

ANNUAL REPORT OF BAPOOJI KRISHI VIGYAN KENDRA, IDUKKI FOR THE YEAR 2007-08

1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone		E mail	Web Address
Bapooji Krishi Vigyan Kendra, Santhanpara P.O., Idukki (Dt.), Pin-685 619, Kerala.	Office	FAX	kvksanathanpara@rediffmail.com	www.kvkidukki.org
	04868-247541 247673 247715	NIL		

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

Address	Telephone		E mail	Web Address
Bapooji Sevak Samaj, Kakkattu, Velloor P.O., Pampady, Kottayam (Dt.), Pin-686501, Kerala.	Office	FAX	kvksanathanpara@rediffmail.com	www.kvkidukki.org
	0481-2506844 +919495049213	NIL		

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Anina Susan Zachariah	04868 -302709	+919447741347	aninasz@yahoo.com

1.4. Year of sanction: 1994

1.5. Staff Position (as on 15th September 2008)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Highest Qualification (for PC, SMS and Prog. Asstt.)	Pay Scale with present basic	Date of joining	Permanent /Temporary	Category (SC/ST/OBC/Others)
1	Programme Coordinator	Dr. Anina Susan Zachariah	Programme Coordinator	Soil Science	Ph. D. in Soil Science	12000-375-18000 (12000)	11-04-2007	Permanent	Others
2	Subject Matter Specialist	Manoj Oommen	Subject Matter Specialist	Agronomy	M. Sc. (Ag) in Agronomy	8000-275-13500 (9650)	17-08-2001	Permanent	Others
3	Subject Matter Specialist	Dr. S. Jeyababu	Subject Matter Specialist	Animal Science	B.V. Sc. in Animal Husbandry	8000-275-13500 (11300)	19-06-1995	Permanent	Others
4	Subject Matter Specialist	Manju Thomas	Subject Matter Specialist	Horticulture	M. Sc. (Ag) in Horticulture	8000-275-13500 (9650)	17-08-2001	Permanent	Others

5	Subject Matter Specialist	A. Murugesan	Subject Matter Specialist	Plant Protection	M. Sc. (Ag) in Plant Protection	8000-275-13500 (8000)	20-04-2007	Permanent	OBC
6	Subject Matter Specialist	K. Valliammal	Subject Matter Specialist	Soil Science	M. Sc. (Ag) in Soil Science	8000-275-13500 (8000)	02-05-2007	Permanent	SC
7	Programme Assistant	Jayisy Joseph	Programme Assistant	Home Science	M. Sc. Home Science (Extension)	5500-175-9000 (7600)	20-06-1995	Permanent	Others
8	Programme Assistant	Rachel Skariakutty	Programme Assistant	Rural Craft	M.A. Sociology (P.G. Diploma in Rural Development)	5500-175-9000 (7600)	05-06-1995	Permanent	Others
9	Computer Programmer	Biju Narayanan	Programme Assistant	Computer Application	M.C.A.	5500-175-9000 (5500)	10-10-2007	Permanent	OBC
10	Accountant / Superintendent	Shaji. K. Kakkattu	Superintendent	-	-	5500-175-9000 (7600)	05-06-1995	Permanent	Others
11	Stenographer	Daisy Daniel	Clerk / Store keeper	-	-	3050-80-4590 (3950)	05-06-1995	Permanent	Others
12	Driver	P. Nandagopal	Driver	-	-	3050-80-4590 (3950)	05-06-1995	Permanent	OBC
13	Watchman	K.P. Venugopal	Watchman	-	-	2550-55-3200 (3200)	05-06-1995	Permanent	OBC
14	Supporting staff	K.O. Jose	F.F. Attendant	-	-	2550-55-3200 (3200)	05-06-1995	Permanent	Others
15	Supporting staff	P. Sabu	F.F. Attendant	-	-	2550-55-3200 (3200)	05-06-1995	Permanent	Others
16	Peon/ Messenger	K.T. Mathew	Peon/ Messenger	-	-	2550-55-3200 (3200)	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 sq. m	47,85,208.10			
2.	Farmers Hostel	NA	-	-	-	-	-	-
3.	Staff Quarters (6)	NA	-	-	-	-	-	-
4.	Demonstration Units (2)	NA	-	-	-	-	-	-
5	Fencing	NA	-	-	-	-	-	-
6	Rain Water harvesting system	NA	-	-	-	-	-	-
7	Threshing floor	NA	-	-	-	-	-	-
8	Farm godown	NA	-	-	-	-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tempo Trax	July - 1995	3,06,676.34	1,10,928	Vehicle in running condition
Motor Bike	January - 1995	37,972.78	7,420	In bad condition with poor fuel efficiency.

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
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
Public Address System	2003	26,755.00	Good
Power Generator	2003	32,492.00	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

1.8. A). Details SAC meeting* conducted in 2007-08

Sl.No.	Date	Number of Participants	Salient Recommendations	Action taken
1.	19-05-2008	25	1. Demonstration on honeybees and apiary should be included to augment income of farmers.	1) Farmer group organised. 2) Registered society formed under the name Cardamom Honey Development Society. 3) Trainings conducted in association with HortiCorp for their farmer group. 4) Bee hive colonies and other accessories for apiary are supplied from HortiCorp where KVK acted as an effective link. 5) Planning to apply for breedership of honeybees of <i>Apis arena indica</i> (Karinodian) in the district. 6) FLD on Apiary will be started.
2.			2. Submit schemes to NABARD.	1) Programme coordinator attended orientation workshop on different schemes of NABARD at Thiruvananthapuram. 2) Proposes to submit projects on Mobile Agri. Clinic, formation of farmer's interest group, strengthening of farmers club for infrastructure / other related factors.
3.			3. On Farm Testing proposals on location specific varieties in pepper may be tried.	OFT on location specificity of Pepper varieties – Panchami, Pournami, Panniyoor 1-5 varieties.
4.			4. KVK should come up with programmes for increasing production and productivity of Rice.	An amount of Rs.3,11,300/- received for implementation of Front Line Demonstration programme in the year 2008-09 on Integrated Nutrient and Post Management for improving yield and profitability in Rice. 2) One OFT programme – Management of Paddy Yellow Stem

				Borer, Three FLD programmes Viz; System Rice Intensification, Optimization of Nitrogen fertilization in Rice through LCC based INM approach and management of paddy blast caused by <i>Pyricularia oryzae</i> are conducted during the year 2007-08.
			5. Quality bio-control agents should be supplied by KVK.	Small scale units of <i>Trichoderma</i> and <i>Pseudomonas</i> are functioning at KVK require expansion.

*** Attach a copy of SAC proceedings along with list of participants**

2. 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.	Rubber monocrop
3.	Homestead based farming
4.	Tea plantation
5.	Cool season vegetables
6.	Dairying
7.	Banana cropping

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
1.	Clay mixed with hyso hyperthermic family of plinthitic haplo stults, occurring gently sloping to undulating foot slopes and mid lands of elevation below 100 metres below M.S.L.
2.	Clay mixed with hyperthermic family of tipic kandi humults occurring at high ranges 600-1200 metres above M.S.L. very deep, well drained silty clay to clay surface horizon followed by red to red clay sub soil.
3.	Fluvecentic eutropets deep coloured dark mountain soils occurring at rain shadow elevation above 1200 metre M.S.L. Dark grey brown silty clay loam to silty clay surface and black to dark reddish brown and very dark grayish brown. Silty clay to sandy clay sub-surface.

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

S. No	Crop	Area (ha)	Production (Qtl)	Productivity (Qtl /ha)
1.	Cardamom	32856	79310	2.414
2.	Pepper	82316	387870	4.712
3.	Rubber	38451	524410	13.638
4.	Tea	23702	329380	13.9
5.	Coconut	24274	87 million nuts (870,00,000)	3584.08

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

2.5. Weather data

Month	Rainfall (mm)	Temperature ° C		Relative Humidity (%)
		Maximum	Minimum	
Oct 2007	402.70	25.60	17.80	95
Nov 2007	101.80	25.50	17.00	91
Dec 2007	123.60	22.60	16.80	93
Jan 2008	-	25.15	15.16	90
Feb 2008	089.00	27.34	16.71	89
Mar 2008	149.50	26.05	17.59	89
Apr 2008	038.40	27.70	19.17	92
May 2008	026.80	28.13	18.90	90
Jun 2008	203.20	25.00	18.00	97
Jul 2008	330.79	25.00	18.00	97
Aug 2008	431.30	24.43	17.50	98
Sep 2008	-	-	-	-

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

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

Category	Population	Production	Productivity
Cattle			
<i>Crossbred</i>	334886	Milk – 4029(Lakh tone)	-
<i>Indigenous</i>	77500	-	-
Buffalo	10958	-	-
Sheep			
<i>Crossbred</i>	1100	-	-
<i>Indigenous</i>	1358	-	-
Goats	273408	Meat – 348.08 (000 tone)	-
Pigs	238422	-	-
<i>Crossbred</i>	220000	-	-
<i>Indigenous</i>	28422	-	-
Rabbits	68400	-	-
Poultry			
Hens	228550	Egg – 285.78 (Crore)	-
<i>Desi</i>	26000	-	-
<i>Improved</i>	290000	-	-
Ducks	60650	-	-
Turkey and others	130000	-	-

Category	Area	Production	Productivity
Fish	-	-	-
<i>Marine</i>	-	-	-
<i>Inland</i>	-	-	-
Prawn	-	-	-
Scampi	-	-	-
Shrimp	-	-	-

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

2.6 Details of Operational area / Villages

Sl. No.	Taluk	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1.	Peermedu	Azhutha	Peermedu Manjhumala Periyar Kumily Elappara Upputhara Vagaman Peruvamthana m Kokkayar	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.	Tea being grown in very big plantations requires very little intervention. Pest and diseases and imbalanced nutrition in cardamom. 1. Scarcity in green fodder. 2. Higher cost of Animal feed. 3. Poor growth rate in goats. 4. Stunted growth and higher mortality rate in calves, goat kids. 5. Lower production in birds. Lack of awareness about income generation activities especially for school dropouts which are more in number in this area. Surplus milk production in some villages. 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, maintenance of Soil fertility status in Cardamom tracts. Self-employment generation and increasing meat and egg production. Interior decoration items. Value addition in milk products. Empowering the SHGs and educating the women to solve their problems. Area specific alternative practices through educating the extension functionaries.

2.	Udumbanchola	1.) Kattappana 2.) Nedumkandam	Vandanmedu Anakkara Pampadumpara Kattappana Karunapuram Parathodu Senapathy Rajakumary Rajakkad	<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>Scarcity of drinking water,</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 deficiency. 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>Daily intake of fruits and vegetables is less in Idukki, when compared to other districts.</p>	<p>IPDM in cardamom</p> <p>Rain water harvesting</p> <p>Training on IPDM practices</p> <p>Soil testing and INM practices</p> <p>Hygienic measures in dairy management.</p> <p>De worming and supplementary mineral feeding.</p> <p>Improving performance of local goats by cross breeding.</p> <p>Importance and necessary of iodine element in animal feeds.</p> <p>Entrepreneurship development among SHG</p> <p>Empowering the SHGs and entrepreneurship programmes.</p> <p>Value addition of fruit crops, preservation of fruits.</p> <p>Popularizing the importance of fruits to the rural people (fruit therapy).</p> <p>Effective planning of nutritional gardening for households.</p>
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3.	Devikulam	1.) Adimali 2.) Devikulam	Bisonvalley Kunchithanny Pallivasal Vellathooval Mannankanda m Kanthaloor Marayoor Vattavada	<p>Crops: Cardamom. Pepper, coconut, vegetables, cocoa, ginger, tapioca, banana.</p> <p>Rice, wheat, potato, garlic, cool season vegetables.</p> <p>Pig, livestock products</p> <p>Paper carry bag making, screen printing, fabric painting and Book binding</p> <p>Fruit Preservation and snacks preparation unit</p> <p>Mushroom preservation</p>	<p>Water scarcity, pest and disease incidences in cardamom and pepper. Indiscriminate use of chemicals fertilizers and pesticides.</p> <p>Heavy infestation of pest and diseases in cool season crops, low rainfall areas.</p> <p>Lack of scientific knowledge on pig rearing.</p> <p>Lack of knowledge on livestock product preparation.</p> <p>Lack of awareness about income generation activities especially for school drop outs</p> <p>Income generating groups are very less in SHGs.</p> <p>Mushroom processing units are less in area.</p> <p>Unaware of labour saving devices.</p>	<p>Rainwater harvesting, IPDM in vegetables, cardamom and pepper, INM.</p> <p>Popularization of IPM, IDM and INM practices through campaigns and seminars. Rainwater harvesting.</p> <p>Scientific Piggery Management, value addition of Livestock products.</p> <p>Entrepreneurship development among SHGs.</p> <p>Entrepreneurship programme for empowerment of SHG groups.</p> <p>Value added products for increased shelf life.</p> <p>Work simplification measures and time management for women.</p>
4.	Thodupuzha	Elamdesa m	Arakkulam Kanjikkuzhi Vazhathoppu	<p>Crops: Pineapple, Rubber, coconut, vegetables, tapioca and ginger</p> <p>Pig, livestock products</p> <p>Value addition of fruits</p> <p>Toys making, bouquet making, emboss painting, Tanjore painting, sand painting and shadow work.</p>	<p>Scarcity of irrigation water, market fluctuation, lack of adequate credit facilities.</p> <p>Lack of scientific knowledge on pig rearing and livestock product preparation.</p> <p>Wastage of seasonal fruits.</p> <p>Lack of awareness about income generating activities especially for school drop out which are more in number in our district.</p>	<p>Rain water harvesting</p> <p>Swine production Value addition of livestock products</p> <p>Preservation and value addition of fruits</p> <p>Interior decoration items Entrepreneurship development among women SHGs.</p>

2.7 Priority thrust areas

S. No.	Thrust area
1.	I.N.M. and Integrated Pest and Disease Management in Pepper, Cardamom, Vanilla, Paddy, Banana and Vegetable.
2.	Crop diversification through intercropping.
3.	Integrated farming system.
4.	Better breeding management of livestock.
5.	Scientific management of livestock.
6.	Drudgery reduction for women.
7.	Entrepreneurship Development among S.H.G.s.
8.	Organic Agriculture.
9.	Employment generation for rural youth.
10.	Improvement of fodder resources availability.
11.	Introduction of improved varieties in Cardamom, Pepper, Tapioca and Ginger.
12.	Value addition of farm produce.
13.	Control of infertility problem in dairy animals.

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

OFT				FLD			
1				2			
Number of OFTs		Number of farmers		Number of FLDs		Number of farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
10	6	57	47	10	7	75	62

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
180	163	4000	4423	300	262	12910	13479

Seed Production (Qtl.)		Planting material (Nos.)	
5		6	
Target	Achievement	Target	Achievement
-	1.8 kg	2000	1076

3.B1. Abstract of interventions undertaken

S.	Thrust area	Crop/	Identified	Interventions
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No		Enterprise	Problem	Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Identifying crop Vars. Which are suitable under the agro climatic conditions of the high ranges of Idukki District	Oyster mushroom	Low yield & poor shelf life	Varietal trial on oyster mushroom	-	Mushroom cultivation Pest & disease mgmt. In mushroom beds	-	Farm Advisory Services, Visit to farmers field	Almost 2500 packets of Florida and CO1 varieties have been made available to over 150 farmers
		Brinjal	Low yield & heavy incidents of bacterial wilt.	-	Demonstration of high yielding brinjal variety Haritha	Scientific crop mgmt. Of brinjal		Seminar on scientific crop management in vegetables	1.8 kg vegetable seeds
2	Scientific nutrient Mgmt	Banana	Heavy incidence of sheath rot less profitability	Mgmt. Of sheath rot in banana through scientific nutrient mgmt	High Density planting in banana	Scientific nutrient mgmt in banana		Farm Advisory Services, Visit to farmers field	

3.B2 List of Technology Assessed during 2007-08

S. No	Thematic area	Name of the technology assessed	Area (ha.)	Number of trials	Remarks if any
1.	Goat	Oestrus synchronization and fertility in goats with frozen semen under field condition.	12	12	-
2.	Identifying crop Vars. Which are suitable under the agro climatic conditions of the high ranges of Idukki District	Varietal trial on oyster mushroom	NA	5	-
3	Improvement in productivity of Pepper	Rejuvenation of Pepper gardens using PGPR in vermicompost and bio-control agents.	0.25	5	-
	Total (wherever applicable)				

3.B3 List of Technology Refined during 2007-08

S. No	Thematic area	Name of the technology refined	Area (ha.)	Number of trials	Remarks if any
1	Scientific nutrient Mgmt	Mgmt. Of sheath rot in banana through scientific nutrient mgmt.	0.2	5	-
2	Home Science	Drudgery reduction of Farmwomen engaged in Cardamom fields through improvised Sickle (Machete) for trashing and improvised weeding knife for weeding.	2 ha	10	Hand drudgery reduced through the use of improvised implements.
	Total (wherever applicable)				

3.C Details of technology used during reporting period

S.No	Title of Technology	Crop/enterprise	Mode of use	No. of farmers covered
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			OFT	FLD	Training	Others (Specify)	Other farmers			SC / ST farmers		
							Male	Female	Total	Male	Female	Total
1	Introduction of procedures for tackling of prolonged calving interval by Prostaglandin	Dairy cattle	-	FLD	-	-	9	-	9	1	-	1
2	Oestrus synchronization and fertility in goats with frozen semen under field condition	Goat	OFT	-	-	-	9	-	9	-	3	3
3	Mgmt. Of sheath rot in banana through scientific nutrient mgmt	banana	OFT		Trg.	-	5	25	30	-	10	10
4	High Density planting in banana	banana		FLD	Trg.	-	5	25	30	-	10	10
5	Drudgery reduction of Farmwomen engaged in Cardamom fields through improvised Sickle (Machete) for trashing and improvised weeding knife for weeding.	Home Science	OFT	-	Trg. Given on drudgery reduction	-	-	7	7	-	3	3
6	Rejuvenation of Pepper gardens using PGPR and bio-control agents.	Pepper	OFT	-	Trg.	-	5	0	5	-	-	-

3.1 Achievements on technologies assessed and refined

A. Results of On Farm Trial

Crop/	Farming	Problem	Title of OFT	No.	Technology	Paramete	Data on the	Results of	Feedbac	Any	Justific
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enterprise	situation	definition		of trials	Assessed	rs of assessment	parameter	assessment	k from the farmer	refinement done	ation for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Goat	Goat farming is a major enterprise where infertility & abortion is a major problem resulting from unscientific managerial practices.	Infertility problem and lower conception rate.	Oestrus synchronization and fertility in goats with frozen semen under field condition.	12	I/M Inj. of 2 doses of 25 mg of PGF2 alpha at 11 days interval in cyclical repeat breeder goats. A.I. at 72 and 96 hours following 2 nd PGF2 alpha Inj.	1) % of conception rate. 2) Mgmt. 3) Additional income.	50% of conception rate. 15% increase in growth performance.	Highly effective and easy management.	Highly effective and easy management.	-	-
Oyster mushroom	Homestead mushroom cultivation	Low yield & poor shelf life	Varietal trial on oyster mushroom	5	Performance of Oyster mushroom Vars. CO1, CO2, Florida, Sajorcaju & P. Oeas under the agro climatic conditions of the high ranges of Idukki	Duration of spawn running stage Duration of cropping stage No. of days for 1 st harvest Av. Yield/bed	Given in the performance indicator	Varieties best suited for cultivation in the high ranges of Idukki are Florida & CO1	Florida & CO1 vars. Have white colour soft texture & high market acceptability	-	-
Home Science	Women work hard in the field for Cardamom operations.	Muscular problems of women engaged in Cardamom fields and poor work efficiency.	Drudgery reduction of farmwomen engaged in Cardamom fields through improvised Sickle (Machete) for trashing and improvised weeding knife for weeding.	10	Drudgery reduction of farmwomen engaged in Cardamom fields through improvised Sickle (Machete) for trashing and improvised weeding knife for weeding.	1) No. of plants trashed / day / person. 2) Drudgery as felt by farmwomen 3) Weight of the sickle 4) area covered under weeding / day / person	1) <u>Trashing</u> Ordinary sickle – 445 gm Improvised sickle – 276 gm. 2) <u>Weeding</u> Weeding knife – 395 gm. Machete – 325 gm. 3) <u>Trashing Existing practice</u> No. of plants trashed-25 <u>Refined practice</u> No. of plants trashed-40.	1) Reduces the physiological and muscular stress of work. 2) Enhances the work efficiency and health status. 3) More no. of plants has trashed / day.	The improvised sickle and weeding knife is very useful for farmers for trashing and weeding in cardamom field.	The improvised sickle has long handle to make it easy when compared to ordinary sickle which is short and thick handle. The weeding knife is slightly raised and tilted to avoid hitting stones and other obstacles.	1) Reduces the physiological and muscular stress of work. 2) Enhances the work efficiency and health status. 3) More no. of plants has been covered in trashing and weeding in cardamom fields.
Pepper	Pepper based cropping system	1) Poor soil health. 2) Low organic matter content of soil. 3) Heavy mortality of	Rejuvenation of Pepper gardens using PGPR in vermi composts and bio-control agents.	5	Combined application of Pseudomonas and Trichoderma with vermi compost.	pH of soil Organic carbon Yield Farmers	5.58 (Normal) (Mean) 3.4 (High) (Mean) Available phosphorus : 1.57 mg/ 100 g (High)	1) Soil nutrient status improved, thereby increasing soil health. 2) Disease intensity	Timely application of bio-control agents in boosting growth of Pepper vines with	-	-

		Pepper vines due to infestation of foot root disease.				reaction	(Mean) Available potassium: 9.94 mg/ 100 g (High) (Mean) Disease intensity reduced by 50%.	reduced by 50%.	reduction in intensity of wilt disease.		
Cardamom	Cardamom based cropping system	Incidents of root grubs, stunted plant growth, reduction in no. of tillers, reduction in panicle production, yield loss to the tune of 20%	Management of cardamom root grub (<i>Basilepta falvicorne</i>) using entomogenous fungus.	10	Grubs population in soil, yield data.	Application of <i>Beauveria bassiana</i> @ 3x10 ⁷ adult beetles during Aug-Sep. Drenching <i>Metarhizium anisopliae</i> @ 1x10 ⁸ in soil during Oct.	Avg. no. of grubs before treatment = 16.7. Avg. No. of grubs after treatment = 9.2	The entomogenous treated plot has got 43.65% control.	Cultural operations like weeding, pruning coupled with application of bio-agents would be helpful in managing the root grub.	-	-
Banana	Monocropping of banana in low lands under intensive management.	Heavy incidence of sheath rot. Less profitability	Management of sheath rot on banana through scientific nutrient management	5	Soil application of lime @ 250 g / plant and NPK application in 6 splits @ 190 :115:300 / plant	No. of hands – Avg. bunch weight Income / ha Increase in yield, Decrease in cost of cultivation. B:C Ratio	5.6 14.50 Kg Rs.543750 6250 Kg / ha Rs.10000/ ha 3.88	Correcting soil acidity through liming coupled with scientific nutrient management is effective towards the control of sheath rot in banana	Application of K ₂ SO ₄ has reduced crop duration by 15 days and prevented cracking of fingers. On an average bunch weight increased by 2.5 – 3 Kg.	2 sprays of 2% K ₂ SO ₄ at bunch emergence and half mature stage of bunches.	Application of K ₂ SO ₄ ensures easy availability of K for plants which in turn improves the bunch weight and reduces the crop duration.

Technology Assessed / Refined	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16
Technology option 1 (Farmer's practice)			
<u>Technology option 2</u> A) AI using semen collected from fast growing Indian breeds and exotic breeds of 50% by vaginal speculum method. Feeding newborn kids with concentrate feed.	Moderate performance in conception rate. 15 Kg / Unit.	-	1.71
<u>Technology option 3</u> B) Up gradation of local goats with fast growing high yielding exotic breed of (Boer) goat bucks. Feeding newborn kids with concentrate feed with vitamins and minerals.	50% performance in conception rate. 20-30 Kg / Unit	Rs.230 / Animal	2.60

***Field crops – kg/ha, * for horticultural crops – kg/t/ha, * milk and meat – litres or kg/animal, * for mushroom and vermi compost kg/unit area.**

**** Give details of the technology assessed**

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

1) Title of Technology Assessed / Refined

Oestrus synchronization and fertility in goats with frozen semen under field condition

2) Problem Definition

1. Poor conception rate.
2. Occurrence of immature kids or abortion.
3. Low milk and meat production.

3) Details of technologies selected for assessment/refinement

Intramuscular injection of 2 dozes of 25 mg of PGF2 alpha at 11 days interval in cyclical repeat breeder goats.

4) Source of technology

TANUVAS, Chennai and KAU, Mannuthy.

5) Production system and thematic area

Milk and meat production.

6) Performance of the Technology with performance indicators

Body weight gain, milk production and % of conception rate.

7) Final recommendation for micro level situation

Intramuscular injection of 2 dozes of 25 mg of PGF2 alpha at 11 days interval in cyclical repeat breeder goats. A.I. at 72 and 96 hours following 2nd PGF2 alpha injection.

8) Constraints identified and feedback for research

Negligence and improper managemental practices.

9) Process of farmers participation and their reaction

Farmers are very eagerly following the technology and using regularly.

Technology Assessed / Refined	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16
Technology option 1 (Farmer's practice)	4.5 kg/sq. ft	Rs. 450/ sq. ft	2.2
Technology option 2	9 kg/ sq. ft	Rs. 900/ sq. ft	4.5
Technology option 3			

1) Title of Technology Assessed / Refined

Varietal trial on Oyster Mushroom

2) Problem Definition

Low yield & poor shelf life

3) Details of technologies selected for assessment/refinement

Performance of Oyster mushroom Vars. CO1, CO2, Florida, Sajorcaju & P. Oeus under the agro climatic conditions of the high ranges of Idukki

4) Source of technology

KAU & TNAU

5) Production system and thematic area

Homestead mushroom cultivation so as to generate employment for rural women.

6) Performance of the Technology with performance indicators

Performance indicators	Performance				
	CO1	CO2	Florida	Sajorcaju	P.oeus
Duration of spawn running stage (days)	15	16	18	14	11
Duration of cropping stage (days)	50	70	60	55	60
No. of days for 1 st harvest	20	23	20	16	15
Av. Yield/ bed (kg)	8.91	6.9	9.0	7.65	4.59

7) Final recommendation for micro level situation

Oyster mushroom Vars. Florida & CO1 are best suited under the agro climatic conditions of the high ranges of Idukki.

8) Constraints identified and feedback for research

Nil.

9) Process of farmers participation and their reaction

Very good & cooperative.

Technology Assessed / Refined	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16
Technology option 1 (Farmer's practice) No liming, no specific doze for chemical fertilizers, excessive application.	29.125 tonnes / ha	Rs.436875 / ha	2.69
Technology option 2 Soil application of lime @ 250gm / plant + NPK application @ 190:115:300 gm / plant in 6 splits + 2 sprays of 2% K ₂ SO ₄	36.250 tonnes / ha	Rs.543750 / ha	3.88
Technology option 3	-	-	-

1) Title of Technology Assessed / Refined

Management of sheath rot in banana through scientific nutrient management.

2) Problem Definition

1. Heavy incidence of sheath rot.
2. Less profitability.

3) Details of technologies selected for assessment/refinement

Soil application of lime @ 250 gm / plant + NPK application @ 190:115:300 gm / plant in 6 splits+ 2 sprays of 2% K₂SO₄ at bunch emergence and half mature stage of bunches. .

4) Source of technology

KAU.

5) Production system and thematic area

Monocropping of banana in low lands under intensive management. Scientific nutrient management.

6) Performance of the Technology with performance indicators

	Control plot	Treated plot
No. of hands / bunch	5.42	5.7
Avg. bunch weight	11.65 kg	14.50 kg
B:C Ratio	2.69	3.88

7) Final recommendation for micro level situation

Soil application of lime @ 250 gm / pit + NPK application @ 190:115:300 gm / plant in 6 splits + 2 spray of 2% K₂SO₄ is effective towards the management of sheath rot and improving the bunch weight of Nendran banana..

8) Constraints identified and feedback for research

Nil.

9) Process of farmers participation and their reaction

Farmers have been very much cooperative and are thoroughly convinced about the technology being tried in their plots.

Technology Assessed / Refined	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16

Technology option 1 (Farmer's practice) Existing model of sickle weight is 445 gm. Handle is short and thick. Existing model of weeding knife weight is 395 gm and having ordinary sickle blade causing drudgery and hitting obstacles.	No. of plants trashed / day=25	-	-
Technology option 2 Improved sickle weight is 276 gm. It is light in weight, long handle to make it handy. Neck portion of the sickle is slightly raised with a tilt to avoid hitting stones and other obstacles. The Machete weight is 325 gm. Its handle is long and thin with more sharpness.	No. of plants trashed / day=40	-	-
Technology option 3			

1) Title of Technology Assessed / Refined

Drudgery reduction of farmwomen engaged in Cardamom fields through improvised Sickle (Machete) for trashing and improvised weeding knife for weeding.

2) Problem Definition

Muscular problems of women engaged in cardamom fields and poor work efficiency.

3) Details of technologies selected for assessment/refinement

Improved Sickle weight is 276 gm. It is light in weight, long handle to make it handy. The neck portion of the sickle is slightly raised with a tilt to avoid hitting stones and other obstacles. The Machete weight is 325 gm and its handle is long and thin with more sharpness.

4) Source of technology

Kelappaji College of Agricultural Engineering and Technology, Kerala Agricultural University, Thavanoor.

5) Production system and thematic area

- 1) Reduces the physiological and muscular stress of work.
- 2) Enhances the work efficiency and health status.
- 3) Ergonomically sound technology.

6) Performance of the Technology with performance indicators

- 1) No. of plants trashed / day / person.
- 2) Weight of the sickle.
- 3) Drudgery as felt by farmwomen.
- 4) Area covered under weeding / day / person.

7) Final recommendation for micro level situation

Improved sickle weight is 276 gm, it is light in weight, long handle to make it handy. The neck portion of the sickle is slightly raised with a tilt to avoid hitting stones and other obstacles. The machete weight is 325 gm and its handle is long and thin with more sharpness.

8) Constraints identified and feedback for research

Negligence and lack of awareness about drudgery reduction technologies. The improvised sickle and machete is very useful for farmers for trashing and weeding in cardamom fields.

9) Process of farmers participation and their reaction

Farmers are following the drudgery reduction technology and using it regularly.

Technology Assessed / Refined	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16

Technology option 1 (Farmer's practice) 1) Spray of Bordeaux Mixture 2) Application of FYM	1150 Kg / ha	Expenditure=50,800 Income=1,61,000 Net Income=1,10,200 /ha	3.00
<u>Technology option 2</u> 1) Spray of Pseudomonas and soil application of Trichoderma 2) Application of vermi compost 5 Kg / vine in two splits.	1337.50 Kg / ha	Expenditure=60,000 Income=1,87,250 Net Income=1,27,250 /ha	3.12
Technology option 3			

1) Title of Technology Assessed / Refined

On Farm Testing on rejuvenation of Pepper garden using PGPR in vermi composts and bio-control agents.

2) Problem Definition

Poor soil health resulting from low organic matter content of soil. Heavy mortality of pepper due to infestation of foot rot disease. Pepper plantations are often affected by this debilitating malady and rejuvenation of pepper plants and improvement of soil health is absolutely essential for saving the pepper plantations from recurring occurrence of the disease. Farmers prefer organic management of pepper plantations. Such a situation, the alternate practice of rejuvenating pepper gardens is highly needed.

3) Details of technologies selected for assessment/refinement

- 1) Spraying Pseudomonas and soil application of Trichoderma at the onset of SW monsoon as a prophylactic measure. Repeat application at the onset of North – East monsoon.
- 2) Application of vermicomposts 5 Kg along with 1 Kg Neem cake in two splits.
- 3) Mulching the pepper vines after manure application.

4) Source of technology

Kerala Agricultural University.

5) Production system and thematic area

Pepper based cropping system : OFT aims at improving productivity of Pepper gardens.

6) Performance of the Technology with performance indicators

Timely application of bio-control agents Trichoderma and Pseudomonas 2 times a year, along with application of 5 Kg vermi composts, 1 Kg Neem cake in 2 splits coupled with mulching and improve the soil health as indicated by soil test results conducted at soil testing lab at KVK. Disease intensity reduced by 50% in the trial plots proving the efficiency of bio-control agents if applied on timely basis.

7) Final recommendation for micro level situation

Soil application of vermi composts 5 Kg Neem cake 1Kg is effective in rejuvenating the pepper vine by improving soil health. Timely application (Pre & Post Monsoon) of bio-control agents Trichoderma as soil application and Pseudomonas spraying would effectively control the foot rot disease of Pepper vines.

8) Constraints identified and feedback for research

- 1) Bio-control agents may not be effective if disease intensity once set in.
- 2) Phorate, COC application may be required if slow wilt (Nematode fungal disease Complex) sets in for localized application on need basis.

9) Process of farmers participation and their reaction

Farmers were selected of the identified village after conducting a baseline survey. Rajakumary, the identified village is having a pepper based cropping system. Trials were conducted based on selected 5 farmers after a joint survey with Department of Agriculture.

3.2 Achievements of Frontline Demonstrations

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

List of technologies demonstrated during previous years and popularized during 2007-08 and recommended for large scale adoption in the district

S. No	Thematic Area*	Technology demonstrated	Details of popularization methods suggested to	Horizontal spread of technology
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			the Extension system	No. of villages	No. of farmers	Area in ha
1	Introduction of high yielding improved crop varieties.	PV2 variety of cardamom released from Cardamom Research Station, KAU.	Trainings, field visit etc.	12	300	10
2	IPDM	Management of pseudostem weevil in banana using tobacco powder.	Training, method demonstration etc.	4	60	5
3	Improvement of productivity in Rice	System Rice Intensification (SRI in Paddy 2006-07)	Take up demonstration programmes with the help of KVK if possible in the district.	2	15	3
4	Improvement of productivity in Rice	LCC based nutrient management in Paddy 2007-08	Training for extension functionaries, farmers from KVK	1	10	1
5	Improving fodder resources availability	FLD on CO3 grass for fodder resources improvement	Taking up demonstration in large areas	3	45	10

- b. Details of FLDs implemented during 2007-08 (Information is to be furnished in the following **three tables** for **each category** i.e. **cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops.**)

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	Cardamom	Low status Zn	Scientific nutrient management along with ZnSO ₄ spray	Summer 2008	2.0	2.0	-	10	10	Nil
2	Cardamom	Integrated disease management	Spraying of 1% BM and soil drenching of 0.25% COC before the South-West monsoon. Application of 2.5 Kg Trichoderma inoculated cow dung/ plant 30 days after application of copper fungicide.	Summer 2008	2	2	-	10	10	Nil
3	Banana	Maximizing the yield from unit area	High density in planting in banana.	Summer 2008	0.33	0.33	-	5	5	Nil
4	Brinjal	Introduction of high yielding improved crop varieties	High yielding bacterial wilt resistant. Brinjal var. Haritha	Summer 2008	1	1	-	5	5	Nil
5	Rice	Integrated	Optimization of	Rabi-	1	1	3	7	10	Nil

		Nutrient Management	Nitrogen application in Rice based on LCC	2007-08						
6	Fodder grass	Improving fodder resource availability	Introducing high yielding variety in foddergrass-Killikulam 1(KKM-1)	Kharif 2008	5	3	12	-	-	Difficulty in

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Cardamom	Summer 2008	RF	Laterite	Medium	High	High	Cardamom	-	-	-	-
Banana	Summer	Irrigated	Clay loam	Good	Good	Good	Bitter gourd	18-03-2008	Not yet harvested	-	-
Brinjal	Summer	Irrigated	Clay loam	Good	Good	Good	Bitter gourd	25-03-2008	28-06-2008	-	-
Rice	Rabi 2007-08	Paddy based monocropping system	Clay	Medium	High	High	Rice	Transplanting 1 st Week of Jan 2008	21-05-2008	-	-
Fodder grass	Kharif planted-Perennial fodder crop	RF	Loam	-	-	-	Fodder intercropped	18 th June 2008	-	-	-

Performance of FLD

Sl. No.	Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Qtl/ha*			Yield of local Check Qtl./ha	Increase in yield (%)	Data on parameter in relation to technology demonstrated	
						H	L	A			Demo	Local
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Cardamom	Scientific nutrient management along with ZnSO ₄ spray	Njllani	10	2.0	20	3	11.5	1.2	89	1) 89% yield 2) 10 numbers of emergence of new panicle	1) 50% yield 2) 5 numbers of emergence of new panicle
2	Cardamom	Spraying of 1% BM and soil drenching of 0.25% COC before the South-West	Njallani	10	2	11	3	7	1.65	76	Disease incidence before treatment = 6%.	30% disease incidence

		monsoon. Application of 2.5 Kg Trichoderma inoculated cow dung/ plant 30 days after application of copper fungicide.										Disease incidence after treatment = 3%.	32% disease incidence
3	Brinjal	Improved high yielding bacterial wilt resistant brinjal variety Haritha.	Haritha	5	1	20 qt /ha	18 qt /ha	19 qt /ha	15 qt /ha	26.6% (4 qt /ha)	No. of picking = 5 Yield / plant = 2 kg	No. of picking = 5 Yield / plant = 1.5 kg	
4	Paddy	Optimization of Nitrogen application in Rice based on LCC value	Kanchana	10	1	29	22	28.86	16.68	42.2	Tiller height = 117.8 cm Prod. Tillers = 18.6 cm Length of panicle = 19.2 cm Yield = 28.86 q/ha	Tiller height = 72.4 cm Prod. Tillers = 9.4 cm Length of panicle = 15.6 cm Yield = 16.68 q/ha	
5	Fodder grass (Demonstration in progress)	Introducing high variety in foddergrass- KKM1	KKM 1(Hybrid cumbu napier)	12	3	-	-	-	-	-	Crop reaches first harvest by Nov.2008 individual plant has 3 tillers per clump(mean) & 258 cm (mean for the highest tiller)	-	

* Capsule yield of three pickings only

NB: Attach few good action photographs with title at the back with pencil

Economic Impact (continuation of previous table)

Average Cost of cultivation (Rs./ha)		Average Gross Return (Rs./ha)		Average Net Return (Profit) (Rs./ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)
Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check	
14	15	16	17	18	19	20
This project is in progress	-	-	-	-	-	-
This project is in progress	-	-	-	-	-	-
25000	25000	95000	75000	70000	50000	3.8
20000	21060	46176	26688	-	-	2.31 (for demonstration) 1.27 (for local check)

Analytical Review of component demonstrations (details of each component for rainfed / irrigated situations to be given separately for each season).

Crop	Season	Component	Farming situation	Average yield (q/ha)	Local check (q/ha)	Percentage increase in productivity over local check
Brinjal	Summer	1. Seed/Variety	Low land cultivation under irrigated conditions	19 qt /ha	15 qt /ha	26.6
		2. Bio-fertilizer				
Paddy	Rabi 2008	3. Fertilizer management	Paddy based cropping system	28.86	16.68	42.2%
		4. Plant Protection				
		5. Combination of components (Please specify)				

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1	Brinjal var. Haritha – High yielding, long yielding period and input responsive.
2	LCC is effective in phasing out the Nitrogen fertilizer application, and for increased fertilizer use of efficiency.

Farmers' reactions on specific technologies

S. No	Feed Back
1	Brinjal var. Haritha – Highly suited to prevailing conditions.
2	1) Application of Nitrogen fertilizer based on LCC value coupled with balanced. Fertilization of phosphorous and potassium has given a higher yield for them over past 10 years. 2) Balanced fertilization may have attributed to lesser incidence of stem borer attack, which is a borer endemic area.

Extension and Training activities under FLD

Sl. No.	Activity	No. of activities organized	Date	Number of participants	Remarks
1	Field days	-			
2	Farmers Training	2	23.5.08, 22 nd & 23 July 2008	10, 25	
3	Media coverage	-			
4	Training for extension functionaries	-			

c. Details of FLD on Enterprises

(i) Farm Implements

Name of the implement	crop	No. of farmers	Area (ha)	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated		% change in the parameter	Remarks
					Demon.	Local check		

* Field efficiency, labour saving etc.

(ii) Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated		% change in the parameter	Remarks
					Demon.	Local check		
Dairy cattle	Crossbred Jersey	10	10	Body weight gain, milk production and % of conception rate	10	-	70%	Effective technology for control of repeat breeders.

*** Milk production, meat production, egg production, reduction in disease incidence etc.**

(iii) Other Enterprises

Enterprise	Variety/ breed/Species/others	No. of farmers	No. of Units	Performance parameters / indicators	Data on parameter in relation to technology demonstrated		% change in the parameter	Remarks
					Demon.	Local check		
Mushroom								
Apiary								
Sericulture								
Vermi compost								

3.3 Achievements on Training (Including the sponsored and FLD training programmes):**A. ON Campus**

Farmers and Farm Women

Date	Title of the training programme	Duration in days	Number of participants (General)			Number of SC/ST			Total number of participants		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
Jul-08	Cultivation of medicinal and aromatic plants	2	1	22	23	0	2	2	1	24	25
Jul-08	IPDM in cardamom	2	21	1	22	2	1	3	23	2	25
Jun-08	Organic farming	2	25	0	25	0	0	0	25	0	25
Jun-08	Bio-control agents preparation	1	3	0	3	0	0	0	3	0	3
May-08	Leadership development and SHG formation	1	4	0	4	0	0	0	4	0	4
May-08	SHG formation	1	8	2	10	0	0	0	8	2	10
May-08	Mushroom cultivation	2	11	12	23	0	2	2	13	14	27
May-08	INM & IPM in horti crops	2	25	0	25	0	0	0	25	0	25
Apr-08	Banana cultivation and value addition	1	0	30	30	0	10	10	10	40	50
Mar-08	Soil fertility management in cardamom	1	0	18	18	0	0	0	0	18	18
Mar-08	Nutrient management in cardamom	1	0	12	12	0	0	0	0	12	12
Mar-08	Soil sampling techniques	1	0	16	16	0	0	0	0	16	16
Mar-08	Fruit preservation and product from mushroom	1	0	17	17	0	0	0	0	17	17
Mar-08	Drudgery reduction	1	0	7	7	0	0	0	0	7	7

	techniques for cardamom workers, cardamom pickling										
Mar-08	Fruit preservation and sip up making	1	0	14	14	0	0	0	0	14	14
Mar-08	IPDM in cardamom	3	0	18	18	0	0	0	0	18	18
Mar-08	Pest management in organic farming	1	0	16	16	0	0	0	0	16	16
Mar-08	INM in cardamom	3	0	18	18	0	0	0	0	18	18
Mar-08	Vermi composting	1	0	16	16	0	0	0	0	16	16
Mar-08	Goat management	1	4	26	30	0	7	7	4	33	37
Mar-08	Dairy cattle management	1	4	26	30	0	7	7	4	33	37
Mar-08	Scientific dairy cattle management in all aspects	13	333	254	587	77	13	90	410	267	677
Feb-08	Preservation methods	1	1	19	20	0	20	20	1	39	40
Feb-08	Vegetable cultivation	1	0	7	7	0	30	30	0	37	37
Feb-08	Banana cultivation	1	0	7	7	0	30	30	0	37	37
Feb-08	IPDM in banana	1	0	7	7	0	30	30	0	37	37
Feb-08	Soil fertility management	1	0	7	7	0	30	30	0	37	37
Feb-08	Kitchen gardening	1	1	19	20	0	20	20	1	39	40
Feb-08	Organic pest and disease management	1	1	19	20	0	20	20	1	39	40
Feb-08	Fabric painting	8	0	3	3	0	0	0	0	3	3
Feb-08	Vermi composting	1	1	19	20	0	20	20	1	39	40
Feb-08	Mushroom cultivation	1	1	19	20	0	20	20	1	39	40
Jan-08	Bio fertilizers in organic farming	1	43	5	48	10	0	10	53	5	58
Jan-08	Bio pesticides and plant products in organic farming	1	43	5	48	10	0	10	53	5	58
Jan-08	Mushroom cultivation	1	0	6	6	0	0	0	0	6	6
Jan-08	Embroidery	2	0	3	3	0	0	0	0	3	3
Jan-08	Bee keeping	1	21	2	23	2	0	2	23	2	25
Jan-08	Soil sampling techniques	1	43	5	48	10	0	10	53	5	58
Dec-07	Jatropha cultivation	1	14	1	15	1	1	2	15	2	17
Nov-07	Mushroom cultivation	1	0	7	7	0	6	6	0	13	13
Nov-07	Mushroom cultivation	1	0	6	6	0	0	0	0	6	6
Nov-07	Drudgery reduction of farm women engaged in cardamom fields through improvised tools for trashing and weeding	1	0	5	5	0	5	5	0	5	5
Nov-07	Paper carry bag making	8	0	34	34	0	6	6	0	40	40
Oct-07	Washing soap and toilet soap making	1	2	1	3	0	0	0	2	1	3
Oct-07	Mushroom cultivation	1	1	5	6	0	0	0	1	5	6

Rural Youth

Date	Title of the training programme	Duration in days	Number of participants (General)			Number of SC/ST			Total number of participants		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
Aug-08	Vegetable paper models and wall hangings	1	7	9	16	0	4	4	7	13	20
Aug-08	Fabric painting	13	0	0	0	0	2	2	0	2	2

Aug-08	Vegetable printing	1	5	13	18	4	5	9	9	18	27
Aug-08	Fabric painting	1	5	13	18	4	5	9	9	18	27
Aug-08	Fruit processing	2	8	15	23	2	0	2	10	15	25
Jul-08	Mirror work	3	0	3	3	0	0	0	0	3	3
Jun-08	Medicinal plant cultivation	2	5	18	23	0	2	2	5	20	25
May-08	Embroidery	11	0	0	0	0	10	10	0	10	10
May-08	Applique work and vegetable model	5	0	0	0	0	4	4	0	4	4
Apr-08	Needle work	2	0	3	3	4	6	10	4	9	13
Apr-08	Fruit preservation	5	1	13	14	0	0	0	1	13	14
Mar-08	Embroidery	3	0	3	3	0	0	0	0	3	3
Mar-08	Fruit preservation	4	1	13	14	0	0	0	1	13	14
Mar-08	Fabric painting	6	0	8	8	0	2	2	0	8	8
Mar-08	Paper carry bag making	2	0	22	22	0	3	3	0	25	25
Jan-08	Banana fibre products	2	0	35	35	0	8	8	0	43	43
Jan-08	Fabric painting	3	0	3	3	0	0	0	0	3	3
Dec-07	Vegetable printing	1	4	4	8	9	10	19	13	14	27
Dec-07	Value addition of milk & fruit preservation	2	4	4	8	10	9	19	14	13	27
Dec-07	Vermi composting	1	15	12	27	3	2	5	18	14	32
Dec-07	Mushroom spawn production	1	6	9	15	7	4	11	13	13	26
Dec-07	Preparation of organic pesticides	1	14	12	26	0	0	0	14	12	26
Dec-07	Scientific rearing of dairy cattle, poultry and goatery management	1	1	2	3	13	11	24	14	13	27
Nov-07	Scientific rearing of dairy cattle, poultry, goatery, piggery management. Milk and meat products preparation	1	18	7	25	0	2	2	18	9	27
Nov-07	Scientific rearing of dairy cattle, poultry, goatery, piggery management. Milk and meat products preparation	1	19	27	46	0	0	0	19	27	46
Nov-07	Organic farming	1	15	8	23	0	0	0	15	8	23
Nov-07	Application of bio fertilizers in organic agriculture	1	15	8	23	0	0	0	15	8	23
Nov-07	Organic farming	1	10	15	25	0	0	0	10	15	25
Nov-07	Value added products with milk and fruits packing technology	1	13	12	25	0	0	0	13	12	25
Nov-07	Vegetable printing & fabric painting	1	9	14	23	0	3	3	9	17	26
Nov-07	Vegetable printing & fabric painting	1	8	16	24	0	1	1	8	17	25

Extension Personnel

Date	Title of the training programme	Duration in days	Number of participants (General)			Number of SC/ST			Total number of participants		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
Jun-08	Bouquet making	1	0	14	14	0	6	6	0	20	20
Mar-08	Muffler making	1	0	21	21	0	0	0	0	21	21
Jan-08	Recipes	1	0	22	22	0	0	0	0	22	22
Jan-08	Preservation techniques	1	0	13	13	0	4	4	0	17	17
Jan-08	Toilet soap making	1	0	14	14	0	3	3	0	17	17
Nov-07	Value addition of milk, preservation techniques- fruit salad, apple squash, sip up	1	0	20	20	0	0	0	0	20	20
Oct-07	Choco sip up demonstration class and packaging	1	0	22	22	0	0	0	0	22	22
Oct-07	Nutrition class and demonstration of chocolate sip up	1	0	13	13	0	4	4	0	17	17

A) OFF Campus

Farmers and Farm Women

Date	Title of the training programme	Duration in days	Number of participants (General)			Number of SC/ST			Total number of participants		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
Sep-08	Zardoshi work	1	0	12	12	0	3	3	0	15	15
Aug-08	Soil fertility management in organic farming	1	25	0	25	0	0	0	25	0	25
Aug-08	Organic farming in spice crops	1	25	0	25	0	0	0	25	0	25
Aug-08	Mushroom cultivation	1	10	7	17	0	0	0	10	7	17
Aug-08	Pest management in organic farming	2	50	0	50	0	0	0	50	0	50
Aug-08	Integrated pest management in banana and vegetables	1	50	10	60	0	0	0	50	10	60
Aug-08	IPDM in cardamom	1	48	0	48	0	0	0	48	0	48
Aug-08	Crop management in Rubber	1	17	2	19	0	0	0	17	2	19
Jul-08	Bee keeping	1	27	1	28	0	0	0	27	1	28
Jul-08	Glass painting	2	0	10	10	0	0	0	0	10	10
Jul-08	Zardoshi work	3	0	12	12	0	0	0	0	12	12
Jul-08	Fabric painting	4	0	21	21	0	2	2	0	23	23
Jul-08	Bouquet making	10	0	7	7	0	2	2	0	9	9
Jun-08	Mushroom cultivation	1	10	17	27	0	4	4	10	21	31
Jun-08	Glass painting	4	0	10	10	0	0	0	0	10	10
Jun-08	Zardoshi work	4	0	12	12	0	3	3	0	15	15
Jun-08	Fabric painting	4	0	12	12	0	0	0	0	12	12
May-08	Cardamom cultivation	1	75	0	75	0	0	0	75	0	75
Apr-08	Scientific pepper cultivation	1	17	5	22	0	0	0	17	5	22
Apr-08	Fabric painting	2	0	21	21	0	3	3	0	24	24
Mar-08	Mushroom cultivation	1	12	4	16	0	0	0	12	4	16

Mar-08	Fruit preservation and mushroom pickling	1	0	26	26	0	8	8	0	34	34
Mar-08	Fodder cultivation	1	0	20	20	0	0	0	0	20	20
Feb-08	Dairy cattle management	1	3	20	23	10	7	17	13	27	40
Feb-08	Fabric designing	1	0	11	11	0	1	1	0	12	12
Feb-08	Non chemical control of pest and diseases in vegetable	1	28	10	38	7	0	7	35	10	45
Feb-08	INM & IPM in fruits and vegetables	1	28	10	38	7	0	7	35	10	45
Jan-08	Pepper cultivation	1	50	5	55	10	0	10	60	5	65
Jan-08	Management of sigatoka leaf spot in banana	1	5	0	5	0	0	0	5	0	5
Jan-08	Mushroom cultivation	1	15	25	40	2	4	6	17	29	46
Jan-08	Use of pheromone trap in management of paddy stem borer	1	11	0	11	0	0	0	11	0	11
Jan-08	Fabric painting	3	0	12	12	0	0	0	0	12	12
Jan-08	Rabbit rearing	1	0	14	14	0	1	1	0	15	15
Jan-08	Dairy cattle management	1	0	12	12	0	3	3	0	15	15
Jan-08	Goat management	1	0	10	10	0	6	6	0	16	16
Jan-08	Use of LCC in nutrient management in rice	1	11	0	11	0	0	0	11	0	11
Dec-07	INM in rice	1	9	1	10	2	0	2	9	3	12
Dec-07	Soil sampling techniques	1	20	5	25	0	0	0	20	5	25
Dec-07	Soil sampling techniques	1	25	0	25	0	0	0	25	0	25
Dec-07	SRI techniques in rice	1	9	1	10	2	0	2	11	1	12
Dec-07	Seed treatment in rice	1	9	2	11	0	0	0	9	2	11
Nov-07	INM in rice	1	9	2	11	0	0	0	9	2	11
Nov-07	Scientific nutrient management in banana	1	5	0	5	0	0	0	5	0	5
Nov-07	Pest and disease management in mushroom	1	12	16	28	2	4	6	14	20	34
Nov-07	Vermi composting	1	12	16	28	2	4	6	14	20	34
Nov-07	Food preservation	5	0	22	22	0	0	0	0	22	22
Nov-07	Soap making	1	0	12	12	0	0	0	0	12	12
Nov-07	Fabric painting	2	0	10	10	0	2	2	0	12	12
Nov-07	Fabric designing	2	0	9	9	0	0	0	0	9	9
Oct-07	Pest and disease management in potato	1	17	2	19	0	0	0	17	2	19
Oct-07	Potato cultivation	1	17	2	19	0	0	0	17	2	19
Oct-07	Control of infertility problems in dairy animals	1	28	2	30	3	0	3	31	2	33
Oct-07	Dairy cattle management & control of parasite infestation	1	25	13	38	2	0	2	27	15	42

Rural Youth

Date	Title of the training programme	Duration in days	Number of participants (General)			Number of SC/ST			Total number of participants		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
Sep-08	Fabric printing	2	0	26	26	0	4	4	0	30	30
Aug-08	Value addition of fruits	2	2	26	28	0	0	0	2	26	28
Aug-08	Zardoshi work	2	0	0	0	0	22	22	0	22	22
Aug-08	Fabric painting	2	0	0	0	0	9	9	0	9	9
Jun-08	Fabric painting	5	0	7	7	0	3	3	0	10	10
May-08	Fabric painting	10	0	17	17	0	4	4	0	21	21
May-08	Paper carry bag making	2	0	12	12	0	2	2	0	14	14
May-08	Fabric painting	2	0	11	11	0	3	3	0	14	14
Apr-08	Fabric painting	10	0	17	17	0	4	4	0	21	21
Apr-08	Bouquet making	3	0	13	13	0	2	2	0	15	15
Apr-08	Paper carry bag making	1	0	18	18	0	4	4	0	22	22
Mar-08	Zardoshi work	2	0	10	10	0	1	1	0	11	11
Feb-08	Fabric designing	4	0	12	12	0	0	0	0	12	12
Feb-08	Screen printing	2	0	22	22	0	9	9	0	31	31
Feb-08	Fabric designing	2	0	10	10	0	2	2	0	12	12
Feb-08	Organic farming	1	0	0	0	30	20	50	30	20	50
Jan-08	Fabric painting	3	0	13	13	0	2	2	0	15	15
Jan-08	Fabric painting	2	0	9	9	0	1	1	0	10	10
Dec-07	Fabric painting	2	0	10	10	0	0	0	0	10	10
Dec-07	Fabric painting	3	0	13	13	0	0	0	0	13	13
Dec-07	Fabric painting	3	0	9	9	0	2	2	0	11	11
Dec-07	Control of infertility problem in dairy animals	1	12	9	21	7	0	7	19	9	28
Nov-07	Paper carry bag making	2	0	32	32	0	8	8	0	40	40
Nov-07	Fabric designing	3	0	8	8	0	2	2	0	10	10
Oct-07	Fabric painting	2	0	10	10	0	2	2	0	12	12
Oct-07	Fabric painting	2	0	16	16	0	0	0	0	16	16
Oct-07	Fabric painting	2	0	9	9	0	2	2	0	11	11
Oct-07	Toilet soap making	1	0	11	11	0	2	2	0	13	13

Extension Personnel

Date	Title of the training programme	Duration in days	Number of participants (General)			Number of SC/ST			Total number of participants		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
Mar-08	PRA techniques	1	10	8	18	0	0	0	10	8	18
Oct-07	Composting	1	15	5	20	0	0	0	15	5	20
Oct-07	Bio fertilizers	1	15	5	20	0	0	0	15	5	20
Sep-07	Bio fertilizers	1	15	3	18	0	0	0	15	3	18

C) Consolidated table (ON and OFF Campus)

Farmers and Farm Women

Date	Title of the training programme	Duration in days	Number of participants (General)			Number of SC/ST			Total number of participants		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
Jul-08	Cultivation of medicinal and aromatic plants	2	1	22	23	0	2	2	1	24	25
Jul-08	IPDM in cardamom	2	21	1	22	2	1	3	23	2	25
Jun-08	Organic farming	2	25	0	25	0	0	0	25	0	25
Jun-08	Bio-control agents preparation	1	3	0	3	0	0	0	3	0	3
May-08	Leadership development and SHG formation	1	4	0	4	0	0	0	4	0	4
May-08	SHG formation	1	8	2	10	0	0	0	8	2	10
May-08	Mushroom cultivation	2	11	12	23	0	2	2	11	14	25
May-08	INM & IPM in horti crops	2	25	0	25	0	0	0	25	0	25

Apr-08	Banana cultivation and value addition	1	0	30	30	0	10	10	0	40	40
Mar-08	Soil fertility management in cardamom	1	0	18	18	0	0	0	0	18	18
Mar-08	Nutrient management in cardamom	1	0	12	12	0	0	0	0	12	12
Mar-08	Soil sampling techniques	1	0	16	16	0	0	0	0	16	16
Mar-08	Fruit preservation and product from mushroom	1	0	17	17	0	0	0	0	17	17
Mar-08	Drudgery reduction techniques for cardamom workers, cardamom pickling	1	0	7	7	0	0	0	0	7	7
Mar-08	Fruit preservation and sip up making	1	0	14	14	0	0	0	0	14	14
Mar-08	IPDM in cardamom	3	0	18	18	0	0	0	0	18	18
Mar-08	Pest management in organic farming	1	0	16	16	0	0	0	0	16	16
Mar-08	INM in cardamom	3	0	18	18	0	0	0	0	18	18
Mar-08	Vermi composting	1	0	16	16	0	0	0	0	16	16
Mar-08	Goat management	1	4	26	30	0	7	7	4	33	37
Mar-08	Dairy cattle management	1	4	26	30	0	7	7	4	33	37
Mar-08	Scientific dairy cattle management in all aspects	13	333	254	587	77	13	90	410	267	677
Feb-08	Preservation methods	1	1	19	20	0	20	20	1	39	40
Feb-08	Vegetable cultivation	1	0	7	7	0	30	30	0	37	37
Feb-08	Banana cultivation	1	0	7	7	0	30	30	0	37	37
Feb-08	IPDM in banana	1	0	7	7	0	30	30	0	37	37
Feb-08	Soil fertility management	1	0	7	7	0	30	30	0	37	37
Feb-08	Kitchen gardening	1	1	19	20	0	20	20	1	39	40
Feb-08	Organic pest and disease management	1	1	19	20	0	20	20	1	39	40
Feb-08	Fabric painting	8	0	3	3	0	0	0	0	3	3
Feb-08	Vermi composting	1	1	19	20	0	20	20	1	39	40
Feb-08	Mushroom cultivation	1	1	19	20	0	20	20	1	39	40
Jan-08	Bio fertilizers in organic farming	1	43	5	48	10	0	10	53	5	58
Jan-08	Bio pesticides and plant products in organic farming	1	43	5	48	10	0	10	53	5	58
Jan-08	Mushroom cultivation	1	0	6	6	0	0	0	0	6	6
Jan-08	Embroidery	2	0	3	3	0	0	0	0	3	3
Jan-08	Bee keeping	1	21	2	23	2	0	2	23	2	25
Jan-08	Soil sampling techniques	1	43	5	48	10	0	10	53	5	58
Dec-07	Jatropha cultivation	1	14	1	15	1	1	2	15	2	17
Nov-07	Mushroom cultivation	1	0	7	7	0	6	6	0	13	13
Nov-07	Mushroom cultivation	1	0	6	6	0	0	0	0	6	6
Nov-07	Drudgery reduction of farm women engaged in cardamom fields through improvised tools for trashing and weeding	1	0	5	5	0	5	5	0	10	10
Nov-07	Paper carry bag making	8	0	34	34	0	6	6	0	40	40
Oct-07	Washing soap and toilet soap making	1	2	1	3	0	0	0	2	1	3
Oct-07	Mushroom cultivation	1	1	5	6	0	0	0	1	5	6
Aug-08	Soil fertility	1	25	0	25	0	0	0	25	0	25

	management in organic farming										
Aug-08	Organic farming in spice crops	1	25	0	25	0	0	0	25	0	25
Aug-08	Mushroom cultivation	1	10	7	17	0	0	0	10	7	17
Aug-08	Pest management in organic farming	2	50	0	50	0	0	0	50	0	50
Aug-08	Integrated pest management in banana and vegetables	1	50	10	60	0	0	0	50	10	60
Aug-08	IPDM in cardamom	1	48	0	48	0	0	0	48	0	48
Aug-08	Crop management in Rubber	1	17	2	19	0	0	0	17	2	19
Jul-08	Bee keeping	1	27	1	28	0	0	0	27	1	28
Jul-08	Glass painting	2	0	10	10	0	0	0	0	10	10
Jul-08	Zardoshi work	3	0	12	12	0	0	0	0	12	12
Jul-08	Fabric painting	4	0	21	21	0	2	2	0	23	23
Jul-08	Bouquet making	10	0	7	7	0	2	2	0	9	9
Jun-08	Mushroom cultivation	1	10	17	27	0	4	4	10	21	31
Jun-08	Glass painting	4	0	10	10	0	0	0	0	10	10
Jun-08	Zardoshi work	4	0	12	12	0	3	3	0	15	15
Jun-08	Fabric painting	4	0	12	12	0	0	0	0	12	12
May-08	Cardamom cultivation	1	75	0	75	0	0	0	75	0	75
Apr-08	Scientific pepper cultivation	1	17	5	22	0	0	0	17	5	22
Apr-08	Fabric painting	2	0	21	21	0	3	3	0	24	24
Mar-08	Mushroom cultivation	1	12	4	16	0	0	0	12	4	16
Mar-08	Fruit preservation and mushroom pickling	1	0	26	26	0	8	8	0	34	34
Mar-08	Fodder cultivation	1	0	20	20	0	0	0	0	20	20
Feb-08	Dairy cattle management	1	3	20	23	10	7	17	13	27	40
Feb-08	Fabric designing	1	0	11	11	0	1	1	0	12	12
Feb-08	Non chemical control of pest and diseases in vegetable	1	28	10	38	7	0	7	35	10	45
Feb-08	INM & IPM in fruits and vegetables	1	28	10	38	7	0	7	35	10	45
Jan-08	Pepper cultivation	1	50	5	55	10	0	10	60	5	65
Jan-08	Management of sigatoka leaf spot in banana	1	5	0	5	0	0	0	5	0	5
Jan-08	Mushroom cultivation	1	15	25	40	2	4	6	17	29	46
Jan-08	Use of pheromone trap in management of paddy stem borer	1	11	0	11	0	0	0	11	0	11
Jan-08	Fabric painting	3	0	12	12	0	0	0	0	12	12
Jan-08	Rabbit rearing	1	0	14	14	0	1	1	0	15	15
Jan-08	Dairy cattle management	1	0	12	12	0	3	3	0	15	15
Jan-08	Goat management	1	0	10	10	0	6	6	0	16	16
Jan-08	Use of LCC in nutrient management in rice	1	11	0	11	0	0	0	11	0	11
Dec-07	INM in rice	1	9	1	10	2	0	2	11	1	12
Dec-07	Soil sampling techniques	1	20	5	25	0	0	0	20	5	25
Dec-07	Soil sampling techniques	1	25	0	25	0	0	0	25	0	25
Dec-07	SRI techniques in rice	1	9	1	10	2	0	2	11	1	12
Dec-07	Seed treatment in rice	1	9	2	11	0	0	0	9	2	11
Nov-07	INM in rice	1	9	2	11	0	0	0	9	2	11
Nov-07	Scientific nutrient management in banana	1	5	0	5	0	0	0	5	0	5
Nov-07	Pest and disease	1	12	16	28	2	4	6	14	20	34

	management in mushroom										
Nov-07	Vermi composting	1	12	16	28	2	4	6	14	20	34
Nov-07	Food preservation	5	0	22	22	0	0	0	0	22	22
Nov-07	Soap making	1	0	12	12	0	0	0	0	12	12
Nov-07	Fabric painting	2	0	10	10	0	2	2	0	12	12
Nov-07	Fabric designing	2	0	9	9	0	0	0	0	9	9
Oct-07	Pest and disease management in potato	1	17	2	19	0	0	0	17	2	19
Oct-07	Potato cultivation	1	17	2	19	0	0	0	17	2	19
Oct-07	Control of infertility problems in dairy animals	1	28	2	30	3	0	3	31	2	33
Oct-07	Dairy cattle management & control of parasite infestation	1	25	13	38	2	0	2	27	13	40

Rural Youth

Date	Title of the training programme	Duration in days	Number of participants (General)			Number of SC/ST			Total number of participants		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
Aug-08	Vegetable paper models and wall hangings	1	7	9	16	0	4	4	7	13	20
Aug-08	Fabric painting	13	0	0	0	0	2	2	0	2	2
Aug-08	Vegetable printing	1	5	13	18	4	5	9	9	18	27
Aug-08	Fabric painting	1	5	13	18	4	5	9	9	18	27
Aug-08	Fruit processing	2	8	15	23	2	0	2	10	15	25
Jul-08	Mirror work	3	0	3	3	0	0	0	0	3	3
Jun-08	Medicinal plant cultivation	2	5	18	23	0	2	2	5	20	25
May-08	Embroidery	11	0	0	0	0	10	10	0	10	10
May-08	Applique work and vegetable model	5	0	0	0	0	4	4	0	4	4
Apr-08	Needle work	2	0	3	3	4	6	10	4	9	13
Apr-08	Fruit preservation	5	1	13	14	0	0	0	1	13	14
Mar-08	Embroidery	3	0	3	3	0	0	0	0	3	3
Mar-08	Fruit preservation	4	1	13	14	0	0	0	1	13	14
Mar-08	Fabric painting	6	0	8	8	0	2	2	0	10	10
Mar-08	Paper carry bag making	2	0	22	22	0	3	3	0	25	25
Jan-08	Banana fibre products	2	0	35	35	0	8	8	0	43	43
Jan-08	Fabric painting	3	0	3	3	0	0	0	0	3	3
Dec-07	Vegetable printing	1	4	4	8	9	10	19	13	14	27
Dec-07	Value addition of milk & fruit preservation	2	4	4	8	10	9	19	14	13	27
Dec-07	Vermi composting	1	15	12	27	3	2	5	18	14	32
Dec-07	Mushroom spawn production	1	6	9	15	7	4	11	13	13	26
Dec-07	Preparation of organic pesticides	1	14	12	26	0	0	0	14	12	26
Dec-07	Scientific rearing of dairy cattle, poultry and goatery management	1	1	2	3	13	11	24	14	13	27
Nov-07	Scientific rearing of dairy cattle, poultry, goatery, piggery management. Milk and meat products preparation	1	18	7	25	0	2	2	18	9	27
Nov-07	Scientific rearing of dairy cattle, poultry, goatery, piggery management. Milk and meat products preparation	1	19	27	46	0	0	0	19	27	46

Nov-07	Organic farming	1	15	8	23	0	0	0	15	8	23
Nov-07	Application of bio fertilizers in organic agriculture	1	15	8	23	0	0	0	15	8	23
Nov-07	Organic farming	1	10	15	25	0	0	0	10	15	25
Nov-07	Value added products with milk and fruits packing technology	1	13	12	25	0	0	0	13	12	25
Nov-07	Vegetable printing & fabric painting	1	9	14	23	0	3	3	9	17	26
Nov-07	Vegetable printing & fabric painting	1	8	16	24	0	1	1	8	17	25
Aug-08	Value addition of fruits	2	2	26	28	0	0	0	2	26	28
Aug-08	Zardoshi work	2	0	0	0	0	22	22	0	22	22
Aug-08	Fabric painting	2	0	0	0	0	9	9	0	9	9
Jun-08	Fabric painting	5	0	7	7	0	3	3	0	10	10
May-08	Fabric painting	10	0	17	17	0	4	4	0	21	21
May-08	Paper carry bag making	2	0	12	12	0	2	2	0	14	14
May-08	Fabric painting	2	0	11	11	0	3	3	0	14	14
Apr-08	Fabric painting	10	0	17	17	0	4	4	0	21	21
Apr-08	Bouquet making	3	0	13	13	0	2	2	0	15	15
Apr-08	Paper carry bag making	1	0	18	18	0	4	4	0	22	22
Mar-08	Zardoshi work	2	0	10	10	0	1	1	0	11	11
Feb-08	Fabric designing	4	0	12	12	0	0	0	0	12	12
Feb-08	Screen printing	2	0	22	22	0	9	9	0	31	31
Feb-08	Fabric designing	2	0	10	10	0	2	2	0	12	12
Feb-08	Organic farming	1	0	0	0	30	20	50	30	20	50
Jan-08	Fabric painting	3	0	13	13	0	2	2	0	15	15
Jan-08	Fabric painting	2	0	9	9	0	1	1	0	10	10
Dec-07	Fabric painting	2	0	10	10	0	0	0	0	10	10
Dec-07	Fabric painting	3	0	13	13	0	0	0	0	13	13
Dec-07	Fabric painting	3	0	9	9	0	2	2	0	11	11
Dec-07	Control of infertility problem in dairy animals	1	12	9	21	7	0	7	19	9	28
Nov-07	Paper carry bag making	2	0	32	32	0	8	8	0	40	40
Nov-07	Fabric designing	3	0	8	8	0	2	2	0	10	10
Oct-07	Fabric painting	2	0	10	10	0	2	2	0	12	12
Oct-07	Fabric painting	2	0	16	16	0	0	0	0	16	16
Oct-07	Fabric painting	2	0	9	9	0	2	2	0	11	11
Oct-07	Toilet soap making	1	0	11	11	0	2	2	0	13	13

Extension Personnel

Date	Title of the training programme	Duration in days	Number of participants (General)			Number of SC/ST			Total number of participants		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
Jun-08	Bouquet making	1	0	14	14	0	6	6	0	20	20
Mar-08	Muffler making	1	0	21	21	0	0	0	0	21	21
Jan-08	Recipes	1	0	22	22	0	0	0	0	22	22
Jan-08	Preservation techniques	1	0	13	13	0	4	4	0	17	17
Jan-08	Toilet soap making	1	0	14	14	0	3	3	0	17	17
Nov-07	Value addition of milk, preservation techniques-fruit salad, apple squash, sip up	1	0	20	20	0	0	0	0	20	20
Oct-07	Choco sip up demonstration class and packaging	1	0	22	22	0	0	0	0	22	22
Oct-07	Nutrition class and demonstration of chocolate sip up	1	0	13	13	0	4	4	0	17	17
Mar-08	PRA techniques	1	10	8	18	0	0	0	10	8	18
Oct-07	Composting	1	15	5	20	0	0	0	15	5	20

Oct-07	Bio fertilizers	1	15	5	20	0	0	0	15	5	20
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(D) Vocational training programmes for Rural Youth

Crop / Enterprise	Identified Thrust Area	Training title*	No. of courses	Duration (days)	No. of Participants General			No. of Participants SC/ST			No. of Participants Total			Number of persons employed elsewhere
					Male	Female	Total	Male	Female	Total	Male	Female	Total	
Handicraft	Women empowerment	Fabric painting	23	77	22	233	255	4	46	50	26	279	305	65
Handicraft	Income generation	Vegetable printing	2	2	9	17	26	13	15	28	22	32	54	16
Confectionaries	Women empowerment	Fruit processing	5	15	16	71	87	12	9	21	28	80	108	8
	Income generation	Medicinal plant cultivation	1	2	5	18	23	0	2	2	5	20	25	2
Dress making	Providing self employment opportunities for Rural Youth	Needle work	5	24	0	9	9	4	20	24	4	29	33	3
Handicraft	Income generation	Paper carry bag making	4	7	0	84	84	1	17	18	1	101	102	18
Handicraft	Income generation	Banana fibre products	1	2	0	35	35	0	8	8	0	43	43	22
Mushroom	Income generation	Spawn production	1	1	6	9	15	0	0	0	6	9	15	8
Dairying	Income generation	Dairy management	3	3	38	36	74	13	13	26	51	49	100	42
Confectionaries	Income generation	Value addition of Milk	1	1	13	12	25	0	0	0	13	12	25	16
Handicraft	Women empowerment	Zardoshi work	2	4	0	10	10	0	23	23	0	33	33	15
Handicraft	Women empowerment	Bouquet making	1	3	0	13	13	0	2	2	0	15	15	9
Handicraft	Women empowerment	Screen printing	1	2	0	22	22	0	9	9	0	31	31	13
Handicraft	Income generation	Toilet soap making	1	1	0	11	11	0	2	2	0	13	13	11

*training title should specify the major technology /skill transferred

(E) Sponsored Training Programmes (Give details only for sponsored programmes)

Farmers

Sl.No	Title	Thematic area	Month	Duration (days)	No. of courses	No. of Participants							Sponsoring Agency
						Male		Female		Total			
						Others	SC/ST	Others	SC/ST	Others	SC/ST	Total	
1	Organic farming in spice crops		Aug 08	1	2	50	--	--	--	50	--	50	Peermade Dev. Society
2	Pest mgmt. In organic farming		Aug 08	1	2	50	--	--	--	50	--	50	Peermade Dev. Society
3	IPM in vegetables		Aug 08	1	1	50	--	10	--	60	--	60	Krishibhavan , Rajakkadu
4	Cultivation of medicinal and aromatic plants		July 08	2	1	1	--	22	2	23	2	25	SHM
5	IPDM in cardamom		July 08	2	1	22	1	1	1	23	2	25	SHM
6	Organic farming		June 08	2	1	25	--	--	--	25	--	25	SHM
7	Mushroom cultivation		May 08	2	1	11	--	12	2	23	2	25	SHM
8	INM & IPM in Horticrops		May 08	2	1	25	--	--	--	25	--	25	SHM
9	Banana cultivation & value addition		April 08	2	1	--	--	30	10	30	10	40	Block Panchayath, Nedukandom
10	Goat mgmt		March 08	1	1	4	--	26	7	30	7	37	Block Panchayath, Nedukandom
11	Dairy cattle mgmt		March 08	1	1	4	--	26	7	30	7	37	Block Panchayath, Nedukandom
12	Scientific Dairy cattle mgmt in all aspects		March 08	13	13	333	77	254	13	587	90	677	Dept. of Animal Husbandry
13	Soil Fertility mgmt in cardamom		March 08	1	1	--	--	18	--	18	--	18	Coffee Board
14	Nutrient mgmt in cardamom		March 08	1	1	--	--	12	--	12	--	12	Block Dev. Office, Nedumkandom
15	Soil sampling Techniques		March 08	1	1	--	--	16	--	16	--	16	Coffee Board
16	Mushroom cultivation		March 08	1	1	12	--	4	--	16	--	16	VFPCK
17	Fruit preservation & mushroom pickling		March 08	1	1	--	--	26	8	26	8	34	VFPCK
18	Fruit preservation & mushroom products		March 08	1	1	--	--	-17	--	17	--	17	Coffee Board
19	Drudgery reduction techniques for cardamom workers		March 08	1	1	--	--	7	3	7	3	10	VFPCK
20	Fruit preservation & sip up making		March 08	1	1	2	--	14	--	16	--	16	Coffee Board
21	Paper carry bag		March 08	2	1	--	--	22	3	22	3	25	Coffee Board
22	IPDM on cardamom		March 08	3	1	--	--	18	--	18	--	18	Block Dev. Office, Nedumkandom
23	Pest mgmt in organic farming		March 08	1	1	--	--	16	--	16	--	16	Coffee Board
24	INM in cardamom		March 08	3	1	--	--	18	--	18	--	18	Block Dev. Office, Nedumkandom

25	Vermicomposting		March 08	1	1	--	--	16	--	16	--	16	Coffee Board
26	Fodder cultivation		March 08	1	1	--	--	20	--	20	--	20	Block Dev. Office, Nedumkandam
27	INM & IPM in veg & Fruits		Feb 08	1	1	28	7	10	0	38	7	45	Dept. of Agri.
28	Non chemical control of Pest & diseases in veg.		Feb 08	1	1	28	7	10	0	38	7	45	Dept. of Agri
29	Preservation methods		Feb 08	1	1	1	0	19	20	20	20	40	Coffee Board
30	Banana cultivation		Feb 08	1	1	0	0	7	30	7	30	37	Block Dev. Office, Nedumkandam
31	IPDM in banana		Feb 08	1	1	0	0	7	30	7	30	37	Block Dev. Office, Nedumkandam
32	Soil fertility mgmt		Feb 08	1	1	0	0	7	30	7	30	37	Block Dev. Office, Nedumkandam
33	Kitchen gardening		Feb 08	1	1	1	0	19	20	20	20	40	Coffee Board
34	Organic pest and disease mgmt.		Feb 08	1	1	1	0	19	20	20	20	40	Coffee Board
35	Vermi composting		Feb 08	1	1	1	0	19	20	20	20	40	Coffee Board
36	Mushroom cultivation		Feb 08	1	1	1	0	19	20	20	20	40	Coffee Board
37	Dairy cattle mgmt.		Feb 08	1	1	3	10	20	7	23	17	40	NGO
38	Bio-fertilizers in organic farming		Jan 08	1	1	43	10	5	0	48	10	58	Spices Board Santhanpara
39	Bio-pesticides and plant products in organic farming		Jan 08	1	1	43	10	5	0	48	10	58	Spices Board Santhanpara
40	Pepper Cultivation		Jan 08	1	1	50	10	5	0	55	10	65	Dept. of Agri.
41	Mushroom cultivation		Jan 08	1	1	0	0	6	0	6	0	6	Dept. of Agri.
42	Mushroom cultivation		Jan 08	1	1	15	2	25	4	40	6	46	Dept. of Agri. Thodupuzha
43	Soil sampling techniques		Jan 08	1	1	43	10	5	0	48	10	58	Spices Board Santhanpara
44	Rabbit rearing		Jan 08	1	1	0	0	14	1	14	1	15	STED
45	Dairy cattle mgmt.		Jan 08	1	1	0	0	12	3	12	3	15	STED
46	Goat mgmt.		Jan 08	1	1	0	0	10	6	10	6	16	STED
47	Veg. Printing		Dec 07	1	1	4	9	4	10	8	19	27	VHSE Munnar
Total					61					1703	430	2133	

Rural Youths

Sl. No	Title	Thematic area	Month	Duration (days)	No. of courses	No. of Participants						Sponsoring Agency
						Male		Female		Total		
						Others	SC/ST	Others	SC/ST	Others	SC/ST	

1	Gardeners Training	Women empowerment	Sep 08	11	1	3	2	20	6	23	8	31	SHM
2	Fruit Processing		Aug 08	2	1	8	2	15	0	23	2	25	SHM
3	Cultivation of medicinal plants		June 08	2	1	5	0	18	2	23	2	25	SHM
4	Value added products with milk and fruits		Nov 07	1	1	13	0	12	0	25	0	25	VHSE Senapathy
5	Value addn. Of milk preservation techniques		Nov 07	1	1	0	0	20	0	20	0	20	VHSE Rjakumary
6	Veg. Printing and fabric printing		Nov 07	1	1	9	0	14	3	23	3	26	VHSE Senapathy
7	Veg. Printing and fabric printing		Nov 07	1	1	8	0	16	1	24	1	25	VHSE Rjakumary
Total					7					161	16	177	

Extension personnel

Sl.No	Title	Thematic area	Month	Duration (days)	No. of courses	No. of Participants						Sponsoring Agency	
						Male		Female		Total			
						Others	SC/ST	Others	SC/ST	Others	SC/ST		Total
1	Veg. Cultivation	Women empowerment	Sep 08	6	3	0	0	170	30	200	30	230	Nedumkandam Block Panchayath
2	Muffler making		March 08	1	1	0		21	0	21	0	21	ICDS
3	PRA techniques			1	1	10	0	8	0	18	0	18	VFPCCK
4	Composting		Oct 07	1	1	15	0	5	0	20	0	20	Dept. of Agri.
5	Bio-fertilizers		Oct 07	1	1	15	0	5	0	20	0	20	Dept. of Agri.
Total					7					279	30	309	

3.4. Extension Programmes (including activities of FLD programmes)

For Farmers

Nature of Extension Programme	No. of Programmes	No. of Participants (General)			No. of Participants SC / ST			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	18	136	60	196	38	46	84	174	106	280
Kisan Mela										
Kisan Ghosthi										
Exhibition	5	2566	5875	8441	280	360	640	2846	6235	9081
Film Show										
Method Demonstrations										
Farmers Seminar	3	360	98	458	68	9	77	428	107	535
Workshop	3	-	-	-	-	-	-	-	-	-
Group meetings	16	125	146	271	8	16	24	133	162	295
Lectures delivered as resource persons										
Newspaper coverage	6	-	-	-	-	-	-	-	-	-
Radio talks	15	-	-	-	-	-	-	-	-	-
TV talks										
Popular articles										
Extension Literature										
Advisory Services	69	96	166	262	45	60	105	141	226	367
Scientific visit to farmers field	50	55	5	60	10	2	12	65	7	72
Farmers visit to KVK	44	200	310	510	42	91	133	242	401	649
Diagnostic visits	2	6	0	6	0	0	0	6	0	6

Exposure visits	5	38	67	105	40	25	65	78	92	170
Ex-trainees Sammelan	1	0	10	10	0	8	18	0	28	28
Soil health Camp										
Animal Health Camp										
Agri. mobile clinic										
Soil test campaigns										
Farm Science Club Conveners meet	2	35	0	35	0	0	0	35	0	35
Self Help Group Conveners meetings	3	50	12	62	30	3	33	80	15	95
Mahila Mandals Conveners meetings										
Celebration of important days (specify)										
Athma Meeting	17	-	-	-	-	-	-	-	-	-
Field Survey	1	-	-	-	-	-	-	-	-	-
SHM Meeting	2	-	-	-	-	-	-	-	-	-
Total	256							4,228	7,379	11,593

For Extension personnel

Nature of Extension Programme	No. of Programmes	No. of Participants (General)			No. of Participants SC / ST			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	18	7	4	11	5	3	8	12	7	19
Kisan Mela										
Kisan Ghosthi										
Exhibition	5	1252	244	1496	15	20	35	1267	264	1531
Film Show										
Method Demonstrations										
Farmers Seminar	3	26	3	29	5	4	9	31	7	38
Workshop										
Group meetings	16	4	52	56	5	25	30	9	77	86
Lectures delivered as resource persons										
Newspaper coverage										
Radio talks										
TV talks										
Popular articles										
Extension Literature										
Advisory Services	69	16	18	34	6	14	20	22	32	54
Scientific visit to farmers field	50	13	4	17	3	2	5	16	9	25
Farmers visit to KVK	44	15	6	21	5	3	8	20	9	29
Diagnostic visits										
Exposure visits	5	3	2	5	0	0	0	3	2	5
Ex-trainees Sammelan										
Soil health Camp										
Animal Health Camp										
Agri mobile clinic										
Soil test campaigns										
Farm Science Club Conveners meet	2	25	0	25	8	0	8	33	0	33
Self Help Group Conveners meetings	3	8	15	23	12	17	29	20	32	52
Mahila Mandals Conveners meetings										
Celebration of important days (specify)										
Any Other (Specify)										
Total	215							1,433	439	1,872

3.5 Production and supply of technological products (2007-08)

SEED MATERIALS

SI. No.	Crop	Variety	Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
CEREALS					
OILSEEDS					
PULSES					
VEGETABLES					
FLOWER CROPS					
OTHERS (Specify)	Goat kids	Jamunapari and Malabari	5	9200	5

SUMMARY

SI. No.	Crop	Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
1	CEREALS			
2	OILSEEDS			
3	PULSES			
4	VEGETABLES			
5	FLOWER CROPS			
6	OTHERS			
TOTAL				

PLANTING MATERIALS

SI. No.	Crop	Variety	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
FRUITS					
SPICES					
VEGETABLES					
FOREST SPECIES					

ORNAMENTAL CROPS**PLANTATION CROPS**

Others (specify)

SUMMARY

Sl. No.	Crop	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
1	FRUITS			
2	VEGETABLES			
3	SPICES			
4	FOREST SPECIES			
5	ORNAMENTAL CROPS			
6	PLANTATION CROPS			
7	OTHERS			
	TOTAL			

BIO PRODUCTS

Sl. No.	Product Name	Species	Quantity		Value (Rs.)	Provided to No. of Farmers
			No	(kg)		
BIOAGENTS						
1						
2						
3						
4						
BIOFERTILIZERS						
1						
2						
3						
4						
BIO PESTICIDES						
1						
2						
3						
4						

SUMMARY

Sl. No.	Product Name	Species	Quantity		Value (Rs.)	Provided to No. of Farmers
			No	(kg)		
1	BIOAGENTS					
2	BIO FERTILIZERS					
3	BIO PESTICIDE					
	TOTAL					

LIVESTOCK

Sl. No.	Type	Breed	Quantity		Value (Rs.)	Provided to No. of Farmers
			(Nos)	Kgs		
CATTLE						
SHEEP AND GOAT	Goat	Jamunapari and Malabari	5	35	9200	5
POULTRY						
FISHERIES						
Others (Specify)						

SUMMARY

Sl. No.	Type	Breed	Quantity		Value (Rs.)	Provided to No. of Farmers
			Nos	Kgs		
1	CATTLE					
2	SHEEP & GOAT					

3	POULTRY
4	FISHERIES
5	OTHERS
TOTAL	

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

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

(B) Literature developed/published

Item	Title	Authors name	Number
Research papers			
Technical reports			
News letters			
Technical bulletins			
Popular articles			
Extension literature			
Others (Pl. specify)			
TOTAL			

N.B. Please enclose a copy of each. In case of literature prepared in local language please indicate the title in English

(C) Details of Electronic Media Produced

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

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

Women Entrepreneurship – a success

Mrs. Sobha Padmakumar, Sreekarthika, Rajakumary panchayath in Idukki district is an example how women can effectively utilize their talents and leisure time for income generation. She is an ambitious housewife from a rural village and has attended 6 months vocational training on Zardoshi work, Fabric painting, Fabric printing, Emboss work and Glass painting under Rural crafts discipline. Motivated from the training, she started a unit with two like – minded women. She learned to make fabric items & interior decoration articles to meet the present trend of marketing. Her enterprise has grown to such a dimension as to take bulk orders from textiles and local markets. She purchased the required raw materials in bulk and has employed two women to work along with her. Now they earn an average income of Rs.20000 / month.

KVK Intervention

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

Timeline showing the details

- Training attended in October 2007 to March 2008.
- Unit started on experimental basis - April 2008.
- Unit established on commercial basis on 23rd May 2008.
- Present status – Running successfully.

Impact

Motivated from the above mentioned Mrs. Sobha Padmakumar's successful designing unit around 17 rural women are going to start fabric designing on a commercial basis. Each member of this fabric designing unit earns on an average of Rs.2500-3000/month. In addition to fabric designing, they are planning to start a small textile shop with loan availing from near by co-operative bank for self-sufficiency and self-employment. Also they generate employment opportunities for others.

3.8. Give details of innovative methodology or innovative technology of Transfer of Technology developed and used during the year**Innovation: Hatching eggs without a chicken**

Some lady specializes in poultry and incubates chicken egg in dry cattle dung. They put the eggs with some straw in plastic bags to preserve humidity. Each bag has 16-20 eggs. They put the bags in small holes, dug in the manure and cover them with cardboard and a thin layer of manure. Each day they open the bags to check the temperature of the eggs and to turn and aerate them. From day 20th the eggs start to hatch. They put the chicks into a box to protect them from cold and feeds them couscous grains, vegetables and small bread pieces.

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

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK

3.10 Indicate the specific training need analysis tools/methodology followed for

Questionnaire based surveys conducted in Gramasabha meetings.

Based on demands from farmers and other stakeholders.

Based on the farming situation of Idukki district, trainings are structured and organized.

Based on the felt needs of the district, KVK organizes campaigns, trainings etc. Needs are identified through PRA, Field visits and discussion with farmers.

Based on the calendar of operation of various crops.

Rural Youth

Questionnaire based surveys conducted at panchayat and block level meetings for youth.

Trainings are so organized that it could give them an employment opportunity.

Based on demands received.

In service personnel

Based on demands, trainings are organized

Technical consultation is made among technical staff of KVK, line departments to arrange need-based trainings.

Courses are so chosen that it updates them of the latest trends in Agriculture.

3.11 Field activities

- i. Number of villages adopted : 1, Rajakumary
- ii. No. of farm families selected : 385
- iii. No. of survey/PRA conducted : Two questionnaire based survey

3.12. 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 Homogensing (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 temp: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

3. Details of samples analyzed so far :

Details	No. of Samples analysed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)
Soil Samples	80	28	14	2220
Water Samples	1			
Plant samples				
Total				2220

3.1. Details of samples analyzed during 2007-08 :

Details	No. of Samples analysed	No. of Farmers benefited	No. of Villages	Amount realized
Soil Samples	56	25	12	1500
Water Samples	1			
Plant samples				
Total				1500

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

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
Vermi composting	285	80%	Nil	2000
Mushroom cultivation	120	40%	Nil	2500
IPDM in Rice	65	70%	3000 / ha	6000 / ha
Fodder Grass CO3 & KKM-1	210	85%	3500 / ha	8000 / ha
Lime application in banana fields @ 250 g / plant.	34	60%	Nil	Nil
Demonstration of genetically superior cross bred poultry breed – Astra White	115	64%	500 / month	750 / month
Spraying K ₂ SO ₄ on banana bunches at bunch emergence and half mature stage of bunches.	45	20%	3,50,000 / ha	4,45,000 / ha
Fabric designing	340	85%	Nil	3000 / month
Decorative and fancy articles	245	55%	Nil	2000 / month
Home Care products	319	60%	Nil	3500 / month

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

**4.2. Cases of large scale adoption
(Please furnish detailed information for each case)****4.3 Details of impact analysis of KVK activities carried out during the reporting period****5.0 LINKAGES****5.1 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 provides 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	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 Kudumbasree	Conduct of Seminar in different parts of Idukki district 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.
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

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

Name of the scheme	Date/ Month of initiation	Funding agency	Amount (Rs.)
On Farm Trial on Management of Paddy Yellow Stem Borer	Dec-2007	State Planning Board	1,700.00
On Farm Trial on Assessing specific infertility problem in dairy cow and its management – Tackling prolonged calving interval.	March-2008	State Planning Board	5,100.00
On Farm Trial on Assess the performance of Glyricidia sp. For control of ecto parasites in farm animals.	Dec-2007	State Planning Board	6,000.00
On Farm Trial on Assessing the performance of indigenous knowledge for control of tympani in dairy cattle.	Dec-2007	State Planning Board	3,645.00
Front Line Demonstration on System Rice Intensification for improving productivity of Paddy under agro-climatic conditions of Idukki.	Dec-2007	State Planning Board	16,590.00
Front Line Demonstration on optimization of Nitrogen in Rice through LCC based INM approach.	Dec-2007	State Planning Board	13,560.00
Front Line Demonstration on Management of Paddy Blast caused Pyricularia oryzae	Dec-2007	State Planning Board	6,000.00
Gardeners Training	Aug-2008	State Horticulture Mission	13,00,525.00
Training to Farmers	May-2008	State Horticulture Mission	3,38,000.00
Small Nursery (Pepper)	Jun-2008	State Horticulture Mission	3,00,000.00
Mushroom Lab and Spawn Production Unit	Work in progress	State Horticulture Mission	3,00,000.00
Farmers Training	Mar-2007	Nedumkandam Block Panchayath	23,326.00
Farmers Training	Apr-2007	Nedumkandam Block Panchayath	12,060.00
Training to Farmwomen under Samagra	Sep-2008	Kudumbasree District Mission	75,000.00
Apiary Training	Oct & Nov-2007	Horticorp	2,43,000.00
Impact of Women in Agricultural Survey	Sep-2008	Dept. of Agricultural	10,000.00

5.3 Details of linkage with ATMA

a) Is ATMA implemented in your district Yes

S. No.	Programme	Nature of linkage	Remarks
1	SREP	Attended both governing body and management committee meetings of ATMA	SREP for Idukki district prepared
2	FLD & OFT	Proposals of OFT & FLD for respective areas has been prepared and presented in the BTT meetings and approval for the same has been obtained	Participants for the same has to be selected by the FPG

5.4 Give details of programmes implemented under National Horticultural Mission

S. No.	Programme	Nature of linkage	Constraints if any
1	Small nursery on pepper	Project has been sanctioned at a cost of Rs. 3.00 lakhs	

2	Gardeners training (6 month long vocational training)	Project has been sanctioned at a cost of Rs. 13.00 lakhs	
3	Mushroom & spawn production unit	Project has been sanctioned at a cost of Rs. 3.00 lakhs	
4	Farmers training programme	Project has been sanctioned at a cost of Rs. 3.19 lakhs	

5.5 Nature of linkage with National Fisheries Development Board

S. No.	Programme	Nature of linkage	Remarks

6. PERFORMANCE OF INFRASTRUCTURE IN KVK

6.1 Performance of demonstration units (other than instructional farm)

Sl. No.	Demo Unit	Year of estt.	Area	Details of production			Amount (Rs.)		Remarks
				Variety	Produce	Qty.	Cost of inputs	Gross income (Rs)	
1	Handicraft unit	2000	NA	NA	Interior decoration articles	1	-	600	-
2	Food Processing Unit	2000	12 M2		Jam, Squash, Pickles, sweets, sipup	-	2473.50	4970	-
3	mushroom	2002	10M2	Pleurotus var. Florida	Mushroom	26.4 Kg	454.50	2115	-

6.2 Performance of instructional farm (Crops) including seed production

Name of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.	Cost of inputs	Gross income	
Cereals									
Pulses									
Oilseeds									
Fibers									
Spices & Plantation crops									
Floriculture									
Fruits									
Vegetables									
Others (specify)									

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6.3 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.	Trichoderma	110.25 Kg	-	7765	-
2.	Pseudomonas	178.75 L	1630	12237.50	-
3.	Spawn	1100 pkts.	3500	16497	-
4.	Vermi compost	330 Kg	330	1712	-
5.	Vermiculture	17.55 Kg	3000	10250	-

6.4 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.	Goat	Jamunapari and Malabari	Goat kid	5	5600	9200	-

6.5 Utilization of hostel facilities

Accommodation available (No. of beds)

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
October 2006			
November 2006			
December 2006			
January 2007			
February 2007			
March 2007			
April 2007			
May 2007			
June 2007			
July 2007			
August 2007			
September 2007			

(for whole of the year)

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

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

9. FINANCIAL PERFORMANCE

9.1 Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
With KVK	SBT	Rajakumary	57060836995
With KVK	IDCB	Santhanpara	3754

9.2 Utilization of funds under FLD on Oilseed (Rs. in Lakh)

Item	Released by ICAR		Expenditure		Unspent balance as on 1 st April 2008
	Kharif 2007	Rabi 2007 -08	Kharif 2007	Rabi 2007-08	
Inputs					
Extension activities					
TA/DA/POL etc.					
TOTAL					

9.3 Utilization of funds under FLD on Pulses (Rs. in Lakh)

Item	Released by ICAR		Expenditure		Unspent balance as on 1 st April 2008
	Kharif 2007	Rabi 2007 -08	Kharif 2007	Rabi 2007 -08	
Inputs					
Extension activities					
TA/DA/POL etc.					
TOTAL					

9.4 Utilization of funds under FLD on Cotton (Rs. in Lakh)

Item	Released by ICAR		Expenditure		Unspent balance as on 1 st April 2008
	Kharif 2007	Rabi 2007 -08	Kharif 2007	Rabi 2007 -08	
Inputs					
Extension activities					
TA/DA/POL etc.					
TOTAL					

9.5 Utilization of KVK funds during the year 2007 -08 and 2008 -09 (upto Sep. 2008) (year-wise separately) (current year and previous year) (Rs. in lakh)

2007-08

Sl. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances	27.00	26,99,699.25	27,00,001.00
2	Traveling allowances	1.00	1,00,000.00	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)	1.63	1,63,000.00	1,63,001.84
B	POL, repair of vehicles, tractor and equipments	0.80	80,000.00	80,005.18
C	Meals/refreshment for trainees (ceiling up to Rs.40 /day/trainee be maintained)	0.57	57,000.00	56,980.00
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	0.60	60,000.00	60,000.95
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	0.63	63,000.00	62,103.00
F	On farm testing (on need based, location specific and	0.30	30,000.00	29,935.00

	newly generated information in the major production systems of the area)			
G	Training of extension functionaries	0.20	20,000.00	20,004.00
H	Maintenance of buildings	0.20	20,000.00	20,000.50
I	Establishment of Soil, Plant & Water Testing Laboratory	0.00	300.75	0.00
J	Library	0.07	7,000.00	7,000.00
K	Farmers Field School	0.00	0.00	0.00
TOTAL (A)		33.00	33,00,000.00	32,99,031.47

B. Non-Recurring Contingencies : Nil				
GRAND TOTAL (A+B+C)		33.00	33,00,000.00	32,99,031.47

2008-09

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances	30.00		1541315.00
2	Traveling allowances	1.00		57046.50
3	Contingencies			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	1.90		102629.74
B	POL, repair of vehicles, tractor and equipments	0.80		42638.00
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	0.70		21500.00
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	0.80		43819.50
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	0.60		0.00
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	0.50		0.00
G	Training of extension functionaries	0.10		0.00
H	Maintenance of buildings	0.25		18587.00
I	Establishment of Soil, Plant & Water Testing Laboratory	0.00		0.00
J	Library	0.10		904.00
K	Farmers Field School	0.25		0.00
TOTAL (A)		37.00	18,46,872.00	18,28,439.74

B. Non-Recurring Contingencies				
1	Works			
2	Equipments including SWTL & Furniture			
3	Vehicle (Four wheeler/Two wheeler, please specify)			
4	Library (Purchase of assets like books & journals)			
TOTAL (B)				
C. REVOLVING FUND				
GRAND TOTAL (A+B+C)				

9.6 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 2005 to March 2006	21851.01	108463.00	116829.99	13484.19
April 2006 to March 2007	13484.19	60673.00	21674.30	23418.73
April 2007 to March 2008	23418.73	406601.75	308312.95	98288.80

10.0 Please include information which has not been reflected above (write in detail).**SUMMARY TABLES****1 Details of Technology assessment and refinement****Table 1A: Abstract on the number of technologies assessed in respect of crops**

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation										
Seed / Plant production										
Weed Management										
Integrated Crop Management								1		1
Integrated Nutrient Management										
Integrated Farming System										
Mushroom cultivation				1						1
Drudgery reduction										
Farm machineries										
Value addition										
Integrated Pest Management								1		1
Integrated Disease Management										
Resource conservation technology										
Small Scale income generating enterprises										
TOTAL				1				2		3

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation										
Seed / Plant production										
Weed Management										
Integrated Crop Management										
Integrated Nutrient Management					1					1
Integrated Farming										

System										
Mushroom cultivation										
Drudgery reduction							1			1
Farm machineries										
Post Harvest Technology										
Integrated Pest Management										
Integrated Disease Management										
Resource conservation technology										
Small Scale income generating enterprises										
TOTAL							1		1	2

Table 1 C: 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						
Disease of Management	1	-	-	-	-	1
Value Addition						
Production and Management						
Feed and Fodder						
Small Scale income generating enterprises						
TOTAL						1

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

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

Table – 1 E Details of technology refined

Crop / Enterprise	Technology Assessed	No. replicatio ns	Technology refined	Result justifying the refinement
Banana	250 gm lime / plant + NPK @ 190:115:300 gm / plant in 6 splits.	5	250 gm lime / plant + NPK @ 190:115:300 gm / plant in 6 splits + 2 sprays of 2% K ₂ SO ₄ @ bunch emergence and half mature stage of bunches.	An average bunch yield of 36.2 T / ha has been recorded with a B:C Ratio of 3.88.
Cardamom	Ordinary Sickle used for weeding purposes in Cardamom. Implement was heavy (445 gm) and caused hand drudgery during	10	Improved Sickle weight is 276 gm, with a long handle to make it handy. The neck	1) Drudgery felt by farm women is reduced result in their work efficiency. 2) Due to the use of

	weeding.		portion of the sickle is slightly raised with a tilt to avoid hitting stones and other obstacles.	improvised sickle hitting in stones and other obstacles is not yet reported.
Cardamom	Trashing knife weights (395 gm) used in Cardamom fields.	10	Machete weight is 325 gm with long handle and thin with more sharpness introduced for drudgery reduction.	No. of plants trashed / day / person is increased to 40 when compared to earlier ie, 25.

2. Details of Frontline Demonstrations

Table – 2 A Front Line Demonstrations on Oilseed Crops

Crop	Technology Demonstrated	No. of Farmers	Area (ha.)	Demo. Yield	Local Check	Increase in yield (%)	Data on parameter in relation to technology demonstrated		Average Net Return (Profit) (Rs./ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
							Demo	Local		

Table – 2 B Front Line Demonstrations on Pulse Crops

Crop	Technology Demonstrated	No. of Farmers	Area (ha.)	Demo. Yield	Local Check	Increase in yield (%)	Data on parameter in relation to technology demonstrated		Average Net Return (Profit) (Rs./ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
							Demo	Local		

Table – 2 C Front Line Demonstrations on Cotton

Crop	Technology Demonstrated	No. of Farmers	Area (ha.)	Demo. Yield	Local Check	Increase in yield (%)	Data on parameter in relation to technology demonstrated		Average Net Return (Profit) (Rs./ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
							Demo	Local		

Table – 2 D Front Line Demonstrations on Other Crops

Crop	Technology Demonstrated	No. of Farmers	Area (ha.)	Demo. Yield – Qt / ha	Local Check – Qt / ha	Increase in yield (%)	Data on parameter in relation to technology demonstrated		Average Net Return (Profit) (Rs./ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
							Demo	Local		
Cardamom	Scientific Nutrient Management along with ZnSO ₄ spray	10	2	11.5	1.2	89%	1) 89% yield 2) 10 numbers of emergence of new panicle	1) 50% yield 2) 5 numbers of emergence of new panicle	-	-
Cardamom	IDM	10	2	7	1.65	76%	Disease incidence before treatment = 6%. Disease incidence after treatment = 3%.	30% disease incidence 32% disease incidence	-	-
Banana	HDP	5	0.33	On going demo.	-	-	-	-	-	-
Brinjal	Bacterial wilt resistant	5	1	19.0	15	26.6%	No. of picking = 5	No. of picking = 5	70000	3.8

	variety – Haritha						Yield / plant = 2 kg	Yield / plant = 1.5 kg		
Rice	Optimization of N application based on LCC	10	1	28.86	16.68	42.2%	Tiller height = 117.8 cm Prod. Tillers = 18.6 cm Length of panicle = 19.2 cm Yield = 28.86 q/ha	Tiller height = 72.4 cm Prod. Tillers = 9.4 cm Length of panicle = 15.6 cm Yield = 16.68 q/ha	-	-
Fodder Grass	Fodder grass variety KKM-1	12	5	Crop not yet reached the harvesting stage	-	-	-	-	-	-

Table – 2 E Front Line Demonstrations on Other enterprises

Enterprise	Variety/ breed/Species/others	No. of farmers	No. of Units	Size of Unit	Parameter indicators	Data on parameter in relation to technology demonstrated		% change in the parameter	Remarks
						Demon.	Local check		
Dairy cattle	Crossbred Jersey	10	10	-	Body weight gain, milk production and % of conception rate.	10	-	70%	Effective technology for control of repeat breeders.

3. Details of training programmes conducted:

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

Thematic Area	No. of Courses	No. of Participants							Grand Total
		Others			SC/ST				
		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	1	9	2	11	0	0	0	11	
Integrated Crop Management	2	20	1	21	2	0	2	23	
Soil and Water Conservation									
Integrated Nutrient Management	3	29	3	32	2	0	2	34	
Production of organic inputs									
Horticulture									
a) Vegetable Crops									
Production of low value and high volume crop	5	107	56	163	14	50	64	227	
Off-season vegetables									
Nursery raising									
Exotic vegetables									
Export potential vegetables									
Grading and standardization									
Protective cultivation									
b) Fruits									
Training and Pruning									
Layout and Management of Orchards									
Cultivation of Fruit									
Management of young plants/orchards									

Rejuvenation of old orchards								
Export potential fruits								
Micro irrigation systems of orchards								
Plant propagation techniques								
c) Ornamental Plants								
Nursery Management								
Management of potted plants								
Export potential of ornamental plants								
Propagation techniques of Ornamental Plants								
d) Plantation crops								
Production and Management technology	6	27	46	73	0	70	70	143
Processing and value addition								
e) Tuber crops								
Production and Management technology	2	34	4	38	0	0	0	38
Processing and value addition								
f) Spices								
Production and Management technology	11	261	77	338	12	1	13	351
Processing and value addition								
g) Medicinal and Aromatic Plants								
Nursery management								
Production and management technology	1	1	22	23	0	2	2	25
Post harvest technology and value addition								
Soil Health and Fertility Management								
Soil fertility management	2	25	7	32	0	30	30	62
Integrated water management								
Integrated nutrient management								
Production and use of organic inputs								
Management of Problematic soils								
Micro nutrient deficiency in crops								
Nutrient use efficiency								
Balanced use of fertilizers								
Soil and water testing	4	88	26	114	10	0	10	124
Livestock Production and Management								
Dairy Management	18	344	348	692	87	43	130	822
Poultry Management								
Piggery Management								
Rabbit Management	1	0	14	14	0	1	1	15
Animal Disease Management	2	53	15	68	5	0	5	73
Feed and Fodder technology	1	0	20	20	0	0	0	20
Production of quality animal products								
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	1	0	7	7	0	0	0	7
Minimization of nutrient loss in processing								
Processing and cooking	6	1	91	92	0	28	28	120
Gender mainstreaming through SHGs								
Storage loss minimization techniques								
Value addition								
Women empowerment	2	12	2	14	0	0	0	14
Location specific drudgery production	2	0	12	12	0	5	5	17
Rural Crafts	16	6	223	229	9	34	43	272
Women and child care								
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								
Plant Protection								
Integrated Pest Management								
Integrated Disease Management								
Bio-control of pests and diseases								
Production of bio control agents and bio pesticides								
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								
Production of Inputs at site								
Seed Production								
Planting material production								
Bio-agents production	1	3	0	3	0	0	0	3
Bio-pesticides production	1	43	5	48	10	0	10	58
Bio-fertilizer production	1	43	5	48	10	0	10	58
Vermi-compost production	3	13	51	64	2	24	26	90
Organic manures production	1	25	0	25	0	0	0	25
Production of fry and fingerlings								
Production of Bee-colonies and wax sheets	2	48	3	51	2	0	2	53
Small tools and implements								
Production of livestock feed and fodder								
Production of Fish feed								
Capacity Building and Group Dynamics								
Leadership development								
Group dynamics								
Formation and Management of SHGs								
Mobilization of social capital								
Entrepreneurial development of farmers/youths								
Agro-forestry								
Production technologies								
Nursery management								
Integrated Farming Systems								
Others (Pl. specify)								
TOTAL	95			2232			453	2685

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

Thematic Area	No. of Courses	No. of Participants						Grand Total
		Others			SC/ST			
		Male	Female	Total	Male	Female	Total	
Mushroom Production								
Bee-keeping								
Integrated farming								
Seed production								
Production of organic inputs	5	54	43	97	30	20	50	147
Integrated Farming								
Planting material production								
Vermi-culture	1	15	12	27	3	2	5	32
Sericulture								
Protected cultivation of vegetable crops								

Commercial fruit production								
Repair and maintenance of farm machinery and implements								
Nursery Management of Horticulture crops								
Training and pruning of orchards								
Value addition	16	29	83	112	12	9	21	133
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								
Small scale processing								
Post Harvest Technology								
Tailoring and Stitching								
Rural Crafts	35	71	856	927	35	250	285	1212
TOTAL	57			1163			361	1524

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

Thematic Area	No. of Courses	No. of Participants						Grand Total
		Others			SC/ST			
		Male	Female	Total	Male	Female	Total	
Productivity enhancement in field crops								
Integrated Pest Management								
Integrated Nutrient management								
Rejuvenation of old orchards								
Protected cultivation technology	1	15	5	20	0	0	0	20
Formation and Management of SHGs	3	0	56	56	0	4	4	60
Group Dynamics and farmers organization	1	10	8	18	0	0	0	18
Information networking among farmers								
Capacity building for ICT application								
Care and maintenance of farm machinery and implements	1	15	5	20	0	0	0	20
Management in farm animals								
Livestock feed and fodder production								
Household food security	2	0	42	42	0	0	0	42
Women and Child care								
Low cost and nutrient efficient diet designing	1	0	13	13	0	4	4	17
Production and use of organic inputs								
Gender mainstreaming through SHGs	2	0	28	28	0	9	9	37
Any other (pl. specify)								

Table – 4 Numbers of Extension Activities and Beneficiaries

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	18	174	106	280	12	7	19	186	113	299
Kisan Mela										
Kisan Ghosthi										
Exhibition	5	2846	6235	9081	1267	264	1531	4113	6499	10612

Film Show										
Method Demonstrations										
Farmers Seminar	3	428	107	535	31	7	38	459	114	573
Workshop	3	-	-	-	-	-	-	-	-	-
Group meetings	16	133	162	295	9	77	86	142	239	381
Lectures delivered										
Newspaper coverage	6	-	-	-	-	-	-	-	-	-
Radio coverage	15	-	-	-	-	-	-	-	-	-
TV coverage										
Radio Programmes										
TV Programmes										
Publications										
Popular articles										
Extension Literature										
Advisory Services	69	141	226	367	22	32	54	163	258	421
Scientific visit to farmers field	50	65	7	72	16	9	25	81	16	97
Farmers visit to KVK	44	242	401	643	20	9	29	262	410	672
Diagnostic visits	2	6	0	6	0	0	0	6	0	6
Field visits	1	-	-	-	-	-	-	-	-	-
Exposure visits	5	78	92	170	3	2	5	81	94	175
Ex-trainees Sammelan	1	0	28	28	0	0	0	0	28	28
Agriculture Camps										
Clinic day										
Soil health Camp										
Animal Health Camp										
Agri mobile clinic										
Soil test campaigns										
Farm Science Club Conveners meet	2	35	0	35	33	0	33	68	0	68
Self Help Group Conveners meetings	3	80	15	95	20	32	52	100	47	147
Mahila Mandals Conveners meetings										
Celebration of important days (specify)										
Athma Meeting	17	-	-	-	-	-	-	-	-	-
SHM Meeting	2	-	-	-	-	-	-	-	-	-
Total	262							5661	7818	13479

Table – 5 A Productions of Seeds

SI. No.	Crop	Quantity (qtl.)	Value (in Rs.)	Provided to No. of Farmers
I. CEREALS				
1				
2				
3				
4				
5				
6				
Total				
II. OIL SEEDS				
1				
2				
3				
4				
5				
6				
Total				
III. PULSES				
1				

2				
3				
4				
5				
6				
Total				
IV. Vegetables				
1				
2				
3				
4				
5				
6				
Total				
V. OTHERS (Specify)				
1				
2				
3				
4				
5				
Total				

SUMMARY

Sl. No.	Crop	Quantity (qtl.)	Value (in Rs.)	Provided to No. of Farmers
I	CEREALS			
II	OIL SEEDS			
III	PULSES			
IV	VEGETABLES			
V	OTHERS (Specify)			
	TOTAL			

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

Sl. No.	Category	Crop	Quantity (Nos.)	Value (in Rs.)	Provided to No. of Farmers
I. FRUITS					
1					
2					
3					
4					
5					
Total					
II. VEGETABLES					
1		Bhindi	50	250	10
2		Bitter gourd	50	250	15
3		Amaranthus	50	250	10
4		Brinjal	52	260	12
5					
Total				1010	
III. SPICES					
1		Cardamom	14	1000	3

2					
3					
4					
5					
Total					
IV. FOREST SPECIES					
1		Silver Oak	310	870	5
2					
3					
4					
5					
Total					
V. ORNAMENTAL CROPS					
1					
2					
3					
4					
5					
Total					
VI. PLANTATION CROPS					
1		Coffee	125	156.25	1
2					
3					
4					
5					
Total					
VII. OTHERS (Specify)					
1		Medicinal plants	384	9081	50
2					
3					
4					
5					
Total					

SUMMARY

Sl. No.	Crop	Quantity (Nos.)	Value (in Rs.)	Provided to No. of Farmers
I	FRUITS			
II	VEGETABLES	202 pkts.	1010	47
III	SPICES	14 Suckers	1000	3
IV	FOREST SPECIES	310	870	5
V	ORNAMENTAL CROPS			
VI	PLANTATION CROPS	125	156.25	1
VII	OTHERS	384	9081	50
	TOTAL			

Table -5 C Production of bio products

Sl. No.	Product Name	Species	Quantity		Value (Rs.)	Provided to No. of Farmers
			No	(kg)		
I.	BIOAGENTS					

1	Trichoderma			110.25	7,765.00	64
2	Vermiculture			17.55	10,250.00	10
3	Pseudomonas			178.75 L	12,237.50	65
4	Spawn			1100 pkts.	16,497.00	86
II. BIOFERTILIZERS						
1						
2						
3						
4						
III. BIO PESTICIDES						
1						
2						
3						
4						
5						

SUMMARY

Sl. No.	Product Name	Species	Quantity		Value (Rs.)	Provided to No. of Farmers
			No	(kg)		
I	BIOAGENTS	Trichoderma		110.25	7,765.00	64
		Vermiculture		17.55	10,250.00	10
		Pseudomonas		178.75 L	12,237.50	65
		Spawn		1100 pkts.	16,497.00	86
II	BIO FERTILIZERS					
III	BIO PESTICIDE					
	TOTAL					

Table 5 D Livestock materials

Sl. No.	Type	Breed	Quantity		Value (Rs.)	Provided to No. of Farmers
			(Nos)	Kgs		
I. CATTLE						
II. SHEEP AND GOAT						
III. POULTRY						
IV. FISHERIES						
V. Others (Specify)						

SUMMARY

Sl. No.	Type	Breed	Quantity		Value (Rs.)	Provided to No. of Farmers
			Nos	Kgs		
I	CATTLE					
II	SHEEP & GOAT					
III	POULTRY					
IV	FISHERIES					
V	OTHERS					
	TOTAL					