# PROFORMA FOR ANNUAL REPORT 2011-12

## (FOR THE PERIOD APRIL 2011 TO MARCH 2012)

KRISHI VIGYAN KENDRA (THOOTHUKUDI)

## PART I - GENERAL INFORMATION ABOUT THE KVK

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

KVK Address	Telephone		E mail	Web Address
	Office	Fax		
SCAD KVK	0461-	0461-	pcscadkvk@gmail.com	www.scadkvkthoothukudi.org
Vagaikulam	2269306	2269306	scad_kvk@yahoo.co.in	_
Thoothukudi			-	

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

Address	Telephone		E mail	Web Address
	Office	Fax		
SCAD Bye pass road Vannarapettai Thirunelveli	0462- 2501008	0462-2501007	scb_scad@yahoo.com	www.scad.org.in

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

Name	Telephone / Contact				
	Residence	Mobile	Email		
Dr. V.Srinivasan	9943773002	9942978486	Srinivasan_v_2001@yahoo.com		

### 1.4. Year of sanction: 1995

## **1.5. Staff Position (as 31<sup>st</sup> March 2012)**

Sl. No.	Sanctioned post	Name of the incumbent	Designation	M/F	Discipline	Highest Qualification	Pay Scale	Basic pay	Date of joining KVK	Permanent Or Temporary	Category (SC/ST/ OBC/ Others)
1	Programme Coordinator	Vaccant									
2	SMS	Dr.V.Srinivasan	PC i/c	М	Vet. Medicine	M.V.Sc., (Vet. medicine)	15600- 39100	22330 +5400	08.07.1999	Р	OTHERS
3	SMS	S.Sumathi	SMS	F	Home sci. Extension	M.Sc., (H.Sc.Ext.,)	15600- 39100	21733 +5400	01.12.2000	Р	OBC
4	SMS	P.Velmurugan	SMS	М	Horti.	M.Sc., (Horticulture)	15600- 39100	20332 +5400	30.01.2001	Р	SC
5	SMS	A.Murugan	SMS	М	Agronomy	M.Sc.,(Ag)	15600- 39100	15600 +5400		Р	SC
6	SMS	V.Mohan	SMS	М	Soil science	M.Sc.,(Soil Science)	15600- 39100	16717 +5400	19.08.2009	Р	OBC
7	SMS	M.Ashok kumar	SMS	М	Plant prtection	M.Sc., (Entomology)	15600- 39100	16717 +5400	17.08.2009	Р	OBC
8	Programme Assistant	S.Manikandan	Prog.ast.	М	Fisheries	B.F.Sc.	9300- 34800	10990 +4200	01.08.2009	Р	OBC
9	Programme Assistant (Computer)	J.Jove	Computer Prog.	М	Computer sci.	B.Sc. (Computer sci)	9300- 34800	10230 +4200	31.08.2009	Р	OBC
10	Farm Manager	K.Damodaran	Farm Manager	М	Agriculture	B.Sc.,(Agri)	9300- 34800	10990 +4200	01.08.2009	Р	OBC
11	Assistant	S.S.Ganesan	accountant	М			9300- 34800	16418 +4200	01.06.1996	Р	OBC
12	Steno	S.Vimala	Steno	F			5200- 20200	8611 +2000	01.06.1996	Р	OBC
13	Driver	Gulam rasul babu	Driver	М			5200- 20200	8611 +2000	01.06.1996	Р	OBC
14	Driver	James	Driver	М			5200- 20200	8631 +2000	01.07.1996	Р	OBC
15	Supporting staff	Rajash	Farm assistant	М			5200- 20200	6911 +1800	01.12.1996	Р	SC
16	Supporting staff	Xavier	watchman	М			5200- 20200	7334 +1800	12.11.2001	Р	OTHERS

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

: 20.8 ha

S. No.	Item	Area (ha)
1	Under Buildings	2.0
2.	Under Demonstration Units	0.8
3.	Under Crops	1.0
4.	Orchard/Agro-forestry	1.0
5.	Others	7.0

## **1.7.** Infrastructural Development:

### A) Buildings

		Source	Stage							
c		of		Complete		Incomplete				
No.	Name of building	funding	Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction		
1.	Administrative	ICAR	2001	1100	42 Lakhs					
	Building									
2.	Farmers Hostel	ICAR				02.03.2011	305	Roof level		
3.	Staff Quarters	ICAR	2007	650	24 Lakhs					
4.	Demonstration Units									
	1. Poultry shed	ICAD	2006	200	1 90 Labba					
	2. Vermicompost	ICAK	2006	200	1.69 Lakits					
	unit									
5	Storage Godown	ICAR	2.3.2012	45		02.03.2011				
6	Vehicle cum Implement shed	ICAR	2.3.2012	60		02.03.2011				

#### **B) Vehicles**

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tempo cruiser	2004	4.96	239419	To be condemned
Bajaj boxer CT 100 delux	2004	0.39	56561	Road worthy
Hero Honda Splendor	2009	0.45	35512	Road worthy

### C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
OHP	1996	18315	ok
Slide projector	1996	14265	not in use
Electronic type writer	1996	19200	Not in use
Mf tractor and trailer	1999	362400	To be condemned
Photo copier	2005	82840	Ok
Computer with printer and accessories	2005	68800	Under repair and spares not
			available : to be condemned
Digital photo camera	2005	19990	Under repair : to be condemned
LCD projector screen and laptop computer	2007	98600	Under repair and spares not
			available : To be condemned
Fax machine	2009	15000	OK
Power tiller	2010	150000	OK
Generator	2011	150000	OK
AV aid	2011	15000	OK
EPABX	2011	15000	OK

Sl.No.	Date	Number of Participants	No. of absentees	Salient Recommendations	Action taken
1	5.7.2011	16	15	Dr.Prabu Kumar, ZPD, Bangalore	Dr.Prabu Kumar, ZPD, Bangalore
				<ul> <li>Concentrate on secondary agriculture than primary agriculture.</li> </ul>	<ul> <li>Training programmes were conducted on processing and value addition on agriculture produce. Technologies were collected for value addition on millets. A proposal submitted for establishment of primary and secondary processing unit for millets. It is likely to be established at Jegaveerapandiyap uram cluster.</li> </ul>
				• Ensure quality seed production, technology and then marketing.	• Through KVK the farmers produced VBN-4 black gram seed of 1 ton and the same was marketed through farmers group.
				<ul> <li>Kvk action plan should be based on ensuring quality seed and planting material production/availability</li> </ul>	<ul> <li>KVK action plan was prepared according to the availability of seeds.</li> </ul>
				<ul> <li>Entrepreneurship development with proper license like kannur KVK should be established .SMS (HS) should visit gadag ,patharamathi and kannur KVK.</li> </ul>	• Exposure visits have been planned to visit Kannur KVK for branding and marketing the agriculture produce.
				ITK validation must for bio char programme.	On Farm Trail was conducted to validate the Bio char programme. The results are very much encouraging. ITK

### 1.8. Details of SAC meeting conducted in 2011-12

		mustices commiled
		in 2011-12.
	• Start mobile SMS.	<ul> <li>It has been planned to start mobile SMS services from this April 2012 onwards</li> </ul>
		oliwards
	<ul> <li>Dr.Ganesan, Dean, AC&amp;RI,</li> <li>Kilikulam <ul> <li>KVK has to use knowledge available at AC&amp;RI, Kilikulam</li> <li>Bio char concept has to be standardized. This can be done in collaboration with AC&amp;RI, Kilikulam. The dean is willing to extent his help to validate this technology</li> </ul> </li> </ul>	• Bio char has been supplied for M.Sc student research work in Killikulam Agriculture College.
	Due to labour scarcity and non availability selective mechanization has to be promoted.	<ul> <li>Seed drill cum Fertilizer was introduced in FLD programme.</li> <li>It has also been planned to promote groundnut decorticator and motorized weeder for dry land crop in the year 2012-13 under FLD.</li> </ul>
	<ul> <li>NABARD AGM</li> <li>Soil to market concept has been promoted in Ottapidaram block for Maize farmers and this can adopted by KVK</li> <li>•</li> </ul>	Soil to market concept has been promoted in KVK through FLD programme on Baby corn, Sorghum and Black gram seed production in Vilathikulam, Thoothukudi, Ottapidaram blocks
	• KVK can arrange a cluster approach in untapped potential area and NABARD can collaborate to	• A proposal has been submitted to NABARD for conducting training

	provide credit support for producers company	programme for champion farmers on TOT mode
	<ul> <li>P.H.ARS.Kovilpatty.</li> <li>We should focus on dry land farmer's problem like quality seed production on oil seeds pulses, minor millets etc.</li> </ul>	• We are focusing on dry land farmer's problem by quality seed production on pulses /millets etc.
	Minor millets     cultivation and     consumption has to be     encouraged	Minor millets     cultivation and     consumption was     encouraged     through     conducting     training     programmes and     awareness created     for women Self     Help Group     members
	Promotion of farm mechanization for crop cultivation and ARS has model units which can be utilized.	• ARS Mechanical weeder has been included in our FLD programme for this coming year.
	UTRC Head • Record the economics of Prosopis pod feed trail.	• The nutritive value and the economics for Prosopis pod feed trail has been recorded. The prosopis pod feed can replace wheat bran and bajra in cattle feed.
	KVK can promote rabbit and turkey	Turkey poults are produced and given to 50 farmers
	<ul> <li>Dr.Nagoor meeran</li> <li>Promote seed production in Athoor And Srivaigantham.</li> </ul>	<ul> <li>Fish seed production training conducted to Athoor farmers.</li> </ul>
	Promote Artemia     Cultivation for     ornamental fish culture     farmers in Tuticorin	Artemia cultivation training conducted for salt pan workers

		•			
		•	Promote integrate fish cultivation in dry land area	•	Demonstration on composite fish culture has been extended to 56 village ponds.
		•	Promote hygienic dry fish preparation.	•	One training programme has been organized for keelavaipar and tharuvaikulam villages.
		•	Promote inland fish cultivation with help of C.E (Agri .Engn) and fisheries department	•	We stocked fish fingerlings in four farm ponds constructed by IAM WARM project.
		ADAH •	Promote Green Fodder and azolla.	•	Thefollowingseedlings and seedsof green fodder hasbeen distributed tofarmersthroughFLDProgrammeCO-4,hedgeLucern,Subapul,Glyricidia,CoFS –29etc
		•	Promote heifer calf rearing.	•	The training was organized for 10 farmers on heifer calf rearing
		Mrs.Sal	<b>lini.AD (FISHERIES)</b> Promote back yard ornamental fish culture for SHG	Three b fish uni establis Prograr	ack yard ornamental t has been hed through FLD nme
		Dr.Mad	lan (CMFRI,Tuticorin) Pearl culture training can be given to farmers.	•	Discussion was made with CMFRI Thoodhukudi. It has been planned to conduct a training programme for rural youth in this coming year.

## PART II - DETAILS OF DISTRICT

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

S.	Farming system/enterprise
No	
1	Dry farming – single crop in a year using NE monsoon,
	Major crops- chillies, pearl millet, maize, onion, fodder sorghum, sorghum, black gram, green gram, gingelly, sunflower, groundnut, castor, redgram, cotton, tomato, ,Brinjal, cluster bean. Major livestock – goat, sheep, backyard poultry, Cross
	breed cattle, Non descript cattle.
2	Garden land farming – two or three crops in a year using open or tube well irrigation.
	Major crops- vegetables, banana, groundnut, flowers, chillies, Drum stick, and cotton.
	Major livestock- cross bred cattle, goat, backyard poultry
3	Tank fed/ river command area farming – one or two crops in a year.
	Major crops – Banana and paddy.
	Major livestock – cross bred cattle, goat, backyard poultry
4.	Coastal region – Marine fishing, goat rearing ,salt pan workers

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

S. A	Agro-climatic Zone	Characteristics
No	-	
01 S	Southern zone	The topography of the zone is undulating. This zone lies on the rain shadow area of the Western Ghats. The mean annual rainfall is 850mm with a contribution about 470mm from North East monsoon. The soil of this region falls under major groups viz., black, red, alluvial and lateritic. saline coastal alluvial soils are also present in the coastal belt. In black soil only one crop, either cotton or sorghum is raised. Direct seeded rice is cultivated under rain fed condition. On red soil, groundnut crop is raised. Under garden land conditions, Baira and chillies form the major crops.

S. No	Agro ecological situation	Characteristics
01.	Hot semiarid eco region (H <sub>1</sub> D <sub>2</sub> )	Hot and dry summers and mild winters with a mean annual rainfall of 600 to 1000mm and a length of growing period of 90-150 days in a year. Soil type- red loamy soil, Rain fed cultivation is the traditional practice with crops like millets, pulses, and oilseeds under irrigated conditions cotton, sugarcane and rice are the major crops. Severity of the soil erosion and drought due to poor moisture holding capacity of soil are the major constraints.
	Hot subhumid to semiarid eco region with coastal alluvium derived soil ( S <sub>7</sub> CD <sub>2-5</sub> )	Crop growth period 90-210 + days, coastal alluvium soil type

#### 2.3 Soil type/s

S.	Soil type	Characteristics
No		
01	Red loam	The red colour is due to the presence of various oxides of iron. They are poor in fertility,
		kaolinite. The texture of the soil varies from loam to silt clay and clay loam. The pH is
		around neutral or slightly acidic. Some soils, due to lime bearing feldspar may have a
		higher pH range of 8.0.
02	Lateritic	Yellowish-red colour soils derived from laterites which contain a large proportion of
	soil	primary kaolinite clay minerals. They exhibit plasticity, cohesion, shrinkage, and
		expansion and base saturation qualities to a small extent. They have poor water retention.
		The soils have a fairly high organic matter content but low level of lime and magnesia and
		are generally deficient in phosphorus and potassium. The pH of laterite soils is on the
		acidic side due to lack of lime and magnesia.

03	Black soil	They have a characteristic dark colour, varying from dark brown to deep black. They are			
		formed by the weathering of trap rocks. These soils have a clay percentage ranging from			
		40-60%. The composition of clay is chiefly of the montmorillonite group and thus shows			
		swelling and shrinking. The pH varies from $7.5 - 8.5$ .			
04	Sandy	These are sandy and deep but lack in profile development. Salinity is no problem due to			
	coastal	the water table being low and thus having free drainage. These sandy stretches are put			
	alluvial	under coconut and cashew plantations.			
05	Red sandy	These are derived from granites, graniloid, geneisses, quartzites and sand stones. The			
	soil	colours are due to red haematite and yellow limonite. Characteristic clay minerals are			
		mainly kaolinitic and illitic types, with smaller amounts of montmorillonite, Base			
		Exchange capacity is from 5 to 25 meq per 100 gm of soil and pH generally on the acidic			
		side, ranging from pH 4.5-6.5			

2.4.	Area, Production and Produc	ctivity of major c	crops cultivated in t	he district

S.	Сгор	Area (ha)	Production	Productivity	% to the total
No	_		(Metric tons)	(kg /ha)	area sown
1.	A. FOOD GRAINS:				
	a) CEREALS & MILLETS				
	Paddy	20007	96614	4829	10.49
	Sorghum	8959	18097	2020	4.70
	Pearlmillet	9390	18442	1964	4.92
	b) PULSES				
	Blackgram	37924	16231	428	19.88
	Greengram	35410	10871	307	18.56
2	B. FIBRE				
	Cotton	3634	3923 (in bales)	1.08 (in bales)	2.06
3.	C. OIL SEEDS				
	Groundnut	517	673	1301	0.27
	Gingelly	1120	420	375	0.59
	Sunflower	1254	528	421	0.66
4.	D. OTHER CROPS				
	Chillies	11664	4537	389	6.11

Source: District Statistical hand book of Thoothukudi,2010-11 (Latest Public citation)

## **2.5.** Weather data-2010-11

Months	Temperature		Humidity	
	Maximum	Minimum	Maximum	Minimum
June-2010	34.7	28.9	82	53
July	34.6	28.4	83	56
August	34.7	28.4	84	55
September	33.2	27.5	89	63
October	33.3	27.6	89	62
November	30.0	26.5	93	78
December	28.8	24.5	93	75
January-2011	28.9	24.1	92	71
February	30.1	25.2	92	70
March	31.9	26.2	92	69

## Weather data-Rainfall 2011-12

Months	Rain fall(mm)
April 2011	16.92
May	34.84
June	3.48
July	6.86
August	24.16
September	51.25
October	116.87
November	307.42
December	127.13
January-2012	7.71
February	5.55
March	35.83
Total	738.02

Source: 1. Scientific officer, Meterological Observatory, Tuticorin post trust (Temperature and Humidity) 2. Joint Director of Agriculture ,Thoothukudi (for rainfall)

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

Category	Population	Production	Productivity
Total Cattle	109933		
Sheep	246238		
Goats	220018		
Pigs	2621		
Rabbits	NA		
Total Poultry	252233		

Source: Regional Joint Director of Animal Husbandry. Thoothukudi

Category	Area	Production	Productivity
Fish			
Marine	163.5 km	41050 tonnes	-
Inland			
Prawn	NA	NA	NA
Scampi	NA	NA	NA
Shrimp	NA	NA	NA

Source: Assistant Director of Fisheries ,Thoothukudi

2.7 District profile has been prepared and submitted Yes / No: Yes submitted

## 2.8 Details of Operational area / Villages

Sl. No.	Taluk	Blocks/groups of villages	How long the village is covered under operational area of the KVK (specify the years)	Major crops & enterprises being practiced	Major problems identified	Identified thrust areas
1	Ottapidaram	Pudhupacheri Sevalkulam Pachaiperumalpuram Sankarajapuram S pudhur Jambulingapuram	5	Rice	Poor yield due to Improper utilization of resources,blast stemborer and leaf folder problem	ICPM
				Goat	Contagious diseases like Anthrax,HS,, pox ,and PPR leads to animal death. Reduction of Animal weight due to ecto and endo parasitism	Comprehensive disease control against infectious diseases and ecto and endo parasites
				Back yard poultry rearing	Mortality in birds due to ranikhet disease, Poor performance in birds due to intestinal worm infection, Lack of interest in poultry rearing due to predator problem	Training on the economic importance of backyard poultry Vaccination and deworming for the backyard poultry Introduction of safe country housing models
				Dairy farming	Mastitis	Prevention measures for
						mastitis
					III thrift in calves	control of endo and ecto parasites
					Mortality in cows due to infectious diseases	Vaccination against infectious diseases
2	Ottapidaram	Kuppanapuram Keelamangalam Melamangalam	5	Bhendi	Bhendi –Fruit borer and Yellow vein Mosaic diseases problems	Bio intensive Pest Management (BIPM) & introduction of resistant varieties
				Chilli	Chilli –fruit dropping, Damping off disease, Sucking pests	IDM & Bio intensive Pest Management (BIPM), varietal introuduction
				Groundnut	Poor yield due to improper application of nutrients	ICM, Varietal introduction
				Blackgram, Greengram,	B/G grams – Aphid problem during cultivation and Pulse beetle problem during storage	ICM
				Goat	Contagious diseases like Anthrax,HS,, pox ,and PPR leads to animal death. Reduction of Animal weight due to ecto and endo parasitism	Comprehensive disease control against infectious diseases and ecto and endo parasites
		1		Dairy farming	l	

					Mastitis	Prevention measures for mastitis
					Ill thrift in calves	Control of endo and ecto parasites
					Mortality in cows due to infectious diseases	Vaccination against infectious diseases
					Lack green fodder availability	Green fodder cultivation
3.	Ottapidaram	Sindhalakattai Kakkarampatti Veppalodai	5		Poor sanitation	Eco sanitary toilet
				Goat	Contagious diseases like Anthrax,HS,, pox ,and PPR leads to animal death. Reduction of Animal weight due to ecto and endo parasitism	Comprehensive disease control against infectious diseases and ecto and endo parasites
				Back yard poultry rearing	Mortality in birds due to ranikhet disease, Poor performance in birds due to intestinal worm infection, Lack of interest in poultry rearing due to predator problem	Training on the economic importance of backyard poultry Vaccination and deworming for the backyard poultry Introduction of safe country housing models
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					Ill thrift in coluce	mastitis Control of ando and acto
					In thrut in carves	parasites
					Mortality in cows due to infectious diseases	Vaccination against infectious diseases
			_			
4	Vilathikulam	K kumarettiyapuram	9	Cumbu, Tinai, sorghum	Poor marketing of agricultural produce Poor yield due to local varieties, earhead caterpillar in cumbu	Formation of commodity groups Indigenous low cost storage facility promotion
				Blackgram, Greengram	Poor pod setting due to improper appln. Nutrients and pest management, labour scarcity weed management	Pre monsoon sowing in pulses Introduction of Short duration and drought resistant and high yielding varieties in pulses, introduction of dry land weeder
				Chilli	Flower and fruit drops due to improper application of nutrients and pesticides	INM & IPM practices
				Chilli Back yard poultry rearing	Flower and fruit drops due to improper application of nutrients and pesticides Mortality in birds due to ranikhet disease, Poor performance in birds due to intestinal worm infection, Lack of interest in poultry rearing due to predator problem	INM & IPM practices Training on the economic importance of backyard poultry Vaccination and deworming for the backyard poultry Introduction of safe country housing models
				Chilli Back yard poultry rearing Fisheries	Flower and fruit drops due to improper application of nutrients and pesticides Mortality in birds due to ranikhet disease, Poor performance in birds due to intestinal worm infection, Lack of interest in poultry rearing due to predator problem Lack of awareness in fish rearing in village ponds	INM & IPM practices Training on the economic importance of backyard poultry Vaccination and deworming for the backyard poultry Introduction of safe country housing models Composite fish cultivation in village ponds

		TZ 1 1 1 1 1				
		Keelavilathikulam				
		Velidupatti Ayan bommaiyapuram		Cotton	Cotton-Sucking pests problem	IPM
				Onion	Onion-purple blotch	IDM
				Back yard poultry rearing	Mortality in birds due to ranikhet disease, Poor performance in birds due to intestinal worm infection, Lack of interest in poultry rearing due to predator problem	Training on the economic importance of backyard poultry Vaccination and deworming for the backyard poultry Introduction of safe country housing models
				Goat	Contagious diseases like Anthrax,HS,, pox ,and PPR leads to animal death. Reduction of Animal weight due to ecto and endo parasitism	Comprehensive disease control against infectious diseases and ecto and endo parasites
				Back yard poultry rearing	Mortality in birds due to ranikhet disease, Poor performance in birds due to intestinal worm infection, Lack of interest in poultry rearing due to predator problem	Training on the economic importance of backyard poultry Vaccination and deworming for the backyard poultry Introduction of safe country housing models
				Dairy farming		
					High cost of concentrate feeding	Feeding prosobis pods as an alternative concentreate feed to reduce the cost of feeding
					Ill thrift in calves	Control of endo and ecto parasites
					Mortality in cows due	Vaccination against
					Lack of green fodder	Green fodder cultivation
				Fisheries	Lack of awareness in fish rearing in village ponds	Composite fish cultivation in village ponds
6	Vilathikulam	Soorankudi Thangammalpuram Kumarasakkanapuram Veerakanchipuram	5	Blackgram, Greengram	Poor pod setting due to improper appln. Nutrients and pest management, labour scarcity weed management	Pre monsoon sowing in pulses Introduction of Short duration and drought resistant and high yielding varieties in pulses , introduction of dry land weeder
				Back yard poultry rearing	Mortality in birds due to ranikhet disease, Poor performance in birds due to intestinal worm infection, Lack of interest in poultry rearing due to predator problem	Training on the economic importance of backyard poultry Vaccination and deworming for the backyard poultry Introduction of safe country housing models
				Fisheries	Lack of awareness in fish rearing in village ponds	Composite fish cultivation in village ponds
		Sippikulam	2	Goat	Contagious diseases like Anthrax,HS,, pox ,and PPR leads to animal death.	Comprehensive disease control against infectious diseases and ecto and endo parasites

8Perurani V.R.Patti Thimmarajapuram Allikulam M. Kootunkadu6Jasmine Marikolundhu Kanagambaram Paddy• Non availability of flower round the year • Heavy incidence of wilt • Low yield and • Low yield and • Cono weader• Introduction of Sarai cooker	Is iess gery in • Introduction of Sarai cooker ste y of Pruning and INM re ce of IPM Paddy direct seeding als cono weeder	<ul> <li>Mortality in kids due to enteritis</li> <li>Lack of awareness on poultry management</li> <li>Increased drudgery of farm women in cooking</li> <li>Improper utilization of agricultural waste</li> <li>Health hazards</li> <li>Non availability of flower round the year</li> <li>Heavy incidence of wilt</li> <li>Low yield and</li> </ul>	Goat and Milch animal rearing Poultry Women drudgery Jasmine Marikolundhu Kanagambaram Paddy	6	Perurani V.R.Patti Thimmarajapuram Allikulam Andal nagar M. Kootunkadu	8
8       Perurani V.R.Patti Thimmarajapuram Aldal nagar       6       Jasmine       • Non availability of flower round the year       Pruning and INM         Marikolundhu Kanagambaram       • Non availability of flower round the year       Pruning and INM         Marikolundhu Marikolundhu Marikolundhu Marikolundhu Marikolundhu Kanagambaram       • Heavy incidence of wilt       IPM         M. Kootunkadu       Paddy       • Low yield and increased cost of inputs and labour       • Increased cost of inputs and labour       Introduction of Sarai cool         Introduction of agricultural waste • Health hazards       • Meath hazards       • Meath hazards	ste y of Pruning and INM e of IPM Paddy direct seeding alo of cono weeder pur gery Introduction of Sarai coo ste	<ul> <li>agricultural waste</li> <li>Health hazards</li> <li>Non availability of flower round the year</li> <li>Heavy incidence of wilt</li> <li>Low yield and</li> <li>Increased cost of inputs and labour</li> <li>Increased drudgery of farm women</li> <li>Improper utilization of agricultural waste</li> <li>Health hazards</li> </ul>	Jasmine Marikolundhu Kanagambaram Paddy Women drudgery	6	Perurani V.R.Patti Thimmarajapuram Allikulam Andal nagar M. Kootunkadu	8

9		Korampallam Athimarapatti Kuliankarisal Kootampuli Sawerpuram	4	Paddy Banana Rice fallow pulses All crops	<ul> <li>Low production due to imbalance fertilizer application</li> <li>Poor grain quality and low test weight due to zinc deficiency</li> <li>Soil salinity</li> <li>Incidence of stem borer and leaf folder</li> <li>Labour shortage and increased cost of inputs</li> <li>Yield level getting reduced due to non application of micro nutrient</li> <li>Wilt incidence</li> <li>Cigar end rot in nendran</li> <li>Low productivity per area</li> <li>Low yield due to local var</li> <li>Incidence of YMV</li> <li>Poor microbial activity in soil and low organic matter</li> <li>Low price for commodity</li> <li>Soil and water pollution</li> </ul>	Soil test and LCC based fertilizer management Introduction of RMD var IPM SRI Foliar application of Micronutrient Precision farming Introduction of short duration HYV IPM Vermicompost and bio fertilizer • Formation of commodity groups • Delayed marketing • Organic farming • Biopesticides
10	Srivaigundam	Singithurai	5	Marine fisheries	Low fish landing	<ul><li>Awareness</li><li>Information center</li><li>Demonstration</li></ul>
11	Thiruchendur	Veerapandiapatnam	5	Fisheries	• Improper fish drying leading to low value dry fish production	<ul> <li>Club formation</li> <li>Improved drying technology</li> <li>Availing loan</li> </ul>
12	Udankudi	Semmarikulam Kalvilai	1	Paddy,	Low yield, pest and disease probm, labour problem	IPM & INM technologies, , Drudgery reduction among farm women
				Banana,	Low yield, pest and disease probm,	IPM & INM technologies,
				coconut	Low yield, pest and disease probm, labour problem	IPM & INM technologies, Drudgery reduction among farm women
				Dairy, goat units	Prevalence of predator	Promotion of backyard

			& poultry	attack and no awareness on vaccination	poultry in cage system Disease control in livestocks and poultry Promotion of green fodder cultivation
					•
13	sathankulam	Pannamparai Naganai	Paddy	1.Low yield due to Brown Plant Hopper and Ear head bug attack	1.Integrated pest management
				2.Low yield due to no awareness on fertilizer mananagement	2.Integrated Nutrient Management
				3.Labour shortage during cropping period	3.Mechanization on weeding, harvesting
			Banana	1.Low yield due to no awareness on nutrient management	1.Integrated Nutrient Management technologies
				2.low yield due to wilt disease and stem weevil	2.Pest and disease management
			Coconut	1.Low yield due to Rhinoceros beetle, red palm weevil attack	Integrated pest management
				2.Labour shortage for harvesting	Coconut climber for harvesting coconut nuts
					intercropping with coco
			Poultry	1.Prevalence of predator attack	Promotion of backyard poultry in cage system
				2.Mortality due to Ranikhet disease	Promoting vaccination & disease management
				3. Low production potential of desi birds	Introduction of improved backyard poultry breeds
			Cattle	Loss in milk production due to Mastitis Incidence	Disease prevention and management
				Drudgery faced by woman while milking of animals like back pain knee pain etc	Drudgery reduction of farm women
			Goat	Ill thrift due to ecto	Disease prevention and
				and endoparasitism	management
					•

### 2.9 Priority Thrust Areas

S. No	Thrust area
1.	Promotion of soil test based nutrient management
2.	Improvement of soil fertility through sustainable practices
3.	Promotion of ICM practices and latest high yielding varieties for major crops like Paddy, Banana, Chilli,
	Maize, Blackgram, Green gram, Tomato, Onion, and Cotton
4.	Promotion of ecological pest control measures and organic farming techniques
5.	Promotion of Bio fertilizers and Vermicompost usage
6.	Promoting Tree planting in wastelands and in the backyards
7.	Ensuring nutritional security of farm women through Kitchen gardening, storage and healthy cooking habits
8.	Promotion of value added product preparation from prosopis juliflora, milk, fishes, banana, and minor
	millets
9.	Promotion of alternative poultry farming, improved backyard poultry breeds, and artificial incubation of
	eggs.
10.	Promotion of comprehensive disease control measures in livestock
11.	Promotion of feeding and breeding management in cattle and goats
12.	Promotion of inland freshwater fish cultivation in village ponds

## PART III - TECHNICAL ACHIEVEMENTS

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

	0	FT		FLD				
		1		2				
Num	ber of OFTs	Numb	er of farmers	Num	ber of FLDs	Numb	er of farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement	
5	5	45	50	17	17	163	184	

	Tra	ining		Extension Programmes				
		3		4				
Numb	er of Courses	Number	of Participants	Number	of Programmes	Number of participants		
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement	
200	217	3000	3861	850	1144	10000	15251	

Seed Pro	duction (Qtl.)	Planting materials (Nos.)				
	5	6				
Target	Achievement	Target	Achievement			
30.0	31.7	70000	77553			
Livestock, poultry str	ains and fingerlings (No.)	Bio-products (Kg)				
	7		8			
Target	Achievement	Target	Achievement			
11070	11395	3000	3660			

								Intervent	ions				
S. No	Thrust area	Crop/ Enterprise	Identified Problem	Title of OFT if any	Title of FLD if any	Number of Training (farmers)	Number of Training (Youths)	Number of Training (extension personnel)	Extension activities (No.)	Supply of seeds (Qtl.)	Supply of planting materials (No.)	Supply of livestock (No.)	Supply of bio products (no.)
1.	Improveme nt of soil fertility through sustainable practices	Banana	Low organic carbon content in soil Reduced yield in banana due to non application of agricultural waste as manure and Degradation of soil quality Poor water holding capacity.	Assessi ng the utility of enriched biocharc oal soil sinking for improvi ng the soil quality and yield in Banana		8	2	0	54	0			153

2.	Promotion	Banana	Low organic		ICMP in	4	2	1	55	0			154
	of ICM		carbon		banana								
	practices		content in										
	and latest		soil										
	high		Reduced										
	vielding		yield in										
	voriation		banana due										
	formation		to non										
	for major		application										
	crops like		of										
	Paddy,		agricultural										
	Banana,		waste as										
	Chilli,		manure and										
	Maize,		Degradation										
	Blackgram,		of soil										
	Green gram.		quality										
	Tomato.		Poor water										
	Onion and		holding										
	Cotton		capacity.										
	Conon												
			4 X C 1	•		4	2	0	50	01			1.50
3.	Promotion	Tomato	1. Leaf curl	Assess		4	2	0	53	2kg	-	-	153
3.	Promotion of ICM	Tomato	1. Leaf curl virus	Assess ment of		4	2	0	53	2kg	-	-	153
3.	Promotion of ICM practices	Tomato	1. Leaf curl virus infection	Assess ment of suitable		4	2	0	53	2kg	-	-	153
3.	Promotion of ICM practices and latest	Tomato	1. Leaf curl virus infection 2.Poor	Assess ment of suitable variety		4	2	0	53	2kg	-	-	153
3.	Promotion of ICM practices and latest high	Tomato	1. Leaf curl virus infection 2.Poor nursery	Assess ment of suitable variety for leaf		4	2	0	53	2kg	-	-	153
3.	Promotion of ICM practices and latest high yielding	Tomato	1. Leaf curl virus infection 2.Poor nursery practices	Assess ment of suitable variety for leaf curl disease		4	2	0	53	2kg	-	-	153
3.	Promotion of ICM practices and latest high yielding varieties	Tomato	1. Leaf curl virus infection 2.Poor nursery practices 3. PKM1	Assess ment of suitable variety for leaf curl disease raictanc		4	2	0	53	2kg	-	-	153
3.	Promotion of ICM practices and latest high yielding varieties for major	Tomato	1. Leaf curl virus infection 2.Poor nursery practices 3. PKM1, the other	Assess ment of suitable variety for leaf curl disease reistanc e and		4	2	0	53	2kg	-	-	153
3.	Promotion of ICM practices and latest high yielding varieties for major crops like	Tomato	1. Leaf curl virus infection 2.Poor nursery practices 3. PKM1, the other ruling	Assess ment of suitable variety for leaf curl disease reistanc e and high		4	2	0	53	2kg	-	-	153
3.	Promotion of ICM practices and latest high yielding varieties for major crops like Paddy	Tomato	<ol> <li>Leaf curl virus infection 2.Poor nursery practices</li> <li>PKM1, the other ruling variety is</li> </ol>	Assess ment of suitable variety for leaf curl disease reistanc e and high vield		4	2	0	53	2kg	-	-	153
3.	Promotion of ICM practices and latest high yielding varieties for major crops like Paddy, Banana	Tomato	<ol> <li>Leaf curl virus infection 2.Poor nursery practices</li> <li>PKM1, the other ruling variety is susceptible</li> </ol>	Assess ment of suitable variety for leaf curl disease reistanc e and high yield with		4	2	0	53	2kg	-	-	153
3.	Promotion of ICM practices and latest high yielding varieties for major crops like Paddy, Banana, Chilli	Tomato	<ol> <li>Leaf curl virus infection 2.Poor nursery practices</li> <li>PKM1, the other ruling variety is susceptible to leaf curl</li> </ol>	Assess ment of suitable variety for leaf curl disease reistanc e and high yield with COTH 2		4	2	0	53	2kg	-	-	153
3.	Promotion of ICM practices and latest high yielding varieties for major crops like Paddy, Banana, Chilli, Maize	Tomato	<ol> <li>Leaf curl virus infection 2.Poor nursery practices</li> <li>PKM1, the other ruling variety is susceptible to leaf curl virus and</li> </ol>	Assess ment of suitable variety for leaf curl disease reistanc e and high yield with COTH 2 Tomato		4	2	0	53	2kg	-	-	153
3.	Promotion of ICM practices and latest high yielding varieties for major crops like Paddy, Banana, Chilli, Maize, Plaakaram	Tomato	<ol> <li>Leaf curl virus infection 2.Poor nursery practices</li> <li>PKM1, the other ruling variety is susceptible to leaf curl virus and give only 25</li> </ol>	Assess ment of suitable variety for leaf curl disease reistanc e and high yield with COTH 2 Tomato		4	2	0	53	2kg	-	-	153
3.	Promotion of ICM practices and latest high yielding varieties for major crops like Paddy, Banana, Chilli, Maize, Blackgram,	Tomato	<ol> <li>Leaf curl virus infection 2.Poor nursery practices</li> <li>PKM1, the other ruling variety is susceptible to leaf curl virus and give only 25 -30 t/ha</li> </ol>	Assess ment of suitable variety for leaf curl disease reistanc e and high yield with COTH 2 Tomato		4	2	0	53	2kg	-	-	153
3.	Promotion of ICM practices and latest high yielding varieties for major crops like Paddy, Banana, Chilli, Maize, Blackgram, Green gram,	Tomato	<ol> <li>Leaf curl virus infection 2.Poor nursery practices</li> <li>PKM1, the other ruling variety is susceptible to leaf curl virus and give only 25 -30 t/ha</li> </ol>	Assess ment of suitable variety for leaf curl disease reistanc e and high yield with COTH 2 Tomato		4	2	0	53	2kg	-	-	153
3.	Promotion of ICM practices and latest high yielding varieties for major crops like Paddy, Banana, Chilli, Maize, Blackgram, Green gram, Tomato,	Tomato	<ol> <li>Leaf curl virus infection 2.Poor nursery practices</li> <li>PKM1, the other ruling variety is susceptible to leaf curl virus and give only 25 -30 t/ha</li> </ol>	Assess ment of suitable variety for leaf curl disease reistanc e and high yield with COTH 2 Tomato		4	2	0	53	2kg	-	-	153
3.	Promotion of ICM practices and latest high yielding varieties for major crops like Paddy, Banana, Chilli, Maize, Blackgram, Green gram, Tomato, Onion, and	Tomato	<ol> <li>Leaf curl virus infection 2.Poor nursery practices</li> <li>PKM1, the other ruling variety is susceptible to leaf curl virus and give only 25 -30 t/ha</li> </ol>	Assess ment of suitable variety for leaf curl disease reistanc e and high yield with COTH 2 Tomato		4	2	0	53	2kg	-	-	153

4.	Promotion	Bhendi	1 Lower	Introductio	7						
	of ICM	Difeitur	productivity.	n of	,						
			2.YVMV	COBh(H)							
	practices		infection. 3.	1 Bhendi							
	and latest		High cost of								
	high		cultivation								
	yielding										
	varieties										
	for major										
	crops like					2	0	54	5kg		152
	Paddy,					2	0	54	JKg		152
	Banana,										
	Chilli,										
	Maize.										
	Blackgram										
	Green gram										
	Tomato										
	Onion and										
	Cotton										
5	Cotton	Ch:III	Lashof	 Due us etime	5						
	Lino motion		1	Promonna							
5.	FIOIDOLIOI	Cillin	knowledge on	VVM 1	5						
5.	of ICM	Cillin	knowledge on plant	KKM-1	5						
5.	of ICM practices	Cillin	knowledge on plant protection	KKM-1 chilli high	J						
5.	of ICM practices and latest	Chini	knowledge on plant protection measures.	KKM-1 chilli high yielding	5						
5.	of ICM practices and latest high	Cillin	knowledge on plant protection measures. Poor yield due	KKM-1 chilli high yielding variety	5						
5.	of ICM practices and latest high yielding	Chin	knowledge on plant protection measures. Poor yield due to fruit borer	KKM-1 chilli high yielding variety	5						
5.	of ICM practices and latest high yielding varieties	Chini	knowledge on plant protection measures. Poor yield due to fruit borer incidence	KKM-1 chilli high yielding variety	5						
5.	of ICM practices and latest high yielding varieties for major	Chini	knowledge on plant protection measures. Poor yield due to fruit borer incidence Poor market price due to	KKM-1 chilli high yielding variety	5						
5.	of ICM practices and latest high yielding varieties for major crops like	Cinin	knowledge on plant protection measures. Poor yield due to fruit borer incidence Poor market price due to poor keeping	KKM-1 chilli high yielding variety	5						
5.	of ICM practices and latest high yielding varieties for major crops like Paddy.	Cinin	knowledge on plant protection measures. Poor yield due to fruit borer incidence Poor market price due to poor keeping quality	KKM-1 chilli high yielding variety	5	2	0	54	2kg		153
3.	of ICM practices and latest high yielding varieties for major crops like Paddy, Banana.	Cinin	knowledge on plant protection measures. Poor yield due to fruit borer incidence Poor market price due to poor keeping quality	KKM-1 chilli high yielding variety	5	2	0	54	2kg		153
	of ICM practices and latest high yielding varieties for major crops like Paddy, Banana, Chilli,		knowledge on plant protection measures. Poor yield due to fruit borer incidence Poor market price due to poor keeping quality	KKM-1 chilli high yielding variety		2	0	54	2kg		153
	of ICM practices and latest high yielding varieties for major crops like Paddy, Banana, Chilli, Maize		kack of knowledge on plant protection measures. Poor yield due to fruit borer incidence Poor market price due to poor keeping quality	KKM-1 chilli high yielding variety	5	2	0	54	2kg		153
	of ICM practices and latest high yielding varieties for major crops like Paddy, Banana, Chilli, Maize, Blackgram		kack of knowledge on plant protection measures. Poor yield due to fruit borer incidence Poor market price due to poor keeping quality	KKM-1 chilli high yielding variety		2	0	54	2kg		153
	of ICM practices and latest high yielding varieties for major crops like Paddy, Banana, Chilli, Maize, Blackgram, Green gram		knowledge on plant protection measures. Poor yield due to fruit borer incidence Poor market price due to poor keeping quality	KKM-1 chilli high yielding variety		2	0	54	2kg		153
	of ICM practices and latest high yielding varieties for major crops like Paddy, Banana, Chilli, Maize, Blackgram, Green gram, Tomato		knowledge on plant protection measures. Poor yield due to fruit borer incidence Poor market price due to poor keeping quality	KKM-1 chilli high yielding variety		2	0	54	2kg		153
	of ICM practices and latest high yielding varieties for major crops like Paddy, Banana, Chilli, Maize, Blackgram, Green gram, Tomato, Onion and		knowledge on plant protection measures. Poor yield due to fruit borer incidence Poor market price due to poor keeping quality	KKM-1 chilli high yielding variety		2	0	54	2kg		153
	of ICM practices and latest high yielding varieties for major crops like Paddy, Banana, Chilli, Maize, Blackgram, Green gram, Tomato, Onion, and		knowledge on plant protection measures. Poor yield due to fruit borer incidence Poor market price due to poor keeping quality	KKM-1 chilli high yielding variety		2	0	54	2kg		153

6.	Promotion of ICM practices and latest high yielding varieties for major crops like Paddy, Banana, Chilli, Maize, Blackgram, Green gram, Tomato, Onion, and Cotton	Onion	Cultivation of low yielding unnamed varieties -Thrips and cutworm pest attack -Blight disease incidence -High cost of cultivation	Introductio n of small onion seed setting variety	7	2	0	25	8kg		153
7.	Promotion of Inter cropping	Coconut	Low yield in coconut per unit area Under utilization of the land	Multitier inter cropping system in coconut with cocoa, banana	7	2	1	12		1800 plant	153

8.	Promotion of ICM practices and latest high yielding varieties for major crops like Paddy, Banana, Chilli, Maize, Blackgram, Green gram, Tomato, Onion, and Cotton	Paddy	Low yield due to lack of knowledge of fertilizer management		Integrated Nutrient Manageme nt on Paddy	9	2	1	24	300 kg		154
9.	Promotion of ICM practices and latest high yielding varieties for major crops like Paddy, Banana, Chilli, Maize, Blackgram, Green gram, Tomato, Onion, and Cotton	Black Gram	Drought for pulses Lower yield caused by drought	Assess ment of perform ance of foliar applicati on of methyl bacteriu m for drought toleranc e in pulses		9	2	1	32	50 kg		152

10	Promotion of ICM practices and latest high yielding varieties for major crops like Paddy, Banana, Chilli, Maize, Blackgram, Green gram, Tomato, Onion, and Cotton	Black Gram	Drought for pulses Lower yield caused by drought		Participato ry method of seed production for vamban -5 varieties	8	2	1	36	100kg		154
11	Promotion of feeding and breeding managemen t in cattle and goats	Dairy cows	1. High cost of feeding,	Inclusio n of Prosopis juliflora pod flour as an alternati ve concentr ate feed for dairy cows to bring down the cost of concentr ate feeding		7	2	0	25	0		152

12	Promotion of feeding and breeding managemen t in cattle and goats	Fodder	Non availability of round the year quality green fodder results in feeding only the dry fodder ( costlier – one bundle of 10 kg fodder is sold @ Rs. 27)		Multi tier fodder cultivation to get round the year green fodder for livestocks	6	1	1	54	0	60070	150
13	Promotion of comprehens ive disease control measures in livestock	Dairy cattle	Delay in appearanc e of oestrum after parturition results in increased intercalvin g interval and thereby increases the production cost, Mastitis incidence decreases the milk yield	Assessi ng the Role of different mineral mixture s with or without vitamins in Post partum anoestru m manage ment in crossbre d cows	Clean milk production in dairy cattle	10	1	1	24	0	0	0

14	Promotion of comprehens ive disease control measures in livestock	Goat	1. mortality in goats due to infectious disease like HS, Anthrax, PPR, ET 2. mortality in goats due to liverfluke and other helminthiosis 3. poor weight gain due to tick infestation		Comprehe nsive Disease control measures in goats	8	1	1	39		46	0
15	Ensuring nutritional security of farm women through Kitchen gardening, storage and healthy cooking habits	Improved cookers	Traditional method of cooking is very drudgery prone and leads to health hazards		Promotion of Sarai cooker	11	1	3	59			0
16	Ensuring nutritional security of farm women through Kitchen gardening, storage and healthy cooking habits	Vegetable	Poor shelf life of the produce. Poor nutritional quality and distress role of vegetables	] ; ; ; ; ; ;	Promotion of Farmers friendly low cost vegetable preservato r	10	1	1	59	1000		154

17	Promotion of value added product preparation from	Maize	Poor yield due to downy mildew disease and stem borer Lack of knowledge on hybrid	Promotion of baby corn cultivation for value added maize	8	1	1	14	50 kg		154
	prosopis juliflora, milk,fishes ,banana,and minor millets		variety. Labour shortage for de – sheathing maize cobs.	products preparatio n							
18	Promotion of value added product preparation from prosopis juliflora , milk ,fishes ,banana ,and minor millets	Sorghum	Lack of awareness on value addition to sorghum	Introductio n of Sorghum CO(S) 30 for value added product preparatio n	8	1	0	24	100kg		152

19	Promotion of alternative poultry farming, improved backyard poultry breeds, and artificial incubation of eggs.	Backyard poultry	Rearing desi breeds of low laying capacity Poor feeding practices (foraging only no additional feed) Allowing the birds for incubation results in reduced egg production n Mortality in chicks due to predators attack like mongoose, wild cats, and eagle	Promotion of homestead incubator and cage system of backyard poultry rearing with improved breeds	8	1	1	44		6800	
20	Promotion of inland freshwater fish cultivation in village ponds	Fish	1.Unutilasati on of potential water bodies 2.less water duration period (6 months )	Composite fish cultivation with stunted fingerlings in village common ponds	9	1	0	54		10000	
21	Promotion of ornamental fish cultivation in backyards	Ornament al fish	Lack of awareness about ornamental fish cultivation	Ornamental fish cultivation in backyard	10	1	0	21		5000	

### 3.B2. Details of technology used during reporting period

				No	o.of prog	grammes	conducted																
S.N	<b>T'</b> 41 <b>CTDLL</b>	Source of	0			,			0	FT			F	LD			Trai	ning			Oth	ners	
0	The of Technology	technology	Crop/enterprise	OFT	FLD	Train ing	Others (Specify)	Gene	eral	SC/S	Т	Gene	ral	SC/S	Г	Gene	ral	SC/S	Г	Gene	ral	SC/S	Г
						0		Μ	F	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	Tomato -COTH-2	TNAU	Tomato	1		1		10															
	Arka Ananya	IIHR	Tomato	1		1		10															
02	Bhendi variety – CO- Bh-1	TNAU	Bhendi		1	2						5	5			12		12		12	0	12	0
03	Prosopis pod flour as an alternative concentrate feed ingredient	CAZRI, Jodhpur	Dairy cattle	1		2	Exhibition-1									25	12	6	4	212	217	58	62
04	Composite fish culture in village ponds with stunted fingerlings	TANUVAS	Fish		1	24	Exhibition, film show-1					5	3	9	7	12	8	19	25	124	65	28	60
05	Ecological fruity fly control in Moringa	TNAU	Moringa													6	12	18	12				
06	Ranikhet disease vaccine- Lasota	TANUVAS	Poultry			4	Exhibition, - 1film show									48	24	31	19				
07	Ranikhet disease vaccine- RDVK	TANUVAS	Poultry			4	Vet.camp-6									48	24	31	19				
08	Ranikhet disease vaccine- Oral pellet vaccine	TANUVAS	Poultry			4										48	24	31	19				
09	Baby corn maize cultivation	DMR	Maize		1	4										42	168	25	123				
10	Sorghum Co S -30 cultivation	TNAU	Sorghum		1	4										25	36	19	27				
11	Mineral mixture feeding to enhance fertility in cattle	TANUVAS	Dairy cattle	1		2	Exhibition-1	10								28							
12	Post milking teat dipping with antiseptics	TANUVAS	Dairy cattle		1	4	Exhibition-1					10				32							
13	Enriched biochar soil sinking	International Biochar research	Banana	1		4		5		5						10	14	12	8				
14	ICM in banana	TNAU, IIHR, NRC banana	Banana		1	4						10				19	17	12	10				
15	Comprehensive disease control in goats	TANUVAS	Goat		1	9	Veterinary camp-49					15	15	15	15	34	48	24	22				
16	Chilli variety – KKM-1	TNAU	Chilli		1	2						6		4		15	18	19	10				

17	Low cost efficient vegetable preservator	CRIDA	Vegetable preservation		1	4	Exhibition,					4		2	24	55	22	56		
18	Improved charcoal cooker Sarai cooker	ICMR	Charcoal cooker		1	4	Exposure visit, field day					6		4	15	65	12	66		
19	Improved back yard poultry breed – Vanaraja,	PDOP, Hyderabad	Backyard poultry				Exposure visit, exhibition, field day				5	10	5	5	150	210	45	80		
20	Improved back yard poultry breed – NDC- 1	TANUVAS	Backyard poultry		1	4					5			5	45	26	28	16		
21	Improved Japanese quail breed – nandanam III	TANUVAS	Japanese Quail			4	Exhibition,								25	5	22	6		
22	Cage system of backyard poultry rearing under semi intensive system	TANUVAS	Backyard poultry		1	6	Exhibition,								25	21	35	20		
23	Homestead low cost incubator for hatching backyard poultry eggs	TANUVAS	Backyard poultry hatchery		1	6	Exhibition,				6	4	4	3	150	210	45	80		
24	Small onion seed variety Co(ON)-5	TNAU	Onion		1	2					6	4			15	16				
25	Green fodder- CN hybrid CO-4	TNAU	Green fodder		1	2	Field day, exhibition				8		2		12	10	6	6		
26	Green fodder – hedge lucerne	TNAU	Green fodder			2					8		2		12	10	6	6		
27	Green fodder – STYLO	ICAR	Green fodder			2	Film show								30	30	20	20		
28	Green fodder- CoFS 29	TNAU	Green fodder			2	Field day -2								30	30	20	20		
29	Black gram drought and YMV resistant variety	TNAU	Blackgram		1	3	Field day -2				10	5			30	15	10	10		
30	Methyl bacterium seed treatment for Drought tolerance	TNAU	Blackgram	1		2		5	5						30	15	10	10		

## PART IV - On Farm Trial

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Integrated Nutrient										
Management					1					
Varietal Evaluation					1					
Integrated Pest										
Management										
Integrated Crop			1							
Management										
Integrated Disease										
Management										
Small Scale Income										
Generation										
Enterprises										
Weed Management										
Resource						1				
Conservation										
Technology										
Farm Machineries										
Integrated Farming										
System										
Seed / Plant										
production										
Value addition										
Drudgery										
Reduction										
Storage Technique										
Mushroom										
cultivation										
Total			1		1	1				

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

#### -NIL-

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

Thematic areas	Cattle	Poultry	Piggery	Rabbitry	Fisheries	TOTAL
Evaluation of Breeds						
Nutrition Management						
Disease of Management						
Value Addition						
Production and Management	1					
Feed and Fodder	1					
Small Scale income generating						
enterprises						
TOTAL	2					

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

## 4.B. Achievements on technologies Assessed and Refined

Thematic areas	Сгор	Name of the technology assessed	No. of trials	Number of farmers	Area in ba
Integrated Nutrient Management				Tar mers	na
Varietal Evaluation	Tomato	PKM-1,COTH-2,ArkaAnanya	10	10	1.2
Integrated Pest Management					
Integrated Crop Management	Black gram	Methylobacterium seed treatment and foliar application to enhance the drought tolerance	10	10	4
Integrated Disease Management					
Small Scale Income Generation Enterprises					
Weed Management					
Resource Conservation Technology	Banana	Enriched biochar soil application	10	10	2
Farm Machineries					
Integrated Farming System					
Seed / Plant production					
Value addition					
Drudgery Reduction					
Storage Technique					
Mushroom cultivation					
Total			30	30	7.2

### 4.B.1. Technologies Assessed under various Crops

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

-NIL\_

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

Thematic areas	Name of the livestock	Name of the technology	No. of trials	No. of farmers
	enterprise	assessed		
Evaluation of breeds				
Nutrition management	Dairy cattle	Assessing utility of prosobis juliflora pod flour as an cheap alternative concentrate feed	10	10
		ingredient		
Disease management				
Value addition				
Production and management	Dairy cattle	Assessing the utility of different mineral mixtures to prevent post partum anoestrum and delayed onset of oestrum	10	10
Feed and fodder				
Small scale income generating enterprises				
Total			20	20

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

-NIL

### 4.C1. Results of Technologies Assessed

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

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Tomato	Irrigated	Low yield Poor cropping pattern	Assessing the tomato varieties for pest and disease resistance and high yield	10	PKM-1	No of fruit setting in the plant No of infected plants / unit area	28 1/sq.m	PKM -1 is susceptible for leaf curl virus infection during vegetative stage results in reduced yield	The shelf life of the produce is high than other varieties	Nil	
					COTH-2	No of fruit setting in the plant No of infected plants / unit area	46 nil	Healthy seedlings are produced with the usage of portray Due to high yielding variety more fruit setting is observed Stalking should be provided for effective yield.	Nice red colour for easy marketing	Nil	
					Arka Ananya	No of fruit setting in the plant No of infected plants / unit area	42 nil	Healthy seedlings are produced with the usage of portray Due to high yielding variety more fruit setting is observed	Nice red colour for easy marketing	Nil	
Black gram	Dry land farming	Drought for pulses Lower yield caused by drought	Assessment of performance of foliar application of methyl bacterium for drought tolerance in pulses	10	2% DAP foliar application	No of pods / plants No of seed / pods	25.2 5.4	During the last season 2011 – 2012 there is no drought to assess the crop result	Not able to assess the drought during the crop season	Nil	-
					methyl bacterium foliar spray ( pre flowering post flowering )	No of pods / plants No of seed / pods	25.4 5.5	During the last season 2011 – 2012 there is no drought to assess the crop result	Not able to assess the drought during the crop season		
			Assessing the					Incompany in d			
Banana	Irrigated	Poor soil fertility Low bunch weight and low yield	utility of enriched bio char soil sinking for improving the soil fertility and yield in banana	10	Soil application rice hull ash @ 2kg / sucker	No of fingers /hand Bunch weight Microbial count	15.4 15.5 1.5 X10 <sup>8</sup>	Improvement in the water holding capacity reduced the requirement of number of irrigations			

					Soil application of enriched bio char @ 2kg / sucker	No of fingers /hand Bunch weight Microbial count	17.4 20.5 4.2 X 10 <sup>8</sup>	Improvement in the water holding capacity reduced the requirement of number of irrigations Increase in the number of fingers and bunch weight and there by higher yield	Less irrigation is enough for the crop Usage of less chemical fertilizer Increase in the bunch weight and there by higher yield than the T1	
		High cost of								
Dairy cows	Semi intensive system of rearing	frigh cost of concentrate feeding reduces the profit margin in dairy farming	Assessing he utility of prosobis juliflora pod flour as an alternate concentrate feed in dairy cattle	10	Grazing + green fodder + concentrate feeding	Milk yield Cost of concentrate feed/kg	11.5 lit/day 14.5			
					Grazing + green fodder + concentrate feed (replacing upto 1kg of wheat bran or pearl millet in the daily ration )	Milk yield Cost of concentrate feed /kg	11.5 lit/day 12.5	Prosobis juliflora pod flour saflely replaces wheat bran or pearlmillet in concentrate feed in dairy cattle ration upto one kg/day without affecting the milk yield and there by reduces the daily feed cost by Rs.2 per cattle. Prosobis pod flour grinding and transport cost can be reduced by establishing grinder mill in the locality were the pods are collected	Prosobis pod flour gives good flavor to the concentrate feed and stimulates the cattle to eat the concentrate feed without waste	
	Semi	Delayed on set			Grazing +	1)Time required	141 dave	Inter calving period		<u> </u>
Dairy cows	intensive system of	of first heat after calving due to mineral and	Assessing the utility if different mineral mixtures	10	concentrate feeding + green fodder	for first heat from calving	141 uays	was very high		

rearing	vitamin deficiency results in increased intercalving period and infertility in dairy cows			<ul> <li>2) No.of inseminations required for pregnancy</li> <li>3) Intercalving period</li> <li>4) percentage of animals become pregnant</li> </ul>	4.85 585 days 85 %				
		10	Grazing + green fodder + mineral mixture	<ol> <li>1)Time required for first heat from calving</li> <li>2) No.of inseminations required for pregnancy</li> <li>3) Inter calving period</li> <li>4) percentage of animals become pregnant</li> </ol>	109.8 days 3.6 465.25 days 100 %	it is a very useful technology to reduce the inter calving period in cattle, but still could not able to achieve one calf a year target	Some of the cows refused to eat the concentrate feed toped with Mineral mixture may be because of the metallic flavor		
		10	Grazing + green fodder + mineral mixture fortified with Vitamins	<ol> <li>Time required for first heat from calving</li> <li>No.of inseminations required for pregnancy</li> <li>Intercalving period</li> <li>percentage of animals become pregnant</li> </ol>	85.2 days 2.5 421.5 days 100 %	it is a very useful technology to reduce the inter calving period in cattle Very promising technology to achieve one calf a year target		Nil	

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
PKM-1	TNAU	36.2	t/ha	1.2lakhs/ha	1.8
CO(TH)-1	TNAU	50.5	t/ha	1.92lakhs/ha	2.31
Arka Ananya	IIHR	43.2	t/ha	1.6lakhs/ha	2.28

2% DAP foliar application	TNAU	750	Kg / ha	16000/ha	2.6
methyl bacterium foliar spray ( pre flowering post flowering )	TNAU	750	Kg / ha	16000/ha	2.6
Soil application rice hull ash @ 2kg / sucker	- Farmers ITK	43.5	t/ha	2.0lakhs/ha	4.09
Soil application of enriched bio char @ 2kg / sucker	International Biochar Research Initiatives	51.25	t/ha	2.2lakhs/ha	5.07
Grazing + concentrate feeding	TANUVAS	11.5	Lit/cow/day	13200/cow	1 43
Grazing + concentrate feed (replacing upto 1kg of wheat bran or pearl millet in the daily ration )	CAZRI,Jodhpur	11.5	Lit/cow/day	13800/cow	1.51
Grazing + concentrate feeding + green fodder	Farmers practice	2400	Lit/calving/cow	12800/cow	1.25
Grazing + green fodder + mineral mixture	TANUVAS	2650	Lit/calving/cow	15600/cow	1.43
Grazing + green fodder + mineral mixture fortified with Vitamins	TANUVAS	2850	Lit/calving/cow	18400/cow	1.52
# 4.C2. Details of each On Farm Trial for assessment to be furnished in the following format separately as per the following details

1	Title of Technology Assessed		Assessing the utility of enriched bio char soil sinking for
			improving the soil fertility and yield in banana
	Problem Definition		Deen seil fartility on devictor helding constition
	Problem Definition		Low bunch weight and low yield
	Details of technologies selected for		Soil application of enriched bio char @ 2kg / sucker
	assessment		
	Source of technology		International biochar intiatives
	Production system and thematic area		Irrigated, resource conservation agriculture
	Performance of the Technology with		
	performance indicators		
	Feedback, matrix scoring of various		Improvement in the water holding capacity and soil fertility
	technology parameters done through		is higher than the T1 Increase in the bunch weight and there by higher yield
	farmer's participation / other scoring		increase in the bullet weight and there by higher yield
	techniques		
	commques		
	Final recommendation for micro level	$\rightarrow$	Enriched biochar soil application improves the soil fertility
	situation		and physical parameters and there by improves the yield
	Constraints identified and feedback for		Nil
	research		
	Process of farmers participation and their		
	reaction		

2	Title of Technology Assessed	Assessment of performance of foliar application of methyl
		bacterium for drought tolerance in pulses
	Problem Definition	Lower yield caused by drought in pulses
	Details of technologies selected for assessment	methylo bacterium seed treatment methylo bacterium foliar spray( pre flowering post flowering )
	Source of technology	TNAU
	Production system and thematic area	Dryland farming, ICM
	Performance of the Technology with performance indicators	During the last season $2011 - 2012$ there is no drought to assess the crop result
	Feedback, matrix scoring of various	
	technology parameters done through	
	farmer's participation / other scoring	
	techniques	
	Final recommendation for micro level situation	
	Constraints identified and feedback for	Not able to assess the drought during the crop season
	research	
	Process of farmers participation and their	
	reaction	

3	Title of Technology Assessed	Assessing the tomato varieties for pest and disease resistance							
		and high	yield						
	Problem Definition	Low yield Poor crop	due to high bing pattern	pest disease attac	k and				
	Details of technologies selected for	COTH-1 a	nd ArkaAna	anya					
	assessment								
	Source of technology	TNAU an	1 IIHR						
	Production system and thematic area	Irrigated,	Varietal eva	luation					
	Performance of the Technology with		PKM-1	COTH-2	Arka Ananya				
	performance indicators	No.of frui setting /plant	t 28	46	42				
		Infected plant/m <sup>2</sup>	1	nil	nil				
		Yield(t)/h	a 36.2	50.5	43.2				
	technology parameters done through farmer's participation / other scoring techniques								
	Final recommendation for micro level situation	Both COT curl virus income fo	H-2 and Arl infection at the farmers	ka Ananya varietie nd found equally	s are resistant to leaf good for higher net				
	Constraints identified and feedback for research								
	Process of farmers participation and their reaction	Healthy se Due to hig	edlings are j h yielding v	produced with the u ariety more fruit se	isage of protray tting is observed				
		Due to usa get the hig As they pa to reduce Nice red c	ge of high y h yield. acticed integ he cost of cu olour for eas	rielding variety the grated pest manage altivation sy marketing	farmers were able to ment they were able				

4	Title of Technology Assessed		Assessing he ut alternate	ility of prosob e concentrate f	is juliflora pod flour as an eed in dairy cattle				
	Problem Definition		High cost of conce	entrate feeding dairy fari	reduces the profit margin in ming				
	Details of technologies selected for	T1	Grazing + green fo	dder + concen	trate feeding				
		T2	Grazing + green t 1kg of wheat l	fodder + conce bran or pearl n	entrate feed (replacing upto nillet in the daily ration)				
	Source of technology		CAZRI Jodhpur						
	Production system and thematic area		Semi intensive syst	tem of rearing					
	Performance of the Technology with			T1	T2				
	performance indicators		Milk yield in lit/day 11.5 11.5						
			Cost of concentrate feed /kg in Rs.	14.8	12.5				
			Net return Rs. 13200 13800						
			BCR	1.43	1.51				
	Feedback, matrix scoring of various								
	technology parameters done through								
	farmer's participation / other scoring								
	techniques								
	Final recommendation for micro level situation		Prosobis juliflora pearlmillet in conc kg/day without affe the daily feed cost Prosobis pod flour	pod flour saft entrate feed ir ecting the mill by Rs.2 per ca grinding and t	lely replaces wheat bran or a dairy cattle ration upto one c yield and there by reduces ttle.				
			by establishing grinder mill in the locality were the pods a collected						
	Constraints identified and feedback for								
	research		Nil						
	Process of farmers participation and their reaction		Prosobis pod flour and stimulates the	r gives good fl e cattle to eat th waste	avor to the concentrate feed he concentrate feed without e				

5	Title of Technology Assessed		Assessing manageme	the utility ent of post	of different minera	al mixtures in in dairy cows
	Problem Definition		Delayed on set vitamin deficie infertility in da	t of first h ency result iry cows	eat after calving d s in increased inter	lue to mineral and calving period and
	Details of technologies selected for	T-1	Grazing + conc	centrate fe	eding + green fodde	er
	assessment					
		T-2	Grazing + gree	n fodder +	- mineral mixture v	vithout vitamins
		T-3	Grazing + gree Vitamins	n fodder +	- mineral mixture fo	ortified with
	Source of technology		TANUVAS			
	Production system and thematic area		Semi intensive	system of	rearing	1
	Performance of the Technology with			T-1	T-2	T-3
	performance indicators		Time required for first heat from calving	141	109.8	85.2
			No.of inseminations required for pregnancy	4.85	3.6	2.5
			Intercalving period	585	465.25	421.5
			percentage of animals become pregnant	85	100	100
	Feedback, matrix scoring of various technology parameters done through		it is a very use period in cattle	ful techno e	logy to reduce the i	nter calving
	farmer's participation / other scoring techniques		Very promisin target	ng technol	ogy to achieve one	e calf a year
	Final recommendation for micro level situation		Fortified miner to the regular in found to very in than feeding p the conception fortified minera	cal mixture mineral lil nuch help: lain mine rate also al mixture	es contains Vitamin ke Ca,P,Cu,Se,Mg,J ful to bring the anin ral mixture alone a thereby it is adv to the high yielding	A,D,E in addition Mn, which is very nal into heat faster and also improves visible to feed on g milking cows
	Constraints identified and feedback for research		Some of the o with Mineral	cows refus mixture n	sed to eat the concernation of the because of the b	ntrate feed toped and metallic flavor
	Process of farmers participation and their reaction		Feeding of min appearance of t cows	eral mixtu the animal	re improves the fer besides improving	tility and general the milk yield in

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

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

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

Contd..

Technology Refined	Source of Technology for Technology Option1 / Justification for modification of assessed Technology Option 1	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13		14	15	16	17

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

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

### PART V – FRONTLINE DEMONSTRATIONS

5.A. Summary of FLDs implemented during 2010-11

Sl. No.	Category	Farming Situation	Season and Year	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Area	ı (ha)	No de	o. of farme emonstrati	ers/ on	Reasons for shortfall in achievement
									Proposed	Actual	SC/ST	Others	Total	
	Oilseeds													
	Pulses	Dry land farming	R/S 2011 – 2012	Black gram	Vamban (BG) – 5		Promotion of high yielding new varieties	<ul> <li>Resistant variety for YMV disease</li> <li>Bio fertilizers application</li> <li>Rhizobium – seed treatment</li> <li>Targa super (Quizalo) weedicide application to control weed.</li> <li>Zinc sulphate basal application</li> <li>Pulse wonder spray</li> <li>Monocrotopos spray to control pests.</li> </ul>	5	5	0	15	15	
	Cereals	Irrigated	R/S 2011 – 2012	Paddy	CR – 1009		Saline soil management and saline resistant high yielding varieties	Daincha 20kg /ha @ 50/kg Gypsum 500 kg /ha @ 1.6 / kg Azospirillum – 2 kg / ha Phosphobacteria 2kg g/ha ZnSO <sub>4</sub> – 12.5 kg /ha for blending with urea Seed (CR – 1009) – 85kg/ha	4	4	0	10	10	
	Millata									<b> </b>		<b> </b>	<b> </b>	
	wittlets													
	Millets	Dry land farming	R/S 2011- 2012	Sorghum	Co-(S) 30		Demonstration of dual purpose sorghum	• Demonstration of sorghum variety Co(S)- 30 for value	10	10	20	5	25	

						varieties	addition • Biofertilizers soil application • Rhizobium- seed treatment • Pseudomonas application • Atrazine application to						
Baby corn	Irrigated	Round	Baby corn		G-	Popularizing	control weed     Soil_test_based	5	5	7	13	20	
		the year 2011- 2012			5414	Baby corn variety for value addition	<ul> <li>NPK application</li> <li>Biofertilizers soil application</li> <li>Rhizobium- seed treatment</li> <li>Detassling</li> <li>Post harvest technology and marketing</li> <li>Value added products</li> </ul>						
Vegetables													
Dhardi	Irrigated	Rabi- 2012	Bhendi		Co(Bh)-2	Popularizing the Bhendi	<ul> <li>Soil test based NPK application</li> <li>Biofertilizers soil application</li> <li>Rhizobium- seed treatment</li> </ul>						
 Flowers													
 1 10 0013													
 Ornamental													
Fruit	Irrigated	R/S 2011- 2012	Banana	Kozhikudu		ICMP	<ul> <li>Sulphate of potash – 50 kg / ha</li> <li>Micro nutrient mix (banana) – 5 kg/ha</li> </ul>	2 ha	15	0	15	15	

							<ul> <li>Carbendazime – 1 kg /ha</li> <li>Copper oxy chloride 2.5 kg / ha</li> </ul>						
	Irrigated	2011- 12 rabi summer	Chilli	KKM-1		ICMP	Seed treatment with pseudomonas Raised bed Nursery Panchakayya	4	4	5	5	10	
Spices and condiments							application to enhance fruit setting						
Commonoial													
Commercial													
Medicinal and													
aromatic													
Fodder	Irrigated	Dec- 2010	CN Hybrid	Hedge Lucerne	Co(CN) -4	Promotion of green fodder cultivation	CN Hybrid Co-4 and Hedge Lucerne cultivation and feeding green fodder to livestocks	1	1	3	7	10	
Plantation	Irrigated	R/S 2011- 2012	Сосоа	Pharesteero		Multitier system of intercropping in coconut with cocoa	Cocoa intercropping in Coconut plantation	3	3	0	7	7	
 Fibre													
	а :	2011	D.			TT · · · · · · · · · · · · · · · · · ·	D 1 1 / 1	10	10	0	10	10	
Dairy	semi intensive system of rearing	2011-2012	cattle	Cross bred cattle		production in cattle	for milking Post milking antiseptic teat dipping	units	10	0	10	10	
Poultry	Semi intensive system of rearing	2011- 12	Backyard poultry	Namakkal Desi chicken -1		Promotion of improved backyard poultry rearing	Scientific rearing of improved backyard poultry breed: NDC-1 Cage system of	10	10	5	5	10	

						backyard						
						poultry rearing to protect from predatos Homestead low cost incubator for hatching backyard poultry eggs						
 Rabbitry												
Pigerry												
Sheep and goat	Semi intensive system of rearing the goats	2011-12	Goat	Non Descript	Disease prevention in goats	Vaccination against infectious diseases like HS,ET,PPR Deworming and Deticking	250 goats	400 goats	20	20	40	
Dusham												
Duckery												
Composite fish culture	Extenstive system of rearing	2011- 12	Freshwater fish	Catla,Roghu,Mrigal and common corp	Fish cultivation in seasonal village ponds	Composite fish culture with stunted fish fingerlings	1.6 ha	1.6 ha	1	3	4	
Mussels												
Ornamental fishes	Backyard rearing	2011-12	Live bearers	Molly, Guppy, Sword tail	Promotion of ornamental fish rearing in backyard	Ornamental fish rearing using small ring tanks in the backyard	3 units	3 units	0	3	3	
Oyster mushroom												
Button mushroom												
Vermicompost												

Sericulture											
Apiculture											
Implements											
Vegetable	2011- 2012	Vegetable	Vegetable Preservator (CRIDA Model) 15 kg capacity	Extending the shelf life of vegetables using low cost preservators	Vegetable Preservator (CRIDA Model) 15 kg capacity	5	5	3	2	5	
Improved cookers	2011- 2012	Sarai cooker	Sarai cooker – 12 liters capacity	Ergonomics and low cost fuel cooker	Sarai (Charcoal cooker)	10	10	6	4	10	
Others (specify)											

#### 5.A. 1. Soil fertility status of FLDs plots during 2010-11

Sl. No. Category	Farming Situation	Season and	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated		Status of so	il	Previous crop grown	
INO.			Year	-		-			Ν	Р	Κ	
	Oilseeds											
	Pulses	Dry land farming	R/s 2011-12	Black gram	VBN BG-5		Promotion of high yielding new varieties	<ul> <li>Resistant variety for YMV disease</li> <li>Bio fertilizers application</li> <li>Rhizobium – seed treatment</li> <li>Targa super (Quizalo ) weedicide application to control weed .</li> <li>Zinc sulphate basal application</li> <li>Pulse wonder spray</li> <li>Monocrotopos spray to control pests.</li> </ul>	69.5	13.2	164.6	Bajra, sorghum,
	Cereals	Irrigated	R/s 2011-12	Paddy	CR 1009		Saline soil management and saline resistant high	Daincha 20kg /ha @ 50/kg	74.3	4.21	75.90	Black gram Paddy

					yielding varieties	Gypsum 500 kg /ha @ 1.6 / kg Azospirillum – 2 kg / ha Phosphobacteria 2g/ha Znso4 – 12.5 kg /ha for blending with urea Seed (CR -1009) – 85kg/ha				
	Dry land farming	R/s 2011-12	Sorghum	Co-s 30	Demonstration of dual purpose sorghum varieties	<ul> <li>Demonstration of sorghum variety (Co s-30) for value addition</li> <li>Biofertilizers soil application</li> <li>Rhizobium-seed treatment</li> <li>Pseudomonas application</li> <li>Atrazine application to control weed</li> </ul>				Bajra, sorghum
Millets	Irrigated	All season 2011 – 2012	Baby corn	G – 5414	Popularizing Baby corn variety for value addition	<ul> <li>Soil test based NPK application</li> <li>Biofertilizers soil application</li> <li>Rhizobium-seed treatment</li> <li>Detassling</li> <li>Post harvest technology and marketing</li> <li>Value added products</li> </ul>				Maize, chillies Vegetable
Vegetables onion	Irrigated	R/s 2010- 11	Onion	Co-5	Introduction of high yielding varieties	Small onion seed variety CO-5	76.35	4.24	152.4	Chilli
Vegetables bhendi	Irrigated	R/s 2010- 11	bhendi	Co (-bh) -2	Introduction of high yielding varieties	Small bhendi seed variety CO (bh) 2	75.25	4.04	142.8	Chilli
Banana	Irrigated	R/S 2011- 2012	Banana	Kozhikudu	Alternate fertilization usage	<ul> <li>Sulphate of potash – 50 kg / ha</li> <li>Micro nutrient mix (banana) – 5 kg/ha</li> <li>Carbendazime – 1 kg /ha</li> <li>Copper oxy chloride 2.5 kg / ha</li> </ul>	73.5	4.30.	76.20	Paddy

Flowers										
Ornamental										
Fruit	Tankfed – irrigated	Kharif 2010- summer 2011	Banana	Robusta	Integrated crop management	<ul> <li>Foliar MN spray- IIHR mix</li> <li>Bunch covering with Polythene sheet</li> <li>Corm injection with 2% carbendazim (wilt)</li> <li>Stem injection with monocrotophos (Pseudostem weevil)</li> </ul>	75.2	4.1	72.9	Paddy, Black gram
Spices and condiments										
Commercial										
Medicinal and aromatic										
Fodder										
Plantation										
Fibre										

#### 5.B. Results of Frontline Demonstrations

#### 5.B.1. Crops

	Name of the	X	YY 1 11	Farming situation	N (D	Area		Yield (	q/ha)		04 <b>T</b>	*Econ	omics of de	monstration (Rs	s./ha)		*Econom (R	ics of check s./ha)	
Crop	demonstrated	Variety	Hybrid		No. of Demo.	(ha)		Demo		Check	% Increase	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
							Н	L	Α										
Oilseeds																			
						1													
Pulses	Demonstration on participatory method of seed production	Vamban BG-5		Dry land farming	15	5	8.4	5.2	6.8	5	36	18800	54000	35200	2.8	14120	25000	10880	1.7
Cereals	Demonstration on ICMP in PADDY	CR 1009		Irrigated	10	4	45	35	40	30	33	22000	48000	26000	2.1	20000	36000	16000	1.8
Millets																			
S0rghum	Demonstrating sorghum ( CO S -30 ) variety for value addition	Co S – 30		Dry land farming	25	10	28	20	24	18	33	12000	28800	16800	2.4	10000	18000	8000	1.8
Baby corn	Demonstrating Baby corn variety (G- 5414) for value addition		G-5414	Irrigated	20	5	70	60	65	56	16	32000	97500	65500	3.0	25000	67500	42500	2.7
Vegetables	Introduction of small onion	Co (on ) 5		irrigated	10	2	160	120	140	80	75	42000	168000	126000	4.0	30000	96000	66000	3.2
	Introduction of Bhendi variety	Co (Bh) 2		irrigated	10	2	150	120	108	55	96	40000	108000	68000	2.7	30000	55000	25000	1.8
Flowers																			
						ł		1											
Ornamental																			
Fruit	Demonstration on ICMP in Banana	Kozhikudu		Irrigated	10	2	750	570	660	450	46.7	98500	494000	395500	5.02	86500	374500	288000	4.33
	1	L						1	1		1				1		1		1

Spices and condiments	KKM-1 chilli cultivation with ICMP	KKM-1		Irrigated	10	4	28.1	19.9	24.0	17.0	41.17	38515	84000	45485	2.18	32550	59500	26950	1.82
Commercial																			
Medicinal and																			
aromatic																			
Fodder	CO-4 Fodder cultivation, Hedge Lucerne cultivation	Hedge lucerne	CO-4	Irrigated	10	1	395	335	370	325 (CO- 3)	9.56	12500	22500	8000	1.86	10500	16700	6200	1.59
Plantation																			
Fibre																			
Others (pl.specify)																			

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

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

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

	Data on other parameters in relation	n to technology demonstrated
Parameter with unit	Demo	Check
foliar spray application		
Pulses – No of weeds/ m2	5 weeds	20 weeds
No of pods /plant	23	15
No of grain / pods	8	6
ICMP- Paddy No of hill / m2	18	18
No of tiller /hill	23	15
No of grain /tiller	340	256

#### **5.B.2.** Livestock and related enterprises

Type of	Name of the	Durad	No.	No.		Yield	(q/ha)		%	*Eco	nomics of Rs./ı	demonstr unit)	ation	*	Economic (Rs./	s of check unit)	C .
livestock	demonstrated	Breed	Demo	Units		Demo		Check if any	Increase	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					Н	L	А										
Dairy																	
Poultry	Promotion of improved backyard poultry rearing	NDC- 1	10	10	2.1 kg/bird at 6 <sup>th</sup> month	1.5 kg/bird at 6 <sup>th</sup> month	1.95 kg/bird at 6 <sup>th</sup> month	1.1 kg/bird at 6 <sup>th</sup> month	57.6	520	1070	550	2.1	382	710	328	1.86
					152 eggs/annum	135 eggs/annum	145 eggs/annum	85 eggs/annum	58.6								
Rabbitry																	
Pigerry																	
	<i>a</i>																
Sheep and goat	disease control in goats	ND	40	40	15kg at 12 <sup>th</sup> month	12kg at 12 <sup>th</sup> month	13.5kg at 12 <sup>th</sup> month	12.0kg at 12 <sup>th</sup> month	12.5	1250	2800	1600	2.24	1200	2500	1300	2.1
Duckery																	
Others (pl.specify)																	

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

\*\* BCR= GROSS RETURN/GROSS COST

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

	Data on other parameters in relation	a to technology demonstrated
Parameter with unit	Demo	Check if any
Incidence rate of mortality in chicks due to predator	0	75%
attack	v	1270
Mortality rate in chicks in first 3 months of age due	15.0/	459/
to diseases/stress	13 %	4370
Reduction of percentage of infectious diseases	100 %	Not applicable
(ET,PPR,HS) in goats	100 /0	Tor appreade
Occurrence of diseases (ET,PPR,HS) in goats	0%	20%

#### 5.B.3. Fisheries

	Name of the		No	Units/		Vie	ld (a	/ha)		*Eco	nomics of	demonstra	ation	*	Economic	s of check	ĸ
Type of	technology	Breed	of	Area		110	iu (q/	na)	%	]	Rs./unit) o	r (Rs./m2)		]	Rs./unit) o	r (Rs./m2)	i
Breed	demonstrated	Dieca	Demo	(ha)	1	Demo		Check	Increase	Gross	Gross	Net	**	Gross	Gross	Net	**
	demonstrated		Demo	(iiu)		Jenne	,	if any		Cost	Return	Return	BCR	Cost	Return	Return	BCR
					Η	L	Α										
Common carps	Composite fish culture with stunted fish fingerlings	Catla,Roghu,Mrigal and common corp	4	1.6ha	Uı	nde	r ob	oservat	ion								
Mussels																	
Ornamental fishes	Ornamental fish rearing using small ring tanks in the backyard	Molly, Guppy, Sword tail	3	4m <sup>2</sup>	Under observation												
Others																	
(pl.specify)																	

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

H-High L-Low, A-Average

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

	Data on other parameters in relation	n to technology demonstrated
Parameter with unit	Demo	Check if any
Average young ones produced /female/month	29.3	Nil
% of Mortality in brooder fish due to transport shock	26 %	
% of Mortality in fish due to anchor worm infestation	39.1%	
% of Mortality in young ones	1.2 %	
Size of the young one at one month age	1.25cm	

#### 5.B.4. Other enterprises

Enterprise	Name of the technology	Variety/	No. of	Units/ Area	Viold (a/ha)	%	*Economics of demonstration (Rs./unit) or	*Economics of check
Enterprise	demonstrated	species	Demo	${m^2}$	Tield (q/lia)	Increase	(Rs./m2)	(Rs./unit) or (Rs./m2)

			]	Demo		Check if any	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
			Η	I L A		•								
Oyster														
mushroom														
Button														
mushroom														
Vermicompost														
Sericulture														
Apiculture														
Others														
(pl.specify)														

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

H-High L-Low, A-Average

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

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

#### 5.B.5. Farm implements and machinery

Name of the	Cost of the implement	Name of the technology demonstrated	No. of Demo	Area covered under	Labour requirement in Mandays		%	Savings in labour (Rs./ha)	s ir *Economics of demonstration (Rs./ha) *Economics of che (Rs./ha)							
Implement	in Rs.			demo in ha	Demo	Check	Save		Gross cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Vegetable preservator (CRIDA – Model) 15 kg capacity	2176/unit	Demonstration of Vegetable preservator (CRIDA – Model) 15 kg capacity	5		1	1	-	-	Not applicable							
Improved charcoal cooker (12 liters)	1600/unit	Demonstration of Sarai cooker (12 liters capacity)	10		1	1	-	-	Not applicable							
Milking revolving stool	900/ unit		10		1	1	-	-				Not app	olicable			

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

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

	Data on other parameters in relatio	n to technology demonstrated
Parameter with unit	Demo	Local
Shelf life of vegetables	9 days	4 days
Shelf life of fruits	8days	4 days
Shelf life of greens	5 days	2 days
Shelf life of roots and tubers	21 days	10 days
Retention of colour	7 days	4 days
Shrinkage of vegetables	7 days	4 days
Sarai cooker		
Kg. of fuel wood used for one	250g of charcoal	5.2kg of fuel wood
cooking		5.2kg 61 fder wood
Active Time spent for cooking	20 min	1.2 hrs
Smoke produced during cooking	Nil	Excessive smoke produced
Reduction in fuel wood used for	250  g of charcoal = 750  g of wood	
family	Reduction in % - 60%	2 kg of Wood
Milking the cattle using		

revolving stool		
Time required for complete milking in each cattle by the women	3.5 min	5.2 min
Pain felt by number of women in the knee joint during milking	20%	80%

S.	Crop / Enterprise	Name of the technology	Feed Back
1.	Vegetable preservator	Promotion of vegetable preservator	<ul> <li>The higher humidity helps in increasing the shelf life of the produce up to 7 to 10 days according to the nature of the vegetables and fruits.</li> <li>It saves energy prevents nutrient loss.</li> <li>Colour is retained.</li> </ul>
2.	Sarai cooker	Demonstration of Sarai cooker (12 liters capacity)	<ul> <li>It helps in retaining shrinkage quality of the vegetables.</li> <li>It saves money uses up to 60% less fuel for cooking the same amount of food.</li> <li>It saves time and effort in paying attention while cooking.</li> <li>It conserves nutrients through steam cooking.</li> <li>Easy to use and maintain the cooker.</li> <li>Retain the natural 57lavour and taste of traditional cooking without the lingering taste of harmful smoke.</li> <li>Very little smoke while initiating the improved bio charcoal stove and once ignited no smoke. Hence providing a healthy and clean cooking environment for women and their families.</li> <li>It is affordable</li> <li>It is adoptable to support the cooking needs of any family.</li> </ul>
3.	Dairy cows	use of ergonomic revolving stool for milking	<ul> <li>Improves the work posture from squatting to sitting.</li> <li>Provision of wheels makes the movement easy.</li> <li>Reduces the physiological and muscular costs of milking activity.</li> <li>Reduces the muscular skeletal problems while performing the activity.</li> <li>Post milking antiseptie test disping with Mastinil approx solution affectively.</li> </ul>
		dipping	• Post mixing antiseptic teat dipping with Mastinii spray solution effectively prevented the incidence of mastitis and kept the teat healthier without cracking due to cold or pox lesions
	Poultry	Namakkal desi chicken -1 Home stead incubator for hatching eggs	<ul> <li>Performs well and needed good protection against cold during cooler months</li> <li>76% hatchability could be achieved</li> <li>Chick survival - 90% upto 4 weeks</li> </ul>
4	Paddy	ICMP –Paddy	<ul> <li>Improve the soil properties and reduces the saline content</li> <li>Higher germination for the seed and reduce the pest ,disease and rodents</li> <li>Higher yields than other varieties</li> </ul>

# 5.B.6.6Technical Feedback on the demonstrated technologies on all crops / enterprise

5	Black gram	Participatory method of seed production for vamban -5 varieties	<ul> <li>Reduce the weed intensities</li> <li>Reduces the labour cost for weeding</li> <li>More flower and pod incision, quality of seeds</li> <li>Seed production will give more income to the normal grain purpose</li> </ul>
6	Sorghum	Demonstrating sorghum ( CO S -30 ) variety for value addition	<ul> <li>Higher germination for the seed and no incidence of pest and disease.</li> <li>Higher grain and fodder yields than other varieties</li> <li>Drought tolerance and dual purpose varieties</li> </ul>
7	Boby corn	Demonstrating Baby corn variety (G-5414) for value addition	<ul> <li>Reduce the pest and disease.</li> <li>Higher grain and fodder yields than other varieties , dual purpose varieties</li> <li>Higher nutrient value for this crop</li> <li>Low cost of cultivation and inputs</li> </ul>
8	Banana	ICMP Banana nadu Variety	<ul> <li>Reduce the potasic fertilizer application</li> <li>Increase the bunch weight</li> <li>The produce the quality of the banana fruits</li> <li>Low cost of cultivation</li> </ul>
9	Bhendi	Introduction of new bhendi hybrid varieties-CO BH-1	<ul> <li>High yielding varieties</li> <li>No pest and diseases attack</li> <li>More income to the farmer</li> </ul>
10	Chilli	Demonstration of High yielding chilly variety KKM- 1	<ul> <li>High yielding varieties</li> <li>No pest and diseases attack</li> <li>More income to the farmer</li> </ul>
11	Onion	Introduction of High yielding variety CO-ON-5	<ul> <li>Reduce the cost of seeds</li> <li>No pest and diseases attack</li> <li>More income to the farmer</li> <li>High yielding varieties</li> </ul>
12	Cocoa	Demonstration of Multitier system of intercropping in coconut with cocoa and banana	Good establishment is noted in the first year for coco plants

#### 5.B.6.7 Farmers' reactions on specific technologies

S. No	Crop / Enterprise	Name of the technology demonstrated	Feed Back
1.	Vegetable preservator	Promotion of vegetable preservator	The shelf life of the produce is observed to be up to one week according to the nature of the vegetables and fruits. It saves energy and prevents nutrient loss. At present due to frequent current failure the zero energy preservator is much helpful for the farm women to store vegetables and fruits in this summer season. Colour is retained. Storage loss is minimized.
2.	Sarai cooker	Demonstration of Sarai cooker (12 liters capacity)	Farm women are very happy to save money on fuel cost. It saves their time and effort in paying attention while cooking. Easy to use and maintain the cooker. During initial stage they found little bit difficult to ignite the fire but after practice they were able to ignite the fire quickly. They experience very healthy, nutritious, tasty and clean cooking environment because of very little smoke.
3.	Milking revolving stool	Hygienic milk production in cattle use of ergonomic revolving stool post milking antibiotic teat dipping filtering the milk with clean muslin cloth	They feel much comfortable to conveniently sit and milk than squatting. At present they have no knee pain. Provision of wheel makes them easy to move. They also use this revolving stool for multi - purpose house hold activities.
4	Paddy	ICMP -Paddy	Improve the soil properties and reduce the saline content, Higher germination for the seed and reduce the pest, disease and rodents, Higher yields than other varieties
5	Black gram	Participatory method of seed production for vamban -5 varieties	Reduce the weed intensities Reduces the labour cost for weeding ,More flower and pod incision, quality of seeds ,Seed production will be more income to the normal grain purpose black gram
6	Sorghum	Demonstrating sorghum ( CO S -30 ) variety for value addition	Higher germination for the seed and reduce the pest, disease. Higher grain and fodder yields than other varieties Drought tolerance and dual purpose varieties
7	Boby corn	Demonstrating Baby corn variety (G-5414) for value addition	Reduce the pest and disease. Higher grain and fodder yields than other varieties, dual purpose varieties Higher nutrient value for this crop Low cost of cultivation and inputs
8	Banana	ICMP Banana nadu Variety	Reduce the cost of cultivation particularly for fertilizer cost will be reduce. The increase the bunch weight and more no of hands in the bunch ,banana fruit color in more shining
9	Bhendi	Introduction of new bhendi hybrid varieties-CO BH-1	Reduce the pest and diseases and organic method of pest control so reduce pesticide cost To identified the particular pest and correct dosage of pesticide
10	Chilli	Demonstration of High yielding chilly variety KKM- 1	To get in pest and diseases free chilli plant and reduce the cost of cultivation Usage of pheromone traps and all are organic method of pest management
11	Onion	Introduction of High yielding	Reduce the seed cost and seed will be used in planting material

The organic method of pest and diseases management		variety CO(On)-5	The nursery raising for used portray The organic method of pest and diseases management
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#### 5.B.6.8 Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organised	Number of participants	Remarks
1	Field days	12	260	
2	Farmers Training	35	1285	
3	Media coverage			
4	Training for extension functionaries	6	210	

#### PART VI – DEMONSTRATIONS ON CROP HYBRIDS

#### Demonstration details on crop hybrids

Tupe of Preed	Name of the technology	Name of the	No. of	Area		Yie	ld (q/h	a)	%	*Eco	onomics of (Rs	f demonstra ./ha)	tion		*Economie (Rs	cs of check ./ha)	
Type of Breed	demonstrated	hybrid	Demo	(ha)	Demo		Check	Increase	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR	
					Н	L	Α										
Cereals																	
Bajra																	
Maize	Demonstrating Baby corn variety (G-5414) for value addition	G-5414	20	5	70	60	65	56	16	32000	97500	65500	3.0	25000	67500	42500	2.7
Paddy																	
Sorghum																	
Wheat																	
Others																	
(pl.specify)																	
Total																	
Oilseeds																	
Castor																	
Mustard																	
Safflower																	
Sesame																	
Sunflower																	
Groundnut																	
Soybean																	
Others																	
(pl.specify)																L	
Total																L	
Pulses																L	
Greengram				ļ						ļ				ļ		L	
Blackgram																	
Bengalgram																	1

60

Redgram																	
Others																	
(pl.specify)																	
Total																	
Vegetable																	
crops																	
Bottle gourd																	
Capsicum																	
Others																	
(pl.specify)																	
Total																	
Cucumber																	
Tomato																	
Brinjal																	
Okra																	
Onion																	
Potato																	
Field bean																	
Others																	
(pl.specify)																	
Total																	
Commercial																	
crops																	
Sugarcane																	
Coconut																	
Others																	
(pl.specify)																	
Total																	
Fodder crops	CO-4 Fodder cultivation,	Co(CN)-4	10	1	395	335	370	325 (CO-3)	9.56	12500	22500	8000	1.86	10500	16700	6200	1.59
Maize																	
(Fodder)																	
Sorghum																	
(Fodder)																J	
Others																	
(pl.specify)					<u> </u>											µ	
Total		2	30	6													

H-High L-Low, A-Average

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

### PART VII. TRAINING

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

	No. of				Ň	lo. of Par	ticipants			
Area of training	Course		General	-		SC/ST	-	(	Frand Tot	al
8	s	Male	Fem ale	Total	Male	Femal e	Total	Male	Femal e	Total
Crop Production										
Weed Management										
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/Irrigation										
Seed production										
Nursery management										
Integrated Crop Management	3	31	4	35	16	7	23	47	11	
Soil and Water Conservation										
Integrated Nutrient Management										
Production of organic inputs										
Fodder cultivation technology	1	7	0	7	1	0	1	8	0	8
Horticulture										
a) Vegetable Crops										
Production of low value and high										
volume crop Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Post harvest management for										
banana and vegetables										
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										

Irraming on Tissue culture Banana       Image of the second
Nursery Management       Image: Construction of the plants       Image: Construction of the plants       Image: Construction of the plants         Management of potted plants       Image: Construction of the plants         Propagation techniques of Ornamental Plants       Image: Construction of the plants       Image: Construction of the plants       Image: Construction of the plants         Others (pl.specify)       Image: Construction of the plant of
NameImage: Second S
Management technologyImagement consistingImagement consistingImagement consistingOthers (pl.specify)Imagement consistingImagement consistingImagement consistingOthers (pl.specify)Imagement consistingImagement consistingImagement consistingOthers (pl.specify)Imagement consistingImagement consistingImagement consistingOthers (pl.specify)Imagement consistingImagement consistingImagement consistingOthers (pl.specify)Imagement consistingImagement consistingImagement consistingOthers (pl.specify)Imagement consistingImagement consistingImagement consistingOthers (pl.specify)Imagement consistingImagement consistingImagement consistingOthers (pl.specify)Imagement consistingImagement consistingImagement consistingOthers (pl.specify)Imagement consistingImagement consistingImagement consistingOthers (pl.specify)Imagement consistingImagement consistingImagement consistingProduction and Management technologyImagement consistingImagement consistingImagement consistingProduction and Management technologyImagement consistingImagement consistingImagement consistingProduction and Management technologyImagement consistingImagement consistingImagement consistingProduction and Management technologyImagemen
Paints       Image: Construction of official
Propagation techniques of Ornamental PlantsImage: Constraint of the systemOthers (pl.specify)Image: Constraint of the systemd) Plantation cropsImage: Constraint of the systemProduction and Management technologyImage: Constraint of the systemProcessing and value additionImage: Constraint of the systemOthers (pl.specify)Image: Constraint of the systeme) Tuber cropsImage: Constraint of the systemProduction and Management technologyImage: Constraint of the systemProduction and Management technologyImage: Constraint of the systemOthers (pl.specify)Image: Constraint of the systemOthers (pl.specify)Image: Constraint of the systemProduction and Management technologyImage: Constraint of the systemOthers (pl.specify)Image: Constraint of the systemProduction and Management technologyImage: Constraint of the systemImage: Constraint of the systemImage: Constraint of the systemImage: Constraint of the system <td< td=""></td<>
Others (pl.specify)Image: Constraint of the system of the sys
d) Plantation cropsImage: Constraint of the second sec
Production and Management technologyImage: scalar
Processing and value addition       Image: Constraint of the second
Others (pl.specify)Image: Constraint of the system of the sys
e) Tuber cropsImage: Constraint of the system o
Production and Management technology       Image: Constraint of the second se
technology     Image: Constraint of the second
Others (pl.specify)     Image: Constraint of the second of t
f) Spices     Image: Spice S
Production and Management technology
technology
Processing and value addition
Others (pl.specify)
g) Medicinal and Aromatic Plants
Nursery management
Production and management
Post harvest technology and value
Others (pl.specify)
Soil Health and Fertility
Management       Soil fortility management
Integrated water management
Integrated water management
Desclusion and use of organic
inputs
Management of Problematic soils
Micro nutrient deficiency in crops
Nutrient use efficiency
Balanced use of fertilizers
Soil and water testing
Others (pl.specify)
Livestock Production and
Dairy Management
Poultry Management         1         7         8         15         4         3         7         11         11         22

Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Animal Disease Management										
Feed and Fodder technology										
Production of quality animal										
Goat management	3	30	16		22	36	50	(1	52	112
Turkey and Quail management	2	13	10	33	8	0	58 0	01	52	22
Home Science/Women		10	-	14			0	21	1	
empowerment Household food security by kitchen gardening and nutrition gardening										
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet Minimization of nutrient loss in										
processing										
Processing and cooking										
Gender mainstreaming through SHGs	2	0	55	55	0	6	6	0	61	61
Storage loss minimization techniques										
Value addition	11	56	72	128	35	33	68	91	105	196
Women empowerment										
Location specific drudgery production										
Rural Crafts										
Women and child care										
An Interactive training for the Prosopis commodity groups on value addition and marketing strategies										
Agril. Engineering										
Farm machinery and its maintenance										
Installation and maintenance of										
Use of Plastics in farming										
Production of small tools and										
Repair and maintenance of farm										
machinery and implements Small scale processing and value										
addition										
Post Harvest Technology										
Others (pl.specify)										
Plant Protection										
Integrated Pest Management										
Integrated Disease Management										

Bio-control of pests and diseases	1	4	0	4	2	0	2	6	0	6
Production of bio control agents and bio pesticides	1	16	0	16	10	0	10	26	0	26
Mushroom cultivation	1	7	2	9	3	1	4	10	3	13
Fisheries										
Integrated fish farming	1	1	0	1	2	1	3	3	1	4
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture	1	7	0	7	4	0	4	11	0	11
Hatchery management and culture of freshwater prawn										
Breeding and culture of	1	4	0		2	0			0	
ornamental fishes Portable plastic carp hatchery				4			2	6	0	6
Pen culture of fish and prawn										
Shrimp farming										
Edible ovster farming										
Pearl culture										
Fish processing and value										
addition Others (pl specify)										
Production of Inputs at site										
Seed Production										
Planting material production										
Bio-agents production										
Bio-nesticides production										
Bio-fertilizer production										
Vermi-compost production										
Organic manures production										
Production of fry and fingerlings										
Production of Bee colonies and										
wax sheets										
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
Mushroom production										
Apiculture										
Others (pl.specify)										
Capacity Building and Group Dynamics										
Leadership development										
Group dynamics	1	0	37	37	0	20	20	0	57	57
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of										

TOTAL	30	192	195	387	109	107	216	301	302	603
Others (Pl. specify)										
Integrated Farming Systems										
Nursery management										
Production technologies										
Agro-forestry										
Others (pl.specify)										
farmers/youths										

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

	No. of	o. of No. of Participants										
Area of training	Course		General			SC/ST		(	Frand Tota	վ		
U	S	Male	Fema le	Total	Mal e	Fem ale	Total	Male	Female	Total		
Crop Production												
Weed Management	1	26	10	36	5	4	9	31	14	45		
Resource Conservation Technologies												
Cropping Systems												
Crop Diversification												
Integrated Farming												
Micro Irrigation/Irrigation												
Seed production	5	93	17	110	16	11	27	109	28	137		
Nursery management												
Integrated Crop Management	5	81	2	83	11	4	15	92	6	98		
Soil and Water Conservation	4	57	18	75	11	9	20	68	27	95		
Integrated Nutrient Management	5	86	0	86	2	12	14	88	12	100		
Production of organic inputs												
Others												
Horticulture												
a) Vegetable Crops												
Production of low value and high												
volume crop												
Off-season vegetables												
Nursery raising												
Exotic vegetables												
Export potential vegetables												
Grading and standardization												
Protective cultivation												
Others (pl.specify)												
b) Fruits												
Training and Pruning												
Layout and Management of Orchards												
Cultivation of Fruit												
Management of young plants/orchards												
Rejuvenation of old orchards												
Export potential fruits												
Micro irrigation systems of orchards												
Plant propagation techniques												
Others (pl.specify)												
c) Ornamental Plants												
Nursery Management												

Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl.specify)										
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
f) Spices										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (pl.specify)										
Soil Health and Fertility Management										
Soil fertility management	4	41	0	41	8	12	20	49	12	61
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	<u> </u>									
Others (pl.specify)										
Livestock Production and Management										
Dairy Management	3	19	17	36	4	0	4	23	17	40
Poultry Management	1	0	0	0	8	8	16	8	8	16
Piggery Management	1									
Rabbit Management	1									
Animal Nutrition Management	1									

Animal Disease Management	14	122	69	191	67	38	105	189	107	296
Feed and Fodder technology	4	30	12	42	3	0	3	33	12	45
Production of quality animal	1	6	8	14	0	0	0	6	8	14
Goat management	1	8	4	12	4	0	4	12	4	16
Home Science/Women	-	Ŭ	•			0				10
empowerment										
Household food security by kitchen gardening and nutrition gardening	1	0	21	21	0	12	12	0	33	33
Design and development of low/minimum cost diet	6	0	74	74	0	31	31	0	105	105
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing	2	0	0	0	0	33	33	0	33	33
Processing and cooking	2	0	8	8	0	12	12	0	20	20
Gender mainstreaming through SHGs	2	0	28	28	0	32	32	0	60	60
Storage loss minimization techniques	5	13	18	31	5	14	19	18	32	50
Value addition	12	112	16	128	39	29	68	151	45	196
Women empowerment	2	0	23	23	0	24	24	0	47	47
Location specific drudgery production	4	11	6	17	0	45	45	11	51	62
Rural Crafts	1	2	6	8	0	0	0	2	6	8
Women and child care	2	0	17	17	0	14	14	0	31	31
Energy saving devices	3	20	5	25	12	34	46	32	39	71
Agril. Engineering										
Farm machinery and its maintenance										
Installation and maintenance of micro irrigation systems										
Use of Plastics in farming										
Production of small tools and										
implements										
Repair and maintenance of farm machinery and implements										
Small scale processing and value										
Post Harvest Technology	2	12	3	15	3	4	7	15	7	22
Others (pl.specify)										
Plant Protection										
Integrated Pest Management	2	18	0	18	0	0	0	18	0	18
Integrated Disease Management										
Bio-control of pests and diseases										
Production of bio control agents										
and bio pesticides										
Cuters (pl.specify)										
risneries										
integrated fish farming										

Carp breeding and hatchery										
management										
Composite fish culture	27	210	0	210	(0)	64	100	270	<u> </u>	2.42
Hatchery management and culture	21	210	0	210	69	64	133	279	64	545
of freshwater prawn										
Breeding and culture of	4	11	0	11	3	2	5	14	2	16
Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
Others	4	15	0	15	6	6	12	21	6	27
Stunted fish culture	4	15	0	15	0	0	12	21	0	21
Production of Inputs at site										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production										
Organic manures production										
Production of fry and fingerlings										
Production of Bee-colonies and wax sheets										
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
Mushroom production										
Apiculture										
Others (pl.specify)										
Capacity Building and Group										
Leadership development										
Group dynamics	2	0	24	24	0	16	16	0	40	40
Formation and Management of	2		27	2-	0	10	10	0	-10	40
SHGs										
Mobilization of social capital										
Entrepreneurial development of										
Others (pl.specify)										
Agro-forestry										
Production technologies							<u> </u>			<u> </u>
Nursery management							ļ			

Integrated Farming Systems										
Others (Pl. specify)										
TOTAL	131	993	406	1399	276	470	746	1269	876	2145

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

	No. of	o. of No. of Participants									
Area of training	Cours	(	General			SC/ST		Gr	Grand Total		
	es	Male	Fem ale	Total	Male	Fem ale	Total	Male	Fema le	Total	
Nursery Management of Horticulture crops			uit			uic					
Training and pruning of orchards											
Protected cultivation of vegetable crops											
Commercial fruit production											
Integrated farming	2	7	4	11	6	11	17	13	15	28	
Seed production											
Production of organic inputs	2	32	11	43	10	43	53	42	54	96	
Planting material production											
Vermi-culture	2	5	0	5	9	0	9	14	0	14	
Mushroom Production	1	8	2	10	4	12	16	12	14	26	
Bee-keeping											
Sericulture											
Repair and maintenance of farm machinery and implements	2	0	8	8	0	24	24	0	32	32	
Value addition	1	0	9	9	0	12	12	0	21	21	
Small scale processing											
Post Harvest Technology	1	30	0	30	5	0	5	35	0	35	
Tailoring and Stitching											
Rural Crafts											
Production of quality animal products											
Dairying											
Sheep and goat rearing	1	8	2	10	4	0	4	12	2	14	
Quail farming	2	10	3	13	9	0	9	19	3	22	
Piggery											
Rabbit farming											
Poultry production	3	21	3	24	7	2	9	28	5	33	
Ornamental fisheries											
Composite fish culture											
Freshwater prawn culture											
Shrimp farming											
Pearl culture											
Cold water fisheries											

Fish harvest and processing technology										
Fry and fingerling rearing										
Kitchen garden establishment and maintenance										
Fodder cultivation on feeding of cattle &goat	2	15	0	15	3	0	3	18	0	18
Importance of energy saving devices	2	15	0	15	12	0	12	27	0	27
TOTAL	21	151	42	193	69	104	173	220	146	366

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

	No of	No. of Participants											
Area of training	Cours		Genera			SC/ST		G	Frand To	otal			
	es	Male	Femal e	Total	Male	Fema le	Total	Male	Fema le	Total			
Nursery Management of Horticulture crops													
Training and pruning of orchards													
Protected cultivation of vegetable crops													
Commercial fruit production													
Integrated farming	2	28	0	28	0	0	0	28	0	28			
Seed production	1	12	0	12	0	0	0	12	0	12			
Production of organic inputs	1	11	0	11	0	0	0	11	0	11			
Planting material production													
Vermi-culture													
Mushroom Production													
Bee-keeping													
Sericulture													
Repair and maintenance of farm machinery and implements													
Value addition	3	0	38	38	0	16	16	0	54	54			
Small scale processing													
Post Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
Production of quality animal products													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production	1	3	3	6	0	0	0	3	3	6			
Ornamental fisheries													
Composite fish culture	6	41	0	41	14	17	31	55	17	72			
---	----	----	----	----	----	----	----	----	----	-----			
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing													
Management of home stead incubator	1	4	2	6	0	0	0	4	2	6			
Integrated pest management	2	26	0	26	0	0	0	26	0	26			
Psychological and nutritional care for adolescent girls	3	0	15	15	0	28	28	0	43	43			
TOTAL													
	12	70	18	88	14	45	59	84	63	147			

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

	No			]	No. of	Partici	pants			
	nu.	G	leneral			SC/ST		Gr	and T	otal
Area of training	Cou rses	Male	Fem ale	Tot al	Mal e	Fem ale	Tot al	Mal e	Fe ma le	Tota l
Productivity enhancement in field crops										
Integrated Pest Management										
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals	1	19	4	23	5	2	7	24	6	30
Livestock feed and fodder production										
Household food security	3	0	78	78	0	41	41	0	119	119
Any other (pl.specify) importance of energy saving devices-sarai	5	8	55	63	9	33	42	17	88	105

cooker, enviro fit stove, vegetable										
preservator										
Training on KVK activities and income generation programmes for self help group members										
Total	9	27	137	164	14	76	90	41	213	254

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

	No.			I	No. of	Partic	ipants			
Aroo of training	of	(	General			SC/ST		Gr	and To	tal
Area or training	Cour	Ma	Fema	То	Ma	Fem	Tot	Ma	Fem	Tot
	ses	le	le	tal	le	ale	al	le	ale	al
Productivity enhancement in field crops										
Integrated Pest Management										
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm										
machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet										
designing										
Group Dynamics and farmers										
organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Importance and usage of vegetable	1	0	2	2	0	16	16	0	18	18
preservator										
Importance and usage of improved	1	0	3	3	0	4	4	0	7	7
charcoal cooker										
Integrated farming system practices	1	12	16	28	14	8	22	26	24	50
Ornamental fish culture training	1	3	0	3	1	12	13	4	12	16
Total	4	15	21	36	15	40	55	30	61	91

## 7.G. Sponsored training programmes

		No. of				No. of	Particip	ants			
S.No.	Area of training	Cours		General	l		SC/ST		G	rand To	tal
	g	es	Ma	Femal	Total	Mal	Femal	Tota	Ma	Fema	Tota
			le	е	Total	e	e	1	le	le	1
1	Crop production and										
	management										
1.a.	Increasing production and										
	productivity of crops										
1.b.	Commercial production of										
	vegetables										

2	Production and value addition										
2.a.	Fruit Plants										
2.b.	Ornamental plants										
2.c.	Spices crops										
3.	Soil health and fertility										
	management										
	Pest and disease management	1	19	12	20	12	Q	20	20	20	50
	in Groundnut and Paddy	1	10	14	30	14	o	20	50	20	50
4	Production of Inputs at site										
5	Methods of protective										
	cultivation										
6	Others (pl.specify)										
7	Post harvest technology and										
	value addition										
7.a.	Processing and value addition	1	5	10	15	4	6	10	9	16	25
7.b.	Others (pl.specify)										
8	Farm machinery										
8.a.	Farm machinery, tools and										
	implements										
8.b.	Others (pl.specify)										
9.	Livestock and fisheries										
10	Livestock production and										
	management										
10.a.	Animal Nutrition Management										
10.b.	Animal Disease Management	1	15	10	25	0	0	0	15	10	25
10.c	Fisheries Nutrition										
10.d	Fisheries Management										
10.e.	Clean milk production and value	1	18	12	30	12	8	20	30	20	50
	addition of milk	T	10	14	30	14	0	20	50	20	30
11.	Home Science										
11.a.	Household nutritional security										
11.b.	Economic empowerment of	2	0	26	26	0	30	30	0	56	56
	women	4	0	20	20	0	50	50	U	50	50
11.c.	Drudgery reduction of women										
11.d.	Others (pl.specify)										
12	Agricultural Extension										
12.a.	Capacity Building and Group										
	Dynamics										
12.b.	Others (pl.specify)										
	Total	4	23	<b>48</b>	101	28	44	60	39	92	131

## Details of sponsoring agencies involved

1.ATMA

2.Agribusiness department 3.Agri.engineering department 4.Agriculture department

5.Horticulture department

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

		No			l	No. of	Parti	cipants	nts Grand Total			
S N		INU.	(	Genera	1		SC/S	Г	6	Frand T	'otal	
0.	Area of training	Cour ses	Male	Fem ale	Total	Ma le	Fe ma le	Tota l	Ma le	Fem ale	Total	
1	Crop production and management											
1.a.	Commercial floriculture											
1.b.	Commercial fruit											
	production											
1.c.	Commercial vegetable											
	production											
1.d.	Integrated crop											
	management											
1.e.	Organic farming											
1.f.	Others (pl.specify)											
2	Post harvest											
	technology and value											
	addition											
2.a.	Value addition											
2.b.	Others (pl.specify)											
3.	Livestock and fisheries											
3.a.	Dairy farming											
3.b.	Composite fish culture	1	12	0	12				12	0	12	
3.c.	Sheep and goat rearing	2	24	6	30	5	2	7	29	8	37	
3.d.	Piggery											
3.e.	Poultry farming	2	25	5	30	15	0	15	40	5	45	
3.f.	Others (pl.specify)											
4.	Income generation											
	activities											
4.a.	Vermi-composting											
4.b.	Production of bio-											
	agents, bio-pesticides,											
4	bio-fertilizers etc.											
4.C.	Repair and maintenance											
	of farm machinery											
4.4	and implements											
4.u.	Sand production											
4.e.	Seed production											
4.1.	Mushroom cultivation	1	5	10	15	3	12	15	8	22	30	
4.g.	Nursery grafting etc	1	5	10	13	5	14	13	0		50	
4.11. 1 i	Tailoring stitching											
т.1.	embroidery dving etc											
4 i	Agril para-workers											
· · J ·	para-vet training											
4.k.	Others (pl.specify)											
5	Agricultural Extension											
- 5.a.	Capacity building and											
1	Capacity building and						1		1			

5.b.	Others (pl.specify)										
	Grand Total	6	66	21	87	23	14	37	89	35	124

# V. Extension Programmes Extension Programmes (including activities of FLD programmes)

Nature of	No. of	No. of	f Participa General)	nts	No.	of Particip SC / ST	ants	No. F	of exten personne	sion el
Programme	mes	Male	Female	Total	Male	Female	Total	Male	Fem ale	Total
Field Day	8	85	128	213	32	67	99	12	16	28
Kisan Mela	0									
Kisan Ghosthi	0									
Exhibition	2	37	185	222	28	98	126	32	8	40
Film Show										
Method										
Demonstration										
S E										
Farmers										
Workshop										
Group										
meetings	222	0	2300	2300	0	1025	1025	2	24	26
Lectures										
delivered as										
resource	6	50	150	200	25	53	78	0	0	0
persons										
Newspaper	1									
coverage	1									
Radio talks	5									
TV talks	0									
Popular	1									
articles	1									
Extension										
Literature/	6									
Folder										
Advisory	241	500	100	0.97	1.00	160	200			
Services / field	341	500	486	986	160	162	322			
VISIL Scientific visit										
to farmers	152	235	310	5/15	108	1/16	254			
field	152	200	510	515	100	110	231			
Farmers visit	10	101								
to KVK	18	124								
Diagnostic	80	08	0 <b>0</b>	190	24	67	101			
visits	80	98	82	180	54	07	101			
Exposure	2	0	24	24	0	18	18	5	6	11
visits	2	0	24	27	0	10	10	5	0	11
Ex-trainees										
Sammelan										
Soil health										
Camp										
Animal Health	51	300	221	512	276	145	421	91	71	162
Agri mobile										
clinic										
Soil test										
campaigns										
Farm Science							L			
Club										
Conveners										
meet										
Self Help										

Group										
Conveners										
meetings										
Mahila										
Mandals										
Conveners										
meetings										
Celebration										
of important										
days (specify)										
Women's Day	3	0	2800	2800	0	1715	171 5	0	16	16
World Food Day										
Farmers meeting	161	486	490	976	106	112	218	0	0	0
VLWC										
Meeting										
PLF Meeting	61		818	818	0	471	471	4	18	22
ATMA MEETING	4									
Tree planting										
Machinery										
Demo										
PRA	2									
Farm field	20	92	101	194	62	70	122	0	10	10
school	20	03	101	104	02	70	132	0	10	10
Guidance &										
counseling for										
victims wife										
Total	1146	1998	8095	9960	831	4149	4980	154	169	323

Details of Veterinary campaigns and number of animals and farmers benefited

Sl.no.	Name of the village	Date	Number of farmers benefited		Number of	livestoc	k benefited	
				cattle	Sheep	Poult	others	Total
1	V ( 1'	5 4 2011	12	0	and goat	ry	0	(0)
1.	Kootampuli	5.4.2011	12	0	60	0	0	60
2.	Vedanatham	21.4.2011	28	2	124	0	4	130
3.	Athimarapatti	26.4.2011	36	40	120	120	10	290
4.	Sindalakattai	28.4.2011	22	2	176	3	0	181
5.	Kuppanapuram	10.5.2011	19	15	154	0	0	169
6.	Chandragiri	19.5.2011	8	8	0	0	0	8
7.	Karayanpatti	21.5.2011	22	12	45	0	0	57
8.	Oosimesiapuram	11.6.2011	16	12	115	0	0	127
9.	Aathanoor	17.6.2011	17	1	119	0	1	121
10.	Sevelkulam	24.6.2011	17	13	185	0	0	198
11.	Tirumalaiyapuram	25.6.2011	32	64	82	60	4	210
12.	Kalvilai	9.7.2011	30	87	86	0	0	173
13.	Vedanatham	26.7.2011	29	3	111	0	0	114
14.	Athimarapatti	28.7.2011	28	44	36	70	6	156
15.	Kulaiyankarisal	29.7.2011	22	26	18	0	0	44

16.	North sillukkanpatti	12.8.2011	32	18	510	150	12	690
17.	Velidupatti	13.8.2011	22	32	163	0	0	195
18.	Sankarajapuram	17.8.2011	23	49	84	0	0	133
19.	Veppalodai	20.8.2011	22	8	94	0	0	102
20.	Tiruvanandapuram	22.8.2011	8	0	100	0	0	100
21.	Sippikulam	23.8.2011	5	17	51	0	0	68
22.	Allikulam	9.9.2011	36	36	186	141	8	371
23.	Aathanoor	15.9.2011	22	3	113	0	0	114
24.	Melakootudankadu	20.9.2011	29	62	36	82	8	188
25.	Kuppanapuram	23.9.2011	17	22	100	0	0	122
26.	Kalvilai	24.9.2011	20	72	31	0	0	103
27.	Sippikulam	27.9.2011	5	54	45	0	0	99
28.	Oosimesiapuram	29.9.2011	11	8	64	0	0	72
29.	Kootampuli	7.10.2011	3	0	36	0	0	36
30.	Kootampuli	30.10.2011	3	0	36	0	0	36
31.	K.P.Thalavaipuram,	22.10.2011	5	0	50	0	0	50
32.	K.P.Thalavaipuram	16.11.2011	11	0	141	0	0	141
33.	kootampuli	20.11.2011	6	0	33	0	0	33
34.	S.Silukkanpatti	22.11.2011	32	75	350	100	10	535
35.	Sevelkulam	24.11.2011	19	18	265	0	0	283
36.	Sevelkulam	14.12.2011	18	13	170			183
37.	Oosemesihapuram	17.12.2011	12	6	121			127
38.	Velidupatti	22.12.2011	19	28	46		3	77
39.	Varthagareddipatti	21.12.2011	40	68	120			188
40.	Sokkalingapuram	20.1.12	5	37	5			42
41.	Vedanatham	21.1.12	18	8	86			94
42.	Tiruvanandapuram	27.1.12	17	25	60			85
43.	Kuppanapuram	28.1.12	26	40	138		1	179
44.	Sokkalingapuram	20.1.12	5	37	5			42
45.	Sankarajapuram	8.2.12	13	14	53			67
46.	Aathanoor	16.2.12	22	14	153			167
47.	Tirumalaiyapuram	21.2.12	27	19	95	15		129
48.	Sillangulam	15.3.12	6	14	9			23
49.	Sivalur	17.3.12	15	18	67			85
50.	Sindalakattai	22.3.12	12	2	25			27
51.	K.P.Thalavaipuram	13.3.12	19	26	165			191
	Total		943	1172	5237	741	67	7215

## PART IX – PRODUCTION OF SEED, PLANT AND LIVESTOCK MATERIALS

## 9.A. Production of seeds by the KVKs

Crop category	Name of the crop	Variety	Hybrid	Quantity of seed (qtl)	Value (Rs)	Number of farmers to whom provided
Cereals (crop wise)						
Oilseeds						
Pulses	Black gram	VBN-5		10.40	10400	130
	Black gram	VBN-4		15.0	15000	153
	Green gram	CO-4		5.0	5500	62
Commercial crops						
Vegetables						

Flower crops					
Spices					
Fodder crop seeds					
	Hedgelucerne		0.35	7000	26
	Fodder Sorghum		0.30	6000	28
	Subabul		0.05	800	35
Fiber crops					
Forest Species					
Others (specify)					
Baby corn	Baby corn	G-5414	0.50	9600	36
Sorgum	Sorgum	CO(S)-30	2.0	2500	20
Total			 33.6	56800	490

#### 9.B. Production of Planting materials by the KVK

Contractor	Name of the crop	X	Hybrid	Name		Number of farmers to
Crop category		variety		Number	Value (Ks.)	whom provided
Fruits	Mango	Banglora		1056	31680	53
		Neelam		1312	39360	100
	Pomagranate			50	1000	12
	Bitter lime			150	3500	25
	Amla	BSR-1		468	14040	300
	Guava	L-49		1200	36000	210
Ornamental plants						
	Thuja			300	3000	265
	Bougainvilla			45	225	30
	Cleodendran			500	5000	82
	Kannagambaram			26	130	16
	Daguma			186	1860	20
	Gundu malligai			164	1640	45
	bedilanthus			253	1265	56
	Hibiscus ordinary			23	230	21
	Hibiscus adduku			34	340	8
	Hibiscus rose			21	210	12
	sandal			324	6480	16
	Pitchi poo			21	210	12
	Badam			18	270	11
	Crotons (acalipah)			1300	13000	240
	Poovarasu			253	2530	210
	Alamonda			21	315	18
	Red Rose			8	80	5
	Durantha green			1300	6500	241
	Duranta white			1800	12600	320
	Cocoa			1800	5400	10
Medicinal and Aromatic						
	Thuthuvalai			35	700	12
	Adathodai			46	920	24
	Sarpaganda			8	160	4
	Gynnienia			2	<i>3</i> 0	0

	Tulsi		30	300	13
	Nanthiavattai		10	200	4
	Vettiver		860	17200	241
	Aloevera		50	500	26
	omavalli		28	560	11
	Curry leaf		200	2000	120
	Pungam		800	16000	456
	Eucaliptus		10	100	6
Fodder crop saplings		CO-4	60000	30000	51
Forest Species					
	Vagai		120	3600	102
	Gulmuhar		250	7500	231
	Casuarina		200	1000	165
	Peoples tree		18	360	8
	Jatropha		10	50	4
	Tamarind		300	6000	162
	Kumil		850	17000	642
	Maruthu		460	9200	420
	Fig		0	0	0
	Gliricidia		600	6000	196
	Ailanthus		26	260	14
Total			 77553	306565	5256

#### **9.C. Production of Bio-Products**

	Name of the bio-product			Number of
		Quantity		farmers to
Bio Products		Kg	Value (Rs.)	whom provided
Bio Fertilizers	Azopirillum	550	22000	550
	Phosphobacteria	550	22000	550
	Rhizobium	600	24000	600
Bio-pesticide			0	
Bio-fungicide	Pseudomonas	50	5000	150
	T.viridi	50	5000	150
Bio Agents	Mushroom spawn	60	1800	12
Others (specify)	Vermicompost	1800	18000	250
Total		3660	97800	2262

## 9.D. Production of livestock materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	Number of farmers to whom provided
Dairy animals				
Cows				
Buffaloes				
Calves				
Others (Pl. specify)				
Poultry				
Broilers				
Layers				
Duals (broiler and layer)				
Japanese Quail	Nandanam III	1285	25706	345
Turkey		84	12608	26

Emu				
Ducks				
Improved Backyard poultry	Vanaraja	630	37800	256
	Namakkal	100	6000	40
Piggery				
Piglet				
Others (Pl.specify)				
Fisheries				
	Stunted		25000	856
Fingerlings	fingerlings	10000		
Goat	Jamunapari cross	26	95160	13
Total		12125	202274	1536

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

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

(A) KVK News Letter ((Date of start, Periodicity, number of copies distributed etc.) Not published in the reporting period

#### (B) Literature developed/published Nil

Item	Title	Authors name	Number
Research papers			
Technical reports	Promotion of inland fish cultivation in Thoothukudi district village ponds – A Poster	Mr.S.Manikandan Dr,.v.srinivasan Mr.G.Nagrajan	5
News letters			
Technical bulletins			
Popular articles			
Extension literature	Common infectious Diseases affecting livestock and its control measures	Dr.V.Srinivasan	2500
	Desi chicken rearing technique	Dr.V.Srinivasan	2500
	Improved charcoal cooker	Ms.S.Sumathi	2500
	Vegetable preservator CRIDA MODEL	Ms.S.Sumathi	2500
Others (Pl. specify)			
TOTAL	5		10005

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

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

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

## PROMOTION OF INLAND FISH CULTURE IN THOOTHUKUDI DISTRICT SEASONAL VILLAGE PONDS: THROUGH WATER COMMITTEE PARTICIPATION

## Introduction

Aquaculture has been globally recognized as the fastest growing food production sector. Aquaculture also ensures nutritional security, employment opportunity and improves the economic status of the country. The average rain fall of Thoothukudi district in southern Tamilnadu is 655.7 mm which is mainly collected during the north east monsoon period (October to December -410.1 mm). The district has 4152 hectare of seasonal tanks which are mainly used for domestic and live stock animals rearing purpose. If these water resources are utilized for composite fish culture by using extensive or semi intensive or appropriate resource bases through water committee, increased fish production and economic status of village can be expected. During the time of village level field visit and discussion with the village peoples we had indentified the following problems with respect to maintenances of village ponds and the fish cultivation 1.Un-utilization of potential common property water bodies for fish culture 2.Lack of awareness in fish culture technology 3.Non availability of quality fish seeds at correct time 4.Inadequate financial support.

#### Materials and methods

The front line demonstration (FLD) was conducted in seasonal village ponds in the district of Thoothukudi in southern Tamilnadu by Social Change and Development-Krishi Vigyan Kendra (SCAD-KVK) with the support of village water committee members.

#### Intervention of SCAD-Krishi vigyan kentra

- Formation of water committee in fish culture demonstration villages
- Dissemination of knowledge on composite fish culture technology
- Supply of seeds (advanced fry-3.5 to 6 cm/fingerling-7.5 to 10 cm)
- Monitoring and follow up

## Formation of water committee

The local community people were motivated to form water committee consisting 10-12 members representing different sections of the village including women, youth and men. They were given with awareness training on fish cultivation, group formation and financial management.

## Selection of ponds

Ponds retaining sufficient water for 7-8 months were selected for fish culture activity. The size of selected ponds ranged from 0.5 to 5.0 with 2-3 meter depth (1.5 meter minimum depth). The  $P^{H}$  of selected ponds ranged between 7.5 and 8.5.

## **Pond Management**

At least 15-20 days waiting period was observed to reduce the water turbidity and increase the primary productivity after the pond was filled with monsoon rain. The goats (500-1000 numbers/day) were allowed normally into ponds for drinking purpose two times daily. The excreta deposited in the pond which helps to increase the primary productivity in pond. The fish seeds were stocked at the rate of 7500 numbers per hectare. Occasionally villagers fed with unconventional feed stuff such as paddy husk, broken black gram and green gram in irregular feeding schedule. Harvest was done before the water level falls below the critical level in seasonal ponds. Local community people were organized on the fish harvest field day after 6-8 months and the fishes are harvested partially or fully by using gill net/drag net/scoop net. Primarily the harvested fishes were sold to local community people at low prices and surplus amount of fishes were sold in the local market at its local market prices.

## Result

The demonstration was started from 2008-09 in seven village ponds and produced 815 kg of fishes in 5.2 hectare of effective water spread area. During 2009-10 period the demonstration was conducted in sixteen village ponds and produced 7125 kg of fishes in 7.26 hectare of effective water spread area and in 2010-11period we conducted demonstration in fifteen village ponds and produced 7400 kg of fishes in 4.26 hectare of area . Based on the observation in the demonstration fish productivity were 156.7 kg/ha, 981.4 kg/ha, and 1745.2 kg/ha during 2008-09, 2009-10 and 2010-11 respectively.



## NUMBER OF SELECTED VILLAGES AND EFFECTIVE AREA COVERED FOR COMPOSITE FISH CULTURE FRONTLINE DEMONSTRATION

FISH PRODUCTION (Kg) AND FISH PRODUCTIVITY (Kg/Ha) IN COMPOSITE FISH CULTURE FRONTLINE DEMONSTRATED VILLAGES



### Conclusion

This inland fish culture demonstration programme has played significant role in improving the economic status of villages and supply of protein to village community people at low cost. Now the inland fish culture has slowly spreading to the other villages as an entrepreneurial activity and the success achieved by the villagers through water committee has conveyed the message to the neighboring villages. Based on the experience gained, demonstration is being conducted in 56 village ponds during 2012-13 periods.

## **Case study**

# Comparison of composite fish culture with advanced fry and four month reared fingerling in seasonal village tank

## Introduction

Soorangudi is village of Thoothukudi district in southern Tamilnadu this village has four hectare of two seasonal ponds which are mainly used for harvesting rain water and domestic purpose. Fish culture is a good venture in these village ponds which provides nutrition and income to the village without much external input and expenditure. During the 2009-10 periods the local community people were motivated by SCAD KVK to form water committee, they were given with awareness training on fish cultivation, group formation and financial management.

2009-10 periods

On 13.01.2010 SCAD KVK stocked 7000 number (Catla-2500, Rohu-2500, Mrigal -1000 and Common carp-1000) of fish seeds in one hectare of pond with support of water committee members. During the stocking time the average seed size of Catla 6-9 cm, Rohu 6-8 cm, Mrigal 6-8 cm and Common carp 3-5 cm these fish seeds were purchased from private fish farm. The P<sup>H</sup> and transparency of water were measured monthly once in this pond. The range of P<sup>H</sup>: 7.6-8.7 and transparency: 27-34. Local community people were organized on the fish harvest field day after 8 months and 1250 kg the fishes were harvested. The average weight of Catla 1.25-1.50 kg, Rohu 1-1.25 kg, Mrigal 1-1.25 kg and Common carp 0.75-1kg 2010-11 periods

On 12.01.2011 SCAD KVK stocked 2500 number (Catla-1000, Rohu-500, Mrigal -500 and Common carp-500) of fish fingerlings in one hectare of pond with support of water committee members. Before stocking of fingerlings they were grown for four months at SCAD KVK nursery pond with stunting method, at the time of stocking the average weight of fingerlings was 50-60 gram. The P<sup>H</sup> and transparency of water were measured monthly once in this pond. The range of P<sup>H</sup>: 7.6-8.7 and transparency: 27-34. Local community people were organized on the fish harvest field day after 7 months and 1200 kg the fishes were harvested. The average weight of Catla 1.25-1.50 kg, Rohu 1-1.25 kg, Mrigal 1-1.25 kg and Common carp 0.75-1kg.

Periods	Effective area (Ha)	Number of stocking	Stocking stage	Culture period	Fish production(Kg)	Production cost (Rs)
2009-10	1.0	7000	Advanced fry	8 months	1250	7000
2010-11	1.0	2500	Fingerling (four	7 months	1200	5000
			months reared)			

## Conclusion

Based on the observation in the demonstration the fish production were almost equal which were 1250 kg, 1200 kg during 2009-10 and 2010-11 respectively. So we can achieve high fish production with less production cost and less number of stocking in shorter culture period.

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

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

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

## Identification of courses for farmers/farm women

- Farmers/ Farm women group meeting Individual discussion
  - Village survey SAC meetings
- Rural Youth

#### Rural Youth

\_

-

- Individual discussion Village survey
- SAC meetings

## - In service personnel

- Discussion with line dept. officials
  - SAC meetings

## **10.G.** Field activities

- i. Number of villages adopted -6
- ii. No. of farm families selected 90
- iii. No. of survey/PRA conducted- 6

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

Status of establishment of Lab

:

1. Year of establishment

2005

:

2. List of equipments purchased with amount :

Sl. No	Name of the Equipment	Qty.	Cost
1.	pH meter	1	9850
2.	EC meter	1	9950
3.	Spectrophotometer	1	59500
4.	Flame photometer	1	48000
5.	Precision balance	1	99500
6.	Top pan balance	1	98000
7.	water distillation still	2	98000
8.	Shaker	2	49000
9.	Hot air oven	1	14000
10	Hot plate with stirrer	1	22000
11.	Kjeldhal digestion and distillation set	2	59000
12	Nitrogen auto analyzer with digestion block	1	202932
13	Willie mill	1	26000
Total			795732

### Details of samples analyzed so far since establishment of SWTL:

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)
Soil Samples	899	770	339	35735
Water Samples	545	535	278	27205
Plant samples	14	14	14	1400
Manure samples	0	0	0	0
Others (specify)	0	0	0	0
Blood samples	72	72	21	3600
Total	1530	1391	652	67940

**Details of samples analyzed during the 2011-12 :** 

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)
Soil Samples	152	152	10	7600
Water Samples	12	12	6	600
Plant samples				
Manure samples				
Others (specify)				
Blood samples	12	12	6	600
Total	176	176	22	8800

## **10.I.** Technology Week celebration

Nil

J. Interventions on drought mitigation (if the KVK included in this special programme)
 Not included -

## PART XI. IMPACT

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

Name of specific	No. of	% of adoption	Change in incor	ne (Rs.)
technology/skill transferred	participants	-	Before	After
			(Rs./Unit)	(Rs./Unit)
Vaccination of goats against	120	80%	1850/annum	3800/annum
infectious diseases				
Breeding of milch animals	80	75%	7000/annum	10000/annum
between 60-90 days post calving				
Vaccinating the backyard poultry	165	85%	600/annum	1200/annum
against Ranikhet disease				
Deworming the goats	120	90%	1850/annum	3800/annum
Biofertilizer application for	60	50%	10000/ha	12000/ha
crops				
Kitchen gardening during rainy	50	85%	250	900
season				
Mineral mixture feeding to the	35	85%	7000/annum	10000/annum
milch animals to avoid				
production diseases and delayed				
fertility in cows				
Tailoring	40	65%	00	1250/month
Foliar application of IIHR	15	80%	40000/acre	45000/acre
mineral mixture to banana				
Composite fish culture in village	25	80%	3000/annum	8000/annum
ponds				
Use of certified seeds and	25	90%	32000/ha	40000/ha
importance of quality seeds in				
improving the yield in blackgram				
Cultivation of green fodder	25	18	18000/unit	25000/unit
CoFS 29				
Cultivation of Co(CN)-4 fodder	62	45	18000/unit	25000/unit

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

#### 11.B. Cases of large scale adoption (Please furnish detailed information for each case)

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

## PART XII - LINKAGES

## 12.A. Functional linkage with different organizations

Name of organization	Nature of linkage
AC & RI, Killikulam	<ul> <li>Participated in the SAC meetings and advised us in selecting suitable</li> </ul>
	technologies for demonstration
	<ul> <li>Supplied KKM -1 chilli seeds for demonstration</li> </ul>
AH Dept, Tuticorin	<ul> <li>Supported to conduct animal health campaigns in 28 villages</li> </ul>
	<ul> <li>Collaborated in training the free goat scheme beneficiaries</li> </ul>
	<ul> <li>35 VAS attended the extension functionaries training conducted at KVK</li> </ul>
	<ul> <li>75 trainees visited KVK demo units</li> </ul>
Dept.of Horticulture, Tuticorin	<ul> <li>75 farmers visited KVK demo units</li> </ul>
Dept. of Agriculture, Tuticorin	<ul> <li>150 farmers visited KVK demo units</li> </ul>

Dept of Organic Certification, Coimbatore	4 farmers were included in organic certification
Central institute for fodder production and demonstration, Alamati Chennai	<ul> <li>Supplied 100 mini kits for demonstration of cowpea and stylo crops</li> </ul>
KVK, Kattupakkam	Supplied 40 numbers of woner Rat trap
Veterinary University Training and Research Centre	<ul> <li>Participated in the SAC meetings and extension functionaries training</li> </ul>
	programe and guided us in formulating the OFT and FLD programmes
Fisheries college, Thoothukudi	<ul> <li>Participated in the SAC meetings and extension functionaries training</li> </ul>
	programe and guided us in formulating the OFT and FLD programmes

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

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

Name of the scheme	Date/ Month of initiation	Funding agency	Amount (Rs.)
Farm school	Jan 2011	ATMA	66000

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

a) Is ATMA implemented in your district Yes

If yes, role of KVK in preparation of SREP of the district? No involvement

#### Coordination activities between KVK and ATMA during 2010-11

S. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK	Other remarks (if any)
01	Meetings	8	8		
02	<b>Research projects</b>				
03	Training programmes	28	20		
04	Demonstrations				
05	Extension				
00	Programmes				
	Kisan Mela				
	Technology Week				
	Exposure visit	4	4		
	Exhibition				
	Soil health camps				
	Animal Health				
	Campaigns				
	Others (Pl. specify)				
06	Publications				
	Video Films				
	Books				
	Extension				
	Literature				
	Pamphlets				
	Others (Pl. specify)				
07	<b>Other Activities</b>				
07	(Pl. specify)				

Watershed		
approach		
Integrated Farm		
Development		
Agri-preneurs		
development		

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

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

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

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

## 12.F. Details of linkage with RKVY

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

## 12. G Kisan Mobile Advisory Services

<u>Nil</u>			
Month	No. of SMS sent	No. of farmers to which SMS was sent	No. of feedback / query on SMS sent
April 2011			
May			
June			
July			
August			
September			
October			
November			
December			
January 2011			
February			
March			

## PART XIII- PERFORMANCE OF INFRASTRUCTURE IN KVK

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

S1.		Year of	Aron	Details	s of producti	on	Amour	t (Rs.)	Domark
No	Demo Unit	establishmen t	(ha)	Variety	Produce	Qty.	Cost of inputs	Gross income	S
1	Poultry unit	2010	160sq.	Vanaraja	Chick	730	4836	4880	
			m	Namakkal	S		5	0	
				-1					
					Egg	3120			
				J.quail s	Quail	1285	3796	2570	
				N-3	s		6	6	
2	Vermicompo	2006	20sq.m	compost		1800k	1250	1800	
	st		_	_		g	0	0	
3	Mushroom	2011	20sq.m	mushroo		25kg	1650	2500	
				m			0		

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

Nama	Data of	Data of	) a	Details of production			Amour	nt (Rs.)	
of the crop	sowing	harvest	Are (ha	Variety	Type of Produce	Qty.	Cost of inputs	Gross income	Remarks
Cereals									
Spices & Plantation crops									
Coconut		Round the year	0.8 3.0	Tall TXD	Nuts " Tender nuts	2750 350 620	7910 9000	10250 4500 5200	
Fruits						-			
Mango		April- July	1.0	Bangalore	fruits	950kg	15200	9500	
				Neelam	fruits	520		5200	
Sapota		June – aug	0.4	PKM-1	fruits	150	2500	1500	
CO-4		April – march	0.01	Co-4	Slips	60000	12500	30000	
Tree seedlings			1	Tree seedlings	Seedlings	77533	256200	306565	

Sl. Name of the		0	Amou	- Domorks	
No.	Product	Qty	Cost of inputs	Gross income	Remarks
1	Azopirillum	550		22000	
2	Phosphobacteria	550		22000	
3	Rhizobium	600		24000	
4	Pseudomonas	50		5000	
5	T.viridi	50	65200	5000	
6	Mushroom				
	spawn	60	650	1800	

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

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

S1	Name	Deta	Details of production			Amount (Rs.)		
No	of the animal / bird / aquatics	Breed	Type of Produce	Qty.	Cost of inputs	Gross income	Remarks	
1	Goat	Jamunapari	Kids	26	65800	95160		
		cross						
2	fingerlings	coprs	fingerlings	10000	15500	25000		

## 13.E. Utilization of hostel facilities - Not available

Accommodation availab	ble (No. of beds)		
Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
October 2008			
November 2008			
December 2008			
January 2009			
February 2009			
March 2009			
April 2009			
May 2009			
June 2009			
July 2009			
August 2009			
September 2009			

#### 13.F. Database management

S. No	Database target	Database created
1	2	1 ( district profile )

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

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

## PART XIV - FINANCIAL PERFORMANCE

## 14.A. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Branch	Account	Account	MICR	IFSC
			code	Name	Number	Number	Number
With Host Institute	South Indian Bank	Tirunelveli	0254	Social	0254	627059002	SIBL
				change and	0530		000
				development	0000		0254
				_	1819		
	-do-	-do-			0254		
					0530		
					0000		
					1884		
	-do-	-do-			0254		
					0530		
					0000		
					1885		
	-do-	-do-			0254		
					0530		
					0000		
					462		

## 14.C. Utilization of funds for the year 2011-12 (Rs. in Lakh)

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Rec	curring Contingencies			
1	Pay & Allowances	55		55.1
2	Traveling allowances	1.5		1.49
3	Contingencies			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library			
	maintenance (Purchase of News Paper & Magazines)	1.9		1.9
В	POL, repair of vehicles, tractor and equipments	1.5		1.49
С	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	0.8		0.8
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the			
	training)	0.25		0.25
E	(minimum of 30 demonstration in a year)	2.7		2.7
F	Frontline demonstration on special pulses Programme	0.3		0.3
G	On farm testing (on need based, location specific and			
	systems of the area)	0.5		0.5
Н	Training of extension functionaries	0.25		0.24
Ι	Maintenance of buildings	0.25		0.25
J	Library	0.05		0.05
K	Extension activities	0.25		0.25
L	Farmer's field school	0.25		0.25
	TOTAL (A)	65.5		65.57
	B. Non-Recurring Contingencies			
1	Works	23.32		23.32
2	Equipments including SWTL & Furniture	0		0
3	Vehicle (Four wheeler/Two wheeler, please specify)	0		0

4 <b>Library</b> (Purchase of assets like books & journals)	0	0
TOTAL (B)	23.32	23.32
C. REVOLVING FUND		
<b>GRAND TOTAL (A+B+C)</b>	88.82	88.89

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

Year	Opening balance as on 1 <sup>st</sup> April	Income during the year	Expenditure during the year	Net balance in hand as on 1 <sup>st</sup> April of each year
April 2009 to March 2010	502423	363450	308657	557216
April 2010 to March 2011	557216	369497	312522	614191
April 2011 to March 2012	614191	425642	516494	523339

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

Name of the staff	Designation	Title of the training programme	Institute where attended	Dates
Dr.V.Srinivasan ,	SMS Animal science cum Programme coordinator i/c	Workshop on documenting and scouting rural innovation	TANUVAS, Chennai	21.9.2011
Dr.V.Srinivasan ,	SMS Animal science cum Programme coordinator i/c	QRT workshop	Pondicherry KVK	4.8.2011
A.Murugan	SMS Agronomy	Fodder production training	TANUVAS, Chennai	22and 23.9.2011
S.Sumathi	SMS Home science	Psychology of vision training	SCAD, Tirunelveli	27and 28.9.2011
S.Sumathi	SMS Home science	Psychology of vision Training	SCAD, Tirunelveli	1.10.11
Dr.V.Srinivasan ,	SMS Animal science cum Programme coordinator i/c	convergence of AICRP centre and KVK for effective technology dissemination	ARS,Kovilpatti	28.10.2011
S.Sumathi	SMS Home science	Women: Redefining the course of action towards transformation	ACWW,Madurai	16-18 November 2011
Dr.V.Srinivasan ,	SMS Animal science cum Programme coordinator i/c	KVK National conference	Jabalpur Conducted by ICAR	3-5th Dec.2012
S.Manikandan	Programme assistant (fisheries)	National Conference on New vistas in Indian Aquaculture	CIBA,Chennai	23-24 th FEBRAURY 2012

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S.Manikandan	Programme assistant (fisheries )	Workshop on <i>Walk-the-</i> <i>Talk</i>	WORD,Namakkal	7-10 th FEBRAURY 2012
Mr.Jove	Computer programmer	QRT workshop	Pondicherry KVK	4.8.2011
A.Murugan	SMS Agronomy	Strengthening the capabilities on formulation of technical programme for KVKs	TNAU,Coimbatore	20.03.12 to 22.03.12
M.Ashokkumar	SMS Plant protection	Entrepreneurs development programmes for KVK mangers	TNAU,Coimbatore	14.03.12 to 16.03.12
V.Mohan	SMS Soil science	Natural Disaster management	TNAU,Coimbatore	27.03.12 to 28.03.12
A.Damodharan	Farm manager	Natural Disaster management	TNAU,Coimbatore	27.03.12 to 28.03.12

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

## **SUMMARY FOR 2010-11**

## I. TECHNOLOGY ASSESSMENT

## Summary of technologies assessed under various crops

Thematic areas	Сгор	Name of the technology assessed	No. of trials
Integrated Nutrient Management			
Varietal Evaluation	Tomato	Assessing the different tomato varieties for disease resistance and high yield	10
Integrated Pest Management			
Integrated Crop Management	Black gram	Assessing the utility of methylobacteria for drought tolerance	10
Integrated Disease Management			
Small Scale Income Generation Enterprises			
Weed Management			
Resource Conservation Technology	Banana	Assessing the utility of enriched biocharcoal soil application in improving the soil quality and yield	10
Farm Machineries			
Integrated Farming System			
Seed / Plant production			
Value addition			
Drudgery Reduction			
Storage Technique			
Others (Pl. specify)			
Total			

## Summary of technologies assessed under livestock

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials
Disease Management			
Evaluation of Breeds			
Feed and Fodder management			
Nutrition Management	Dairy cattle	Assessing utility of prosobis juliflora pod flour as an cheap alternative concentrate feed ingredient	10

Dairy cattle	Assessing the utility of different mineral mixtures to prevent post partum	10
	anoestrum and	
	oestrum	
		20
	Dairy cattle	Dairy cattle Assessing the utility of different mineral mixtures to prevent post partum anoestrum and delayed onset of oestrum

#### . Summary of technologies assessed under various enterprises

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

## Summary of technologies assessed under home science

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

## **II. TECHNOLOGY REFINEMENT**

#### Summary of technologies refined under various crops

Thematic areas	Crop	Name of the technology refined	No. of trials
Integrated Nutrient Management			
Varietal Evaluation			
Integrated Pest Management			
Integrated Crop Management			
Integrated Disease Management			
Small Scale Income Generation Enterprises			
Wood Managamant			
weed management			
Resource Conservation Technology			
Farm Machineries			
Integrated Farming System			
Seed / Plant production			
Value addition			
value addition			
Drudgery Paduction			
Drudgery Reduction			
Storage Technique			
1			
Others (Pl. specify)			
Total	1	1	

## Summary of technologies assessed under refinement of various livestock

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

#### Summary of technologies refined under various enterprises

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

## Summary of technologies refined under home science

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

## **III. FRONTLINE DEMONSTRATION**

#### Cotton

#### Frontline demonstration on cotton

Cron	Thomatic Area	Name of the technology demonstrated No. of KVKs	No. of VVVa	Yield (q/ha) *Economics of demonstration (Rs/ha)					s./ha)	*Economics of check (Rs./ha)						
Сгор	Thematic Area	Name of the technology demonstrated	NO. OI KVKS	No. of Farmers	(ha)	Demonstration	Check	76 increase	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Total																

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

## **Other crops**

Cron	Thomatic area	Name of the	No. of	No. of	Area	Yield	Yield (q/ha)		% change in yield Other parameters		*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
Сюр	Thematic area	demonstrated	KVKs	Farmer	(ha)	Demons ration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Cereals	Varietal introduction and ICMP	Demonstration on ICMP in PADDY	1	10	4	40	30	33			22000	48000	26000	2.1	20000	36000	16000	1.8
Millets	Varietal introduction and ICMP	Demonstrating sorghum ( CO S - 30 ) variety for value addition	1	25	10	24	18	33			12000	28800	16800	2.4	10000	18000	8000	1.8
		Demonstrating Baby corn variety (G-5414) for value addition	1	20	5	65	56	16			32000	97500	65500	3.0	25000	67500	42500	2.7
Oilseeds																		
		_																
Pulses	Varietal introduction and ICMP	Demonstration on participatory method of seed production	1	15	5	6.8	5	36			18800	54000	35200	2.8	14120	25000	10880	1.7
Vegetables	Varietal introduction and ICMP	Introduction of small onion	1	10	2	140	80	75			42000	168000	126000	4.0	30000	96000	66000	3.2
	Varietal introduction and ICMP	Introduction of Bhendi variety	1	10	2	108	55	96			40000	108000	68000	2.7	30000	55000	25000	1.8
Flowers																		

Ornamental																	
Fruit	ICMP	Demonstration on ICMP in Banana	1	10	2	660	450	46.7		98500	494000	395500	5.02	86500	374500	288000	4.33
Spices and condiments	ІСМР	KKM-1 chilli cultivation with	1	10	4	24.0	17.0	41.17		38515	84000	45485	2.18	32550	59500	26950	1.82
		ICMIF															
Commercial																	
Medicinal and aromatic																	
Fodder	Fodder development	CO-4 Fodder cultivation, Hedge Lucerne cultivation	1	10	1	370	325 (CO-3)	9.56		12500	22500	8000	1.86	10500	16700	6200	1.59
Plantation																	
Fibre																	
Others (pl.specify)																	
		Total															

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

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#### Livestock

Category	Thematic area	Name of the technology	No. of	No. of	No.of	Major pa	arameters	% change in major parameter	Other param	eter	*E	conomics of de	monstration (R	s.)		*Economics (Rs	s of check	
		demonstrated	KVKS	Farmer	units	Demons ration	Check		Demons ration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Dairy																		
Poultry	Promotion of backyard poultry	Promotion of improved backyard poultry rearing				1.95 kg/bird at 6 <sup>th</sup> month	1.1 kg/bird at 6 <sup>th</sup> month	57.6			520	1070	550	2.1	382	710	328	1.86
						145 eggs/annum	85 eggs/annum	58.6										
Rabbitry																		
Pigerry																		
	D'	G 1 .																
Sheep and goat	control in livestock	disease control in goats				13.5kg at 12 <sup>th</sup> month	12.0kg at 12 <sup>th</sup> month	12.5			1250	2800	1600	2.24	1200	2500	1300	2.1
Duckery																		
Others																		
(pl.specify)																		
	ļ																	
		Total																

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

## Fisheries

Catagory	Thomatic area	Name of the	No. of	No. of	No.of	Major pa	rameters	% change in major parameter	Other par	rameter	*Econ	omics of de	monstration	(Rs.)		*Economics (Rs	s of check s.)	
Category	Thematic area	demonstrated	KVKs	Farmer	units	Demons	Chaolr		Demons	Chaolr	Gross	Gross	Net	**	Gross	Gross	Net	**
		demonstrated				ration	Check		ration	Check	Cost	Return	Return	BCR	Cost	Return	Return	BCR

Common	Inland fish culture	Composite fish culture with stunted fish	1													
carps		fingerlings		4	4				Under of	oservation						
Mussels																
Ornamental	Ornamental fish cultivation	Ornamental fish rearing using small ring tanks in	1	3	3				Under of	servation						
lislies		the backyard		3	3	1	[	r			r	1	1	1	1	
Others																
(pl.specify)																
		Total														

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

## **Other enterprises**

Cotocomi	Name of the	No. of	No. of	No.of	Major pa	rameters	% change in major parameter	Other par	rameter	*Econo	mics of demons	tration (Rs.) or F	Rs./unit		*Economic (Rs.) or	s of check Rs./unit	
Calegory	demonstrated	KVKs	Farmer	units	Demons ration	Check		Demons ration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Oyster mushroom																	
Button mushroom																	
Vermicompost																	
Sericulture																	
Apiculture																	
Others (pl.specify)																	
	Total																

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

## Women empowerment

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

## Farm implements and machinery

Name of the	Crop	Name of the	No. of	No. of	Area	Filed ob (output/r	servation nan hour)	% change in major parameter	La	bor reduction	on (man day	s)	Cost red	uction (Rs./	ha or Rs./Uı	nit ect.)
implement	Стор	demonstrated	KVKs	Farmer	(ha)	Demons ration	Check									
Vegetable preservator (CRIDA – Model) 15 kg capacity	Vegetable s	Demonstration of Vegetable preservator (CRIDA – Model) 15 kg capacity	1	5												
Improved charcoal	-	Demonstration of Sarai cooker (12 liters capacity)	1													
liters)		niens explicity)		10												
	Cattle	Revolving	1													
		milking stool														
		for reduing														
Milking		drudgery for														
revolving		women during														
stool		milking		10												

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

Duta on additional parameters other than about saved (ville, reduction in araugery, this every)
---

	Data on other parameters in relation	on to technology demonstrated
Parameter with unit	Demo	Local
Shelf life of vegetables	9 days	4 days
Shelf life of fruits	8days	4 days
Shelf life of greens	5 days	2 days
Shelf life of roots and tubers	21 days	10 days
Retention of colour	7 days	4 days
Shrinkage of vegetables	7 days	4 days
Sarai cooker		
Kg. of fuel wood used for one	250g of chargoal	5.2kg of fuel wood
cooking	250g of charcoar	5.2kg of fuel wood
Active Time spent for cooking	20 min	1.2 hrs
Smoke produced during cooking	Nil	Excessive smoke produced
Milking the cattle using		
revolving stool		
Time required for complete		
milking in each cattle by the	3.5 min	5.2 min
women		

## Other enterprises

## Demonstration details on crop hybrids

Сгор	Name of the Hybrid	No. of farmers	Area (ha)	Yield (kg/ha) / n	najor paramo	eter		Economic	s (Rs./ha)	
				Demonst- ration	Local check	% change	Gross Cost	Gross Return	Net Return	BCR
Cereals										
Bajra										
Maize	Baby corn G-5414	20	5	65	56	16	32000	97500	65500	3.0
Rice										
Sorghum										
Wheat										
---------------------	--	--	--	--	--					
Others (pl.specify)										
Total										
Oilseeds										
Castor										
Mustard										
Safflower										
Sesame										
Sunflower										
Groundnut										
Soybean										
Others (pl.specify)										
Total										
Pulses										
Greengram										
Blackgram										
Bengalgram										
Redgram										
Others (pl.specify)										
Total										
Vegetable crops										
Bottle gourd										
Capsicum										
Others (pl.specify)										
Total										
Cucumber										
Tomato										
Brinjal										
Okra										
Onion										

Potato										
Field bean										
Others (pl.specify)										
Total										
Commercial crops										
Sugarcane										
Coconut										
Others (pl.specify)										
Total										
Fodder crops	Co(CN)-4	10	1	370	325 (CO-3)	9.56	12500	22500	8000	1.86
Maize (Fodder)										
Sorghum (Fodder)										
Others (pl.specify)										
Total										

# **IV. Training Programme**

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

					N	o. of Par	ticipants			
Area of training	No. of Course		General			SC/ST	-	(	Frand Tot	al
······································	s	Male	Fem ale	Total	Male	Femal	Total	Male	Femal	Total
Crop Production			uic			č				
Weed Management										
Resource Conservation										
Technologies Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/Irrigation										
Seed production										
Nursery management										
Integrated Cron Management	2	21	4		10	7				
Soil and Water Conservation	3	31	4	35	16	/	23	47	11	58
Integrated Nutrient Management										
Production of organic inputs										
Fodder cultivation technology	1	7	0		1					
Horticulture	1	/	0	7	1	0	1	8	0	8
a) Vagatable Crong										
a) vegetable crops										
volume crop										
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Post harvest management for banana and vegetables										
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										
Training on Tissue culture Banana										

c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl.specify)										
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
f) Spices										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (pl.specify)										
Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated nutrient management										
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient use efficiency										
Balanced use of fertilizers										
Soil and water testing										
Others (pl.specify)										
Livestock Production and Management										
Dairy Management										
Poultry Management	1	7	8	15	4	3	7	11	11	22
Piggery Management				15			,			
		1				•		·		

Rabbit Management										
Animal Nutrition Management										
Animal Disease Management										
Feed and Fodder technology										
Production of quality animal products										
Goat management	3	39	16	55	22	36	58	61	52	113
Turkey and Quail management	2	13	1	14	8	0	8	21	1	22
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										
processing										
Processing and cooking										
Gender mainstreaming through SHGs	2	0	55	55	0	6	6	0	61	61
Storage loss minimization techniques										
Value addition	11	56	72	128	35	33	68	91	105	196
Women empowerment										
Location specific drudgery										
Rural Crafts										
Women and child care										
An Interactive training for the Prosopis commodity groups on value addition and marketing strategies										
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										
Post Harvest Technology										
Others (pl.specify)										
Plant Protection										
Integrated Pest Management										
Integrated Disease Management										
Bio-control of pests and diseases	1	4	0	4	2	0	2	6	0	6

Production of bio control agents and bio pesticides	1	16	0	16	10	0	10	26	0	26
Mushroom cultivation	1	7	2	9	3	1	4	10	3	13
Fisheries										
Integrated fish farming	1	1	0	1	2	1	3	3	1	4
Carp breeding and hatchery										
Carp fry and fingerling rearing										
Composite fish culture	1	7	0	7	4	0	4	11	0	11
Hatchery management and culture	1	7	0		4	0	4	11	0	11
of freshwater prawn										
Breeding and culture of ornamental fishes	1	4	0	4	2	0	2	6	0	6
Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value										
Others (pl.specify)										
Production of Inputs at site										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production										
Organic manures production										
Production of fry and fingerlings										
Production of Bee-colonies and										
wax sheets										
Production of livestock feed and										
fodder										
Production of Fish feed										
Mushroom production										
Apiculture										
Others (pl.specify)										
Capacity Building and Group Dynamics										
Leadership development										
Group dynamics	1	0	37	37	0	20	20	0	57	57
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/vouths										
	1	1				i		I	1	1

Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (Pl. specify)										
TOTAL	30	192	195	387	109	107	216	301	302	603

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

	No. of				No. a	of Parti	cipants			
Area of training	Course		General			SC/ST		(	Frand Tota	ıl
C C	S	Male	Fema le	Total	Mal e	Fem ale	Total	Male	Female	Total
Crop Production										
Weed Management	1	26	10	36	5	4	9	31	14	45
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/Irrigation										
Seed production	5	93	17	110	16	11	27	109	28	137
Nursery management										
Integrated Crop Management	5	81	2	83	11	4	15	92	6	98
Soil and Water Conservation	4	57	18	75	11	9	20	68	27	95
Integrated Nutrient Management	5	86	0	86	2	12	14	88	12	100
Production of organic inputs										
Others										
Enriching biochar Horticulture										
a) Vegetable Crops										
Production of low value and high										
volume crop										
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl.specify)										
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit										
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (pl.specify)										
c) Ornamental Plants										
Nursery Management										

Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl.specify)										
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
f) Spices										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (pl.specify)										
Soil Health and Fertility Management										
Soil fertility management	4	41	0	41	8	12	20	49	12	61
Integrated water management										
Integrated nutrient management										
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient use efficiency										
Balanced use of fertilizers										
Soil and water testing										
Others (pl.specify)										
Livestock Production and Management										
Dairy Management	3	19	17	36	4	0	4	23	17	40
Poultry Management	1	0	0	0	8	8	16	8	8	16
Piggery Management										
Rabbit Management										
Animal Nutrition Management	1									

Animal Disease Management	14	122	69	191	67	38	105	189	107	296
Feed and Fodder technology	4	30	12	42	3	0	3	33	12	45
Production of quality animal	1	6	8	14	0	0	0	6	8	14
Goat management	1	8	4	12	4	0	4	12	4	16
Home Science/Women										
empowerment										
kitchen gardening and nutrition gardening	1	0	21	21	0	12	12	0	33	33
Design and development of low/minimum cost diet	6	0	74	74	0	31	31	0	105	105
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing	2	0	0	0	0	33	33	0	33	33
Processing and cooking	2	0	8	8	0	12	12	0	20	20
Gender mainstreaming through SHGs	2	0	28	28	0	32	32	0	60	60
Storage loss minimization techniques	5	13	18	31	5	14	19	18	32	50
Value addition	12	112	16	128	39	29	68	151	45	196
Women empowerment	2	0	23	23	0	24	24	0	47	47
Location specific drudgery	4	11	6	17	0	45	45	11	51	62
Rural Crafts	1	2	6	8	0	0	0	2	6	8
Women and child care	2	0	17	17	0	14	14	0	31	31
Energy saving devices	3	20	5	25	12	34	46	32	39	71
Agril. Engineering	5	20	5	20		5.	10			, -
Farm machinery and its										
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	2	12	3	15	3	4	7	15	7	22
Others (pl.specify)										
Plant Protection										
Integrated Pest Management	2	18	0	18	0	0	0	18	0	18
Integrated Disease Management										
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others (pl.specify)										
Fisheries										
Integrated fish farming										

Carp breeding and hatchery										
management										
Composite fish culture	25	210					100	250	- 1	2.12
Hotohory monogoment and culture	27	210	0	210	69	64	133	279	64	343
of freshwater prawn										
Breeding and culture of	4	11	0	11	3	2	5	14	2	16
ornamental fishes	•		Ŭ	**	5	-	5		-	10
Pop culture of fish and prown										
Shrimp forming										
Shrimp farming										
Edible öyster farming										
Pearl culture										
Fish processing and value addition										
Others Stunted fish culture	4	15	0	15	6	6	12	21	6	27
Production of Inputs at site Seed Production										
Planting material production										
Bio-agents production										
Dio-agents production										
Die fertilizen and destion										
Bio-fertilizer production										
Vermi-compost production										
Organic manures production										
Production of fry and fingerlings										
Production of Bee-colonies and wax sheets										
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
Mushroom production										
Apiculture										
Others (pl.specify)										
Capacity Building and Group										
Dynamics										
Leadership development			-							
Group dynamics	2	0	24	24	0	16	16	0	40	40
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of										
farmers/youths										
Ouners (pl.specify)										
Agro-forestry										
Production technologies										
Nursery management										

Integrated Farming Systems										
Others (Pl. specify)										
TOTAL	131	993	406	1399	276	470	746	1269	876	2145

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

	No. of				No. o	of Parti	cipants			
Area of training	Cours	(	General			SC/ST		Gr	and Tot	al
	es	Male	Fem ale	Total	Male	Fem ale	Total	Male	Fema le	Total
Nursery Management of Horticulture crops										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming	2	7	4	11	6	11	17	13	15	28
Seed production										
Production of organic inputs	2	32	11	43	10	43	53	42	54	96
Planting material production										
Vermi-culture	2	5	0	5	9	0	9	14	0	14
Mushroom Production	1	8	2	10	4	12	16	12	14	26
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements	2	0	8	8	0	24	24	0	32	32
Value addition	1	0	9	9	0	12	12	0	21	21
Small scale processing										
Post Harvest Technology	1	30	0	30	5	0	5	35	0	35
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying										
Sheep and goat rearing	1	8	2	10	4	0	4	12	2	14
Quail farming	2	10	3	13	9	0	9	19	3	22
Piggery										
Rabbit farming										
Poultry production	3	21	3	24	7	2	9	28	5	33
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										

Fish harvest and processing technology										
Fry and fingerling rearing										
Kitchen garden establishment and maintenance										
Fodder cultivation on feeding of cattle &goat	2	15	0	15	3	0	3	18	0	18
Importance of energy saving devices	2	15	0	15	12	0	12	27	0	27
TOTAL	21	151	42	193	69	104	173	220	146	366

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

	No. of				No.	of Partio	cipants			
Area of training	Cours		Genera			SC/ST		G	rand To	otal
	es	Male	Femal e	Total	Male	Fema le	Total	Male	Fema le	Total
Nursery Management of Horticulture crops										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming	2	28	0	28	0	0	0	28	0	28
Seed production	1	12	0	12	0	0	0	12	0	12
Production of organic inputs	1	11	0	11	0	0	0	11	0	11
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition	3	0	38	38	0	16	16	0	54	54
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production	1	3	3	6	0	0	0	3	3	6
Ornamental fisheries										

Composite fish culture	6	41	0	41	14	17	31	55	17	72
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Management of home stead incubator	1	4	2	6	0	0	0	4	2	6
Integrated pest management	2	26	0	26	0	0	0	26	0	26
Psychological and nutritional care for adolescent girls	3	0	15	15	0	28	28	0	43	43
TOTAL										
	12	70	18	88	14	45	59	84	63	147

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

	No			]	No. of	Partici	pants			
	of	G	eneral	_		SC/ST	-	Gr	and T	otal
Area of training	Cou rses	Male	Fem ale	Tot al	Mal e	Fem ale	Tot al	Mal e	Fe ma le	Tota l
Productivity enhancement in field crops										
Integrated Pest Management										
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals	1	19	4	23	5	2	7	24	6	30
Livestock feed and fodder production										
Household food security	3	0	78	78	0	41	41	0	119	119
Any other (pl.specify) importance of energy saving devices-sarai	5	8	55	63	9	33	42	17	88	105

cooker, enviro fit stove, vegetable										
preservator										
Training on KVK activities and income generation programmes for self help group members										
Total	9	27	137	164	14	76	90	41	213	254

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

	No.			I	No. of	Partic	ipants			
Area of training	of	(	General			SC/ST		Gr	and To	tal
Area of training	Cour	Ma	Fema	То	Ma	Fem	Tot	Ma	Fem	Tot
	ses	le	le	tal	le	ale	al	le	ale	al
Productivity enhancement in field crops										
Integrated Pest Management										
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm										
machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet										
designing										
Group Dynamics and farmers										
organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Importance and usage of vegetable	1	0	2	2	0	16	16	0	18	18
preservator										
Importance and usage of improved	1	0	3	3	0	4	4	0	7	7
charcoal cooker										
Integrated farming system practices	1	12	16	28	14	8	22	26	24	50
Ornamental fish culture training	1	3	0	3	1	12	13	4	12	16
Total	4	15	21	36	15	40	55	30	61	91

## 7.G. Sponsored training programmes

		No. of				No. of	Particip	ants			
S.No.	Area of training	Cours		General	1		SC/ST		G	rand To	tal
2.1.101	· · · · · · · · · · · · · · · · · · ·	es	Ma	Femal	Total	Mal	Femal	Tota	Ma	Fema	Tota
			le	e	IUtai	e	e	1	le	le	l
1	Crop production and										
	management										
1.a.	Increasing production and										
	productivity of crops										
1.b.	Commercial production of										
	vegetables										
2	Production and value addition										
2.a.	Fruit Plants										
2.b.	Ornamental plants										
2.c.	Spices crops										

3.	Soil health and fertility										
	management										
	Pest and disease management	1	10	10	20	10	o	20	20	20	50
	in Groundnut and Paddy	L	10	14	50	12	o	20	30	20	50
4	Production of Inputs at site										
5	Methods of protective										
	cultivation										
6	Others (pl.specify)										
7	Post harvest technology and										
	value addition										
7.a.	Processing and value addition	1	5	10	15	4	6	10	9	16	25
7.b.	Others (pl.specify)										
8	Farm machinery										
8.a.	Farm machinery, tools and										
	implements										
8.b.	Others (pl.specify)										
9.	Livestock and fisheries										
10	Livestock production and										
	management										
10.a.	Animal Nutrition Management										
10.b.	Animal Disease Management	1	15	10	25	0	0	0	15	10	25
10.c	Fisheries Nutrition										
10.d	Fisheries Management										
10.e.	Clean milk production and value	1	10	12	20	12	Q	20	20	20	50
	addition of milk	1	10	14	30	14	0	20	30	20	50
11.	Home Science										
11.a.	Household nutritional security										
11.b.	Economic empowerment of	n	0	26	26	0	20	20	0	56	56
	women	2	0	20	20	0	50	50	U	50	50
11.c.	Drudgery reduction of women										
11.d.	Others (pl.specify)										
12	Agricultural Extension										
12.a.	Capacity Building and Group										
	Dynamics										
12.b.	Others (pl.specify)										
	Total	4	23	48	101	28	44	60	39	92	131

## Details of sponsoring agencies involved

1.ATMA

2.Agribusiness department 3.Agri.engineering department

4.Agriculture department

5.Horticulture department

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

		No			]	No. of	Parti	cipants			
S N		of		Genera	l		SC/S	Г	G	Frand T	'otal
0.	Area of training	Cour ses	Male	Fem ale	Total	Ma le	Fe ma le	Tota l	Ma le	Fem ale	Total
1	Crop production and management										
1.a.	Commercial floriculture										
1.b.	Commercial fruit										
1.c.	Commercial vegetable										
1.d.	Integrated crop management										
1.e.	Organic farming										
1.f.	Others (pl.specify)										
2	Post harvest										
	technology and value addition										
2.a.	Value addition										
2.b.	Others (pl.specify)										
3.	Livestock and fisheries										
3.a.	Dairy farming										
3.b.	Composite fish culture	1	12	0	12				12	0	12
3.c.	Sheep and goat rearing	2	24	6	30	5	2	7	29	8	37
3.d.	Piggery										
3.e.	Poultry farming	2	25	5	30	15	0	15	40	5	45
3.f.	Others (pl.specify)										
4.	Income generation activities										
4.a.	Vermi-composting										
4.b.	Production of bio-										
	agents, bio-pesticides,										
	bio-fertilizers etc.										
4.c.	Repair and maintenance										
	of farm machinery										
	and implements										
4.d.	Rural Crafts										
4.e.	Seed production										
4.f.	Sericulture										
4.g.	Mushroom cultivation	1	5	10	15	3	12	15	8	22	30
4.h.	Nursery, grafting etc.										
4.i.	Tailoring, stitching,										
	embroidery, dying etc.										
4.j.	Agril. para-workers,										
	para-vet training										
4.k.	Others (pl.specify)										
5	Agricultural Extension										
5.a.	Capacity building and										
	group dynamics										

5.b.	Others (pl.specify)										
	Grand Total	6	66	21	87	23	14	37	89	35	124

V. Extension Programmes Extension Programmes (including activities of FLD programmes)

Nature of	No. of	No. of	f Participa General)	nts	No.	of Particip SC / ST	oants	No. F	of exten personn	sion el
Programme	mes	Male	Female	Total	Male	Female	Total	Male	Fem ale	Total
Field Day	8	85	128	213	32	67	99	12	16	28
Kisan Mela	0									
Kisan Ghosthi	0									
Exhibition	2	37	185	222	28	98	126	32	8	40
Film Show										
Method Demonstration s										
Farmers Seminar										
Workshop										
Group meetings	222	0	2300	2300	0	1025	1025	2	24	26
Lectures delivered as resource persons	6	50	150	200	25	53	78	0	0	0
Newspaper coverage	1									
Radio talks	5									
TV talks	0									
Popular articles	1									
Extension Literature/ Folder	6									
Advisory Services / field visit	341	500	486	986	160	162	322			
Scientific visit to farmers field	152	235	310	545	108	146	254			
Farmers visit to KVK	18	124								
Diagnostic visits	80	98	82	180	34	67	101			
Exposure visits	2	0	24	24	0	18	18	5	6	11
Ex-trainees Sammelan										
Soil health										
Animal Health	51	300	221	512	276	145	421	91	71	162
Agri mobile clinic										
Soil test										
campaigns										
Farm Science Club										

Conveners										
meet										
Self Help										
Group										
Conveners										
meetings										
Mahila										
Mandals										
Conveners										
meetings										
Celebration										
of important										
days (specify)										
W D	2	0	2000	2000	0	1715	171	0	16	16
women's Day	3	0	2800	2800			5			
							-			
World Food										
Dav										
Earmors										
meeting	161	486	490	976	106	112	218	0	0	0
VIWC										
Meeting										
DI E Mooting	61		010	010	0	471	471	4	10	22
FLF Meeting	01		010	010	0	4/1	4/1	4	10	22
ATMA	4									
MEETING										
Tree planting										
Machinery										
Demo										
PRA	2									
Farm field	20	02	101	104	62	70	122	0	10	10
school	20	00	101	164	02	70	152	0	10	10
Guidance &										
counseling for										
victims wife										
Total	1146	1998	8095	<b>996</b> 0	831	4149	4980	154	169	323

Details of Veterinary campaigns and number of animals and farmers benefited

Sl.no.	Name of the village	Date	Number of farmers benefited	Number of livestock benefited				
				cattle	Sheep	Poult	others	Total
1.	Kootampuli	5.4.2011	12	0	60	0	0	60
2.	Vedanatham	21.4.2011	28	2	124	0	4	130
3.	Athimarapatti	26.4.2011	36	40	120	120	10	290
4.	Sindalakattai	28.4.2011	22	2	176	3	0	181
5.	Kuppanapuram	10.5.2011	19	15	154	0	0	169
6.	Chandragiri	19.5.2011	8	8	0	0	0	8
7.	Karayanpatti	21.5.2011	22	12	45	0	0	57
8.	Oosimesiapuram	11.6.2011	16	12	115	0	0	127
9.	Aathanoor	17.6.2011	17	1	119	0	1	121
10.	Sevelkulam	24.6.2011	17	13	185	0	0	198
11.	Tirumalaiyapuram	25.6.2011	32	64	82	60	4	210
12.	Kalvilai	9.7.2011	30	87	86	0	0	173

13.	Vedanatham	26.7.2011	29	3	111	0	0	114
14.	Athimarapatti	28.7.2011	28	44	36	70	6	156
15.	Kulaiyankarisal	29.7.2011	22	26	18	0	0	44
16.	North sillukkanpatti	12.8.2011	32	18	510	150	12	690
17.	Velidupatti	13.8.2011	22	32	163	0	0	195
18.	Sankarajapuram	17.8.2011	23	49	84	0	0	133
19.	Veppalodai	20.8.2011	22	8	94	0	0	102
20.	Tiruvanandapuram	22.8.2011	8	0	100	0	0	100
21.	Sippikulam	23.8.2011	5	17	51	0	0	68
22.	Allikulam	9.9.2011	36	36	186	141	8	371
23.	Aathanoor	15.9.2011	22	3	113	0	0	114
24.	Melakootudankadu	20.9.2011	29	62	36	82	8	188
25.	Kuppanapuram	23.9.2011	17	22	100	0	0	122
26.	Kalvilai	24.9.2011	20	72	31	0	0	103
27.	Sippikulam	27.9.2011	5	54	45	0	0	99
28.	Oosimesiapuram	29.9.2011	11	8	64	0	0	72
29.	Kootampuli	7.10.2011	3	0	36	0	0	36
30.	Kootampuli	30.10.2011	3	0	36	0	0	36
31.	K.P.Thalavaipuram,	22.10.2011	5	0	50	0	0	50
32.	K.P.Thalavaipuram	16.11.2011	11	0	141	0	0	141
33.	kootampuli	20.11.2011	6	0	33	0	0	33
34.	S.Silukkanpatti	22.11.2011	32	75	350	100	10	535
35.	Sevelkulam	24.11.2011	19	18	265	0	0	283
36.	Sevelkulam	14.12.2011	18	13	170			183
37.	Oosemesihapuram	17.12.2011	12	6	121			127
38.	Velidupatti	22.12.2011	19	28	46		3	77
39.	Varthagareddipatti	21.12.2011	40	68	120			188
40.	Sokkalingapuram	20.1.12	5	37	5			42
41.	Vedanatham	21.1.12	18	8	86			94
42.	Tiruvanandapuram	27.1.12	17	25	60			85
43.	Kuppanapuram	28.1.12	26	40	138		1	179
44.	Sokkalingapuram	20.1.12	5	37	5			42
45.	Sankarajapuram	8.2.12	13	14	53			67
46.	Aathanoor	16.2.12	22	14	153			167
47.	Tirumalaiyapuram	21.2.12	27	19	95	15		129
48.	Sillangulam	15.3.12	6	14	9			23
49.	Sivalur	17.3.12	15	18	67			85
50.	Sindalakattai	22.3.12	12	2	25			27
51.	K.P.Thalavaipuram	13.3.12	19	26	165			191
	Total		943	1172	5237	741	67	7215

# VI. PRODUCTION OF SEED/PLANTING MATERIAL

#### 9.A. Production of seeds by the KVKs

Crop category	Name of the crop	Variety	Hybrid	Quantity of seed (qtl)	Value (Rs)	Number of farmers to whom provided
Cereals (crop wise)						
Oilseeds						
Pulses	Black gram	VBN-5		10.40	10400	130
	Black gram	VBN-4		15.0	15000	153
	Green gram	CO-4		5.0	5500	62
Commercial crops						
Vegetables						
Flower crops						
Spices						
Fodder crop seeds						
	Hedgelucerne			0.35	7000	26
	Fodder Sorghum			0.30	6000	28
	Subabul			0.05	800	35
Fiber crops						
Forest Species						
Others (specify)						
Baby corn	Baby corn	G-5414		0.50	9600	36
Sorgum	Sorgum	CO(S)-30		2.0	2500	20
Total				33.6	56800	490

## 9.B. Production of Planting materials by the KVK

	Name of the		Hybrid			Number of
Crop category	crop	Variety		Number	Value (Rs.)	tarmers to
						provided
Fruits	Mango	Banglora		1056	31680	53
		Neelam		1312	39360	100
	Pomagranate			50	1000	12
	Bitter lime			150	3500	25
	Amla	BSR-1		468	14040	300
	Guava	L-49		1200	36000	210
Ornamental plants						
	Thuja			300	3000	265
	Bougainvilla			45	225	30
	Cleodendran			500	5000	82
	Kannagambaram			26	130	16
	Daguma			186	1860	20
	Gundu malligai			164	1640	45
	bedilanthus			253	1265	56
	Hibiscus ordinary			23	230	21
	Hibiscus adduku			34	340	8
	Hibiscus rose			21	210	12
	sandal			324	6480	16
	Pitchi poo			21	210	12
	Badam			18	270	11
	Crotons			1300	13000	240

	(acalinah)					
	(acalipali)		252	2520	210	
	roovarasu		253	2530	210	
	Alamonda		21	315	18	
	Red Rose		8	80	5	
	Durantha green		1300	6500	241	
	Duranta white		1800	12600	320	
	Cocoa		1800	5400	10	
Medicinal and Aromatic						
	Thuthuvalai		35	700	12	
	Adathodai		46	920	24	
	Sarpaganda		8	160	4	
	Gymnema		9	90	6	
	Tulsi		30	300	13	
	Nanthiavattai		10	200	4	
	Vettiver		860	17200	241	
	Aloevera		50	500	26	
	omavalli		28	560	11	
	Curry leaf		200	2000	120	
	Pungam		800	16000	456	
	Eucaliptus		10	100	6	
Fodder crop saplings		CO-4	60000	30000	51	
Forest Species						
•	Vagai		120	3600	102	
	Gulmuhar		250	7500	231	
	Casuarina		200	1000	165	
	Peoples tree		18	360	8	
	Jatropha		10	50	4	
	Tamarind		300	6000	162	
	Kumil		850	17000	642	
	Maruthu		460	9200	420	
	Fig		0	0	0	
	Gliricidia		600	6000	196	
	Ailanthus		26	260	14	
Total			77553	306565		5256

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

	Name of the bio-product			Number of
		Quantity		farmers to
Bio Products		Kg	Value (Rs.)	whom provided
Bio Fertilizers	Azopirillum	550	22000	550
	Phosphobacteria	550	22000	550
	Rhizobium	600	24000	600
Bio-pesticide			0	
Bio-fungicide	Pseudomonas	50	5000	150
	T.viridi	50	5000	150
Bio Agents		60	1800	12
Others (specify)	Vermicompost	1800	18000	250
Total		3660	97800	2262

#### 9.D. Production of livestock materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	Number of farmers to whom provided
Dairy animals				
Cows				
Buffaloes				
Calves				
Others (Pl. specify)				
Poultry				
Broilers				
Layers				
Duals (broiler and layer)				
Japanese Quail	Nandanam III	1285	25706	345
Turkey		84	12608	26
Emu				
Ducks				
Improved Backyard poultry	v Vanaraja	630	37800	256
	Namakkal	100	6000	40
Piggery				
Piglet				
Others (Pl.specify)				
Fisheries				
	Stunted		25000	856
Fingerlings	fingerlings	10000		
Goat	Jamunapari cross	26	95160	13
Total		12125	202274	1536

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

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)
Soil Samples	152	152	10	7600
Water Samples	12	12	6	600
Plant samples				
Manure samples				
Others (specify)				
Blood samples	12	12	6	600
Total	176	176	22	8800

## VIII. SCIENTIFIC ADVISORY COMMITTEE

Number of SACs conducted one

## IX. NEWSLETTER

Number of issues of newsletter published Nil Number of research paper published Nil

X.

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

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

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