.

8 **Final recommendation for micro level situation**

Ongoing.

9 **Constraints identified and feedback for research**

Ongoing.

10 **Process of farmer's participation and their reaction**

Farmers are identified for this technology through PRA meeting and the results, farmers reaction will be documented in later.

4)

1 **Title of Technology Assessed**

Assess the efficacy of consortium bio-fertilizers application in rejuvenating black pepper gardens.

2 **Problem Definition**

Low productivity of pepper plantations.

3 **Details of technologies selected for assessment**

Application of Neem cake @ 1 Kg / plant + 10 Kg FYM + Consortium bio-fertilizers ie, Azospirillum and Phosphobacteria @ 25 g / plant and AMF 110g / plant.

4 **Source of technology**

KAU (Adhoc recommendation 2007).

5 **Production system and thematic area**

Pepper based cropping system. Integrated Nutrient Management.

6 **Performance of the Technology with performance indicators**

The yield recorded after the first year trial indicated the following results. Yield recorded in Farmers practice was 1.3 t/ha with the BCR of 2.17. Under chemical fertilization the yield recorded from black pepper was 2.01 t/ha with a BCR of 2.68. Pepper plants under organic management had recorded 1.75 t/ha (Dry yield) with a BCR of 2.8.

7 **Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques**

Farmers had attributed boldness of berries and less incidence of spike shedding attributed to the application of consortium bio-fertilizers in pepper plants.

8 **Final recommendation for micro level situation**

Trial in progress.

9 **Constraints identified and feedback for research**

Trial in progress.

10 **Process of farmer's participation and their reaction**

The farmers for the trial were identified from a group of pepper farmers. Other farmers in the group regularly visit the trial plots.

5)

1 **Title of Technology Assessed**

HDP in banana.

2 **Problem Definition**

Untapped yield potential, high cost of cultivation, heavy infestation of pests and diseases.

3 **Details of technologies selected for assessment**

Spacing of 3mX3m, 3 plants/ pit, plant population of 4998/ ha, 75% extra fertilizer application over the normal planting system.

4 **Source of technology**

KAU.

5 **Production system and thematic area**

Monocropping banana in low lands.

6 **Performance of the Technology with performance indicators**

Trial in progress.

7. **Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques**

Trial in progress.

8 **Final recommendation for micro level situation**

Trial in progress.

9 **Constraints identified and feedback for research**

Trial in progress.

10 **Process of farmer's participation and their reaction**

Farmers reaction will be documented in later.

6)

1 **Title of Technology Assessed**

Use of reusable perforated plastic baskets for mushroom cultivation.

2 **Problem Definition**

Environmental pollution due to the use of non-bio-degradable plastic covers for mushroom bed preparation.

3 **Details of technologies selected for assessment**

Reusable perforated plastic baskets are being assessed for mushroom bed preparation instead of non-bio-degradable polythene covers.

4 **Source of technology**

Farmer innovation.

5 **Production system and thematic area**

Homestead mushroom cultivation as a subsidiary occupation for rural women.

6 **Performance of the Technology with performance indicators**

The OFT was a failure, since spawn running was not obtained in the beds prepared in perforated plastic baskets. The beds dried up due to over exposure.

7. **Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques**

NA.

7 **Final recommendation for micro level situation**

NA.

9 **Constraints identified and feedback for research**

NA.

10 **Process of farmer's participation and their reaction**

NA.

7)

1 **Title of Technology Assessed**

To assess the suitability of Sweet Potato varieties (Sree Arun, Sree Varun and Gauri from CTCRI) for high ranges of Idukki district.

2 **Problem Definition**

Lack of high yielding varieties, use of local varieties with poor yield potential, suitability of high yielding varieties have not been assessed in the High Ranges of Idukki district.

3 **Details of technologies selected for assessment**

High yielding varieties of sweet potato Sree Arun, Sree Varun and Gauri released by CTCRI, Trivandrum were selected to assess their suitability in the high ranges of Idukki district.

4 **Source of technology**

CTCRI – Thiruvananthapuram.

5 **Production system and thematic area**

Homestead farming and improvement in productivity.

6 **Performance of the Technology with performance indicators**

Varieties Gauri and Sree Arun were found suitable for cultivation in the High Ranges of Idukki district. The yield recorded was 5 t/ha & 1.49 t/ha respectively and BCR 2.9 & 1.69 respectively.

7 **Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques**

Feedback collected from the farmers through direct method. Farmers preferred Gauri variety with regard to gustatory indicators.

8 **Final recommendation for micro level situation**

Gauri var. is recommended for cultivation in High Ranges of Idukki district. It has crop duration of 5 months with an average yield of 5 t/ha, has excellent taste, good cooking quality.

9 **Constraints identified and feedback for research**

The varieties tried were of early maturing type (90 days) as recommended by CTCRI. In the High Range condition, it took 5 months for these varieties to mature.

10 **Process of farmer's participation and their reaction**

Farmers are interested in introducing high yielding varieties of sweet potato in their field.

8)

1 **Title of Technology Assessed**

Cost effectiveness of mail calves rearing with concentrate feeding as that of same method of rearing of heifer calves.

2 Problem Definition

Ignorance and improper management of male calves.

3 Details of technologies selected for assessment

Scientific way of optimal concentrate feeding with deworming practices for improvement of growth performance and body weight. For that to create awareness among farmers for rearing male calves.

4 Source of technology

KAU.

5 Production system and thematic area

Meat production.

6 Performance of the Technology with performance indicators

Sl. No.	Parameter	Control	Treated
1.	Body weight	70 Kg at 6 month	90 Kg at 6 month.

7 Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques

Nil.

8 Final recommendation for micro level situation

Scientific rational feeding of concentrate feeding with deworming medicines improves the growth performance and body weight.

9 Constraints identified and feedback for research

Lack of awareness, negligence and improper managerial practices.

10 Process of farmer's participation and their reaction

Farmers are thoroughly convinced about the effectiveness of male calves rearing with scientific feeding and deworming management practices.

4.D1. Results of Technologies Refined: Nil.**4.D.2. Details of each On Farm Trial for refinement to be furnished in the following format separately as per the proforma below****PART V - FRONTLINE DEMONSTRATIONS****5.A. Summary of FLDs implemented during 2009-10**

Sl. No.	Category	Farming Situation	Season and Year	Crop	Variety/breed	Hybrid	Thematic area	Technology Demonstrated	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
									Proposed	Actual	SC/ST	Others	Total	
	Oilseeds													
	Pulses													
	Cereals													
	Millets													
	Vegetables													
	Flowers													
	Ornamental													

	Fruit	Banana Monocropping in low lands	Rabi 2009	Banana	Nendran	-	Increasing productivity	Scientific nutrient management	1	1	0	5	5	-
			Rabi 2008					High density planting plants / pit)	0.32	0.32	0	5	5	-
		Monocropping ginger	Summer 2010	Ginger	Ellakkallan	-	IPDM	Integrated management of soft rot	1	1	0	5	5	-
		Pepper based cropping system.	Perennial crop	Pepper	Local	-	Farm mechanization	Mechanized White pepper production	-	-	0	20	20	-
	Spices and condiments	Cardamom based cropping system	Perennial crop	Cardamom	Njallani	-	Improving crop productivity.	Balanced fertilization with Zinc Sulphate spray @ 250g / 100 L water.	1	2	0	5	5	-
		Cardamom based cropping system	Perennial crop	Cardamom	Njallani	-	Improving crop productivity.	Application of Zn and B for improving production.	1.2	1.2	0	8	8	-
	Commercial													
	Medicinal and aromatic													
	Fodder													
	Plantation													
	Fibre													
	Dairy													
		Mixed farming	Throughout the year	Poultry	Local	-	Low meat production	Production of broiler chicken feeding with probiotics under homestead	25	20	-	20	20	Nil
	Poultry	Mixed farming	Throughout the year	Turkey	Broad breasted bronze	-	Low egg production	Production performance of broad breasted bronze variety of turkey under backyard system as influenced by source of food.	5	5	-	5	5	Nil
	Rabbitry													
	Pigerry													
	Sheep and goat													
	Duckery													
	Common carps													
	Mussels													
	Ornamental fishes													
	Oyster mushroom	Homestead mushroom cultivation	Rabi 2009	Mushroom	CO1 & Florida	-	Increase in crop productivity	CO1 & Florida var. of Oyster mushroom	NA	NA	0	5	5	-

5.B.4. Livestock

Type of livestock	Name of the technology demonstrated	Breed	No. of Demo	No. of Units	Yield (q/ha)				% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demo			Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					H	L	A										
Dairy																	
Poultry	Production of broiler chicken feeding with probiotics under homestead	Local	20	20	2.2 Kg	1.5 Kg	2.0 Kg	1.5 Kg	15	4200	15000	12000	2.85	3600	9000	7500	2.08
	Production performance of broad breasted bronze variety of turkey under backyard system as influenced by source of food.	Broad Breasted Bronze	5	5	120 Nos.	80 Nos.	100 Nos.	80 Nos.	10	1470	3500	3000	2.04	1470	2800	2400	1.63
Rabbitry																	
Piggery																	
Sheep and goat																	
Duckery																	
Others (pl. specify)																	

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

** BCR= GROSS RETURN/GROSS COST

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

5.B.5. Fisheries: Nil.

5.B.6. Other enterprises: Nil.

5.B.7. Farm implements and machinery

5.B.8. Cotton: Nil.

Technical Feedback on the demonstrated technologies on all crops / enterprise

S. No	Crop / Enterprise	Name of the technology demonstrated	Feed Back
1	Poultry	Improvement of egg production by commercial hybrid broad breasted bronze variety of turkey in backyard.	Very good result in egg production
2	Banana	High Density Planting (2 plants / pit)	Viable option to increase profitability
3	Oyster mushroom	CO1 & Florida varieties of Oyster mushroom	Good texture and high yielding

Farmers' reactions on specific technologies

Sl. No	Crop / Enterprise	Name of the technology demonstrated	Feed Back
1	Dairy calves	Scientific nutrient management in dairy calves	Farmers have expressed their willingness in adopting the technology.
2	Banana	High Density Planting (2 plants / pit)	Very economical and practical.
3	Mushroom	CO1 & Florida varieties of Oyster mushroom	High yielding and great market acceptability

Extension and Training activities under FLD

Sl. No.	Activity	No. of activities organised	Number of participants	Remarks
1	Field days	1	36	-
2	Farmers Training	2	73	-
3	Media coverage	7	-	-
4	Training for extension functionaries	9	298	-

PART VI – DEMONSTRATIONS ON CROP HYBRIDS : Nil.**PART VII. TRAINING****7.A. Farmers' Training including sponsored training programmes (On campus)**

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production										
Weed Management										
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/Irrigation										
Seed production										
Nursery management										
Integrated Crop Management	3	43	0	43	6	0	6	49	0	49
Soil and Water Conservation	1	1	22	23	0	2	2	1	24	25
Integrated Nutrient Management										
Production of organic inputs										
Others (pl.specify)										
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	1	4	0	4	6	0	6	10	0	10

Others (pl.specify)										
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit										
Management of young plants/orchards	1	25	0	25	0	0	0	25	0	25
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (pl.specify)										
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl.specify)										
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
f) Spices										
Production and Management technology	1	30	0	30	0	0	0	30	0	30
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	1	30	0	30	0	0	0	30	0	30
Integrated water management	1	1	22	23	0	2	2	1	24	25
Integrated nutrient management										
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops	1	5	0	5	0	0	0	5	0	5
Nutrient use efficiency	1	3	0	3	2	0	2	5	0	5

Balanced use of fertilizers										
Soil and water testing										
Others (pl.specify)										
Livestock Production and Management										
Dairy Management	2	16	19	35	0	0	0	16	19	35
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	1	1	10	11	0	0	0	1	10	11
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition	2	1	24	25	0	0	0	1	24	25
Women empowerment										
Location specific drudgery production	2	5	17	22	0	0	0	5	17	22
Rural Crafts	3	0	54	54	0	6	6	0	60	60
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										
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture										
Hatchery management and culture of freshwater prawn										
Breeding and culture of ornamental fishes										
Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
Others (pl.specify)										
Production of Inputs at site										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production										
Organic manures production										
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	3	6	37	43	4	3	7	10	40	50
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	24	171	205	376	18	13	31	189	218	407

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production										
Weed Management	1	17	0	17	0	0	0	17	0	17
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification	1	12	3	15	0	0	0	12	3	15
Integrated Farming										
Micro Irrigation/Irrigation										
Seed production										
Nursery management										
Integrated Crop Management	6	85	4	89	4	0	4	89	4	93
Soil and Water Conservation										
Integrated Nutrient Management	1	35	10	45	0	0	0	35	10	45
Production of organic inputs										
Others (Organic Farming)	1	20	6	26	9	0	9	29	6	35
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	1	5	0	5	0	0	0	5	0	5
Others (pl.specify)										
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit	1	8	0	8	0	0	0	8	0	8
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (pl.specify)										
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										

Others (pl.specify)										
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
f) Spices										
Production and Management technology										
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	1	45	15	60	5	3	8	50	18	68
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient use efficiency										
Balanced use of fertilizers	1	8	0	8	0	0	0	8	0	8
Soil and water testing										
Others (pl.specify)										
Livestock Production and Management										
Dairy Management	5	128	92	220	0	10	10	128	102	230
Poultry Management	1	14	9	23	3	1	4	17	10	27
Piggery Management										
Rabbit Management										
Animal Nutrition Management	1	8	28	36	0	0	0	8	28	36
Animal Disease Management										
Feed and Fodder technology	1	20	2	22	0	0	0	20	2	22
Production of quality animal products										
Others (pl.specify)										
Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	1	75	205	280	0	0	0	75	205	280
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	1	9	31	40	0	0	0	9	31	40
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition	5	12	44	56	0	0	0	12	44	56
Women empowerment										
Location specific drudgery production	1	0	9	9	0	0	0	0	9	9
Rural Crafts	2	0	52	52	0	10	10	0	62	62
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										
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture										
Hatchery management and culture of freshwater prawn										
Breeding and culture of ornamental fishes										
Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
Others (pl.specify)										

Production of Inputs at site										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production										
Organic manures production										
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	6	94	65	159	15	3	18	109	68	177
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	38	595	575	1170	36	27	50	631	602	1233

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture										

Mushroom Production	3	44	52	96	9	16	25	53	68	121
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition	3	25	43	68	4	6	10	29	49	78
Small scale processing	1	0	8	8	0	2	2	0	10	10
Post Harvest Technology	1	60	12	72	0	0	0	60	12	72
Tailoring and Stitching										
Rural Crafts	6	34	63	97	8	25	33	42	88	130
Production of quality animal products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production	1	16	17	33	2	9	11	18	26	44
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	15	179	195	374	23	58	60	202	253	455

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping										
Sericulture										

Repair and maintenance of farm machinery and implements										
Value addition	3	39	44	83	6	8	14	45	52	97
Small scale processing	1	22	14	36	3	6	9	25	20	45
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts	6	0	70	70	0	25	25	0	95	95
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	10	61	128	189	9	39	48	70	167	237

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops	1	6	14	20	0	0	0	6	14	20
Integrated Pest Management	1	20	6	26	9	0	9	29	6	35
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	1	23	13	36	3	5	8	26	18	44
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	1	18	20	38	7	6	13	25	26	51
Any other (pl.specify)										
Total	4	67	53	120	19	11	30	86	64	150

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Integrated Pest Management										
Integrated Nutrient management	1	12	0	12	3	0	3	12	3	15
Rejuvenation of old orchards										
Protected cultivation technology	2	23	0	23	7	2	9	30	2	32
Production and use of organic inputs	1	30	5	35	10	5	15	40	10	50
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	1	18	20	38	7	6	13	25	26	51
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Any other (pl.specify)										
Total	5	83	25	108	27	13	40	107	41	148

7.G. Sponsored training programmes

S.No.	Area of training	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
1	Crop production and management										
1.a.	Increasing production and productivity of crops	5	95	10	105	15	5	20	110	15	125
1.b.	Commercial production of vegetables	7	78	97	175	17	21	38	95	118	213
2	Production and value addition										
2.a.	Fruit Plants	2	57	13	70	3	2	5	60	15	75
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	1	23	0	23	7	0	7	30	0	30
6	Others (pl.specify)										
7	Post harvest technology and value addition										
7.a.	Processing and value addition	2	2	35	37	0	26	26	2	61	63
7.b.	Others (pl.specify)										
8	Farm machinery										
8.a.	Farm machinery, tools and implements										
8.b.	Others (pl.specify)										
9.	Livestock and fisheries										
10	Livestock production and management										
10.a.	Animal Nutrition Management										
10.b.	Animal Disease Management										
10.c.	Fisheries Nutrition										

10.d	Fisheries Management										
10.e	Others (pl.specify)										
11.	Home Science										
11.a.	Household nutritional security										
11.b.	Economic empowerment of women										
11.c.	Drudgery reduction of women	2	1	27	28	0	0	0	1	27	28
11.d.	Others (pl.specify)										
12	Agricultural Extension										
12.a.	Capacity Building and Group Dynamics										
12.b.	Others (Rural craft)	4	0	78	78	0	37	37	0	115	115
	Total	23	256	260	516	42	91	133	298	351	649

Details of sponsoring agencies involved

1. State Horticulture Mission.
2. Vegetable and Fruit Processing council of Kerala.
3. Department of Agriculture.
4. Gandhiji Study Centre.
5. ATMA.
6. Krishi Bhavan.
7. NSS Unit.
8. Coffee Board.
9. Block Panchayath.

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

S.No.	Area of training	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
1	Crop production and management										
1.a.	Commercial floriculture	2	2	12	14	0	2	2	2	14	16
1.b.	Commercial fruit production										
1.c.	Commercial vegetable production	1	2	3	5	0	3	3	2	6	8
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	1	0	9	9	0	0	0	0	9	9
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.	1	18	7	25	0	0	0	18	7	25
4.c.	Repair and maintenance of farm machinery and implements										
4.d.	Rural Crafts	8	0	126	126	0	53	53	0	179	179
4.e.	Seed production										
4.f.	Sericulture										
4.g.	Mushroom cultivation										
4.h.	Nursery, grafting etc.										
4.i.	Tailoring, stitching, embroidery, dying etc.	2	0	10	10	0	3	3	0	13	13
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	15	22	167	189	0	61	61	22	228	250

PART VIII – EXTENSION ACTIVITIES**Extension Programmes (including activities of FLD programmes)**

Nature of Extension Programme	No. of Programmes	No. of Participants (General)			No. of Participants SC / ST			No. of extension personnel		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	28	87	30	117	0	0	0	7	1	8
Kisan Mela										
Kisan Ghosthi										
Exhibition	2	1800	1500	3300	320	248	568	65	90	155
Film Show										
Method Demonstrations										
Farmers Seminar	7	304	172	476	82	209	291	12	0	12
Workshop										
Group meetings										
Lectures delivered as resource persons	1	206	42	248	0	0	0	0	0	0
Newspaper coverage	12	0	0	0	0	0	0	0	0	0
Radio talks	13	0	0	0	0	0	0	0	0	0
TV talks	1	0	0	0	0	0	0	0	0	0
Popular articles										
Extension Literature										
Advisory Services	102	83	21	104	0	0	0	3	8	11
Scientific visit to farmers field	8	13	0	13	1	0	1	0	0	0
Farmers visit to KVK	30	1009	467	1476	50	20	70	22	5	27
Diagnostic visits	17	34	10	44	0	0	0	0	0	0
Exposure visits	2	2	20	22	0	0	0	0	5	5
Ex-trainees Sammelan	2	0	35	35	0	8	8	0	0	0
Soil health Camp										
Animal Health Camp										
Agri mobile clinic										
Soil test campaigns										
Farm Science Club Conveners meet										
Self Help Group Conveners meetings										
Mahila Mandals Conveners meetings										
Celebration of important days (specify)	2	215	384	599	20	35	55	50	15	65
Any Other (Specify)										
Total	227	3753	2707	6434	473	520	993	159	124	283

PART IX – PRODUCTION OF SEED, PLANT AND LIVESTOCK MATERIALS**9.A. Production of seeds by the KVKs**

Crop category	Name of the crop	Variety	Hybrid	Quantity of seed (qtl)	Value (Rs)	Number of farmers to whom provided	
Cereals (crop wise)	Paddy	Uma	-	100.50 Kg	1005.00	15	
		Deepthi	-	24.29 Kg	510.00	2	
Oilseeds							
Pulses							
Commercial crops							
Vegetables	Brinjal	Haritha	-	23.80 Kg	160.50	30	
	Beetroot	-	-	10.6 Kg	106.00	10	
Flower crops	Ornamental Seeds	-	-	30 Nos.	360.00	10	
Spices	Cardamom	Njallani	-	2 Nos.	40.00	1	
		PV2	-	77 Nos.	1665.00	8	
	Pepper	Panniyoor-2	-	-	20 Nos.	104.00	2
		Panniyoor-4	-	-	75 Nos.	379.00	5

		Panniyoor-5	-	4 Nos.	24.00	1
		Panniyoor-6	-	1 Nos.	05.00	1
		Panniyoor-7	-	4 Nos.	22.00	1
		Malabar Excel	-	17 Nos.	96.00	5
		Pournami	-	10 Nos.	60.00	2
		IISR Shakti	-	21 Nos.	113.00	2
		IISR Thevam	-	53 Nos.	230.00	6
		Chengannoor	-	570 Nos.	1757.00	25
		Sreekara	-	10 Nos.	59.00	2
		Panchami	-	6 Nos.	35.00	2
		Karimunda	-	5693 Nos.	12745.00	120
		Girimunda	-	1 Nos.	05.00	1
		Subhakara	-	1 Nos.	05.00	1
	Pepper (Dry)	-	-	18 pkts.	450.00	18
	Cardamom (Dry)	-	-	108 pkts.	5325.00	108
	Vanilla (Dry)	-	-	1 pkt.	40.00	1
	Spice Kit	-	-	2 pkts.	180.00	2
	Cinnamon	-	-	35 pkts.	1000.00	35
	Tea Powder	-	-	43 pkts.	2942.00	43
Fodder crop seeds						
Fiber crops						
Forest Species						
Others	Vegetable seeds	-	-	1104 pkts.	6269.00	700
Others	Edible mushroom	CO1 & Florida	-	57.55 Kg	5755.00	150
Others	Cabbage	-	-	57 Kg	345.00	57
Others	Greens	-	-	3 bunches	20.00	3
Others	Sweet Potato	-	-	81.50 Kg	665.00	70
Others	Tomato	-	-	4 Kg	40.00	4
Others	Green Chilly	-	-	5.75 Kg	132.00	5
Others	Banana bunch	Robusta	-	139.75 Kg	1654.50	8
Others	Banana bunch	Palayamthodan	-	11 Kg	88.00	11
Others	Banana bunch	Njalipoovan	-	7.5 Kg	90.00	7
Others	Banana bunch	Nendran	-	390.85 Kg	7688.00	150
Others	Radish	-	-	4 Kg	28.00	4
Others	Orange	Local	-	23 pkts.	690.00	23
Others	Mushroom bed	CO1	-	43 pkts.	2150.00	43
Others	Papaya Jam	-	-	19 pkts	186.00	10
Others	Plantern Jam	-	-	17 pkts.	194.00	15
Others	Orange Squash	-	-	19 L	690.00	19
Others	Sip up	-	-	1276 Nos.	967.00	50
Others	Fruit Juice	-	-	74 Nos.	1384.00	70
Others	Pickle	-	-	24 pkts.	1530.00	24
Others	Wine	-	-	15 Nos.	1275.00	15
Others	Herbal mix	-	-	37 pkts.	1820.00	37
Others	Herbal soap	-	-	5 Nos.	300.00	5
Others	Honey	-	-	9 Kg	1350.00	9
Others	Detergent Powder	-	-	126 Kg	5795.50	120
Others	Cleaning lotion	-	-	784.5 L	17548.00	250
Others	Liquid soap	-	-	509.5 L	15942.00	500
Others	Bath soap kit	-	-	8 pkts.	450.00	8
Total					104468.50	2781

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						
Fruits						
Ornamental plants	Euphorbia	-	-	73 Nos.	4354.00	43
	Azalia	-	-	3 Nos.	150.00	3
	Dianthus	-	-	88 Nos.	1385.00	40
	Peperomia	-	-	1 No.	10.00	1
	Daisy	-	-	1 No.	10.00	1
	Coleus	-	-	7 Nos.	70.00	7
	Marigold	-	-	2 Nos.	20.00	2
	Balsom	-	-	2 Nos.	30.00	1
	Flox	-	-	14 Nos.	210.00	10
	Crotons	-	-	2 Nos.	22.00	1
	Bigonia	-	-	8 Nos.	110.00	4
	Portlaca	-	-	3 Nos.	35.00	3
	Anthurium	-	-	1 No.	40.00	1
	Dancing lady	-	-	1 No.	20.00	1
	Strawberry	-	-	2 Nos.	30.00	1
	Papaya	-	-	1 No.	05.00	1
	Brinjal	-	-	15 Nos.	07.50	2
	Jasmine	-	-	15 Nos.	15.00	2
	Ge.lotus	-	-	3 Nos.	190.00	1
	African Bindi	-	-	50 Nos.	250.00	10
Petunia	-	-	1 No.	15.00	1	
Geranium	-	-	1 No.	15.00	1	
Medicinal and Aromatic	Medicinal plant leaf	-	-	4 bunch	50.00	1
	Vettiver	-	-	5 pkts.	75.00	5
	Aloe vera	-	-	2 pkts.	20.00	2
	Stevia	-	-	2 pkts.	200.00	2
	Garcinia	-	-	15 pkts.	450.00	15
Plantation						
Spices						
Tuber	Tapioca	Sreejaya, Sreevijaya	-	1250 Nos.	2500.00	16
Fodder crop saplings						
Forest Species						
Others	Sweet Potato vines	Sree Varun	-	500 Nos.	2500.00	5
		Sree Arun	-	500 Nos.	2500.00	5
		Gauri	-	488 Nos.	2444.00	5
Total					17732.50	193

9.C. Production of Bio-Products

Bio Products	Name of the bio-product	Quantity (Kg)	Value (Rs.)	Number of farmers to whom provided
Bio Fertilizers	Azolla	22.50	1245.00	20
	Azolla culture	0.625	40.00	1
	Varm culture	67.00	4276.00	30
Bio-pesticide	Pseudomonas	272.75 L	22954.00	200
Bio-fungicide	-	-	-	-
Bio Agents	Trichoderma	35.00	4175.00	20

	Earthworm	10 Kg	5000.00	10
	Mushroom spawn	2340 pkts.	46950.00	500
Others (specify)				
Total			84640.00	781

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 (Poultry egg)	Gramasree	83	249.00	10
Layers				
Duals (broiler and layer)				
Japanese Quail	Quotronix Quotronix Japanica	1218	1416.00	112
Turkey				
Emu				
Ducks	Kuttanadan	25	100.00	10
Others (Pl. specify)				
Piggery				
Piglet				
Others (Pl. specify)				
Fisheries				
Fingerlings	Grass carp, Rohu & Katla	200	190.00	2
Others (Pl. specify)				
Total			1955.00	134

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.)

Date of start : December 2003.
 Periodicity : Half yearly.
 No. of copies distributed : 2000.

(B) Literature developed/published

Item	Title	Authors name	Number
Research papers	-	-	-
Technical reports	Front Line Demonstration on Scientific Rice cultivation.	Dr. Anina Susan Zachariah, Mr. Manoj Oommen, Mr. A. Murugesan, Mrs. Manju Thomas, Mrs. K. Valliammal	500 copies.
News letters	News Letter Bapooji Krishi Vigyan Kendra Vol-3 October 2009	-	5000 copies.
Technical bulletins	-	-	-
Popular articles	-	-	-
Extension literature	-	-	-
Evaluation Report	Evaluation Report on Women in Agriculture, [Scheme for Women in Primary Sector (SWIP) 2008-09].	Mr. Manoj Oommen, Dr. Anina Susan Zachariah	6 copies.

10.B. Details of Electronic Media Produced: Nil.**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).****1.) Women Entrepreneurship – A Success**

Mrs. Jaya Binu, Ambazhachalil, Rajakumary Panchayath in Idukki District is a D. Pharm passed and working in a medical shop is an example how woman can effectively utilize their talents and leisure time for income generation. She has attended 180 days long vocational training on different topics such as fabric designing, glass painting, ornaments making and homecare products preparations in our KVK. The topics that impressed her was the fabric designing and ornaments making. Motivated from the training, she started a unit and learn to make ornaments and fabrics to meet the modern trends of marketing. She has taken bulk orders from fancy stores, textiles and local markets. She has purchased the required raw materials in bulk and has employed a woman to work along with her. She does the main and finishing touches to herself and the rest of the work is done by the woman working with her. She purchases the raw materials in bulk at a cheaper rate and the work place is her own house. Therefore, the profit she gains is comparatively higher, on an average her profit per month is Rs.10,000/- over and above all the expenditure.

KVK Intervention

- 180 days vocational training.
- Motivation to start an enterprise.
- Details about availability of raw materials given.
- Follow up.
- Technical backup in running the unit as and when required.

Timeline showing the details

- Training attended from 12/09/2007 to 03/04/2009.
- Unit started on experimental basis – March 2009.
- Unit established on commercial basis – September 2009.
- Present status – Running successfully.

Impact

Motivated from the above mentioned Mrs. Jaya Binu's successful unit, around 10 rural women are going to start fabric designing and ornaments making on a commercial basis. Each member of this unit earns on an average of Rs.3000-3500 / month. In addition to this unit, they are planning to start a small fancy store with loan availing from nearby co-operative bank for self-sufficiency and self-employment. Also they generate employment opportunities for others.

2.) Vallappurathu Nursery – A Successful enterprise

Sri. K.O. Eldho, Vallappurathu, Senapathy aged 28, after completing his matriculation was in the look out for a job. He tried his luck in various small private firms as gate watcher, peon, salesman etc. He happened to attend a vocational training of 6 months duration on Nursery Management and Ornamental Gardening at KVK, which started on September-2009. He completed the training by February 2009. Under the technical guidance of KVK, he started a plant nursery by May 2009. He has been able to employ 3 of his fellow trainees in his nursery. He earns an average net income of Rs.3,500/- per month. It has been 5 months since the start of his enterprise. According to him, he is fully satisfied with his new venture as he now gets social acceptance, besides being able to earn a stable income. He owes his success to KVK and he still seeks the technical support and guidance of KVK through regular visits and over telephone.

3.) Amrutham – A model food processing enterprise by Rural Youth

A group of 5 rural youth with leadership of Mr. Vinodkumar attended "Preservation Training" conducted by KVK at Edamattom, Rajakumari village on 22nd June 2009. They were much motivated through the demonstration classes and underwent 5 more preservation training at their village level organized by KVK. Special emphasis was given for the preservation of locally available fruits. Technical advices to start an enterprise is given by KVK. The group started an enterprise on value added products in the month of July 2009. They named the group as "**Amrutham**" which is running very successfully in Kadukkacity.

KVK Intervention

- Identification of interested rural youth from the first training on preservation.
- Off campus trainings and preservation demonstrations for the group.
- Technical guidance.
- Motivation to start the unit.
- Regular follow up visits.

Technology

Locally available fruits and its preservation techniques were given to the group. The group make use of Jackfruits, Oranges, Passionfruits, Guava, lemon, pineapples, grapes etc. for preparing products. Squash, Jam, Jelly, sipups, Wine, Serbath etc. were the items prepared by them.

Impact

Horizontal spread.

The selected youths were from Vocational Higher Secondary School. The trainings were given for 44 persons. In school itself, unit started and almost all of them showed interest to bring locally available fruits for value addition. The sale of their products were made during a public meeting and covered through local channels.

Economic gains

Now “Amrutham” group earn an average profit of Rs.3,000/- per month.

4.) Food sufficiency through diversified farming – A case of a animal husbandry micro entrepreneur

Small landholders can be self-sustainable. This was proved by Sri. Kurian Mathai, Vayalar Nagar, Kochara P.O., Idukki district, a small farmer in Manthippara of Idukki district who started making a decent living from farming by increasing the diversity on the farms and integrating one into another.

Manthippara is a small town in Kochara village of Idukki district. Cultivation of spices is the major system of cultivation. The ill effects of extensive use of inputs was reflected in terms of high production cost, declining incomes and natural resource degradation. It strongly believed that low input farming or sustainable agriculture is the only and lasting option for sustainable livelihood of the poor and environment conservation. Sri. Kurian Mathai is one of the farmers, who benefited from KVK intervention. For last ten years, his family has been living in Idukki district. There are 4 members in his family. The family primarily depends on agriculture for its livelihood. He has one acre of land with adequate irrigation facility. He has been cultivating Cardamom, Pepper, Coffee, Banana and Fodder crops like CO₂, CO₃ and Lucerne. Due to low on farm employability, Sri. Kurian Mathai planned to start a Rabbit farm. The reason for starting a Rabbit farm is good demand for Rabbit meat in Idukki district. Under technical guidance and on campus training at KVK campus, he has started a rabbit farm and purchased the parent stock White giant and Soviet Chinchilla from Central Sheep and Wool Research Institute, Kodaikkanal.

KVK Intervention

- One week vocational training.
- Motivation to start an enterprise.
- Details about availability of raw materials given.
- Follow up.

Integrating practices and reaping benefits

Sri. Kurian Mathai along with other farmers in his village actively participated in KVK’s vocational training programmes. He has curiosity, which motivated him to participate in the planning process. He also started building up his understanding on various conceptual and technical aspects of farming. This renewed understanding helped him to take informed decisions. For example, having understood soil physiology, he started getting his soil tested in every season. He gradually incorporated and integrated various sustainable practices like Rabbit farm, Crop rotation and mixed cropping, fodder grass cultivation ie, CO₂, CO₃ and Lucerne, integration of leguminous crops, kitchen garden and vermicomposting using rabbit’s farm waste. Slowly he started producing eco-friendly inputs like Vermicompost and Biopesticides using locally available resources.

Impact

Today diversification is reflected on his farm through out the year. He cultivates crops of Cardamom, Pepper, Coffee, Banana, Vegetables along with Legumes and Fodder crops. And also he has a plan to start mushroom cultivation on experimental basis. Under animal husbandry, he started rabbit farm named **SPARK** with a breed of White Giant and soviet Chinchilla. Now he has 65 parent stocks. In this, 70 kids, 100 bunnies, 50 bucks and 15 does. He is selling **rabbit meat** @ Rs.150/kg and selling **a unit** @ Rs.3000/unit (A unit comprises 3 male and 7 female rabbits). He is also selling Vermicompost @ Rs.10/kg.

Utilization of organic manure and change in cropping pattern has resulted in remarkable improvement in soil fertility. Consumption of synthetic fertilizer and pesticides has considerably reduced. Changed cropping cycles and diversification has provided productive employment to all the members of the family. They are now continuously engaged in various activities throughout the year. For example, irrigation, manuring and pest management, harvesting, composting, selling produces in local market etc.

The adoption of these practices/interventions has not only ensured food security for the family through out the year, but also made nutritious food available to them. His domestic requirement of vegetables is fulfilled through his own farm production. Additional income is obtained from his farm ie, from rabbits.

Presently he is highly popular among farmers in the district. He is also selling his rabbits to other districts in Kerala. Other farmers in the village are very much impressed. Motivated by Sri. Kurian Mathai, they are making efforts in forms of adoption in modified agricultural practices. The farmers say that adoption of these practices has helped them to reduce cost of cultivation and earn higher net income. Farmers who are visiting him are motivated to adopt his ways of success. Thus, Sri. Kurian Mathai proved that small landholders can be self-sustainable by adopting integrated sustainable agricultural practices using local resources.

10.D. Give details of innovative methodology or innovative technology of Transfer of Technology developed and used during the year**10.E. Give details of indigenous technology practiced by the farmers in the KVK operational area which can be considered for technology development (in detail with suitable photographs)**

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK
1	Value added food products	The salt taste of the foodstuffs can be reduced by putting charcoal while cooking.	Charcoal absorbs salt taste. The quality of the food increased due to this.
2	Value addition of milk	While preparing curd, a piece of coconut to be added for getting thick curd.	Thick curd is preferred.
3	Food processing	For fermenting flours, instead of using yeast, cocoa pulp can be used.	Easy method for household fermentation.

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

- Identification of courses for farmers/farm women: Based on PRA.
- Rural Youth: Based on PRA.
- Inservice personnel: Based on demand.

10.G. Field activities

- i. Number of villages adopted: 2.
- ii. No. of farm families selected: 50.
- iii. No. of survey/PRA conducted: 3.

10.H. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab : Functioning.

1. Year of establishment : 2005-06.
2. List of equipments purchased with amount :

Sl. No	Name of the Equipment	Qty.	Cost
1.	LPG Cylinder	1	4600.00
2.	Water bath WDB-2 350'400'100mm 12 holes	1	4815.00
3.	Machinery for Homogenising (khan shaker) Model LKS2 platform size 75cmx43cmx10cm	1	20,880.00
4.	Rotary Shaker	1	16,200.00
5.	Machinery for drying (Hot air oven) with digital temperature control, size 455'455'455'	1	13,725.00
6.	Conductivity meter (PH meter Eutech 510)	1	21,935.00
7.	Genesis 20 visible Spectrophotometer meter	1	1,12,499.00
8.	CITIZEN Physical Balance Model CTL-600	1	8,991.00
9.	Micro processor based conductivity	1	13,500.00
10.	Micro Processor Based Flame Photometer with N, K & Ca FILTERS & Compressor	1	45,000.00
11.	Electronic Automatic KEL PLUS Micro processor Based Twelve Place Micro Block Digestion System	1	97,043.00
12.	Electronic Balance Model: CP 2245 Srl.No.18606016	1	1,00,000.00
13.	Hot plate	1	5,400.00
Total		12	4,64,588.00

Details of samples analyzed so far since establishment of SWTL :

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)
Soil Samples	384	206	55	16320
Water Samples				
Plant samples				
Manure samples				
Others (specify)				
Total	384	206	55	16320

Details of samples analyzed during the reporting period :

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized
Soil Samples	287	150	30	14290
Water Samples				
Plant samples				
Manure samples	1	1	1	50
Others (specify)				
Total	288	151	31	14340

PART XII IMPACT

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

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
Fabric designing	520	90	Nil	Rs.4000/month
Decorative & fancy articles	131	75	Nil	Rs.3500/month

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

11.B. Cases of large scale adoption**Popularization of Uma variety of Rice**

Front Line Demonstration on Uma variety of seeds in Paddy was demonstrated in 2008-09 in 4 Padasekharams of Idukki covering 50 ha area in the district, involving 147 farmers. The FLD was conducted in the second season of 2008-09, with the assistance of State Planning Board.

The demonstration was on Uma variety of seeds with yield potential as high as 10 t/ha. The demonstrated plots had recorded an yield of 6.67 t/ha for the demonstration. Impressed by the yield performance, 30% of the participating farmers have adopted the variety and cultivated it in the next season (Kharif 2009-10). 500 Kg of Uma seeds was sold to 30 farmers covering 5 ha area in the district.

A workshop of Rice farmers was organized at Rajakad village. 150 farmers, extension functionaries and scientists participated in the workshop. Plant breeders from KAU had much appreciated the efforts of the KVK-Idukki and the yield performance of Uma in high ranges.

11.C. Details of impact analysis of KVK activities carried out during the reporting period: Nil.**PART XII - LINKAGES****12.A. Functional linkage with different organizations**

Name of organization	Nature of linkage
Dept. of Agriculture, Govt. of Kerala	Joint diagnostic surveys, joint implementation, participation in meeting, Conducting training programmes etc. In service training of Agricultural Officers and Agri. Assistants, Scientists of KVK serves as resource persons for farmers training programmes organized by Agri. Dept.
Dept. of Animal husbandry, Govt. of Kerala	Animal husbandry camps, participation in meeting conducting training programmes etc.
Kerala Agricultural University	Collection of planting material of crops for the KVK nursery and supply of planting material on demand, Technical advice towards the planning and implementation of OFTs and FLDs
State Horticulture Mission	Small nursery, trainings, mushroom spawn production unit.
NABARD	Project formulation and submission.
Integrated Child Development Scheme (ICDS)	Organizing health, nutrition and childcare programmes participating in farm video programme, Radio talks etc. for extension workers of Social welfare Department.
All India Radio	Participating in farm video programmes, Radio talks announcement of training programmes and other activities of KVK.
Spices Board	Conducting training programmes in Agriculture and organizing spice clinics, Seminars, demonstration classes and field visits planting material for OFT programme were procured from spices Board Nursery.
ICRI, Myladumpara	Training programmes, Training materials, field visits, and technical consultation
Grama Panchayats of the District	Joint conduct of extension activities, participation in meetings and conducting training programmes. Women Cell of KVK imparted trg. programmes for SHG groups in collaboration with District Grama Panchayath. Technical staffs are members of various working groups to evaluate 10 th Five Year Plan.
Block Development Office, Nedumkandam, Devikulam	Training to Farmers and farmwomen.
Kerala Agri. University Regional Research Station	Technical Support for the implementation of various programme
National Literacy mission	Organizing farm information centres through Jana Vidhya Kendras
Planning Board	Conduct of OFT and FLD on Paddy.
Directorate of extension Govt. of India	Implementation of Central Sector Scheme of Agricultural extension through Voluntary organization
Cardamom Research Station, Pampadumpara	Technical consultancy supply of recently released Cardamom variety PV1 and PV2 to Germplasm collection of KVK and Field visit.
Principal Agricultural Office Idukki	Training Organizer of KVK as a member of District Nodal Agency of NWDPRRA under the Principal Agricultural Office, Idukki

Malayala Manorama	Conduct of Seminars contribution of Articles in Karshaka Sree a Agriculture magazine of Malayala Manorama
Dairy Development Department	Procurement of planting materials for Frontline Demonstration programme.
Grama Panchayath, Santhanpara	Trg. Organizer is the vice-Chairman of working Group on Agriculture as a part of Kerala Development programme conduct of trainings etc.
Society for Orientation and Rural Development	Conduct of Seminar in different parts of Idukki district
Kudumbasree	Trainings to Kudumbasree Members
Vocational Higher Secondary Education, Directorate	OJT to V.H.S.E. 2 nd year students and orientation courses to 1 st year students.
ATMA	Management Committee and governing board meeting. Preparation and conduct of OFT and FLD.
Malanadu Agricultural Development Bank	Long term on and off campus trainings for women groups are organized jointly
Directorate of Extension, Ministry of Agriculture, Govt. of India	Implementing agency for Central Sector Scheme on Agricultural extension.
STED, Gandhiji Study Centre	Trainings to Farmers and Farmwomen, Exhibition.
Schools	Agri / Farm clubs formation and trainings.

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.)
Front Line Demonstration on small scale mechanization in Paddy	December 2009	State Planning Board – Department of Agriculture	2,98,500.00

12.C. Details of linkage with ATMA

a) Is ATMA implemented in your district: **Yes.**

S. No.	Programme	Nature of linkage	Remarks
1	Front Line Demonstrations implemented through ATMA. 1) High density planting in Banana. 2) Integrated Pest Management in Banana. 3) Integrated Pest Management in Coconut.	FLD programmes are implemented by KVK through ATMA.	-
2	On Farm Trials / Front Line Demonstrations conducted by Department of Agriculture in different parts of Idukki district.	Technical consultation given for the formulation of On Farm Trials / Front Line Demonstrations being implemented in different places of the district in the year 2008-09.	-
3	General body, ATMA – Management Committee meeting, Block level Technical Team & Farmers Advisory Committee meetings in different Blocks of Idukki district.	Programme Coordinator and technical staff participates in these meeting regularly.	-
4	Training programmes: a. Scientific Crop Management in Banana. b. Soil fertility management. c. System of Rice Intensification. d. Integrated Pest and Disease Management in Paddy.	These trainings are organized by ATMA & KVK Staff were the technical experts for conducting the training.	-
5	District level Scientists – Farmers interface organized at Vattavada.	KVK Staff participated in the programme to address various problems of farmers.	-
6	Farmers Field School in Banana.	KVK conducted Farmers Field School in Banana under ATMA for the year 2009-10.	-

12.D. Details of programmes implemented in KVK under National Horticultural Mission

S. No.	Programme	Nature of linkage	Constraints if any
1	Small nursery in Pepper	Rs.3,00,000/- has been provided by SHM for setting up small nursery in Pepper.	-
2	Gardeners Training	Rs.13,52,500/- has been provided by SHM for the conduct of training and for strengthening infrastructure facilities like Mist chamber, Rain shelter and Potting shed cum store etc.	-
3	Farmers Training	Rs. 3,19,500/- has been provided by SHM for the conduct of 15 nos. of farmers training each of 2 days duration.	-
4	Spawn production unit	Rs.3,00,000/- has been provided by SHM for setting up a spawn production unit and for the renovation of the existing mushroom shed.	-

12.E. Nature of linkage with National Fisheries Development Board: Nil.**PART XIII- PERFORMANCE OF INFRASTRUCTURE IN KVK****13.A. Performance of demonstration units (other than instructional farm)**

Sl. No.	Demo Unit	Year of establishment	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Produce	Qty.	Cost of inputs	Gross income	
1	Mushroom unit	2002	10 m ²	Oyster mushroom var. CO1	Mushroom	57.55 Kg	1,000.00	5,755.00	-
2	Spawn production unit	2009	10 m ²	Var.CO1, CO2, Florida	Spawn	2340 pkts.	10,132.20	46,950.00	Funded by SHM
3	Mist chamber	2009	96 m ²	Sreekara Subhakara Panchami Pournami	Pepper vines	6486	7,000.00	15,639.00	Funded by SHM
4	Rain shelter	2009	50 m ²	-	Ornamental plants	294	2,500.00	6,993.50	Funded by SHM

13.B. Performance of instructional farm (Crops) including seed production: Nil.**13.C. Performance of production Units (bio-agents / bio pesticides/ bio fertilizers etc.,)**

Sl. No.	Name of the Product	Qty	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	
1	Azolla	23.125 Kg	245.00	1285.00	-
2	Varm culture	67.00 Kg	600.00	4276.00	-
3	Pseudomonas	272.75 Litre	9546.25	22954.00	-
4	Trichoderma	35.00 Kg	1225.00	4175.00	-
5	Earthworm	10.00 Kg	1000.00	5000.00	-
6	Mushroom spawn	2340 packets	10132.20	46950.00	-

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

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	
1	Poultry	Gramasree	Egg	83	150.00	249.00	-
2	Japanese quail	Quotronix Quotronix Japanica	Egg	1218	1000.00	1416.00	-
3	Duck	Kuttanad	Egg	25	75.00	100.00	-

13.E. Utilization of hostel facilities: Nil.

13.F. Database management

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

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	State Bank of Travancore	Kumily	2022	Chairman	57060837003	-	-
With KVK	State Bank of Travancore	Rajakumari	2018	Chairman & Programme Coordinator	57060836995	-	SBTR0000453
	District Cooperative Bank	Santhanpara	-	KVK Revolving Fund	3754	-	-

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

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

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

14.E. Utilization of KVK funds during the year 2009-10 (Rs. in lakh)

S. No.	Particulars	Sanctioned (in Lakhs)	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances	37.00	37.00	35,11,834.00
2	Traveling allowances	01.00	01.00	1,00,000.00
3	Contingencies			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	01.75	01.75	1,70,200.00
B	POL, repair of vehicles, tractor and equipments	01.20	01.20	1,20,000.00
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	00.95	00.95	95,000.00
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	00.80	00.80	80004.00
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	01.03	01.03	96,382.00
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	01.32	01.32	81,981.00
G	Training of extension functionaries	00.10	00.10	10,000.00
H	Maintenance of buildings	00.25	00.25	25,002.00
I	Establishment of Soil, Plant & Water Testing Laboratory	00.00	00.00	0.00
J	Library	00.10	00.10	10,071.00
K	Extension Activity	00.25	00.25	25,005.00
L	Farmers Field School	00.25	00.25	25,000.00
TOTAL (A)		46.00	46.00	43,50,479.00
B. Non-Recurring Contingencies				
1	Works	00.00	00.00	0.00
2	Equipments including SWTL & Furniture	01.00	01.00	1,00,000.00
3	Vehicle (Four wheeler/Two wheeler, please specify)	00.00	00.00	0.00
4	Library (Purchase of assets like books & journals)	00.00	00.00	0.00
TOTAL (B)		01.00	01.00	1,00,000.00
C. REVOLVING FUND		0.00	0.00	5,49,636.00
GRAND TOTAL (A+B+C)		47.00	47.00	50,00,115.00

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

Year	Opening balance as on 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st April of each year
April 2007 to March 2008	23,418.72	4,06,601.75	3,08,312.95	98,288.80
April 2008 to March 2009	68,825.50	7,78,157.00	3,84,963.90	3,93,193.10
April 2009 to March 2010	4,57,150.00	6,36,699.00	5,49,636.00	5,44,498.00

PART XV - OTHERS**I. MOBILE ADVISORY SERVICES**

No. of KVKs	No. of SMSs sent	No. of farmers benefited
Nil	Nil	Nil

II. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS

Number of KVKs organised Technology Week	Types of Activities	No. of Activities	Number of Participants	Related crop / livestock technology
26 th to 30 th October 2009	Gosthies	0	0	-
	Lectures organised	9	349	Crop-8 & Livestock-1
	Exhibition	2	349	Crop-2
	Film show	5	310	Crop-4 & Livestock-1
	Fair	0	0	-
	Farm Visit	5	349	Crop-5
	Diagnostic Practicals	0	0	-
	Distribution of Literature (No.)	-	-	-
	Distribution of Seed (q)	-	-	-
	Distribution of Planting materials (No.)	-	-	-
	Bio Product distribution (Kg)	-	-	-
	Bio Fertilizers (q)	-	-	-
	Distribution of fingerlings	-	-	-
	Distribution of Livestock specimen (No.)	-	-	-
Total number of farmers visited the technology week		20	349	-

III. INTERVENTIONS ON DROUGHT MITIGATION**A. Introduction of alternate crops/varieties: Nil.**

State	Crops/cultivars	Area (ha)	Number of beneficiaries

B. Major area coverage under alternate crops/varieties: Nil.

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

C. Farmers-scientists interaction on livestock management: **Nil.**

State	Livestock components	Number of interactions	No.of participants
Total			

D. Animal health camps organised: **Nil.**

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

E. Seed distribution in drought hit states: **Nil.**

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

F. Large scale adoption of resource conservation technologies: **Nil.**

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

G. Awareness campaign: **Nil.**

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