

ANNUAL REPORT 2010-11

(FOR THE PERIOD APRIL 2010 TO MARCH 2011)

KRISHI VIGYAN KENDRA (NAMAKKAL)

GENERAL INSTRUCTIONS

Please these instructions very carefully before starting preparation

Sl. No.	Instructions
General	Annual report is the most important achievement report for the KVK and it directly reflects the overall achievements pertaining to the reported period. Hence due care need to be given at your end for preparing this.
	Period of Report if from April 2010 to March 2011
	Last date of receiving the soft copy through email to ZPD VIII is 20 th April 2011 positively.
	Please prepare minimum of 20 good action photographs with relevant captions covering various mandated activities of the KVK in High resolution JPG format and send separately along with this report
	By carefully preparing Summary Table you are helping ZPD VIII to compile your report. Hence please prepare the Summary tables carefully tallying with the relevant portions of the main report on all aspects.
	In the soft copy alone you please retain the blank column and rows as such with - as the same would be easy for ZPD VIII to compile and analyze the data
1.7	Under demonstration unit, kindly give name of unit. Source of funding must be mentioned
3.B.	This should tally with the thrust areas given in Sl.No.2.7
3. B2.	This can be made in landscape table
4.A1 to 4.B.4	Total of 4.A.1 should tally with 4.B.1, 4.A.2 with 4.B.2, 4.A.3 with 4.B.3. and 4.A.4 with 4.B.4
5.A.	For example thematic area – popularization of variety, and under this thematic area if two varieties have been popularized, please give separately.
5.A and 5.B	Kindly ensure that hybrids mentioned are really hybrids and then incorporate in the appropriate column
4.A, 4.B, 4.C, 5.A and 5.B	In case of all OFTs and FLDs, raw data (data on OFT and FLD on individual farmers basis) is required to be maintained at KVK level carefully and all data for this report must be compiled based on the raw data.
7 .A to 7.H	Please ensure that the total figures are tallying properly
Part VIII	Extension activity under celebrations for each important day, please insert separate rows and give appropriate data separately. Clubbing of data may be avoided.
10.A	Monthly, quarterly and Annual Report of KVK are compilation reports only and need not be considered as Technical Reports.
Cover page	For sending to ZPD, cover page should be same as given in the first page of the format. In other words no need of putting photographs and other picture formats. The same may be included while submitting the final Annual Report during Annual Review Workshop.

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		
Krishi Vigyan Kendra, Veterinary College and Research Institute Campus, Sanniyasi Karadu (Post), Namakkal-637 002, Tamil Nadu.	04286 - 266345, 266244	04286 – 266345, 266484	namakkalkvk@gmail.com	www.tanuvass.tn.nic.in www.namakkal.tn.nic.in

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

Address	Telephone		E mail	Web Address
	Office	Fax		
Tamil Nadu Veterinary and Animal Sciences University, Madhavaram milk Colony, Chennai- 600 051.	044 – 25551579 044 – 25551586 - 87	044 – 25554555/56	-	www.tanuvass.tn.nic.in

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. B. Mohan, M.V.Sc., Ph.D.,	04286231626	9443258626	mlsri9595@gmail.com

1.4. Year of sanction: 2004

1.5. Staff Position (as 31st March 2011)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	M/F	Discipline	Highest Qualification (For PC, SMS and Programme. Asst.)	Pay Scale	Basic pay	Date of joining KVK	Permanent /Temporary	Category (SC/ST/OBC/ Others)
1	Programme Coordinator	Dr.B. Mohan	Programme Coordinator	M	Animal Nutrition	Ph.D.,	37400 -67000+9000	38800	20.06.2006	Permanent	OBC
2	SMS	Th. S. Alagudurai	SMS	M	Agriculture	M.Sc.,	15600 - 3910 0 + 6000	18320	19.05.2006	Permanent	OBC
3	SMS	Tmt. C. Sharmila Bharathi	SMS	F	Horticulture	M.Sc.,	15600 - 39100+6000	18320	25.05.2006	Permanent	OBC
4	SMS	Dr. D. Jayanthi	SMS	F	Meat Science and Technology	M.V.Sc.,	15600-39100+6000	19050	28.02.2011	Permanent	SC
5	SMS	Dr.K. SenthilKumar	SMS	M	Animal Reproduction Gynaecology and Obstetrics	M.V.Sc.	15600 - 39100+6000	16920	05.04.2010	Permanent	SC
6	SMS	Dr. P.Vikrama Chakravarthi	SMS	M	Veterinary Pharmacology and Toxicology	M.V.Sc.	15600 -39100+6000	16250	25.03.2010	Permanent	OBC
7	SMS	Dr. S. Aanand	SMS	M	Fisheries Environment	Ph.D.,	15600 - 39100+6000	18850	08.04.2010	Permanent	OBC
8	Programme Assistant (Lab Tech.)/T-4	S. Thangaraju	Programme Assistant (Lab Tech.)	M	S.S.L.C	S.S.L.C	5670 5200-20200	5670	23.03.2011	Permanent	OBC
9	Programme Assistant (Computer)/ T-4	Tmt. K.Bibijan	Programme Assistant (Computer)	F	B.Sc.	B.Sc.	9300- 34800 + 4200	13200	01.06.2007	Permanent	OBC
10	Farm Manager	Tmt. M. Daisy	Farm Manager	F	B.Sc.(Agri)	B.Sc.,(Agri)	9300 -34800+4400	12080	25.05.2006	Permanent	SC
11	Superintendent and Accountant	Th .Meenakshi	Superintendent and Accountant	F	SSLC	--	9300 -34800+4800	14470	25.08.2010	Permanent	OBC
12	Jr. Stenographer	Tmt. K. Selvarani	Jr. Stenographer	F	H.Sc. DECE.	--	5200-20200	9040	01.08.2005	Permanent	OBC
13	Driver (Jeep)	Th. B. Sivaboran	Driver (Jeep)	M	XI	--	5200-20200	6710	18.05.2006	Permanent	SC
14	Driver (Tractor)	Th.S. Kalaimani	Driver (Tractor)	M	IX	--	5200-20200	11900	18.05.2006	Permanent	OBC
15	Supporting staff	Tmt. M.Nagammal	Supporting staff	F	--	--	5200-20200	6830	14.09.2005	Permanent	OBC
16	Supporting staff	Th. K.Selvam	Supporting staff	M	VII	--	5200-20200	5580	16.03.2007	Permanent	OBC

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

S. No.	Item	Area
1	Under Buildings	1250 Sq.m
2.	Under Demonstration Units	
	a) Goat Shed Slatted floor shed for goat Slatted floor shed for sheep New shed (ICAR Funding)-for kids and lambs b) Desi bird shed New shed with cages Turkey shed- free range c) Pig Shed c) Fisheries Unit- Ornamental fish unit	57.50.m 42 Sq. m 57.80 Sq.m 66.26 Sq.m 4 cents. 260 S.ft 40 m ²
3.	Under Crops	
	Agricultural Crops Cereals Paddy Sorghum Cumbu Ragi Minor millets Pulses Green gram Black gram Red gram Oilseeds Groundnut Castor Fibers Cotton Fodder Cithagathi Fodder maize Fodder cowpea CN Grass CO4 Guinea grass-Co3 Fodder sorghum Fodder varieties-10 nos New soundal. Horticultural crops Tuberose Ornamental plants (Crotons, Creepers, Climbers) Hibiscus, Neerium and flowering plants) Papaya Bitter gourd Bhendi Bush type lab lab French beans Tapioca Protray unit Plantation Crops a) Coconut plantation b) Tree saplings production c) Mango, Sapota & Amla	. 12 Cent 80 Cent 62 Cent 28 cent 5 cents 16 cent 30 cent 50 cent 40 cent 25 Cent 38 Cent 3 cent 30 cent 10 cent 80 cent 70 cent .30 cent 10 cent 1 cent 2 Cent 3 Cent 1 cent 10 cent 5 Cent 5 Cent 2 Cent 10 cent 2 cent 1.5 acre 0.2 cent 1.14 Acre
4.	Orchard	1.14 acre
	Agro-forestry	0.5 acre
5.	Others	
	d) Shade net- Azolla Production unit e) Coir pith compost f) Shade net- Medicinal plant unit g) Shade net 3 – Mango grafts h) Coconut nursery	0.03 ac. 40 Sq.m 54 Sq.m. 54 Sq.m 0.3 acre (poly bag nursery)

1.7. Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure Rs.Lakhs	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR	29.10.08	550	45.13	--	--	--
2.	Farmers Hostel	ICAR	29.10.08	300	30.52	--	--	--

3.	Staff Quarters							
4.	1. Supporting Staff	ICAR	29.10.08	100	44.35	--	--	--
	2. Subject matter Specialist			300		--	--	--
5	Fencing	ICAR	9.06.08	980 RM	3.13	--	--	--
6	Compound wall	ICAR	3.03.08	174 m	4.70	--	--	--
7	New bore well	ICAR	22.06.09	--	2.00	--	--	--
8	Energizing bore well	ICAR	29.08.07	--	0.58	--	--	--
9	Rain Water harvesting system	Agri. Engineering Dept. Namakkal	20-12-2008	900 m ²	0.5	--	--	--
	Demonstration Units							
10	Goat unit	ICAR	09.10.2009	57.8	2.98	--	--	--
11	Desi bird unit	ICAR	09.10.2009	66.26	2.98	---	--	--
12	Pig Shed	Revolving Fund	02-11-10	260 S.f	0.49	-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total Kms. Run	Present status
Jeep (Mahindra Bolero LX)	2005	1,47,799	098119	Good
Tractor	2005	1,79,012	904.5 hr	Good
TVS Star city	2006	23616.97	23499	Good
Honda Aviator	2009	40439.25	07249	Good

C) Equipments & AV aids

Sl. No.	Name of Equipments	Date of purchase	Cost (Rs.in lakhs)	Present status
1.	Computer system	31.03.2005	45642.00	Good
2.	Xerox machine	31.03.2005	46938.20	Good
3.	Digital still camera	13.03.2006	13510.00	Good
4.	Over head projector	28.03.2006	13582.08	Good
5.	HCL Laptop	30.03.2007	30008.00	Good
6.	LCD Projector	30.03.2007	38449.54	Good
7.	Fax machine	30.03.2007	4392.55	Good
8.	White board with stand	26.12.2006	1089.12	Good
9.	Notice Board	30.12.2004	1434.60	Good
10.	Digital Flex Board	30.12.2004	5509.93	Good
11.	Salt lick machine	25.09.2008	2916.00	Good
12.	Chaff cutter cum grinder with single phase	25.09.2008	13122.00	Good
13.	Agrimate power weeder	26.03.2008	14556.00	Good
14.	Fax machine	16.03.2009	11550.93	Good
15.	Total Mixer Ration (TMR) feed plant	31.03.2009	105215.00	Good
16.	PA systems	31.03.2009	25668.75	Good
17.	EPABX System	31.03.2009	42762.00	Good
18.	Generator	31.03.2010	2,18,954.00	Good
19.	Power Tiller	31.03.2010	1,35,000	Good
20.	Lawn Mower	01.11.2010	2835.00	Good
21.	Electronic Weighing Balance	02.08.2010	61,000.00	Good
22.	DTH Connection	13.07.2010	1,701.00	Good
23.	LCD TV	28.07.2010	15,725.00	Good
24.	Wheel Barrow	06.09.2010	4110.70	Good
25.	Deep Freezer	15.09.2010	18,407.50	Good
26.	Refrigerator 190 lt (For Lab)	08.10.2010	9982.50	Good
27.	Digital Image Recorder	20.10.2010	12,490.00	Good
28.	Refrigerator 280 lt	28.07.2010	19,950.00	Good
29.	Electric Fan	02.11.2010	1,526.25	Good
30.	pH Meter	24.11.2010	7,410.00	Good
31.	Hot Air Oven	16.11.2010	6,600.00	Good
32.	RO System	18.11.2010	16,159.75	Good
33.	Conductivity Meter	22.11.2010	8,360.00	Good
34.	Electronic Weighing Balance	31.3.2011	4000.00	Good
35.	Wheel Barrow	31.3.2011	4444.00	Good
36.	Data processing unit	31.3.2011	24330.00	Good
37.	pH meter	31.3.2011	7800.00	Good
38.	Conductivity meter	31.3.2011	8800.00	Good
39.	Hot air oven	31.3.2011	7200.00	Good
40.	RO unit	31.3.2011	17470.00	Good
41.	Nitrogen analyzer	31.3.2011	322188.00	Good
42.	Electronic Weighing Balance	31.3.2011	61000.00	Good
43.	Ultra Pure water unit	31.3.2011	280000.00	Good
44.	Flame Photometer	31.3.2011	50800.00	Good
45.	Lab furniture	31.3.2011	68778.00	Good
46.	Double beam UV spectrometer	31.3.2011	343190.00	Good

1.8. Details SAC meeting conducted in 2010-11

Sl.No.	Date	Number of Participants	No. of absentees	Salient Recommendations	Action taken
1.	24-03-2011	98	-	<ol style="list-style-type: none"> 1. Similar to Public Private Partnership (PPP) in fodder and Horticultural plants model to supply of Goat, sheep and Pigs for breeding purpose to be initiated through KVK. 2. Krishi Vigyan Kendra, Namakkal should Demonstrate the profitability of each enterprise to the benefit of farmers. 3. To popularize sustainable enterprises through All India Radio, Local News paper and Kalnadaikathir. 4. To document the present status of paddy straw utilization, harvested through paddy . 5. The Economics of milk production to be worked out. 6. Plant Diagnostic center is to be established in KVK, during 12th five year plan. Hence SMS, plant protection (Agricultural Entomology/pathology) may be recruited for KVK, Namakkal. 7. National Initiative on Climate Resilience in Agricultural (NICRA) Project has been approved for KVK, which needs to be implemented as a flagship programme. 8. More farmer to farmer extension work should be given. 9. Under ATMA KVK linkage, KVK should be a technical provider instead of service provider. 10. Namakkal KVK should prepare a Proposal for Centre of Excellence in KVKs, and same should be submitted. 11. Kisan mobile service to be initiated for technology transfer. 12. Vaccinator training to be given especially for Desi bird farmers. 13. Success story of Namakkal should be brought out in CD/book farm. 14. Two research Article per SMS per year should be published. 15. Training programme on egg preservation and handling of community incubator should be given. 16. More training programme on fish farming to be conducted in large scale. 17. Technology to increase milk fat content should be demonstrated. 18. More Rural mart should be started through KVK. 19. Mealy bug bio control parasitoid should be given through Krishi Vigyan Kendra 20. Farmer resource person to be developed. 21. Master training programme to be organized. 22. CAT programme to be organized in Animal Husbandry. 23. A workshop to be conducted for farmers on production of export quality eggs. 24. Seed production techniques in paddy and pulses to be disseminated to the farming community 25. Exposure visit for farmers and Extension Functionaries and demo units to be given through Rural Innovative Fund and the project 26. Training to be given to field officer working in various National and scheduled bank in Namakkal district for latest technology in Agriculture, Horticulture and Animal husbandry 27. Presently Namakkal District is not included for subsidy scheme for goat, hence Namakkal District may also include for availability of NABARD, subsidy scheme. 	Under Implementation.

PART II - DETAILS OF DISTRICT

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

S. No	Farming system/enterprise
1.	Low land farming system - Paddy
2.	Upland irrigated farming system – Sugarcane, Cotton, Maize, Sunflower, Fruits and Vegetables.
3.	Upland rainfed farming system – Sorghum, Pulses, Groundnut, Castor and Tapioca
4.	Mixed farming - Semi intensive
5.	Specialized farming are on the rise replacing the mixed farming system

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

S. No	Agro-climatic Zone	Characteristics
1.	North Western Zone	This zone covers an area of 18,271 Sq. kms in which 10,28,097 hectares, of which 56.3 per cent, is under cultivation. Out of total area of cultivation, only 23 percent i.e., 2,35,828 hectares are irrigated area. The annual normal rainfall of the zone is 849 mm. This zone has been identified as moderately drought prone. Paddy, Maize, Ragi, Bajra, Sugarcane, Groundnut, Cotton, Sunflower, and mango are the major crops of this zone. Forest area in this zone constitutes nearly 30 percent i.e. 5,35,282 hectares of the area of the zone, which is nearly 25 per cent of the total forest area of the State.

S. No	Agro ecological situation	Characteristics
1.	Humid to semi arid Western Ghats and Karnataka plateau	Average annual rainfall is 600 –1200 mm. Predominant soil groups are red, black and lateritic.

2.3 Soil type/s

S. No	Soil type	Characteristics	Area in ha
1	Red loam Red sandy soil	Light texture, Porous structure, and absence of lime. Poor fertility, Low Base Exchange capacity.	1,98,438
2	Lateritic	Light texture, open free draining structure, deficient in lime and moderately acid in reaction.	77,357
3	Black	Porous, compact and impervious, swells on wetting and shrinks, cracks in drying.	38,678
4	Alluvium	Structure of loose and free draining, compact and impervious.	21,525

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

S. No	Crop	Area (ha)	Production (Lakh tons)	Productivity (Qtl/ha)
Field Crops				
1.	Paddy	13925	8.442	60.6
2.	Maize	19200	10.752	56.00
3.	Sorghum	67205	0.622	0.92
4.	Black gram	4972	750	15.00
5.	Green gram	5616	0.518	9.55
6.	Sugarcane	20295	140.00	689.8
7.	Cotton	3647	10941	3.00 (lint bales)
8.	Groundnut	34576	1.337	3.87
9.	Castor	3700	0.0499	1350
Total		150236		
Source: Department of Agriculture, Namakkal, 2010				
Horticultural crops				
I. FRUITS				
1.	Mango	1855	7605	4.1
2.	Banana	2200	92400	42.0
Total		4055	100005	46.1
3.	Chilies	200	300	1.500
4.	Tamarind	675	2565	3.80
Total		875		
III. PLANTATION CROPS				
1.	Coffee	860	645	0.750
IV. VEGETABLES				
1.	Tapioca	13650	546000	40

2.	Onion	1890	28350	15
3.	Tomato	1015	25375	25
4.	Brinjal	580	11600	20
5.	Bhendi	830	12450	15
	Turmeric	650	76050	0.500
Total		18615	699825	115.5
V.FLOWERS				
1.	Tuberose	11	132	12.0
Source: office of the Deputy Director, Horticulture, Namakkal, 2010				

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

2.5. Weather data

Month	Rainfall (mm)	Temperature °C		Relative Humidity (%)
		Maximum	Minimum	
April 2010	73	36.96	24.50	64
May 2010	47	36.96	26.29	74
June 2010	40	35.40	25.10	74
July 2010	106.8	33.16	23.39	74
August 2010	107.8	33.52	23.23	79
September 2010	148.6	32.30	22.2	79
October 2010	93.3	32.88	23.10	78
November 2010	378.7	29.10	22.40	67
December 2010	34.3	28.78	20.25	76
January 2011	Nil	31.74	19.35	73
February 2011	23.7	33.03	19.39	73
March 2011	Nil	31.16	21.55	69
Source: Automatic Weather Station, VC&RI, Namakkal, 2010-11				

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

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

Category	Population	Production	Productivity
Cattle	258437	2067464	8.0lit/ day
Buffaloes	205246	1026230	5.0lit/day
Sheep	138372	69186 lamb/year 2421510 kg meat	1 lamb/annum & 17.5 kg/6 months
Goat	430082	860164 kids/year, 8171558 kg meat	2 kids/ annum, 19 kg/6 months
Pig	13366	133660	10 piglets/ annum
Poultry - layer	3.658 crore	3.5 crore eggs/day	320 eggs/year
Backyard poultry	4.75 lakhs	0.5 lakh eggs	80 eggs/year
Broiler	3.81 lakhs	6 lakh kg meat	2 kg/6 weeks
Ducks	10752	5000 egg	200 eggs/year
Source : Animal Husbandry Dept., Namakkal,2010-11			

Category	Area	Production	Productivity
Fish			
<i>Inland</i>	Canals – 56 km Tanks – 7 Nos Cauvery river – 70 km	530.06 tonnes	700 kg/acre
Source: Fisheries Dept., Mettur Dam, Salem, 2010-11.			

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

2.7 District profile has been prepared and submitted : Yes

2.8 Details of Operational area / Villages –

Sl. No.	Taluk	Name of the block	Name of the village	How long the village is covered under operational area of the KVK (specify the years)	Major crops & enterprises	Major problem identified	Identified Thrust Areas
Agriculture							
1	Namakkal Thiruchengode	Namakkal Mohanur Thiruchengode	Kodikal puthur Oruvanthur Pudur Pallipalayam	5	Paddy	Usage of local variety (ADT 39,ADT 43, White Ponni) Conventional paddy cultivation leads to high cost of cultivation (Rs.8000-10000/ac)	New improved variety.Co.R.49 System of Rice Intensification
2	Tiruchengode Namakkal	Manickamapalayam Namakkal	Manickapalayam Vadavathur Ariyur	4	Groundnut	Low yielding variety (TMV 1, TMV 7) Weed infestation Low plant population	Introduction of TMV 13 variety Post emergence weed management Integrated crop management practices
3	Namakkal	Puduchatram Erumapatty	Karaikuruchi Muthugapatti	5	Black gram Green gram	Local variety (T.9 ,KM.2,Co.4) Yellow mosaic virus incidence Flower dropping and poor seed setting	New high yielding YMV resistant variety (VBN.Bg.5,Co.Gg.7) Improved package of practices
4	Namakkal	Mohanur P.velur	Mohanur P.velur	5	Sugarcane	i. Internode borer and wooly aphids ii. Water scarcity during reproductive stage iii. Burning of trash in field itself	i. IPM (Release egg parasite and predator) ii. Micro irrigation with fertigation iii. Sugarcane trash composting and mulching
5	Tiruchencode	Vennandur Mallasamutram	Minakkal Vennandur Mallasamutram	5	Cotton	Boll worm incidence (40 %) More sucking pest infection (Thrips and Mealy bug) Stem weevil incidence	Introduction of Bt cotton Seed treatment with imidacloprid IPM
6	Namakkal	Namakkal P.Vellore Erumapatty	Erumpatti, Oruvanthur puthur Sellur Kabilarmalai	4	Fodder crops	Non availability of legumes fodder Low yielding and local varieties Seed dormancy	New improved high yielding Legume fodder
7	Namakkal	Mohanur	Mohanur, Valayapatti	4	Vermicomposting	Wastage of crop residue Improper method of composting	Poultry manure vermicomposting
Horticulture							
1.	Namakkal	Mohanur	Oruvanthur pudhur	4	Banana Variety:Poovan,Rasthali, The n kadali,Morris & Robusta.	Improper Nutrient management(FYM 4 tonnes/acre,urea100 kg, Potash 150 kg, and Neemcake 50 kg on 45,90,120 and 150 days after planting). Low yield(23 tonnes/acre/year) Non adoption of recent technologies viz., • Tissue culture varieties. • Micro irrigation • Fertigation • High density planting. • Propping with polythene tape(3%)	Fertigation technique Précised production & use of banana comb cutter

2.	Namakkal	Mohanur and Namagiripettai.	Mohanur and Ariyagoundampatti.	5	Banana	Incidence of Sigatoka leaf spot (16%).Low yield in Karpuravalli variety of Banana(420q/ha)	Introduction of Sigatoka Leaf spot resistant variety. Variety suitable for long distance transport.
3.	Tiruchengode	Tiruchengode	Kokkilai	5	Tapioca Variety :Mulluvadi,White rose	Yield loss (9 tonnes/acre) due to high incidence of Cassava mosaic disease (18-32%) Use of disease infected planting material. Continuous Use of Mulluvadi variety with less starch content (12-16 %). Improper nutrient management (Basal: complex (17:17:17)150 kg/acre, Top dressing: Potash 150 kg/acre at 4 th and 6 th month after planting.	New variety-Sree padmanaba with high starch content and resistant to cassava mosaic disease. Nursery management in tapioca,
4.	Namakkal	Namakkal	Vadugapatti	4	Small Onion Variety:Valayapatti local& Co4.	Post harvest loss (20%) due to improper storage (Heap method) leading to rotting of bulbs,fading of colour and deterioration of quality . High price of seed bulbs during the peak season (June,November seed rate:600 kg/acre @ Rs7-12/kg ,Total cost;Rs 4200-7200/acre). Low yield(4800 kg/acre)	Storage methods CO5 small onion Production technique.
5.	Namakkal,	Namagiripettai	Namagiripettai	3	Turmeric	Low yield (Fresh rhizome:10,000 kg/acre,Dry :2000 kg) Continuous Use of Nariyappanoor, EraiyrSalem & Erode local variety (98%).	New variety with highest cur cumin content- Allepy supreme Turmeric.
6	Tiruchengode	Tiruchengode	Velagoundampatti Manickampalayam	4	Bush type lab-lab	Cultivation of pandal type variety with one season (July-August). High cost of cultivation .	Low production cost. Year round cultivation. Higher yield.
7.	Namakkal	kollihills	Semmedu	4	Carrot	Unawareness about recent production techniques of Cole season vegetable crop. Use of local variety.	Introduction of new variety in carrot. Popularization of Cole season vegetable especially tuber crops. Returns within 120 days.
8.	Namakkal	Rasipuram Namakkal	Pudhansanthai ,Pudhuchathiram, Valayapatti, Mohanur	4	Amaranthus	Use of local variety. Low yield.	Introduction of new and high yielding variety.
9.	Namakkal	Namakkal, Paramathy Rasipuram	Valayapatti, Paramathy velur and Rasipuram.	3	Tuberose	Yield reduction (25%) due to Weed menace (Cyprus and Hariyali grass-30%)	Weed management through low cost technology. Reduce the cost involved for manual weeding.
10.	Namakkal	Rasipuram	Rasipuram	4	Chillies	Low yield due to Use of local varieties(K2,local-800 kg dry pod/acre)	Hybrid chilli cultivation techniques.
11.	Namakkal	Namakkal	Kollihills	4	Pepper	Pepper wilt (30 % yield reduction) Foot rot(Quick wilt) Slow decline	Integrated disease management for pepper wilt
12.	Namakkal	Namakkal	Vendangi	4	Areca nut	Palms over 5 to 10 years affected due to Ganoderma foot rot observed in ill drained and overcrowded gardens(5-8%).	Ganoderma disease management in Arecanut

13.	Namakkal	Namakkal	Anniyapuram	4	Rose & Jasmine	Improper nutrient management (200g urea, superphosphate 250 g & potash 150 g/Plant/year). Iron deficiency (5%). Irregular pruning during June-July.	Soil and plant analysis based Foliar application of micronutrients. Pruning operation.
14	Namakkal	Namakkal	Laddiwadi	3	Tuberose	Low yield due to Bommudi local variety (4.5 tonnes/3 crop).	Yield maximization of tuberose by using new high yielding hybrid variety Prajwal.
15.	Thiruchengode	Thiruchengode	Velagoundampatti Manickampalayam	5	Brinjal	Cultivation of low yielding variety with shoots and fruit borer.	Higher yield and moderate resistant to shoot and fruit borer.
16.	Kollihills	Kollihills	Semmedu	5	Pineapple	Unawareness about recent production, low price with sour taste	Introduction of new variety Mauritius
Animal Husbandry (Dairy, Sheep and Goat)							
1	Namakkal	Paramathi Velur	Ponnagar	4	Goat rearing	Kids mortality, Poor weight gain, Poor weight at Marketable age	Breeding Management-,Health management and Feed management
2		Puduchatram	Pudhanchanthai	4	Goat rearing	Indigenous breed, Less weight gain.	Breeding Management. Introduction of Boer, Tellicherry cross.
3		Mallasamuthiram	Senbghamadevi	3	Sheep rearing	Poor Weight gain, kids mortality	Breeding Management: Crossing of Mecheri Ewes with NARI Rams of increasing the twinning percentage in the F1 generation
4		Erumapatty	Pommasamuthram	3	Dairy farming	Poor feeding managemental practices and labour shortage for maintenance of dairy farming activities.	Feed management and demonstration of milking machine utilization for drudgery reduction in milking.
5		Rasipuram	R. Pudupatty	4	Goat farming	Non-availability of grazing land and labour for goat farming activities	Slatted floor goat rearing.
6		Mohanur	Oruvanthur Pudur.	4	Goat farming	Shortage of fodder and poor management practices	Selection, breeding, feeding, health management and fodder cultivation.
7		Kolli hills	Kolli hills	2	Dairy farming	Infertility and higher cost of milk production	Breeding and Feeding Management
8		Sendhamangalam	Pachudaiyampatty	4	Sheep farming	Kids mortality	Health management
9		Rasipuram	Andalurgate	3	Goat farming	Indigenous breed, Low greens availability	Introduction of Boer, Tellicherry cross. Feeding management and Fodder management
10		Kabilarmalai	Kabilarmalai	4	Goat farming	Indigenous breed, Less weight gain.	Breeding Management. Introduction of Boer, Tellicherry cross.
11	Tiruchengode	Elachipalayam	Elachipalayam	3	Dairy farming	Low milk yield, Infertility problem and higher milk production cost	Breeding and Feeding Management
12		Tiruchengode	Modamanagalam	2	Dairy farming	Infertility problem and higher milk production cost	Breeding and Feeding Management

13	Tiruchengode	Tiruchengode	Monjanur	4	Dairy farming	Disease management, Infertility problem and higher milk production cost	Breeding and Feeding Management
POULTRY							
1	Namakkal	Puduchatram	S.Uduppam	4	Desi bird	Low meat yield and poor feed conversion ratio with desibirds	Breed introduction: Introduction of Aseel Cross
2		Mohanur	Kattuputhur	3	Duck	Low egg production	Breed Introduction: Khaki Campbell (High egg yielding variety)
3			Oruvanthur	3	Desi bird rearing	Low hatchability under natural hatching	Entrepreneurship development- Hatching eggs using Incubator
		Periyamanali	Servamapatti,	4	Duck	Local variety rearing	Breed Introduction: Khaki Campbell (High egg yielding variety)
4		Vennandhur	Vennandhur	2	Duck	Low egg production	Breed Introduction: Khaki Campbell (High egg yielding variety)
5		Namakkal	Vadavathur	3	Desi bird	Fowl pox incidence, Less weight gain	Fowl Pox Vaccination. Dissemination of latest technical know-how, Training on economical rearing practices.
6		Sendhamangalam	Pachudaiyampatty	4	Poultry	Low meat yield and poor feed conversion ratio with desi birds	Breed introduction: Introduction of Aseel Cross
7		Rasipuram	Namagiripetta	4	Desi bird,Duck	Incidence of Ranikhet disease outbreak and limited availability of Ranikhet vaccine	Breed Introduction: Khaki Campbell (High egg yielding variety) Health Management: Oral pellet vaccine Introduction
8			Mettala	4	Poultry (Desi bird)	Incidence of Ranikhet disease outbreak and limited availability of Ranikhet vaccine	Health Management: Oral pellet vaccine Introduction
9.			R.Pudupatti	5	Poultry (Desi bird)	Incidence of Ranikhet disease outbreak and limited availability of Ranikhet vaccine	Health Management: Oral pellet vaccine Introduction
10			Andagalurgate,	4	Quails Low production, Turkeys, Rabbits Poor weight gain, Marketing	Deworming, Balanced feeding	Introduction of Namakkal Quail, Improving the genetic potential of Turkey (Beltsville small white)
11		Kolli hills	Kolli Hills	2	Piggery	Incidence of swine fever, anemia and incidence high piglet mortality and lower weight gain	Swine fever vaccination, Iron injection& detoothering
12		Rasipuram	Kallankulam,	3	Piggery	Incidence of swine fever, anemia and incidence high piglet mortality and lower weight gain	Swine fever vaccination, Iron injection& detoothering
13		Sendhamangalam	Belukurishi	4	Piggery-Black Pigs.	High Piglet mortality and lower weight gain	Introduction of New Breed. Large White Yorkshire X ND
14	Paramathi	P.velur Pandamangalam	3	Poultry (Coloured cross bred chicks)	Local desi varieties with poor yield Lack of balanced feeding and poor egg yield In addition needs brooding of chicks	Improving the genetic potential of Back yard poultry (Namakkal colour chicken (Colour layer)	

15	Tiruchengode	Periyamanali	Servamapatti,	4	Piggery	Mastitis in Pigs.	Health Management: Ethno veterinary practice introduction, detothing
16		Kumarapalayam	Kumarapalayam	4	Piggery	Incidence of swine fever, anemia and incidence high piglet mortality and lower weight gain	Health Management: Swine fever Vaccine
17.		Tiruchengode	Elachipalayam	4	Swine, Pigeon	Swine: Marketing, Pigeon: Mortality	Humane method of slaughter. Intensive pigeon farming.
18			Monjanoor	4	Desi Bird	Local desi varieties with poor yield Lack of balanced feeding and poor egg yield	Improving the genetic potential of Back yard poultry (Namakkal colour chicken (Colour layer)

Commodity Interest Groups(Goat Farming)

1	Namakkal	P.Velore	Vadugampalaypudur	3	Goat, Sheep, Dairy, Desi bird	Marketing Difficulties, Low knowledge on scientific management, less profit, Difficulty in getting Bank loan if alone	Entrepreneurship development through group formation. Feed management, fodder Production, Health Management- Deworming and vaccination as per schedule, Financial management - Bank Support
2		Erumapatty	Vadavathur	4	Sheep, Goat, Cow& Desi bird	Shortage of fodder and labour shortage for maintenance of dairy farming activities.	Entrepreneurship development through group formation Feed management-Fodder Production, Demonstration of milking machine utilization for drudgery reduction.
3		Senthamangalam	Pachudaiyampattypu dhur	4	Sheep,Goat, Cow, Buffalo, Desibird,& Turkey	Kids mortality, Poor weight gain, Marketable age	Entrepreneurship development through group formation Breeding Management-Introduced Telli cherry, Boer cross Health Management-Deworming and vaccination as per schedule Financial management - Bank Support
4	Namakkal	P.Velore	K.Pudupalayam	4	Sheep, Goat, Cow& Desi bird	Less Profit on marketing, Middlemen interference, less greens availability	Entrepreneurship development through group formation Feeding management-Fodder production, Training on Marketable age,
5		Rasipuram	R.Pudupatty	4	Goat, Cow, Buffalo, Desibird.	Poor feeding management and less fund availability	Entrepreneurship development through group formation Feeding management-Fodder production, Financial management - Bank Support
6		Mohanur	Marakadu	4	Goat,Sheep,Cattle	Poor Weight gain, kids mortality	Entrepreneurship development through group formation Feeding management-Fodder production, Financial management - Bank Support
7		Senthamangalam	Gandhipuram	1	Sheep,Cattle and poultry	Low knowledge of sheep farming	Vaccination ,Deworming and disease management

8		Muthukapatty	Muthukapatty	4	Sheep ,Goat,Cow&Pig	Low availability of green fodder,unawareness of breeds	Entrepreneurship development through group formation Feeding management-Fodder production, Financial management - Bank Support
9	Tiruchengode	Tiruchengode	Attaiyampatty	4	Goat,Sheep&Buffalo	Shortage of fodder and labour shortage for maintenance of dairy farming activities.	Entrepreneurship development through group formation Feed management-Fodder Production, Demonstration of milking machine utilization for drudgery reduction.
Fisheries							
1.	Namakkal	Namakkal, Mohanur, Kolli hills	Mohanur, Kolli hills	3	Carp farming Ornamental fish culture Fish pickle	<p><u>Carp farming</u></p> <p>1) Seepage of water 2) Uneven growth of carps 3) No Supplementary feeding practice 4) Microbial blooms</p> <p><u>Ornamental fish farming</u></p> <p>1) High feed cost 2) Under utilization of Conventional and non – Conventional feed Ingredients</p> <p><u>Fish Pickle</u></p> <p>1) High cost 2) Under utilization of Tilapia in Cauvery basin of Namakkal</p>	Adoption of scientific package of practices
2.	Thiruchengode	Thiruchengode	Pallipalayam Komarapalayam	3	Aquaculture	Inland Aquaculture Improper production technology in fisheries	Adoption of profitable aquaculture techniques
3.	Namakkal	P.velur	Jedarpalayam	3	Aquaculture	Inland Aquaculture – Less yield and diseases in fisheries enterprise	Good management of aquafarms

Priority thrust areas

1.	Farm waste recycling and vermicomposting
2.	SRI techniques with improved varieties
3.	Varietal Introduction
4.	Bt cotton cultivation
5.	Farm Mechanization
6.	Soil test based nutrient management in agricultural crops
7.	Mixed pasture model
8.	Integrated pest management
9.	Drip fertigation
10.	Hybrid Introduction
11.	Oilseeds and pulses seed production
12.	Year round fodder production
13.	Introduction of ICMV resistant variety in Tapioca.
14.	Introduction of Co5 onion
15.	Low cost storage methods for onion
16.	Introduction of high yielding variety in Turmeric.
17.	Year round cultivation of Bush type lab-lab.
18.	Introduction of carrot variety in Kollihills.
19.	Introduction of Udhayam variety in Banana
20.	Variety with Sweet taste and Improved production technology.
21.	Introduction of Red amaranthus variety.
22.	Precision farming in Tomato, Turmeric and Banana.
23.	Use of Banana comb cutter
24.	Post harvest management in Turmeric
25.	Post harvest management in Banana
26.	Work stress Management in tapioca harvesting
27.	Balanced feeding of concentrates in dairy animals
28.	Vaccination in small and large ruminants
29.	Feeding management in small and large ruminates
30.	Slatted floor systems for goats
31.	Fodder cultivation techniques
32.	Establishing forward and backward linkages in dairy, sheep and goat.
33.	Disease management in Desi bird
34.	Improving the genetic potential of Turkey
35.	Back yard poultry farming
36.	Breeding and Health Management of livestock
37.	Duck farming

38.	Bio security measures in desi bird farming
39.	Popularizing of oral pellet vaccine
40.	Use of Azolla plants in poultry feeding
41.	Least cost feeding of desi birds
42.	Least cost hatching of desi birds through use of solar incubators
43.	Value added Milk and Meat Products Preparation.
44.	Facilitation of forward and backward linkages in poultry farming
45.	Creating Market network for piggery
46.	Package of practices for Quail production
47.	Commercialization of turkey farming
48.	Prevention of piglet anemia
49.	Disease management in rabbits
50.	Dual purpose breed of chicken
51.	Introduction of Beltsville Small White Turkey
52.	Adoption of profitable aquaculture techniques
53.	Good management of Aqua farm, Aquaculture
54.	Low cost fish pickle production
55.	Reservoir fisheries management
56.	Backyard Ornamental Fish farming
57.	Introduction of fast growing species for Aquaculture

PART III - TECHNICAL ACHIEVEMENTS

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

OFT				FLD			
1				2			
Number of OFTs		Number of farmers		Number of FLDs		Number of farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
8	8	70	70	13	13	219	219

Training				Extension Programmes			
3				4			
Number of Courses		Number of Participants		Number of Programmes		Number of participants	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
69	69	1620	1620	40	40	815	815

Seed Production (Qtl.)		Planting materials (Nos.)	
5		6	
Target	Achievement	Target	Achievement
Paddy-303 kg	303 kg	Coconut -5960	5960
Sorghum-76kg	76kg	Tomato-6185	6185
Cumbu-101kg	101kg	Chillies-5664	5664
Ragi-31kg	31kg	Brinjal-50	50
Groundnut-380kg	380kg	Cabbage-566	566
Black gram-210kg	210kg	Cauliflower-360	360
Redgram-3.9 kg	3.9 kg	Curry Leaf-6	6
Fodder Sorghum-14.250 kg	14.250 kg	Pinapple sucker -1472	1472
Fodder Cowpea-8.250kg	8.250kg	Navel-2	2
Stylo-4.500kg	4.500kg	Papaya-7	7
Subabul seed-7.9kg	7.9kg	Guava-2	2
Chithagathi-11.8kg	11.8kg	Banana Sucker-3	3
Agathi-1.25kg	1.25kg	Crotons/Rose/Durantha-501	501
Azolla-50kg	50kg	Coleus-5	5
Papaya-955g	955g	Thuthuvali-12	12
Bhendi seed-11.905 kg	11.905 kg	Omavalli-2	2
Bush type LabLab Arka Jay-13.23 kg	13.23 kg	Tapioca sets-689	689
Vegetable Cowpea seeds-3.35 kg	3.35 kg	Cumbu Napier grass -52800	52800
Bittergourd seeds-4.8 kg	4.8 kg	Guinea grass Co.3-4302	4302
Bottle gourd- 220g	220g	Kalyanamurungai-56	56
Tomato seeds-900g	900g	Puthiyasoundal-58	58
Greens seed-600g	600g		
Annual Moringa-1.972	1.972		
French beans seed- 5.02 Kg	5.02 Kg		
Tuberose corms -242	242		

Livestock, poultry strains and fingerlings (No.)		Bio-products (Kg)	
7		8	
Target	Achievement	Target	Achievement
Goat-27	27	Mineral block-663	663
Sheep-15	15	Mineral Mixture-1536	1536
Desi Bird-305	305	Desi bird egg-431	431
Colour broiler-6	6	Japanese Quail egg-1824	1824
Crossbred chicks-1391	1391	Turkey egg-74	74
White leghorn-82	82	Duck egg-186	186
Japanese Quail-24	24		
Turkey adult-5	5		
Desi bird egg-431	431		
Japanese Quail egg-1824	1824		
Turkey egg-74	74		
Duck egg-186	186		
Pigs-2	2		
Platy-32 pairs	32 pairs		
Guppy-20 pairs	20 pairs		

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

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions									Supply of bio products	
				Title of OFT if any	Title of FLD if any	No. of Training (farmers)	No. of Training (Youths)	No. of Training (Extension Personal)	Extension activities (No.)	Supply of seeds (Qtl.)	Supply of planting materials	Supply of livestock (No.)	No.	Kg.
1	Drip fertigation	Maize	Low nutrient use efficiency	Drip fertigation in maize for yield maximization	-	2	1	1	4	Water soluble fertilizer-100kg	-	-	-	-
2	Mixed pasture model	fodder	Non availability of grazing land	Mixed Pasture for Weaned Kids under irrigated condition	-	4	2	2	6	Kolukattai seed -15 kg, Stylo-10 kg	-	-	-	-
3	Varietal Introduction	Finger millet	Low yielding Variety	-	Popularization of finger millet Co 14	2	1	1	2	Finger millet seed – 150 kg	-	-	-	-
4	Varietal Introduction	Guinea grass	Low yielding Variety	-	Popularization of New guinea grass Co (Gg) 3 for Coconut garden	4	2	2	6	-	Guinea grass rooted slip- 35,000 Nos.	-	-	-
5	Hybrid Introduction	Paddy	Low yielding Variety	-	Popularization of Paddy hybrid Co RH3 under SRI	3	1	1	4	200 kg paddy seed	-	-	-	-
6	Variety with sweet taste and Improved production technology.	Pine apple	Unawareness about recent production, sour taste	Mauritius variety of Pineapple (sweet taste) as an alternative to local variety (pine apple) in Kollihills	-	1-	-	1	1	-	3000 nos	-	-	-
7.	Improved production technology	Brinjal	Cultivation of low yielding variety with shoots and fruit borer	-	Popularization of high yielding Brinjal hybrid Co(B)H 2 in Namakkal district	2	1	1	1	360gm	-	-	-	-
8.	Improved production technology	Bhendi	Incidence of Yellow vein Mosaic disease.	-	Popularisation of high yielding and resistant to Yellow Vein Mosaic virus disease Bhendi hybrid Co(Bh)H1 in Namakkal district	2	1	1	2	6.25 kg	-	-	-	-
9.	Breeding Management	Livestock	Infertility	Estrous synchronization in anestrus dairy animal by using CIDR	-	2	2	-	Off campus-1	-	-	10 No. of CIDR supplied	-	-

10	Health Management	Livestock	Mastitis	-	Prevention of Mastitis in dairy animals by using of Saaf kit	2	2	-	-	-	-	50 No.of Saaf Kit Spray supplied	-	-
11	Breeding Management	Livestock-Piggery	Weight gain	-	Popularization of cross bred Large White Yorkshire x ND pigs among farming community	3	3	-	1	-	-	8 No.of piglets.	-	-
12	Entrepreneurship development	Rural mart	Higher cost of inputs, low availability	-	Livestock production inputs based Rural mart as a supplementary livelihood option through PPP Model	3	3	-	-	-	-	2 no.of Rural marts has been opened.	-	-
13	Breeding Management	Sheep	Low birth weight and Poor weight at Marketable age.	Crossing of Mecheri Ewes with Bharath Merino Rams	-	2	2	-	Offcampus -1	-	-	6 Rams supplied	-	-
14	Disease Management	Goat Kids	Mortality	-	Anti-Cestodal efficacy of Praziquantel in goat kids	3	3	-	-	-	-	Praziquantel solution has given to 500 No.of goat kids	-	-
15	Breeding Management	Poultry	Less Egg Production	Khaki Campbell Ducks as an alternative to Desi ducks	-	2	4	-	-	-	-	100 No.of Ducklings has been given to beneficiaries	-	-
16		Poultry	Less weight gain	-	Popularization of Fowl Pox Vaccination in Desi birds	2	2	-	-	-	-	10 Vaccine vials (1000 doses)	-	-
17		Poultry	Less hatchability percentage of eggs	-	Popularization of community incubators among farming community	3	3	-	-	-	-	One Incubator (300 eggs setter, hatcher Capacity)	-	-
18	Aquaculture	Seabass farming	Lack of suitable alternative species for carp culture	Sea Bass (Lates calcarifer) culture in fresh water	-	1	2	-	-	-	-	10000 Nos. To 5 farmers	-	-
19	Aquaculture	Carp culture	Lack of availability of seeds	Production of Stunted Carp Fingerlings	-	3	3	-	-	-	-	6000 Nos supplied to 2 farmers	-	-
20	Aquaculture	Ornamental Fishes	-	-	Popularization of Siamese Fighter as an ornamental fish	2	2	-	-	-	-	250 pairs	-	-

3.B2. Details of technology used during reporting period

S.No	Title of Technology	Source of technology	Crop/enterprise	No. of programmes conducted			
				OFT	FLD	Training	Others (Specify)
1	2	3	4	5	6	7	8
1	Drip fertigation in maize for yield maximization	TNAU, Coimbatore	Maize	1	-	4	Demonstration :2
2	Mixed Pasture for Weaned Kids under irrigated condition	TNAU, Coimbatore	Fodder	1	-	14	Demonstration :6
3	Popularization of finger millet Co 14	TNAU, Coimbatore	Finger millet	-	1	6	Demonstration :3
4	Popularization of New guinea grass Co (Gg) 3 for Coconut garden	TNAU, Coimbatore	Guinea grass	-	1	14	Demonstration :2
5	Popularization of Paddy hybrid Co RH3 under SRI	TNAU, Coimbatore	Paddy	-	1	9	Demonstration :4
6	Mauritius variety of Pineapple (sweet taste) as an alternative to local variety (Sour taste) in Kollihills	TNAU, Coimbatore	Pine apple	13		1	Demonstration :1
7	Popularization of high yielding Brinjal hybrid Co(B)H 2 in Namakkal district	TNAU, Coimbatore	Brinjal	-	29	2	Demonstration :1 Field visit:1
8	Popularization of high yielding and resistant to Yellow Vein Mosaic virus disease Bhendi hybrid Co(Bh)H1 in Namakkal district	TNAU, Coimbatore	Bhendi	-	30	2	Demonstration :1 Field visit:1
9	Estrous synchronization in aneestrous dairy animal by using CIDR	TANUVAS, Chennai	Livestock	10	-	4	Demonstration :2 Field visit:2
10	Prevention of Mastitis in dairy animals by using of Saaf kit	TANUVAS, Chennai	Livestock	-	50	4	Demonstration :2 Field visit:1
11	Popularization of cross bred large white yorkshire x ND pigs among farming community	TANUVAS, Chennai	Livestock	-	8	6	Demonstration :1 Field visit:2
12	Livestock production inputs based Rural mart as a supplementary livelihood option through PPP Model	-	Rural mart	-	2	6	Demonstration :2 Field visit:4
13	Crossing of Mecheri Ewes with Bharath Marino Rams	CSWRI, Kodaikanal, Tamil Nadu	Livestock	6	-	5	Demonstration :2 Field visit:2
14	Anti cestodal efficacy of praziquantel in goat kids	TANUVAS, Chennai	Livestock	-	10	6	Demonstration :1 Field visit:3
15	Khaki Campbell Ducks as an alternative to Desi ducks	CPDO, Hasserghata, Bangalore	Poultry	10	-	6	Demonstration :2 Field visit:3
16	Popularization of Fowl Pox Vaccination in Desi birds	TANUVAS, Chennai	Poultry	10	-	4	Demonstration :3 Field visit:2
17	Popularization of community incubators among farming community	TANUVAS, Chennai	Rural mart		-	6	Demonstration :2 Field visit:1
18	Sea Bass (Lates calcarifer) culture in fresh water	CIBA, Chennai	Aquaculture	5	-	1	Demonstration :1 Field visit:1
19	Production of Stunted Carp Fingerlings	CIFA, Bhubaneshwar	Aquaculture	2	-	2	Demonstration :2 Field visit:1
20	Popularization of Siamese Fighter as an ornamental fish	CIFA, Bhubaneshwar	Aquaculture	-	3	2	Demonstration :1 Field visit:1

3.B2 contd..

No. of farmers covered															
OFT				FLD				Training				Others (Specify)			
General		SC/ST		General		SC/ST		General		SC/ST		General		SC/ST	
M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
74	6	19	-	164	22	14	3	1225	168	167	79	501	132	88	67

PART IV - On Farm Trial**4.A1. Abstract on the number of technologies assessed in respect of crops**

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops/Fodder	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Integrated Nutrient Management	1									1
Varietal Evaluation						1				1
Integrated Pest Management										
Integrated Crop Management										
Integrated Disease Management										
Small Scale Income Generation Enterprises										
Weed Management										
Resource Conservation Technology										
Farm Machineries										
Integrated Farming System				1						1
Seed / Plant production										
Value addition										
Drudgery Reduction										
Storage Technique										
Mushroom cultivation										
Total	1			1		1				3

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

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

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

Thematic areas	Cattle	Sheep & Goat	Poultry	Piggery	Rabbitry	Fisheries	TOTAL
Evaluation of Breeds		1	1			2	4
Nutrition Management							
Disease of Management	1						
Value Addition							
Production and Management	1						1
Feed and Fodder							
Small Scale income generating enterprises							
TOTAL	2	1	1			2	6

4.A4. Abstract on the number of technologies refined 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						

Feed and Fodder						
Small Scale income generating enterprises						
TOTAL						

4.B. Achievements on technologies Assessed and Refined

4.B.1. Technologies Assessed under various Crops

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha
Integrated Nutrient Management	Maize	Drip fertigation in maize for yield maximization	10	10	2
Varietal Evaluation	Pine apple	Mauritius variety (Sweet taste) of Pine apple as an alternate to local Variety pine apple in Kollihills	13	13	1
Integrated Pest Management					
Integrated Crop Management					
Integrated Disease Management					
Small Scale Income Generation Enterprises					
Weed Management					
Resource Conservation Technology					
Farm Machineries					
Integrated Farming System	Fodder	Mixed pasture model for weaned kids under rainfed condition	10	10	2
Seed / Plant production					
Value addition					
Drudgery Reduction					
Storage Technique					
Mushroom cultivation					
Total			33	33	5

4.B.2. Technologies Refined under various Crops

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha
Integrated Nutrient Management					
Varietal Evaluation					
Integrated Pest Management					
Integrated Crop Management					
Integrated Disease Management					
Small Scale Income Generation Enterprises					
Weed Management					
Resource Conservation Technology					
Farm Machineries					
Integrated Farming System					
Seed / Plant production					
Value addition					
Drudgery Reduction					
Storage Technique					
Mushroom cultivation					
Total					

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

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials	No. of farmers
Evaluation of breeds	Sheep	Crossing of Mecheri Ewes with Bharat Merino Rams	6	60
	Poultry -Duck	Khaki Campbell Ducks as an alternative to desi ducks	10	10
	Fisheries	Sea Bass (Lates calcarifer) culture in fresh water	5	5
	Fisheries	Popularization of Siamese Fighter (Betta Splendens) as an ornamental fish	3	3
Nutrition management	-			
Disease management	-			
Value addition	-			
Production and management	Dairy animals-	Estrous synchronization in anestrus dairy animal by using CIDR	10	10
Feed and fodder	-			
Small scale income generating enterprises	-			
Total			29	34

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

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

-

4.C.1..Results of Technologies assessed:

Results of On farm Trail – Agronomy

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
Maize	Irrigated	Water scarcity low nutrient use efficiency	Drip Fertigation in Maize for yield maximization	10	Drip fertigation with 100% RDF (50% Solid fertilizer + 50% water soluble fertilizer)	1.Plant ht 2. Single cob weight 3.Fertilizer use efficiency 4.yield	Technology options 2 225 cm 97 gram 60 % 8000 kg/ha	Technology options 1 200 cm 86 gram 30% 7450 kg/ha	Drip fertigation at 3 days intervals with (50% Solid fertilizer + 50% water soluble fertilizer) produce grain yield of 8000 kg/ha	Due to drip fertigation fertilizer use efficiency increased (40-60%) and water saving up to 50% and weed infestation reduced	-	-

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
Technology option 1 (Farmer's practice) – Drip Irrigation with soil application of 100% RDF (150:75:75 kg NPK /ha)	-	Grain yield	7450 kg/ha	55950	3.15
Technology option 2 – Drip fertigation with 50% P&K as basal and 50% as water soluble fertilizers.	TNAU, 2010	Grain yield	8000 kg/ha	61500	3.32
Technology option 3					

1.	Title of Technology Assessed	:	Drip Fertigation in Maize for yield maximization
2.	Problem Definition	:	Water scarcity and low nutrient use efficiency
3.	Details of technologies selected for assessment	:	Drip fertigation with 100% RDF with 50% P&K as basal and 50% as water soluble fertilizers
4.	Source of technology	:	Tamil Nadu Agricultural University, 2010
5.	Production system and thematic area	:	Irrigated condition and drip fertigation
6.	Performance of the Technology with performance indicators	:	Plant height, Single cob weight, Fertilizer use efficiency and yield
7.	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring technique	:	Due to drip fertigation, fertilizer use efficiency increased (40-60%) and water saving up to 50% and weed infestation reduced
8.	Final recommendation for micro level situation	:	Drip fertigation with 100% RDF with 50% P&K as basal and 50% as water soluble fertilizers produce higher grain yield of 8000 kg/ha
9.	Constraints identified and feedback for research	:	Scheduling of irrigation based on PET must be studied
10.	Process of farmers participation and their reaction	:	Good

Agronomy No.2

1	2	3	4	5	6	7	8		9	10	11	12
Mixed pasture model	Rainfed conditions	Lack of knowledge on requirement of land area for grazing, partitioning land area, Suitable fodder crops for grazing.	Mixed pasture model for weaned kids under Rainfed conditions	10	Cultivation of Kollukattai grass with Stylo as a mixed crop	Green fodder yield Carrying capacity of kids/ha	Technology options 2 35t/ha 40-50 nos/ha	Technology options 1 10t/ha 10-15 nos/ha	Kollukattai grass with Stylo as a mixed pasture system produce 35tonnes of nutritious fodder/ha	Cultivation of Kollukattai grass with Stylo as a mixed crop in one ha area is enough for maintain 60 kids	-	-

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
Technology option 1 (Farmer's practice) – Mono cropping a fodder / local grass	-	Green fodder yield	10 t/ha	5000	2.0
Technology option 2 – Cultivation of Kollukattai grass with Stylo as a mixed crop	TNAU	Green fodder yield	35 t/ha	32500	2.62
Technology option 3					

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	:	Mixed pasture model for weaned kids under rainfed conditions
2.	Problem Definition	:	Cultivation of Kollukattai grass with Stylo as a mixed crop
3.	Details of technologies selected for assessment	:	Introducing and assessing the performance of high yielding and exclusive table variety
4.	Source of technology	:	TNAU,Coimbatore
5.	Production system and thematic area	:	Rainfed condition / mixed pasture
6.	Performance of the Technology with performance indicators	:	Green fodder yield carrying capacity of kids
7.	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring technique	:	Cultivation of Kollukattai grass with Stylo as a mixed crop in one ha area is enough for maintaining 60 kids
8.	Final recommendation for micro level situation	:	Kollukattai grass with Stylo as a mixed pasture system produce 35tonnes of nutritious fodder/ha
9.	Constraints identified and feedback for research	:	-
10.	Process of farmers participation and their reaction	:	Good

Results of On Farm Trial -Horticulture

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
Pine apple	Rainfed	Cultivation of low yielding local variety which is sour in taste.	Mauritius variety of Pineapple (sweet taste) as an alternative to local variety (pine apple) in Kollihills	13	Cultivation techniques of Pine apple var.Mauritius.	No. of leaves / Plant(9 months after planting) No. of days months for fruiting after planting Height of the Peduncle Fruit length Fruit Diameter	33-37 7 13.7-21.4 cm 14.6-15.8 cm 17-19 cm	Mauritius variety of Pine apple performed well under Koll hills as well as plains under semi shade condition. Suckers (Planting material) came to fruiting earlier than Crown..	Mauritius variety of Pine apple bear the fruit (7 months after planting) earlier when suckers were used as a planting material	-	-

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
Technology option 1 (Farmer's practice)		Pine apple fruits	28 tonnes / ha	82 ,000/ ha	2.4
Technology option 2	TNAU, Coimbatore	Pine apple fruits	43 tonnes / ha	1,35,000 / ha	3.5
Technology option 3					

4.C 2. 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	:	Mauritius variety of Pineapple (sweet taste) as an alternative to local variety (pine apple) in Kollihills
2.	Problem Definition	:	Cultivation of low yielding local variety which is sour in taste
3.	Details of technologies selected for assessment	:	Introducing and assessing the performance of high yielding and exclusive table variety
4.	Source of technology	:	TNAU,Coimbatore
5.	Production system and thematic area	:	Rainfed
6.	Performance of the Technology with performance indicators	:	3000 number of suckers was supplied to 13 numbers of farmers from Koll hills. Now Crop is in Vegetative phase.
7.	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring technique	:	Mauritius variety of pine apple performed well under Namakkal condition and obtained 30 % increased yield.
8.	Final recommendation for micro level situation	:	Pine apple can be cultivated as a single crop and intercrop in Banana and Coconut garden in Namakkal district produced better fruit yield.
9.	Constraints identified and feedback for research	:	-
10.	Process of farmers participation and their reaction	:	Good

Animal Husbandry

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	Justifi- cation for refine- ment
1	2	3	4	5	6	7	8	9	10	11	12
Livestock- Dairy	Semi intensive	Low conception rate	Estrous synchronization in anestrous dairy animal by using CIDR	10	To increase the conception rate	1.Intensity of oestrus 2. conception rate		60% conception rate achieved	Better oestrus response observed		

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
Technology option 1 (Farmer's practice)		AI done only if the animal comes to oestrus	2320kg/lactation	3 Nos AI/conception	1:0.9
Technology option 2	TANUVAS, Chennai	Bring the animal into oestrus by CIDR & fixed time insemination	3200 kg/lactation	1.2 Nos AI/conception	1:1.4
Technology option 3					

4.C 2. 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	:	Synchronization of estrous in anestrous dairy animal by using CIDR
2.	Problem Definition	:	Failure of estrous sign lead to low pregnancy rate (30%)
3.	Details of technologies selected for assessment	:	Synchronization using CIDR. Protocol: 1. 0 th Day- Applied CIDR in anestrous animal. 2. 8 th Day – PGF2 α applied I/M. 3. 9 th Day-Removal of CIDR 4. AI done at the time of Observed oestrus (48-72 hours)
4.	Source of technology	:	TANUVAS, Chennai
5.	Production system and thematic area	:	Dairy farming-Breeding management
6.	Performance of the Technology with performance indicators	:	60% conception rate achieved
7.	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring technique	:	Calf with Average weight
8.	Final recommendation for micro level situation	:	Advised Mineral mixture supplementation.
9.	Constraints identified and feedback for research	:	40 % infertility reported in the CIDR administered animal.
10.	Process of farmers participation and their reaction	:	Now, Farmers using Mineral mixture regularly.

Animal Husbandry

Crop/ enterprise	Farmin g situatio n	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedba ck from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Sheep	Semi intensive	Low Birth Weight Poor weight at the time of marketing	Crossing of Mecheri Ewes with Bharath Merino Rams	6	Birth weight and weight gain	To assess the birth weight and weight gain	-	Bharat merino rams crossed with Mecheri ewes, on 15-04- 2011, in the farmer's field. All the animals are dewormed and vaccinated as per the schedule	-	-	-

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
Technology option 1 (Farmer's practice)			-		
Technology option 2	CSWRI, Mannavanur ,Kodaikanal	Better weight gain, More Birth weight	6	35 kg at marketable age	-
Technology option 3					

4.C 2. 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	:	Crossing of Mecheri Ewes with Bharath Merino Rams
2.	Problem Definition	:	Low Birth Weight Poor weight at the time of marketing
3.	Details of technologies selected for assessment	:	Birth weight and weight gain
4.	Source of technology	:	CSWRI, Mannavanur, Kodaikanal
5.	Production system and thematic area	:	Semi intensive
6.	Performance of the Technology with performance indicators	:	Weight gain, Birth weight
7.	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring technique	:	Animals are in good health, gaining as per the standard.
8.	Final recommendation for micro level situation	:	Advised concentrate feed, Vaccination
9.	Constraints identified and feedback for research	:	-
10.	Process of farmers participation and their reaction	:	Good

Results of On Farm Trial –Animal Husbandry

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
Poultry	Intensive	Less Egg production	Khaki Campbell Ducks as an alternative to desi ducks	10	Egg Production	No. of Eggs/year, Mortality, Weight at 8 month	At 8 months of age – 16eggs/20ducks -3 percent mortality. -1.450 kg/Duck	80 percent egg Production.	80 percent egg production	-	-

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
Technology option 1 (Farmer's practice)					
Technology option 2	CPDO, Hasserghata, Bangalore	250 eggs/year	9 female +1 male(1 unit)	16/day/unit	-
Technology option 3					

4.C 2. 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	:	Khaki Campbell Ducks as an alternative to Desi Ducks
2.	Problem Definition	:	Less Egg production
3.	Details of technologies selected for assessment	:	No.of eggs Produced /year
4.	Source of technology	:	CPDO, Hasserghata, Bangalore
5.	Production system and thematic area	:	Intensive
6.	Performance of the Technology with performance indicators	:	Egg production documentation
7.	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring technique	:	Percentage of Mortality, FCR
8.	Final recommendation for micro level situation	:	Duck Plague vaccination
9.	Constraints identified and feedback for research	:	-
10.	Process of farmers participation and their reaction	:	Good

Fisheries-1

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
Fisheries	Semi-intensive	Lack of alternate species in culture	Sea Bass (Lates calcarifer) culture in fresh water	5	Introduction of alternate species	Growth/yield	<ul style="list-style-type: none"> Stocking size: 1 cm months nursery phase Survival rate 	<ul style="list-style-type: none"> 750g/fish on average 40% survival Culture duration 5 months Expected harvest in 8 months 	Species shows higher growth rate	Introduction of pelleted feeds	Presently the fish is being culture with locally available feeds, pelleted feed is expected to improve yield

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
Technology option 1 (Farmer's practice)	Composite fish culture	Average 1 ton/acre	Ton/acre	35000/acre	
Technology option 2	Sea bass culture	Average 1.44 ton/acre	Tone/acre	40000/acre	
Technology option 3					

4.C 2. 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	:	Sea Bass (Lates calcarifer) culture in fresh water
2.	Problem Definition	:	Lack of suitable alternate species in culture
3.	Details of technologies selected for assessment	:	Sea bass culture in ponds, stocked with tilapia and with supplementary feeding is expected to produce an yield of 1.5 Kg/Fish in a period of 11 months culture
4.	Source of technology	:	Central Institute of Brackish water Aquaculture, Chennai
5.	Production system and thematic area	:	Semi intensive system, with Tilapia polyculture, juveniles of which acts as feed for the adult seabass
6.	Performance of the Technology with performance indicators	:	-
7.	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring technique	:	-
8.	Final recommendation for micro level situation	:	Need for cost effective feed for nursery and grow out phase
9.	Constraints identified and feedback for research	:	Lack of proper live feed during nursery phase, need for high protein feed for adults
10.	Process of farmers participation and their reaction	:	Farmers satisfied with the growth performance

Fisheries - 2

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
Fisheries	Semi-intensive	Facilitation of availability of fingerlings throughout the year	Production of stunted carp fingerlings	2	Production of stunted fingerlings	Survival	<ul style="list-style-type: none"> Stocking size-1.5" Stocking density 1500 Nos./tank of 1200sq.ft 	<ul style="list-style-type: none"> Three months stocking duration 3" size Expected survival 80% 	Expected to provide higher growth rate in the next year	-	Production of stunted carp fingerlings is expected to nearly double the production when stocked in the ponds and also ensure constant supply of seeds to the farmer.

4.C 2. 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	:	Production of Stunted Carp Fingerlings
2.	Problem Definition	:	Poor seed availability in the district
3.	Details of technologies selected for assessment	:	Stunted carp production under high stocking density and reduced feeding
4.	Source of technology	:	Central Institute of Freshwater Aquaculture
5.	Production system and thematic area	:	Semi intensive system
6.	Performance of the Technology with performance indicators	:	Growth, Survival rate
7.	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring technique	:	-
8.	Final recommendation for micro level situation	:	-
9.	Constraints identified and feedback for research	:	Lack of proper feed during nursery phase
10.	Process of farmers participation and their reaction	:	Farmers satisfied with the growth performance

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

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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
Technology Option 1 (best performing Technology Option in assessment)					
Technology Option 2 (Modification over Technology Option 1)					
Technology Option 3 (Another Modification over Technology Option 1)					

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 (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
									Proposed	Actual	SC/ST	Others	Total	
	Oilseeds													
	Pulses	Rain fed	Summer 2010	Green gram	VBN.2	-	Introduction of high yielding variety	YMV resistant variety VBN.2 with ICM	10 acre	10 acre	3	7	10	-
		Irrigated	Rabi 2010	Black gram	Co.6	-	Introduction of new variety	Short duration variety Co.6 with ICM	10 acre	10 acre	3	7	10	-
	Cereals	Irrigated	Rabi 2010	Paddy		CoRH3	Hybrid introduction with SRI	Short duration hybrid -CoRH.3 under SRI	10	10	7	18	25	-
	Millets	Irrigated	Kharif 2010	Finger millet	Co (Ra)14		Varietal introduction	New variety Co (Ra).14 with ICM	10	10	6	19	25	-
	Vegetables	Irrigated	Kharif 2010	Brinjal		Co(B)H2	Hybrid introduction with moderately resistant to shoot & fruit borer.	Popularization of high yielding Brinjal hybrid Co(B)H 2 in Namakkal district	20	20	2	27	29	-
		Irrigated	Kharif 2010	Bhendi		Co(Bh)H1	Hybrid introduction with Yellow vein Mosaic Disease Resistant.	Popularisation of high yielding and resistant to Yellow Vein Mosaic virus disease Bhendi hybrid Co(Bh)H1 in Namakkal district	2	2	3	24	30	-
	Flowers													
	Ornamental													
	Fruit													
	Spices and condiments													
	Commercial													
	Medicinal and aromatic													
	Fodder	Irrigated	Rabi 2010	Guinea Grass	Co(Gg).3	-	Shade tolerant fodder variety introduction	New variety Co (Gg).3 with ICM	10	10	5	20	25	-

Commercial																				
Medicinal and aromatic																				
Fodder	New variety Co (Gg).3 with ICM	Co(Gg)3	-	Irrigated	25	2 ha	3750	3200	3550	2300	54.3	46500	355000	308500	7.63	41000	230000	189000	5.60	
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 to technology demonstrated		
Parameter with unit	Demo	Check

Type of livestock	Name of the technology demonstrated	Breed	No. of Demo	No. of Units	Yield			Check if any	% Increase	*Economics of demonstration Rs./unit)				*Economics of check (Rs./unit)			
					H	L	A			Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Dairy	Prevention of Mastitis in dairy animals by using of Saaf kit	Jersey cross		50	Milk yield-400 ml increased per day MBRT increased from 40 min to 1 hr 10 min	6 lit MBRT 35 min	7 lit MBRT 45 min	5 lit MBRT 30 min	400 ml 40 min increased	Rs.96.00	Rs.102.40	Rs 6.40	1:1.06	1.75 Paisa/animal	1.80 Paisa/animal	0.5 paisa/animal	1:1.02
Poultry	Popularization of community incubators among farming community	incubator	1	52	62% Hatchability	50% Hatchability	55% Hatchability	45% Hatchability	27.9% Hatchability	Rs.1200/100 eggs	Rs.1860 (62 percent hatching . Rs.30/Chick Cost)	660/100 eggs	1:1.55	Rs.900/100 eggs	Rs.1200 (40 percent hatchability)	300,	1.1.33
Rabbitry	Popularization of Fowl Pox Vaccination in Desi birds	Desi birds	10	10	1.750 Kg weight at 4 months of age	1.560 weight at 4 months of age.	1.650 Weight at 4 months of age.	1.450 Weight at 4 months of age	12 percent increase in Weight gain	Rs.3.70 paisa/Bird	Rs.30.00/ Bird	Rs.26.30/ Bird	1:8.1	-	-	-	-

Piggery	Popularization of cross bred Large White Yorkshire x ND Pigs among farming community	Cross bred of Large White Yorkshire x ND Pigs	4	4	Weight gain 80 Kg/8 month	65 Kg/8 month	70 kg/8 month	60 kg/8 month	33.33 % Weight gain	Rs.3600	RS.5200	Rs.1600	1:1.44	Rs.2900	Rs.4000	Rs.1100	1.1.37
Sheep and goat	Anti cestodal efficacy of praziquantel in goat kids	Tellichery x kids	10	500	5%	20%	15%	20%	10%	Rs.3/kids	Rs.20/kid	Rs.17/Kid	1:6.6	-	-	-	-
Duckery																	
Others																	
Rural livestock mart	Sale of livestock input materials	Dairy,Sheep,Goat&Poultry	2	2	Dairy cattle feed Rs.730/bag	Dairy cattle feed Rs.700/bag	Dairy cattle feed Rs.715/bag	Dairy cattle feed Rs.670/bag	One litre of milk increased	Rs.715/bag	Rs.755/bag	Rs.745/bag	1:1.06	-	-	-	-

* 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 to technology demonstrated

Parameter with unit	Demo	Check if any

5.B.3. Fisheries

Type of Breed	Name of the technology demonstrated	Breed	No. of Demo	Units/ Area (m ²)	Yield (q/ha)			% Increase	*Economics of demonstration Rs./unit) or (Rs./m ²)				*Economics of check Rs./unit) or (Rs./m ²)				
					Demo	Check if any	Gross Cost		Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR		
Common carps					H	L	A										
Mussels																	
Ornamental fishes	Popularization of Siamese Fighter as an ornamental fish	Betta Splendens	30	3			A	250 pairs	500	2000	1500	1:4	-	-	-	-	
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 to technology demonstrated		
Parameter with unit	Demo	Check if any

5.B.4. Other enterprises

Enterprise	Name of the technology demonstrated	Variety/ species	No. of Demo	Units/ Area {m ² }	Yield (q/ha)			% Increase	*Economics of demonstration (Rs./unit) or (Rs./m ²)				*Economics of check (Rs./unit) or (Rs./m ²)					
					Demo				Check if any	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR	
					H	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 implement	Cost of the implement in Rs.	Name of the technology demonstrated	No. of Demo	Area covered under demo in ha	Labour requirement in Mandays		% save	Savings in labour (Rs./ha)	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demo	Check			Gross cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR

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

** BCR= GROSS RETURN/GROSS COST

Arboreum Varieties																			
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5.B.6.3 Integrated pest management demonstrations

Farming situation	Variety	Hybrid	No. of blocks	Total No. of Demo.	Area (ha)	Incidence of pest and diseases (%)			Seed Cotton Yield (q/ha)			Economics of demonstration (Rs./ha)				Economics of local check (Rs./ha)			
						IPM	Non IPM	% Change	IPM	Non IPM	% Change	Gross Cost	Gross Return	Net Return	BCR	Gross Cost	Gross Return	Net Return	B C R

5.B.6.4 Demonstrations on farm implements

Name of the implement	Area (Ha)	No. of Demo.	Name of the technology demonstrated	Labour requirement for operation (Rs./ha)		
				Demo	Local check	% change
Total						

5. B.6.5 Extension Programmes organized in Cotton Demonstration Plots

Extension activity	No. of Programmes	Participants			SC/ST		
		Male	Female	Total	Male	Female	Total
Consultancy	10	8	2	10			
Conventions	-	-	-	-	-	-	-
Demonstrations	15	75	20	95	12	7	19
Diagnostic surveys	4	3	1	4	-	-	-
Exhibition	6	750	175	925	60	20	80
Farmer study tours	1	45	-	45	5	-	5
Farmers Field school	-	-	-	-	-	-	-
Field Days	3	35	5	40	8	4	12
Field visits	15	60	15	75	12	8	20
Gram sabha	-	-	-	-	-	-	-
Group discussions	2	25	-	25	10	-	10
Kisan Gosthi	-	-	-	-	-	-	-
Kisan Mela	-	-	-	-	-	-	-
Training for Extension Functionaries	2	45	15	60	-	-	-
Training for farmers	2	45	13	58	6	4	10
Video show	1	45	13	58	6	4	10
Newspaper coverage	8			Mass			
Popular articles	2	52	12	64	10	5	15
Publication	2			Mass			
Radio talks	1			Mass			
T.V. Programme	1			Mass			
Others (PLspecify)							
TOTAL	75	1188	271	1459	129	47	176

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

S. No	Crop / Enterprise	Name of the technology demonstrated	Feed Back
1			
2			

5.B.6.7 Farmers' reactions on specific technologies

S. No	Crop / Enterprise	Name of the technology demonstrated	Feed Back
1			
2			

5.B.6.8 Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organised	Number of participants	Remarks
1	Field days			
2	Farmers Training			
3	Media coverage			
4	Training for extension functionaries			

PART VI – DEMONSTRATIONS ON CROP HYBRIDS**Demonstration details on crop hybrids**

Type of Breed	Name of the technology demonstrated	Name of the hybrid	No. of Demo	Area (ha)	Yield (q/ha)			Check	% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demo					Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					H	L	A										
Cereals																	
Bajra																	
Maize																	
Paddy	Hybrid under SRI	CoRH.3	25	10 ha	86.5	67.0	79.0	56.25	40.4	23000	75050	52050	3.26	25500	59063	33563	2.31
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	Brinjal	Popularization of high yielding Brinjal hybrid Co(B)H 2 in Namakkal district	29	2	57.5	52	54.6	40.8	9.5	82,000	5,46,000	464,000	1:6.6	68,000	3,26,400	2,58,400	1:4.8

		Popularisation of high yielding and resistant to Yellow Vein Mosaic virus disease Bhendi hybrid Co(Bh)H1 in Namakkal district	30	1	16.25	14.8	15.7	8.4	8.9	57,200	1,57,000	99,800	1:2.7	41,050	89,000	47,950	-
Okra	Okra																
Onion																	
Potato																	
Field bean																	
Others (pl.specify)																	
Total																	
Commercial crops																	
Sugarcane																	
Coconut																	
Others pl.specify)																	
Total																	
Fodder crops																	
Maize (Fodder)																	
Sorghum Fodder)																	
Others pl.specify)																	
Total																	

H-High L-Low, A-Average

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

Production of Inputs at site										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production	1	28	1	29	-	-	-	28	1	29
Organic manures production										
Production of fry and fingerlings										
Production of Bee-colonies and wax sheets										
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
Mushroom production										
Apiculture										
Others (pl.specify)										
Capacity Building and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
Others (pl.specify)										
Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems	1	16	2	18	-	-	-	16	2	18
Others (Pl. specify)										
TOTAL	70	1494	280	1776	61	98	159	1555	378	1933

Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production	1	130	20	150	-	-	-	130	20	150
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	4	30	13	43	-	-	-	30	13	43
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
Others (pl.specify)										
Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (Pl. specify)										
TOTAL	23	1017	454	1471	34	64	98	1051	518	1569

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops	1	7	-	7	-	-	-	7	-	7
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements	1	35	5	40	-	-	-	35	5	40
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying	4	65	45	110	5	35	35	65	80	150
Sheep and goat rearing	4	115	15	130	10	-	-	115	15	140
Quail farming	1	19	2	21	-	-	-	19	2	21
Piggery	3	61	2	63	-	-	-	61	2	63
Rabbit farming	2	45	2	47	-	-	-	45	2	47
Poultry production	10	245	15	260	8	1	13	257	16	273
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl.specify)										
TOTAL	26	592	86	678	8	36	48	26	592	86

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming	1	17	-	17	-	-	-	17	-	17
Seed production	2	70	20	90	-	-	-	70	20	90
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying	4	88	11	99	16	4	20	104	15	119
Sheep and goat rearing	2	15	-	15	4	16	20	19	16	35
Quail farming										
Piggery										
Rabbit farming										
Poultry production	2	132	22	154	-	-	-	132	22	154
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl. specify)										
TOTAL	11	322	53	375	20	20	40	342	73	415

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops	2	12	6	18	-	-	-	12	6	18
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	1	11	1	12	-	-	-	11	1	12
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Poultry Farming	2	60	7	67	-	-	-	60	7	67
KVK Activities	1	5	2	7	-	-	-	5	2	7
Total	6	88	16	104				88	16	104

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Integrated Pest Management										
Integrated Nutrient management										
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										
Any other (pl.specify)										
Total										

7.G. Sponsored training programmes

S.No.	Area of training	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
1	Crop production and management										
1.a.	Increasing production and productivity of crops										
1.b.	Commercial production of vegetables										
2	Production and value addition										
2.a.	Fruit Plants										
2.b.	Ornamental plants										
2.c.	Spices crops										
3.	Soil health and fertility management										
4	Production of Inputs at site										
5	Methods of protective cultivation	5	152	-	152				152	-	152
6	Others (pl.specify)										
7	Post harvest technology and value addition										
7.a.	Processing and value addition										
7.b.	Others (pl.specify)										
8	Farm machinery										
8.a.	Farm machinery, tools and implements										
8.b.	Others (pl.specify)										
9.	Livestock and fisheries										
10	Livestock production and management										
10.a.	Animal Nutrition Management	2	60	-	60				60	-	60
10.b.	Animal Disease Management										
10.c.	Fisheries Nutrition										
10.d.	Fisheries Management										
10.e.	Poultry Farming	2	25	4	29				25	4	29
	Small Scale livestock and poultry farming	1	7	6	13				7	6	13
11.	Home Science										
11.a.	Household nutritional security										
11.b.	Economic empowerment of women										
11.c.	Drudgery reduction of women										
11.d.	Others (pl.specify)										
12	Agricultural Extension										
12.a.	Capacity Building and Group Dynamics										
12.b.	Others (pl.specify)										
	Total	10	244	10	254				244	10	254

Details of sponsoring agencies involved

1. NABARD, Namakkal,
2. ATMA (Coimbatore, Vellore, Kannur District),
3. Ministry of External Affairs, Govt.of India, New Delhi.

Mahila Mandals Conveners meetings										
Celebration of important days (specify) Pongal Vizha	9	435	215	650				9	6	15
Any Other (Specify)										
Total	441	13022	708	13730	-	-	-	218	41	259

VI. PRODUCTION OF SEED/PLANTING MATERIAL

Production of seeds by the KVKs

Crop category	Name of the crop	Name of the variety (if hybrid pl. specify)	Quantity of seed (Kg)	Value (Rs)	Number of farmers	
Cereals	Paddy	Co.48	53	1325	17	
		Co.49	150	3750	47	
		Co.50	120	3000	40	
	Sorghum	Co.30	76	1900	15	
		Cumbu	Co.9	101	2525	33
		Ragi	Co.14	31	775	12
Oilseeds	Groundnut	TMV.13	165	6600	17	
		Co.6	221	8840	25	
Pulses	Black gram	Co.6	210	14700	48	
	Redgram	-	3.9 kg	275	5	
Vegetables	Bhendi seed	Arka Abhay	11.905	3702.5	46	
	Bush type Lab Lab Arka Jay	Arka Vijay	13.23	1275	68	
	Vegetable Cowpea seeds	Arka suman	3.35	710	23	
	Bittergourd seeds	Arka Harit	4.8	1920	17	
	Bottle gourd	Punjab long	220g	370	16	
	Tomato seeds	PKM 1	900g	630	27	
	Greens seed	Local variety	600g	420	9	
	Annual Moringa	PKM 1	1.972	5205	41	
	French beans seed	Arka komal	5.02	1357	65	
Flower crops	Tuberose corms	Prajwal	242	9700.75	21	
Fodder crop seeds	Fodder Sorghum	CoFS.29	14.250	4275	10	
	Fodder Cowpea	CoFC.8	8.250	618	7	
	Stylo	-	4.500	675	2	
	Subabul seed	-	7.9	1672.50	18	
	Chithagathi	-	11.8	3205	62	
	Agathi	-	1.25	375	7	
	Azolla	-	50	2500	50	
Fruit Crops	Papaya	Co2	955g	395	72	
Earthworm	-	<i>Eisenia foetida</i>	1.55	390	4	
Total			1512.67	83085	824	

PART IX – PRODUCTION OF SEED, PLANT AND LIVESTOCK MATERIALS**Production of planting materials by the KVKs**

Crop category	Name of the crop	Name of the variety (if hybrid pl. specify)	Number	Value (Rs.)	Number of farmers
Commercial	Coconut	West coast Tall	5960	238400	500
Vegetable seedlings	Tomato	Lakshmi	6185	3290	56
	Chillies	Priyanka& Indira	5664	2882	42
	Brinjal	Keerthi, Sachin, Mohini	50	345	5
	Cabbage	Harirani	566	425	2
	Cauliflower	Pawas	360	270	1
	Curry Leaf	Local	6	50	6
Fruits	Pineapple sucker	Maurities	1472	7360	13
	Navel	local	2	40	2
	papaya	Co2	7	35	3
	Guava	TRI 1	2	40	1
	Banana Sucker	G9	3	15	1
Ornamental plants	Crotons/Rose/Durantha	-	501	3516	50
	Coleus	-	5	120	5
Medicinal and Aromatic	Ththuvalai	-	12	125	12
	omavalli	-	2	20	1
Plantation					
Spices					
Tuber	Tapioca setts	Co4 Sree Padmanabha	689	3446	17
Fodder Crop Saplings	Cumbu Napier grass	Co.4	52800	13200	65
	Guinea grass	Co.3	4302	2151	32
	Kalyanamurungai	-	56	280	12
	Puthiya soundal	-	58	290	7
Forest Species					
Tuber crops					
Fodder:	Desmanthus (Hedge Lucerne)	-	1358.00	6,11,100.00	557
	Fodder Seeds	CoFS-29	135.00	40,500.00	557
Total			78702	276300	833

Production of Bio-Products

Bio Products	Name of the bio-product	Quantity	Value (Rs.)	No. of Farmers
		Kg		
Bio Fertilizers	Vermicompost	982	3928	25
	Earthworm	10.30	2575	20
Bio-pesticide				
Bio-fungicide				
Bio Agents	<i>Acerophagus papayae</i>	3710 nos	-	34
Others				
Total		-	6503	79

Production of livestock and related enterprise materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers
Goat	Telichery	27	64044	12
Sheep	Mecheri	15	38488	4

Poultry				
Desi bird	Aseel	305	47264	8
Broiler	Colour broiler	6	980	4
Broiler chicks	Cross breed chicks	1391	61560	300
White male chicks	White leghorn	82	22090	12
Japanese Quail	Namakkal layer	24	695	7
Turkey – adult	White Beltsvelle and broad breasted bronze	5	2575	40
Turkey - chicks	White Beltsvelle	-	3280	9
Others (Pl. specify)				
Desi bird - egg	Aseel	431	1293	40
Japanese Quail egg	Namakkal layer	1824	954	45
Turkey egg	White Beltsvelle	74	1110	12
Duck egg	Khaki Campbell	186	744	80
Piggery	Large White Yorkshire	2	9020	1
Fisheries				
Ornamental Fish	Guppy	30	300	15
	platy	22	220	20
Others				
Mineral Mixture	-	1536	76800	1200
Mineral Block	-	663	33150	520
Goat book	-	878	21950	878
Composite fish culture book		224	6720	224
Suscription of Kalnadai Kathir				
	Annual	190	9500	190
	Life	18	7200	18
Suscription of Meenvalakathir				
	Annual	51	2550	51
	Life	5	2000	5
Subscription of Uzhavarin Valarum velanmai				
	Annual	74	5550	74
	Life	4	3000	4
Subscription for Spice India				
	Annual	10	500	10
	Life	3	600	3
Books	Livestock & Poultry	890	27370	890
DVD & CDs	Livestock & Poultry	247	9940	247
Total		9217	494447	4923

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 : Dec 2006
 Periodicity : Quarterly
 Number of copies distributed : 600 copies
 (2010-2011)

(B) Literature developed/published

Item	Title	Authors name	Number
Research papers	1) Adaptation and mitigation strategies for rainfed crops and fodder production systems in Namakkal district, Tamil Nadu	S. Alagudurai, C. Sharmila Bharathi, M. Daisy, S. Shanthipriya, A. Natarajan & B. Mohan	National Symposium on climate Change and rainfed Agriculture, CRIDA, Hyderabad, Feb' 18-20, 2010 411-412
	2) Incidence of Aflatoxin in sesame oil cake	R. Yasothai, B. Mohan, R. Ravi	Indian Veterinary Journal, July 2010: 87, Page No. 717
	3) Vegetable seedling production by protrait Techniques.	C. Sharmila Bharathi, B. Mohan S. Alagudurai, M. Daisy	Manual on Agricultural Tamil Science Conference AC & RI, Madurai, 110-112
Research Abstract.	1) Vermicomposting using poultry manure	S. Alagudurai, M. Daisy & B. Mohan	National seminar on "Wealth from Livestock and Agriculture waste: - 12-13 Nov' 2010, VC & RI, Namakkal, Abstract V-17, P. No. 164 XXVII Annual Conference &
	2) Nutrient composition of maize bran and its level of inclusion in broiler diet.	S. Byji, M. Moorthy, S.C. Edwin & B. Mohan	National Symposium of Indian poultry Science Association, PNR-017, P. No. 87 XXVII Annual Conference &
	3) Radiological Evaluation of left fibia of layer chicken fed with organic minerals	R. Amutha, S.C. Edwin, K. Viswanathan, A.M. Safiullah & B. Mohan	National Symposium of Indian poultry Science Association, PNR-017, P. No. 107 XXVII Annual Conference &
	4) Performance of TANUVAS-Nandanam-I Turkeys in farmers field supplied by KVK, Namakkal under FLD	B. Mohan, D. Thirunavukkarasu, K. Senthilkumar, P. Vikramachakravarthi	National Symposium of Indian poultry Science Association, PNR-017, P. No. 370
	5) Establishment of Coconut Nursery (Var. West Coast tall) in drought prone area of Namakkal district	B. Mohan, M. Daisy, S. Alagudurai & C. Sharmila Bharathi	International Conference on Coconut Biodiversity for prosperity at Central Plantation Crop Research Institute, Kasaragod, Kerala, 25-28, October 2010. P. No. 184
	6) Fabrication of small scale slatted floor housing model and its influence on growth performance of Tellicherry goats	A. Yasotha, B. Mohan and T. Sivakumar	National Symposium and Technology Management vision and up scaling for accelerating livestock production, Assam, 11 th to 13 th Nov' 2010, P.P. No. 84
Technical reports	1) Organic farming	B. Mohan, S. Alagudurai, C. Sharmila Bharathi, D. Thirunavukkarasu, K. Senthilkumar, P. Vikramachakravarthi, S. Aanand & M. Daisy	100
	2) KVK, Namakkal Revolving fund activities	B. Mohan, C. Sharmila Bharathi, S. Alagudurai, D. Thirunavukkarasu, K. Senthilkumar, P. Vikramachakravarthi,	10

	3)A case study of fodder production	S.Aanand & M. Daisy	10
	4)Seed and planting products of KVK from 2006 to 2010	S. Alagudurai, B. Mohan, C. Sharmila Bharathi & M. Daisy	10
	5) Value addition in Agriculture, Horticulture, Animal Husbandry and fisheries products	B. Mohan, C. Sharmila Bharathi, S. Alagudurai, D. Thirunavukkarasu, K. Senthilkumar, Vikramachakravarthi, S. Aanand & M. Daisy	100
News letters	1	B. Mohan, P. Vikramachakravarthi, S. Alagudurai, C. Sharmila Bharathi, D. Thirunavukkarasu, K. Senthilkumar, S. Aanand & M. Daisy	600 Copies
Technical bulletins	-	-	-
Books Published	Farmer Partners Directory	B.Mohan, Dr.S.Anand, Dr.P.Vikrama Charkavarthi,Dr.Prabhu	100
Extension literature 1) Agronomy.	Composting and Vermicomposting techniques	S. Alagudurai and B.Mohan	30
	Summer cotton cultivation		15
	Coconut cultivation techniques		50
	Black gram and green gram production techniques		50
	Integrated weed management in field crops		30
	Cultivation of new varieties of Sorghum, Cumbu and Ragi		50
	Fodder crops cultivation and seed production		100
	Rajarajan 1000 and Direct sown paddy cultivation techniques		200
	Agro forestry with Livestock integration		100
	Usage of Farm machineries in Agriculture.		100
Horticulture	Cucurbitaceous vegetable cultivation techniques		C. Sharmila Bharathi & B. Mohan
	Honey bee rearing techniques.	75	
	Recent cultivation techniques on cassava mosaic resistant variety: Sree Padmanabha	75	
	Protray nursery and Precision farming techniques in Tomato	50	
	Recent Production techniques in Turmeric with new variety.	100	
	Recent production techniques in Vegetable crops.	30	
	Bio control methods for the pest and disease management in Vegetable crops.	30	
	Pine apple cultivation techniques.	100	
	Hybrid chilli cultivation techniques	100	
	Hybrid Brinjal and Bhendi Cultivation techniques.	100	
	Recent Production and storage techniques in Small Onion	100	
Animal Science (ARG&O)			
	Goat farming	Dr.K. Senthilkumar, D. Thirunavukkarasu, B. Mohan	150
	Rearing of male calf for beef production		20
	Advanced Techniques in dairy farming		100
	Summer management in buffalo rearing		20
	Disease management in sheep and		200

	goat rearing		
	Advanced techniques in sheep farming		50
	Advanced techniques for reduction of cost of milk production		60
	Hatchery management for desi birds, turkey and other poultry species	D Thirunavukkarasu and B Mohan	60
	Advanced techniques in Japanese quail farming		150
	Health and vaccination management in desi bird rearing		100
	Control of diseases in turkey farming		100
	Broiler quail chick production and management		100
	Alternative poultry farming		100
	Rabbit rearing		
	Usage of herbs as First aid medicine for livestock farming	P.Vikrama Chakravarthi and B Mohan	100
	Scientific Piggery Farming		100
	Duck rearing – An introduction		100
	Use and Usage of Homestead incubators in Desi bird rearing		50
	Ornamental fish farming	S. Aanand and B.Mohan	100
	Composite fish culture		25
	Fresh water prawn farming		20
	Cat fish farming		100
	Integrated farming system		1000
	Fish/poultry integration		25
	Value added fish products		1000
	Carp culture		100
	Fish / Pig integration		25

10.B. Details of Electronic Media Produced -NIL

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

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

1. Agronomy

Title	:	CULTIVATION OF NEW PADDY VARIETY CO 50 UNDER SRI SYSTEM
Background	:	Thiru. M. Prabu, Vadugapalayam pudur, paramathy velur taluk of Namakkal district has five acres of land and cultivating paddy, fodder crops and sugarcane.
Interventions	:	SRI System of rice cultivation such as raised bed nursery with new variety, square planting with single seedling and used cono weeder for intercultural operations for controlling weeds.
Process	:	He approached this Kendra and has undergone training on “System of Rice Intensification”. In this training SRI techniques were demonstrated and three kg of new variety Co 50 seed is distributed. After acquiring the knowledge in SRI he prepared raised bed nursery, square planting with single seedling and used cono weeder for intercultural operations controlling weeds and also saved labour cost.
Technology	:	SRI System of rice cultivation techniques are raised bed nursery, square planting with single seedling and cono weeder for weed management LCC based ‘N’ management
Impact	:	He reported that the new variety resistant to pest and diseases and recorded 50-60 tillers per hill with yielded 3050 kg/ac. And also reported cost of cultivation reduced upto Rs. 2000 per acre. Many farmers visited her field and are benefited
Horizontal spread After visualizing the impact of the technique the local farming community has approached this KVK for training. The farmer now step by step adopting improved practices with new varieties and he disseminating this technology through raising of mat nursery on rental basis.		
Employment generation: It has generated employment for farmers and farm women		

2. Agronomy

Title	:	NEW VARIETIES OF GREEN GRAM VARIETY VBN 2 CULTIVATION UNDER RAINFED CONDITION
Background	:	Thiru.P. Kumarasamy, Thathiyankarpatti of Namakkal district has 4.5 acres of land and cultivating Green Gram , Ground nut, gingelly and sorghum. Out of 4.5 acres of land, he is cultivating Green gram in an area of 2.5 acres in summer 2010. (April- May)
Interventions	:	High yielding YMV resistant variety of Green gram VBN 2 introduced . Recommended plant population (33/Sq.m.) 2% DAP spray at Flowering stage. 0.5% Indoxacarp sprays for control of pod borer.
Process	:	He approached this Kendra and has undergone training on “Recent trends in pulses cultivation”. In this training seed treatment and sowing method , plant protection techniques were demonstrated and 8 kg of new variety VBN 2 seed is distributed. After acquiring the knowledge he cultivated green gram in 2.5 acres with recommended practices.
Technology	:	High yielding YMV resistant variety of Green gram VBN 2 introduced . Recommended plant population (33/Sq.m.) 2% DAP spray at Flowering stage. 0.5% Indoxacarp sprays for control of pod borer.
Impact	:	He reported that the new variety VBN 2 resistant YMV and recorded 1,225 kg/ha. Whereas local variety Co 6 recorded 1060 kg/ha. Both varieties are recorders more yield due to uniform distribution of rainfall during the cropping period.
Horizontal spread		
After visualizing the returns of farms the local farming community has approached this KVK for training. The interested farmers of this village have been mobilized into groups and training was given. Now 50 farmers are cultivating New variety of Green gram VBN 2.		
Employment generation: It has generated employment for farmers and farm women		

3. Agronomy

Title	:	AZOLLA CULTIVATION AND FEEDING MANAGEMENT OF LIVESTOCK.
Background	:	Thiru.K. Lakshmanan of kodikalpudur, Namakkal has 3 acres land and cultivating paddy, and rearing dairy cows. grazing of cows and feeding with concentrates are the major farm activity.
Interventions	:	Low and no cost technology of growing azolla in farmers field itself. Farmer mixing azolla with concentrate feed around 25% Reduced green fodder cost , concentrate feed cost. Protein content is 30% . calcium 0.18%, phosphorous 0.34% crude fibre 1.24% in wet basis is seen. Increasing milk yield.
Process	:	The farmer seeks to reduce the feed cost and approach our Kendra for substitute feed with green fodder and attended the training programme on “Azolla cultivation practices and feeding management in livestock.” through this training the essentialities of azolla feeding and its nutrient availability studied by farmer and 1 kg of azolla is given by KVK for establishing a small unit in their farm itself.
Technology	:	The technology demonstrated are maintaining water level throughout its lifecycle, Growing azolla in 50% shady condition, reducing the water and atmospheric temperature.
Impact	:	The farmer reported that the feeding cost around 4 rupees reduced due to azolla feeding per day and increasing milk yield around 200-250 ml per day. And also reported SNF content of milk is also increased.

Horizontal spread
After visualizing the betterment in azolla feeding, the nearby paddy farmer and small holder livestock farmer (2-3 cows) were get azolla seed culture from him and establish a small unit in their farms under shady condition. farmer sold seed culture around 25 rupees to needy farmer.

4. Horticulture

Title	:	SUCCESSFUL TAPIOCA CULTIVATOR.
Background	:	Thiru. V.Srinivasan of Muthugapatti village of Namakkal district is an progressive farmer. He underwent training on Recent techniques in Tapioca cultivation at this Kendra. After that he cultivated Mulluvadi and Vasthu vellai local variety of Tapioca in an area of 1 acre.
Interventions	:	<ul style="list-style-type: none"> • Spacing • Sett treatment with fungicide. • Manuring schedule based on soil test report. • Proper pest and disease management.
Process	:	Training programme on Tapioca cultivation was organized at this kendra and provided necessary technical advice to the farmer. The farmer in turn adopted the recommendation.
Technology	:	<ul style="list-style-type: none"> • Maintain the correct plant population at a spacing of 90x90 cm • Sett treatment with Carbendazim @3gm/ltr for 20 minutes. • Three Foliar spray of Micro nutrients Viz.,Ferrous sulphate ,Zinc sulphate and Borax @3g/ltr at 15 days interval. • Split application of manure. • Timely management of pest and disease.
Impact	:	By adopting the above mentioned practices, he obtained 220 bags of (75 kg/bag) and earned Rs81,400./acre as(@Rs.370/bag) net profit.
Employment generation: It has generated employment for rural youth and women		

5. ANIMAL HUSBANDRY

Title	:	SUCCESSFUL GOAT FARMING UNDER SLATTED FLOOR TECHNIQUE.
Background	:	Mr. S. Deivanayaga, Abi Goat Farm,pon nagar, Velur, Namakkal district has been carrying Goat rearing as a main activity for income under extensive system.
Interventions	:	Due to lack of awareness, she was obtaining poor returns from Goat husbandry activities. After undergoing training in this Kendra, the farmer adapted slatted floor unit with improved breeds.
Process	:	Training programme was organized and knowledge and skills were transferred to the end users. The farmers in turn adopted the recommendation.
Technology	:	Slatted floor goat rearing system with improved breeds viz Tellicherry, Boer cross, sirohi
Impact	:	By adopting above mentioned technologies, the farmer in his goat farm had better output. On an average kid gained 70-80 gms per day under slatted floor system. Around 6 to 7 month the goat reached a weight of 25-28 Kgs and so for sold 3242 breadable goats.
Women empowerment	:	Year round employment opportunities' for women those who are working in his farm.
Horizontal spread	After visualizing the returns of farms the local farming community has approached this KVK for training on slatted floor goat rearing. For the interested farmers training was arranged in this Kendra. The farmers now step by step improving the goat husbandry practices in their farm. And also KVK encouraged to exposure visit for farmers those who are interested to start new farm.	
Employment generation: It has generated employment for rural youth and women.		

6) ANIMAL HUSBANDRY- PIGGERY

Title	:	SCIENTIFIC MANAGEMENT OF PIGGERY FARMING.
Background	:	Mr.S. Thiyagaran, Servampatty of Namakkal district is a marginal farmer, interested in piggery and approached our KVK for advisory services in piggery rearing techniques. After acquiring knowledge in rearing white pigs he established a small farm (45 pigs) and started rearing White piglets.
Interventions	:	Scientific management of practices has been taught by KVK. <ol style="list-style-type: none"> 1. Detothing. 2. Iron injection. 3. Vaccination.

		He was also advised to procure weaned piglets and sell the same after 5 months for meat purpose.
Process	:	Presently, he had sold 150 numbers of piglets to the local market. He mainly concentrates on procuring young weaned piglets for fattening and selling the adults at 7-8 months of age.
Technology	:	Swill and concentrate feeding for weaned piglets supplemented with vitamin and mineral mixtures.
Impact	:	He is getting Rs. 4,000/pig in five months. His farm acts as a model unit for the new pig entrepreneurs
Horizontal spread His farm acts a model farm to the neighboring youth and also a farmer demo farm, in which trainees are advices to visit the farm and adopt the same.		
Employment generation: It has generated employment for his family and other farmers too.		

7. ANIMAL HUSBANDRY- POULTRY

Title	:	REARING OF DESI BIRDS WITH IMPROVED MANAGERMENTAL PRACTICE
Background	:	Ms.Uma, Valkadu, of Namakkal district is growing arecanut and sorghum as major crops. In addition to crop husbandry she owns 1000 no.of desi farm in her land.
Interventions	:	Training on desi bird farming for generating supplementary income(on and off campus programe) <ul style="list-style-type: none"> • Hatching and Brooding of Desi bird chicks • Vaccination packages for desi birds • Concentrate feeding • Deworming
Impact	:	The local farmers have shown interest to undertake desi bird rearing as supplementary farming. Now, the farmer increasing the strength of Farm.
Horizontal spread	:	The good managerial practices followed by the desi bird farmer have created awareness among farming community. Many no.of farmers/Rural Womens are visiting the farm regularly and adopting the practices in their farm.
Employment Generation	:	It has created an employment opportunity for women in the houses

9. COMMODITY INTEREST GROUP (CIG)

Title	:	FARMING COMMODITY INTEREST GROUP (CIG)
Background	:	Famers of R.Pudupatty village. Small, Margin and landless Livestock farmers. So they were rearing non descriptive local goats. These goats are reared under semi extensive system. The goats are maintaining thro grazing with poor supplements of concentration. The goat famers do not leave any intuitions support for production & marketing in addition they do not have any collective bargaining aspects.
Interventions	:	Facilitated to farmers and backward linkages, capacity building activities /for adoption of improved technologies such as slatted floor, improved goat breeds, concentrated feeding and fodder cultivation linkages with financial institution.
Process	:	The goat rearing famers of R. Pudupatty village were mobilized as goat rearing commodity interest groups. These groups are given on and off campus training programme , exposure visit and field line demonstration programmes. The group has been motivated to mobilize group savings and distribute the savings as small one for purchase of goats, feed ingredients and other fodder seeds. In addition group savings has been utilized for establishment of rural input mart for supply of needful input for goat rearing at the doorstep of members house hold. This rural mart selling feed, feed ingredients first aid veterinary drugs and fodder seeds.
Technology	:	(1) Slatted floor for goat farming (2) Concentrate feed (40%grain,30%cakes,25%rice bran,2% salt and 1% Mineral Mixture.)(3) Promotion of fodder Cultivation (co-4, Hedze Lucerne & Tree fodders), Supplementation of Mineral block.
Impact	:	Around one lakh per month value of sales for feed. Feeds I) Cattle feed: 60 kg/bag. Total sales of bag 53. Purchasing rate – Rs.670 Sales rate – Rs.700 Gaining Rate-Rs.30 II) Calf feed: 20 kg X 50 Purchasing rate – Rs.280 Sales rate – Rs. 300 Gaining Rate-Rs.20 III) Goat feed -20 kg bag/61 bags Purchasing rate – Rs.280 Sales rate – Rs. 300Gaining Rate-Rs.20 IV) Groundnut cake: 10 kg bag/78 bags Purchasing rate – Rs.260 Sales rate – Rs. 280 Gaining Rate-Rs.20 V) Soya cake: 1 kg/Rs.24 Total sale of soya cakes-54 kgs Purchasing rate/10 kg – Rs.240 Sales rate/10 – Rs. 260 Gaining Rate- Rs.20 VI) Rice bran: 20 kg/bag. Purchasing rate 340; sales rate 360; gaining rate 20; total sale of rice bags -50 bags.
Employment generation: It has generated employment for rural youth and women		

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

S.No	Title of the innovative technology	Plants supplied through PPP Model	Number of plants sold	Amount realized(Rs.) during March 2011
A	Public Private Partnership (PPP) model project with	Mango-6 months old approach grafted plants		
1		Variety-Alphonso	16	750.00
2		Variety-Bangalora	5	250.00
3		Variety-Imampasand	19	900.00

4	farmers for production of elite planting material for fruit crops, Flower and Ornamental plants.	Variety-Salem bangalora	23	1150.00
5		Variety-Bangalora	5	250.00
6		Variety-Neelum	4	200.00
7		Variety-Mulgoa	13	650.00
8.		Variety-Sendura	102	5100.00
B		Guava-6 months old layers		
9		Variety-Allahabad	7	280.00
10		Variety-Lucknow 49	17	510.00
C.		Acid lime and Oranges-6 months old budded plants		
11		Acid lime seedling var.local	22	1100.00
12		Sweet orange-Sathukudi	18	1440.00
13		Mandarin orange-Kamala orange	19	1520.00
14		Pummelo-Bumblimos	3	240.00
D.		Sapota-6 months old grafted plants		
15		Variety-PKM 1	18	720.00
E.		Jack - 6 months old budded plants		
16		Variety-Palur 1(PLR1)	20	1600.00
17		Variety-Pechiparai (PPI-1)	-	-
F.		Fig- 6 months old cuttings / layers		
18		Variety-Timla fig	2	200.00
G.	Papaya-3 months old seedling			
19	Variety-Co2	13	255.00	
H.	Clove- 3 months old seedling			
20	Variety- Local	-	-	
21	Public Private Partnership (PPP) model project with farmers for production of Fodder seeds	Desmanthus (Hedge Lucerne)	1358.00	6,11,100.00
22		Fodder Seeds- CoFS-29	135.00	40,500.00
		Total	1734	6,64,555.00

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

S.No.	Crop / Enterprise	ITK Practiced	Purpose of ITK
1	Hand Operated Milking machine	To reduce the drudgery in Milking the dairy animals especially for small scale farmers (1-3 Animals) the machine used	1) Clean Milk production. 2) Time Consumption. 3) Reduction of Drudgery in Milking. 4)To Prevent Mastitis

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

- Identification of courses for farmers/farm women
- Rural Youth
- In-service personnel

1) One to One Personal contact with the farmers during their visit to KVK for attending training programme, Purchase of Planting material, Seeds, Livestock and Poultry inputs, Seminar and Conference.

2)Based on the farmers representatives request for training during Extension Functionaries meeting, Convergence, CIG, Farmers Club meeting

3) As for as Livestock & Poultry Sector is concerned based on the Season, prevalence of Endemic disease and Market demand the training programme will be fixed

4) Based on our own experiences on summer crop, Crops suitable for Northeast monsoon period are identified and training will be given.

5) Most of the trainings are in conjunction with OFT and FLD programme of KVK.

10. G. Field activities -NIL

- i. Number of villages adopted- NIL
- ii. No. of farm families selected- 15 groups.
Name of the Farm families:
1. Vadugampalayam Puthur Goat rearers club (Also enrolled under NABARD Farmers Club)
 2. Chenbhagam Sheep Rearers club
 3. Annai Therasa Cattle rearing club
 4. Pachudiyapan patty puthur goat rearers club
 5. Mahalakshmi Goat rearers club
 6. Sri Vinayaga Goat rearers club
 7. Sri Murugan Goat rearers club
 8. Sree Mariamman Goat reares club
 9. Monchanur Goat rearers Club.
 10. Kariponki Jaan Bharatha Rathna Thiru Rajiv Gandhi Goat Rearers club
 11. Arasu Goat Rearers club
 12. Shenbiyan Farmers club
 13. Muthukappatty Goat Rearers club
 14. Kogulam Goat Rearers Culb
 15. Kogulam Goat Rearers Culb
- iii. No. of survey/PRA conducted –Nil

10.H. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab : Equipments Purchased

1. Year of establishment : 2011
2. List of equipments purchased with amount :

Sl. No	Name of the Equipment	Qty.	Cost
1	Electronic Weighing Balance	1	4000
2	Wheel Barrow	1	4444
3	Data processing unit	1	24330
4	pH meter	1	7800
5	Conductivity meter	1	8800
6	Hot air oven	1	7200
7	RO unit	1	17470
8	Nitrogen analyzer	1	322188
9	Electronic Weighing Balance	1	61000
10	Ultra Pure water unit	1	280000
11	Flame Photometer	1	50800
12	Lab furniture	1	68778
13	Double beam UV spectrometer	1	343190
	Total		1200000

Details of samples analyzed so far since establishment of SWTL: Lab is to be established during 2011-12

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

Details of samples analyzed during the 2010-11: NIL

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

10.I. Technology Week celebration

Period of observing Technology Week: From 03-12-2010 to 04-12-2010
 Total number of farmers visited : 2445
 Total number of agencies involved : 15
 Number of demonstrations visited by the farmers within KVK campus : 151

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

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
Paddy	135	74	35000/ha	55000/ha
Sorghum	42	85	26000/ha	34000/ha
Hybrid Maize	37	85	60000/ha	72000/ha
Groundnut	45	78	75000/ha	86000/ha
Pulses	28	90	45000/ha	52000/ha
Cotton	35	81	75000/ha	98000/ha
Fodder	128	92	30000/ha	150000/ha
Hybrid vegetable cultivation techniques.	760	60	43,000/acre	82,000/acre
Introduction of Turmeric variety Alleppey supreme with Precision farming techniques.	272	5	1,20,000/acre	4,10,000/acre
Incubator	450	30%	Rs. 150/10 Hatching eggs	Rs.240/10 Hatching eggs
Dairy	1875	60%	Rs 32/animal	Rs 50/animal
Sheep	388	80%	Rs 2720/animal	Rs 3520/animal
Goat	1221	90%	Rs 3200/animal	Rs 4800/animal
Desi birds	1073	60%	Rs.130/kg	Rs.150/kg
Quail	291	45%	Rs.16/Quail	Rs.21/Quail
Turkey	389	50%	Rs.450/No.	Rs.600/No.
Duck	16	60%	Rs.3.5/Egg	Rs.4/Egg
Pig	395	55%	Rs.3600/Pig	Rs.4800/Pig
Commodity Interest Group	350	62%	-	-
Rural Mart	220	26%	Rs.280/bag feed	Rs.310/Bag feed

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)

Agronomy:

1. Green fodder cultivation for sustainable Livestock production

Green fodder is essential for feeding of Livestock for economic production since it is a cheap and good source of several nutrients. Deficiency in feed and fodder is identified as one of the major constraints in achieving the desired level of livestock productivity. The shortages in dry fodder and green fodder are 21.8 and 61.5% compared with the requirements of 560 and 1006 million tons respectively for the current livestock population in India. In order to overcome this ever-increasing demand of fodder, farmers should adopt scientific cultivation techniques of fodder production.

In Namakkal district there is a high demand for fodder seeds/ slips for quality fodder production. In this background, our Kendra regularly conducts On and Off campus training programmes, demonstrations on fodder cultivation techniques and supply of quality seeds/slips. Also our Kendra organizes exposure visits to research station to acquire first hand information about the cultivation techniques.

Demo units at KVK, Namakkal

Sl.No	Crop/variety	Area (Acre)	Produce
1.	Fodder Sorghum – CoFS 29	0.40	135 Kg
2.	Hedge Lucerne	0.20	42 Kg
3.	CN grass (Co 4)	0.5	1.2 lakhs Setts

Salient Achievements

- ❖ Number of farmers benefited
 - I. Fodder sorghum (CoFS 29)
 - Farmers trained /Benefited : 453
 - No. of farmers cultivating : 321
 - Farmers doing seed production : 9 Nos.
 - II. Hedge Lucerne
 - Farmers trained / Benefited : 138
 - No. of farmers cultivating : 122
 - Farmers doing seed production : 7 Nos
 - III. CN Grass (Co 4)
 - Farmers trained / Benefited : 243
 - No. of farmers cultivating : 105
 - Farmers doing setts production : 2 Nos
- ❖ Introduction of multi cut fodder sorghum CoFS – 29 replacing the existing sorghum variety Co–4. Through KVK, Namakkal 400 Kg of fodder sorghum has been supplied to 453 nos of farmers
- ❖ CN grass Co- 4 replacing the existing variety Co- 3. So far 105 farmers benefited by supplying 1,20,000 nos of setts.

Fodder seed production farmers list

Sl.No	Address of the farmer	Mobile	Enterprise / Crop	Area (Acre)
1	N Muthusamy, Unniyur, Trichy Dt	9367182899	CoFS – 29	0.40
2	Mr Palanisamy, Unniyur, Trichy Dt	-	CoFS -29	0.20
3	N Sekar, Thottiyam Trichy Dt.	043260254913	CoFS -29	0.20
4	K P Ragunathan, Kallichettipatty, Ponneri Post Namakkal.	9486037210	CoFS -29 & Hedgelucerne	0.50
5	R Vellapan, Thirumalaigiri	9943717562	CoFS -29	0.40
6	V Nagesh, Mullukruchi Rasipuram, Namakkal.	9442308639	CoFS-29 & Hedgelucerne	0.50
7	Mr Chinnusamy, Periyur, Namakkal.	04286 280078	CoFS -29	0.25
8	P. Muthusamy, Unjapalayam P.Velur, Namkkal.	9952477577	CoFS -29 & Hedgelucerne	0.50
9.	A.Selvaraj, Unjapalayam P.Velur, Namkkal.	9443253580	CN grass-Co4	0.50
10.	M.Sabir Ahmed, Mullukurichi, Rasipuram , Namakkal- Dt	9486764772	Hedge Lucerne	0.50
11.	Mr. S. Sambasivam Kaalichettipatti Namakkal - Dt	--	Hedge Lucerne	1.00
12.	P.Kuppusamy S.K. Pudur Mohanur Namakkal.	9942741275	CoFS 29	0.65

Horticulture**2. Popularization of Hybrid Tomato cultivation in Namakkal district**

Introduction:

Tomato is the most popular vegetable grown in Namakkal district. The area and production of vegetables in Namakkal district was about 20,200 ha and 49,065 MT respectively in 2006-2007. (Source – Area and Production Of Horticultural Crops, Assistant Director Of Horticulture, 2006-2007) Out of this 20,200 ha, Tomato occupies in an area of 850 ha. 60% of tomato arrives from Valayapatti, Sevinthipatti and Rasipuram village of Namakkal District. In Valayapatti village tomato is cultivated in area of 200 acres with the productivity of 6 tonnes/acre. Most of the farmers cultivating PKM 1 variety of tomato. Due to poor management practices (Viz., Nursery management practices, Use of age old seedlings and lack of knowledge on recent production techniques) the farmers obtained low yield.

Problems and solutions:

Previously farmers raised the tomato seedlings by using raised nursery bed with a size of 12 feet length, 3 feet breadth and 15 cm height. Totally 6 to 7 beds (2.5 cent area) are required to produce 1-acre seedlings. By this technology, the farmers attained only 60-70% germination. After that 10-15% loss occurred during transplanting due to damaging of root portion.

By keeping the mortality of seedlings (10-15%) in raised nursery bed, Protray nursery model unit of 3 cent area with a production capacity of 40,000 seedlings/month has been constructed at KVK premises by utilizing revolving fund scheme. Main objective of this unit is to give hands on training very effectively, provide quality vegetable seedlings to the needy farmers, and transfer the technology to the farming community. We produced and supplied 61,018 numbers of hybrid tomato seedlings to 176 nos of farmers from various parts of Namakkal district. This Protray nursery techniques is used in the following ways

- Production of quality seedlings
- Independent area for each seed
- Improve seed germination and minimizes wastage
- Uniform ,healthy & early maturity
- Easy handling and cheaper transportation
- Better root development and less damage
- Good main field establishment and crop stand
- Minimized seedling mortality & damping off
- Farmers able to purchase exact number of healthy seedlings grown under net houses and need not take effort to raise their own nursery.

Hybrid seedlings are produced through 98 celled Protrays with using decomposed and sterilized coco peat as a growing media, under 50% shade net house. From this technology, we able to produce pest free, healthy and vigorous seedlings within 30 days after sowing and attained 95% germination. Seedlings produced through protrays having good field stand compared to other method of nursery raising.

KVK Intervention

By keeping the above mentioned problems, KVK ,Namakkal is decided to organise the following On , Off campus and Sponsored training programmes, farmers tour, Conducted Front line demonstration on yield enhancement through use of hybrid seedlings in tomato to acquire skill and knowledge about production aspect of hybrid tomatoes.

Impact of Training activities.

Number of farmers benefited	: 191
Number of advisory service given	: 47
Number of Extension Literatures distributed	: 256
Extension literatures published	: 05
Radio Talk given	: 02

List of Farmers established Hybrid Tomato Cultivation unit and also involved in the Implementation of Front line Demonstration on Yield enhancement through use of hybrid seedlings in tomato.

Sl. No	Name and address of the farmer	Hybrid	Contact number	Enterprises
1.	Thiru.M.Periyasamy Thipbramahadevi Valayapatti (post), Namakkal-District	Padmavathy	9843421885	Hybrid tomato cultivation.
2.	Thiru.K.Natarajan Thimmanayakanpatti Rasipuram (Taluk) Namakkal -District	Padmavathy	04287249203 9442668087	Hybrid tomato cultivation.
3.	Thiru.N.Neelakandan Rajapalayam Karkoodalpatti (Post) Rasipuram (Taluk) Namakkal -District	Lakshmi	04287-246531	Hybrid tomato cultivation.
4.	Thiru.C.Ghanasekaran Rajapalayam Karkoodalpatti (Post) Rasipuram (Taluk) Namakkal -District	Lakshmi	04287-246325	Hybrid tomato cultivation.
5.	Thiru.R.Velusamy Keelparali Parali (post) Namakkal -District	Padmavathy	9443365477	Hybrid tomato cultivation.
6.	Thiru.M.Subramani Keelparali Parali (post) Namakkal -District	Padmavathy	9943604994	Hybrid tomato cultivation.
7.	Thiru.R.Thangavel Pilikkal palayam Paramathy velur Namakkal -District	Padmavathy	04268 255877	Hybrid tomato cultivation.
8.	Thiru.M.Subramanian 4/9,Naduthuru Bodinayakanpatti Namakkal -District	Padmavathy	9486688078	Hybrid tomato cultivation.
9.	Thiru.R.K.Ramasamy Rettayampatti village Valayapatti village Namakkal -District	Padmavathy & Lakshmi	9843207700	Hybrid tomato cultivation&Protray nursery.
10.	Thiru.V.Ramadoss Mettupatti Valayapatti (post) Namakkal -District	Lakshmi & Padmavathy	-	Hybrid tomato cultivation.
11.	Thiru.F.Akeel Ahmed Vettampadi ,Namakkal	All hybrids	9791539162	Protray nursery
12.	R.Muthusamy 1/14,Pudhu veethi Nallipalayam (post) Namakkal	Padmavathy	04286-275285	Hybrid tomato cultivation.

Vertical Spread of technologies

To farmers-Supplied Hybrid tomato seedlings

To Progressive farmers-Techniques on Protray and recent production techniques

To Extension functionaries-Latest technical Know-how

Horizontal Spread of technologies

By different intervention of KVK, Namakkal, the farmers update the technologies and implemented the same to their field. Previous year (2006-2007) only 30 acres of land is utilized for hybrid tomato cultivation. In this year (2007-2008) the area under tomato cultivation is extended up to 200 acres. Protray technology also popularized to the neighbouring villages.

Salient Achievements

Number of farms established: 176

Number of Hybrid Tomato seedlings supplied: 61,018

Conclusion:

Because of the participation of various training on tomato, and Protray nursery techniques, farmers change their cultivation practices slowly. First the farmers produced/bought the seedlings through protray nursery and followed recommended package of practices. So the farmers got the yield potential of 30 tonnes/acre and got premium price.

3. Production of Mango grafts

Introduction

Expansion of area under fruit crops by the way of establishing orchard is highly required in order to step up the production and productivity of fruit crops in Namakkal district. Establishment of an orchard is a long term investment and the availability of quality planting material is the foundation on which an orchard is built.

Technological Problems of the District

More area under Bangalora, Neelum and local varieties of mango which fetch low price in the market.
The existing mango orchards are 30 – 40 years old and are become unproductive.

Causes Identified

1. Non availability of planting materials of elite varieties such as Alphonso, Imam Pasand, Banganapalli, Salem Bangalora etc.,
2. Varietal mix up of planting materials while purchasing from non reliable sources.
3. Inadequate for supplying planting materials
4. Prioritization of the problems to be solved through Revolving Fund activities.
5. Supply of planting materials of elite varieties of Mango

Impact of the technology

Vertical Spread of technologies

During the training programme and regular advisory services on cultivation of fruit crops beneficiaries are taken to demo units.

Number of farmers benefited

Through on campus training - 31 Nos
Through advisory services - 35 Nos
Sale of mango grafts - 2826 Nos

Horizontal Spread of technologies

The vegetative performance of the epicotyl grafts of mango varieties in the field is being observed and the same is spread to the neighboring farmers.

Number of orchards established : 12 Nos

Name and Address of the farmers established orchard

S.No	Name of the farmer	Address	Contact Number
1.	N. Veeramani	S/o Nalliyappan, Merkuthottam, Chinnathambipuliyur (PO), Namakkal .	9443971525
2.	S. Nallathambi	S/o Subramanian, Chettikkadu, Chinnathambipuliyur (PO), Namakkal .	9443971525
3.	K.S.Venkatachalam	Athimarathur Kattuvalavu, Modamangalam (PO), Thiruchengode,Namakkal.	9842940421
4.	C. Gunasekaran	C/o Kailasam, Pachapalayuthur (TK), Chithalanthur (PO) Thiruchengode, Namakkal – 637 211.	9788691601
5.	P. Sivagnanam	191, Gandhi Nagar colony, Sirumalai (PO), Thiruchengode, Namakkal – 637 209	04288 286366
6.	C. Rajendran	S/o Chinnappan, Pudur, Kumaramangalam (PO), Thiruchengode, Namakkal	9942971006
7.	K. Sengottuvelu,	S/o Kaliyannagounder, Nasuvankadu, Thiruchengode (PO), Namakkal	9976145445
8.	K.Sekar	S/o Karuppannan, Rengapalayam, Irukkur (PO), Paramathy velur, Namakkal.	9843120926

9.	R. Murugesan	S/o Ramasamy, Samuthirapalayam, Kumaramangalam (PO), Thiruchengode, Namakkal.	9942315767
10.	N. Somasundaram	S/o Nallaiyagounder, Pannipillakkadu, Chindampalayam, Rajapalyam (PO), Thiruchengode, Namakkal	9965712377
11.	P. EzhilSelvan	Malar Homeopathy Clinics, 131, ASM Complex, Opp. Nethaji Street, Main Road, Namakkal	9443265902
12.	S. Kumar	P. 37, Vivekanada Nagar, Uraiyur, Trichy – 3	9842497373

Mango grafts produced through epicotyls technique is getting strong ground in the place of approach grafts. The grafts have been planted and in vegetative stage. The economic benefits will be revealed after full bearing stage.

Animal Husbandry

4. Goat Rearing: A Technological option for resource poor farmer for sustainable livestock development

Agriculture in Namakkal is characterized by an economic symbiosis of crop and livestock production. Majority of the farmers are landless, small and marginal farmers as similar to other areas of India. Livestock rearing has been the single major supplementary occupation. For the past few years the crop husbandry has been subjected to market speculations and weather uncertainty. During these crisis period livestock played a role of “cope up mechanism” to overcome crisis through generation of additional income and rural employment. Among the animal husbandry activates Goat rearing is one of the livelihood option being practiced. The full potentiality of this trade has not been capitalized and returns were not maximized due to unavailability of recent technologies and unreach of scientific practices.

In the above background intervention of existing goat farming system with relevant technologies and scientific practices may improve and maximize profits. In this context, our Kendra regularly conducts training programmes, demonstrations on use of chaff cutter and use of mineral blocks, advisory services, exposure visits to University Livestock farms and progressive farmer’s field.

Number of farmers benefited

Through 8 on campus training on Goat Farming -	727	Nos
Through advisory services -	335	Nos
Sale of Hand book on goat -	1829	Nos

Vertical Spread of technologies

Based on direct exposure during the training or advisory services 36 intensive goat units has been established in Namakkal District and 9 units in adjoining districts

Horizontal Spread of technologies

After visualizing the returns from established farms from progressive farmers, the local farming community has started to replicate the model across the Namakkal district and also in Namakkal district.

5. Providing livelihood options for rural households through rearing of desi birds in Namakkal of Tamil Nadu

Introduction

In the rural context in India, livestock and poultry rearing is one of the income generating livelihoods for poorest of the poor. Tamil Nadu seizes a pride place in Indian scenario for its outstanding performance in modern Layer and Broiler breeds. Namakkal district in Tamil Nadu is well known for its poultry industries, accounting for a bulk of supply of poultry products to neighbouring states and countries. In reality, Namakkal produces about 65% of the egg output of Tamil Nadu. In recent days, all rural and peri-urban poultry markets are flooded with Desi birds or its eggs as people currently yearn for such meat and eggs because of its superior table qualities and taste. To meet the market demands, rural poor are imposed to establish desi bird units in small or large scale. Rural households in Namakkal district are no exemption to this and it is the prime time to explore and disseminate recent technical know-how in rearing of desi birds or country chicks.

Considering the importance and need of rearing desi birds, our Kendra regularly conducts training programmes on such topics. Also our Kendra has established a desi bird demo unit with a capacity of 60 desi birds. This demo unit acts as model farm to the visiting farmers and also the farm is utilised to conduct various demonstration on feed preparations, feeding, watering, vaccination and deworming techniques

Impact of desi bird rearing

Number of farmers benefited

Through 12 on/off campus training on Desi bird training -	674	Nos
Through advisory services -	278	Nos

Vertical Spread of technologies

To farmers – Eggs and parent birds are supplied

To progressive farmers – Techniques on vaccination and deworming

To extension functionaries – Latest technical know – how

Horizontal Spread of technologies

Farmers were made aware about the desi bird rearing techniques through training programs and advisory services. By this, our Kendra helped around 25 farmers to establish desi bird unit in Namakkal district and about 10 farms in neighbouring district.

Salient achievements

Number of farms established	: 35 Nos
No. of farmers benefited	: 952 farmers
No. of farmers / students visited	: 1068
Number of Extension Literatures distributed	: 952
Popular article published (In Tamil)	: 1

**LIST OF FARMERS ESTABLISHED DESI BIRD UNIT
(FLOCK SIZE MORE THAN 200 Nos)**

Sl.No	Name and address of the farmer	Contact No.	Flock Size (In Nos)	Remarks
1.	Mr. K.P. Thangavel Koonur Kandampalayam Namakkal – 637 207.	94430 25464	5000	Hatches eggs from private hatchery
2.	Mr. K.P. Raghunathan Kalichettipatti Ponneri Post Namakkal – 637 203.	94426 25504	250	Incubator with a capacity of 250 eggs
3.	Mr. V.Sasikumar Oruvandur Pudur Mohanur, Namakkal – 637 015.	9360516960	300	Semi Intensive system of rearing
4.	Mr. Chinnusamy Periyur, Thummankurichi Namakkal – 637	04286- 280078	250	Hatches eggs with brooding hens
5.	Mr. G.M. Subramani Ganapthpalayam Oruvandur, Namakkal – 637 015	9842772684	500	Separate brooder and Grower house
6.	M.Vijayakumar 9/202, Yelur Road Sevagoundampalayam Kolathupalayam Namakkal – 637 019.	9443058430	200	Prepares own feed for his poultry
7.	Mr. K.Suresh Kidaram, Oruvandur Namakkal – 637 019.	94286-25148	200	New entrepreneur
8.	Mr.K. Eswaran Uddupam, Pudansanthai Namakkal – Dt	9865504774	250	-do-
9.	Mr. R.Sivakumar Siviyampalayam Namakkal - Dt	9944950646	200	-do-
10.	Mr.K.Muthusamy Maliankalipatti Mohanur, Namakkal – 637 015.	9842098914	250	-do-
11.	Mr.M.Dinesh L.94 Koottapalli Colony Koottapalli Post Tiruchengode – TK Namakkal – 637 214.	9865188776	200	-do-
12.	Mr. K.Arul Karattupalayam Subiahpuram Vennandur Post Namakkal 637 505.	994247652	250	Semi intensive system of rearing.

Fisheries

6. Composite Fish Culture Technologies,

Impact of Training activities.

During various training programme and regular advisory services on carp farming, beneficiaries are taken to demo units.

Number of farmers visited	: 279
Number of farmers benefited	: 410
Number of advisory service given	: 264
Number of Extension Literatures distributed	: 272
Popular article published	: 2
Radio Talk given	: 01

Vertical Spread of technologies

Based on direct exposure during the training and advisory services, 35 carp ponds has been established in Namakkal District.

Sl.No	Name and address of the farmer	No. of ponds
1.	Mr.Arokiasamy, Poyeri	02
2.	Mr.Gandhi, Oolapalayam	03
3.	Mr. Natesan, Chinnakarasupalayam	02
4.	Mr. PeriaAnannan, Mamundi Agragaram	04
5.	Mr.Nagarajan, Modamangalam	02
6.	Mr. Gandeewan, Kothamangalam, Jedarpalayam	06
7.	Mr. Kailasanathan, Mullukurichi	04
8.	Mr. Balasubramanian, P.Velur	03
9.	Mr. Balakrishnan, Ellaikattuputhur	03
10.	Mr. Babu, Erumaipatti	01
	Total	30

Horizontal Spread of technologies

After visualizing the returns from established carp farms from progressive farmers, the local fish farming community has started to replicate the model across the Namakkal district

Salient Achievements

Total number trainings conducted	: 13
Total number of farmers benefited	: 410
Number of farms established	: 31

There are 410 numbers of farmers were benefited. Out of which, 31 numbers of farms were established by the beneficiaries. Technological problems in carp farming such as microbial blooms in fish ponds and use of conventional feeds for feeding was solved. The aquaculture demonstration pond established at this Kendra will serve as model fish pond unit and eye opener to take up composite fish culture technology both vertical and horizontal spread of technologies in the cauvery basin of Namakkal Dt (Starting from Jedarpalayam to Mohanur which covers the 70 km length

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

PART XII – LINKAGES**12.A. Functional linkage with different organizations**

Name of organization	Nature of linkage
Department of Animal Husbandry, Namakkal	NADP Subsidiary scheme (Animal husbandry component) implementation NADP Mineral mapping Popularization of various services of Animal husbandry department to farming community
Aavin, Namakkal	NADP Subsidiary scheme (Animal husbandry component) implementation NADP Mineral mapping
Indian Bank, Kabilarmalai Block, Namakkal	Financial Service linkages for CIGs for Goat and Dairy activities
Union Bank, Mallasamuthiram, Namakkal	Financial Service linkages for CIGs for Sheep rearing activities
NABARD, Namakkal	Linkage of farmers groups for benefit of Nabard farmers club scheme
Central Institute for Post Harvest Engineering and Technology, Ludhiana.	Supply of Banana comb cutter.
Central Poultry Development Organisation, Hassergghata Bangalore	Purchase of Poultry birds.(Aseel Cross,Khaki Campbell Ducks)
Southern Regional Research Centre (Central Sheep and Wool Research Institute) Mannavanur, Kodaikanal	Purchase of Bharat Merino Rams and Guiding the farmers for Exposure Visits.
NIMBKAR, Thaltan, Maharashtra	Purchase of Boer Goat and Guiding the farmers for Exposure Visits.
Seed Production Unit, Indian Agricultural Research Institute, New Delhi.	Supply of vegetable seeds
TNAU Precision farming, Dharmapuri	Exposure visit for farmers
Department of Olericulture, TNAU, Coimbatore.	Conducting MLT on Vegetable crops.
Department of Olericulture, KAU, Vellayanikara.	Supply of vegetable seeds.
Precision Farming Development Centre, TNAU, Coimbatore.	Conducting Precision Farming Training for Horticultural crops.
National Research Centre For Banana (NRCB), Trichy	Exposure visit for farmers
Department of Horticulture, Namakkal	Collection of District Profile on Horticultural crop production
National Horticultural Research & Development Foundation, Dindigul	Field visit & Supply of Onion seed material
Tapioca and Castor Research Station, Yethapur	Supply of Planting material
Jain Irrigation, Udumalpet.	Drip and Tissue Culture, Poly house
Indian Institute of Spices Research, Calicut.	Supply of seed materials for spices.
Central Tuber Crops Research Institute, Thiruvananthapuram.	Supply of seed materials for tuber crops.
Indian Institute of Horticultural Research, Bangalore.	Supply of seed materials for horticultural crops and exposure visit.
Grow more Biotech, Hosur.	Supply of Tissue culture banana saplings.
Nagarjuna Drip irrigation.	Supply of Drip accessories.
Department of Agriculture, Namakkal	Conducting Farmers Training at village level, jointly with Farmers training centre, Namakkal
Vazhnthu kattuvom Project, Namakkal	Training people below poverty line on livestock farming.
Department of Agri business and Marketing, Namakkal	Marketing of Value added products
Department of Agricultural Engineering, Namakkal	Linkage of farmers on farm Mechanization
Agricultural Technology Management Agency, Namakkal	To get the Fund for Exposure Visits & Researchable Issue projects

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.)
ATMA Researchable Issue Scheme	November 2010	ATMA, Namakkal District	Rs.1,50,000

Scheme Details:

Sl. No.	Title of the project	Amount in Rs.
1.	Drip fertigation in Maize and sugarcane for yield maximation	20,000
2.	Assessment of Agrisilvipastoral system (Trees+Crops+Pasture/ Animals) with livestock integration	10,000
3.	Assessing the yield performance Cumin variety Gujarat cumin (GC2) in Kollihills of Namakkal district	20,000
4.	Assessing the performance of Parasitoids for the control of Mealy bug in Tapioca	30,000
5.	Assessment of crossbred pigs performance rearing under fodder and concentrates feeding	25,000
6.	Evaluation of dual purpose chicken as a replacement of backyard poultry	20,000
7.	Evaluation of low cost milking machine with pulsater suitable small scale dairy farmers	25,000
Total		1,50,000

Other Schemes:

Sl. No.	Title of the project	Amount in Rs.	Funding Agency
1	"Development of expert system from crop and Animal enterprises".	Rs. 35.00 lakhs	NRCWA, ICAR Bhubhaneswar
2	"Financial aid to Coconut Nursery"	Rs. 2,00,000	Coconut Development Board, Ministry of Agriculture, Cochin.
3	Establishment of Banana fibre Extration unit	Rs. 76,000/-	NABARD, Chennai
4	Establishment of Azolla unit	Rs. 56,000/-	NABARD, Chennai
5	Improving facilities in the Uzhavan Unavagam functioning in the Uzhavar Sandhai, Namakkal	Rs. 4.07 lakhs	NABARD, Chennai
6	PPP Model for fodder seed products and supply	--	Self financing project of KVK
7	Public Private Partnership (PPP) model project with farmers for production of elite planting material for fruit crops, Flower crops and Ornamental plants.	-	Self financing project of KVK
8	Front Line Demonstration on Maize under ISOPOM for 2010-11	Rs.19,800/-	ICAR
9	National Initiative on drought resilient agriculture	Rs.30.25 lakhs	ICAR

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?

- Identification of Agro Ecological situations in Namakkal district.
- Organization of participatory appraisals in AES.
- Data collection through participatory appraisal.
- Review and sharing of collected information's.
- Preparation of plan for various activities based on SREP
- Analysis of data collected under SREP and drafting of SREP.

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	1)ATMA – - General Body Council meeting	4	1	-
		2) District ATMA Action Plan 2010-11 meeting	1	1	
02	Research projects	ATMA Researchable Issue Scheme	7	7	As Details given above.
	Training programmes	Title: 1)Recent production techniques in Horticultural crops and value addition techniques 2)Improved production techniques in vegetable crops 3)Bio control methods for the management of pest and disease in vegetable crops 4) System of Rice intensification techniques 5) Goat, sheep and dairy farming 6) Goat farming 7) Layer Farming 8) Desi Birds Farming	8	8	All 8 Trainings Funded By ATMA at the cost of Rs.32,000
04	Demonstrations	-	-	-	-
05	Extension Programmes				
	Kisan Mela	-	-	-	-
	Technology Week	-	-	-	-

	Exposure visit	Outside the District: TNAU Farmers day exhibition Central Sheep Wool Research Institute, Kodaikkanal University Research Farm, Chennai and LRS, Kattupakkam Within District: Abi Goat Farm, Krishna Poultry Farm, SS.Agrovtech Broiler farm	14	17	-
	Exhibition	Seminar cum exhibition on organic farming	1	1	Conducted on 20-08-2010 at KVK,Namakkal. Total No.of Participants - 713.
	Soil health camps	-			
	Animal Health Campaigns	-			
	Others (Pl. specify)	-			
06	Publications				
	Video Films	-			
	Books	-			
	Extension Literature	Fodder Production, Livestock rearing.	-	-	240 Literatures distributed
	Pamphlets	-			
	Others (Pl. specify)	-			
07	Other Activities (Pl. specify)	-	-	-	-
	Watershed approach				
	Integrated Farm Development				
	Agri-preneurs development				

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

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 - NIL

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

12.F. Details of linkage with RKVY -NIL

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

Action taken

- Presently Daily Market Information through Mobile services is given to Namakkal district farmers through TNAU Agri portal.

Month	No. of SMS sent	No. of farmers to which SMS was sent	No. of feedback / query on SMS sent
March 2011	217	200	-

PART XIII- PERFORMANCE OF INFRASTRUCTURE IN KVK

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

Sl. No.	Demo Unit	Year of establishment	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety/Breed	Produce	Qty.	Cost of inputs	Gross income	
1	Minor millets	2010	5 cents	Thenai- CO (Te) 7,Samai- CO (Sa) 4,pani varagu- CO (PV) 5,kuthiraivali- Co.2	Seed	8 kg	150	250	New varieties
2	Fodder	2008	0.80	CN Grass CO4	Setts	-	-	-	Demo unit
			0.70	Guinea grass- Co3	Setts	-			Demo unit
			0.30	Fodder sorghum	Seeds	-			Demo unit
			0.10	Stylo	Seeds	-			Demo unit
			1 cent	Kolukkatai grass	Rooted slips	-			Demo unit
			0.13	New soundal.	Seeds	-			Demo unit
	Protray unit	2008	2 cent	Lakshmi	Hybrid Tomato seedlings	6185	1520	5692.00	-
				Kirthi,Vijay	Hybrid Brinjal seedlings	5664			
				Priyanka,In dhra	Hybrid Chillies seedlings	790			
				Pawas	Hybrid Cauliflower seedlings	360			
				Harirani	Hybrid Cabbage seedlings	566			
	Coconut seedling production	2009	0.30	West coast tall Cowghat orange dwarf	saplings	7500 nos 420 nos	75,000 6,300	2,00,000 Under growth	Suitable for poly bag nursery
	Tree saplings production	2008	0.2	Neem , Pungan, Vagai, Peltoforum Tamarind.	seedlings	100000	50,000	1,25,000	Sales and demo unit
	Coconut plantation	2007	1.15 ac	West coast tall	4 th year plant				Demo unit
	Agro forestry	2007	0.5 ac	Teak, Cassurina, Red sandal, Subabul, Throne less Bamboo	-	-	-	-	Demo unit
	Azolla unit	2010	4 cent	Azolla pinnata, Azolla microphylla	Seed culture	55 kgs	Rs. 250	Rs.2750	Demo unit
	Mango	2006	1.14 ac	Alphonso, Imama Pasand, Banganapalli, Salem Bangalora, Rumani, Mulgoa.	Progeny block	-			Sapling Production
	Sapota	2006		PKM – 1	Progeny block	40 nos.	2500	--	Progeny block
				PKM-2					
				PKM-3					
				PKM 4					
	Amla	2006	NA-7	Progeny block	20 nos	1500	--	Progeny block	
			Krishna						
			Kanchan						
			Chakiya BSR-1						
	Date palm	2007		Makdhumian, Sukri, Bhuri and Muscat		46 Nos.	Demonstration unit		
	Mango sapling production	2008-2010		Salem Bangalora,	Epicotyl grafted saplings	5000 seedlin	25,000		Seedlings under sales

				Bangalora, Alphonso, Mulgoa and Imampasand		gs			
Sheep and Goat	2006	220	Tellicherry, Kanni x Tellicherry, Tellicherry	Goats	35	3200	112000	Demo unit	
	2006	198	Boer cross	Goats	10	3200	32000	Demo unit	
	2007	228	Mecheri, NARI SWARNA	sheep	38	2800	106400	Demo unit	
Desi birds	2007		Namakkal chicken	chicken	1300	56405	5882	Demo unit	
Quail	2007		Namakkal layer, Namakkal broiler	chicken	77	2415	58820	Demo unit	
Turkey	2008		Small white Beltsville	chicken	5	2575	515	Demo unit	
Piggery	2010		Large white Yorkshire x ND	piglets	2	1000	1000	Demo unit	
Duck	2010		Khaki campbell (Egg breed variety)	Ducklings Eggs.	200	1000	250	FLD Demo unit	
Fisheries	2010	0.4 ac	Guppy	Seeds	50 nos	Rs.50	Rs.570	Demo unit	
			Platy	Seeds	50 nos	Rs.50			
			Molli	Seeds	20 nos	Rs.20			
			Gold Fish	Seeds	8 nos	Rs.100			

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

Name of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty. (kg)	Cost of inputs	Gross income	
Cereals									
1.Paddy	15.11.10	25.03.11	5 cent	Co.49	Seed	150	2000	7500	Through SRI techniques
	15.11.10	25.03.11	5 cent	Co.50	Seed	120			
	15.11.10	25.03.11	2 cent	CoRH.3	Grain	50			
2.Sorghum	26.08.10	07.01.11	80 cent	Co 30	Seed	150	1800	4500	
3. Cumbu	25.08.10	14.12.10	62 cent	CoCu 9	Seed	150	1200	2000	
4.Ragi	28.08.10	25.12.10	28 cent	Co Ra14	Seed	80	800	1800	
Pulses									
1.Green gram	19.11.10	31.01.11	16 cent	Co 7	Seed	40	700	2,800	
2. Black gram	19.11.10	31.01.11	30 cent	Co 6	Seed	150	1200	10,500	
3.Red gram	13.09.10	25.02.11	50 cent	Co 7	Seed	250	4500	17,500	
Oilseeds									
1.Groundnut	15.11.10	05.4.11	40 cent	Co 6	Seed	221	4200	8,840	
2.Castor	04.09.10	27.01.11	25 cent	YRCH 1	Grain	80	1200	4000	
Fibers									
1.Cotton	20.12.11	Picking started	38 cent	RCH 2 ,Surabi	Kapas	250	3000	15000	
Spices & Plantation crops									
Floriculture									
Tuberose	30.01.2008	20.04.2010	2 cent	Prajwal	Seed Corms	242 kg	1800	9700	
Ornamental plants	23.02.08	-	3 cent	Crotons,Creepers,Climbers Hibiscus,Neerium and flowering plants	Planting material	501	760	3516	
Fruits									
Papaya	12.12.2009	26.12.2010	1 cent	Co2	Seed	955 g	150	395	
Vegetables									
Bitter gourd	24.08.10	5.11.10	10 cent	Arka Harit	Seed	4.8 kg	1650	4160	
Bottle gourd	24.08.10	7.11.10		Arka Bahar	Seed	220 g			
Pumpkin	14.09.10	5.2.11		Arka Suryamuki	Seed	1.8 kg			
	14.09.10	7.2.11		Arka Chandan	Seed	2 kg			
Ash gourd	14.09.10	7.2.11		Co2	Seed	500 g			
Ribbed gourd	18.09.10	21.2.11		Arka sumeet	Seed	1 kg			
Tomato	13.08.10	18.2.11		PKM 1	Seed	900 g		630	
Bhendi	13.09.10	14.02.11	5 cent	Arka Anamika	Seed	11.905 kg	720	3702.5	

PART XIV - FINANCIAL PERFORMANCE

14.A. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Branch code	Account Name	Account Number	MICR Number	IFSC Number
With Host Institute	Union Bank of India	Chennai	3329	SB Account	332902012099002	600026015	UBIN0533297
With KVK	Union Bank of India	Namakkal	5488	SB Account	54880210009866	--	UBIN0554880

14.B. Utilization of funds under FLD on Cotton (Rs. in Lakh)- NIL

S. No	Items / Head	Opening balance if any	Remittance by ZPD VIII Bangalore	Actual expenditure debitable to Council A/C	Closing balance if any	Remarks
1	Production Technology – 50 ha					
	a. Essential inputs					
	b. POL, hiring vehicle, Kisan melas, printed materials, reports, demonstration boards					
	Total					
2.	Farm Implements – 75 ha					
	a. New equipments					
	b. Contingencies					
	Total					

14.C. Utilization of KVK funds during the year 2010-11 (Rs. in lakh)

S. No.	Particulars	Sanctioned	Released	Expr. incurred
1	Pay & Allowances (for 2010-11)	45,00,000	45,00,000	53,76,044
	Pay and allowances (6 th CPC arrears from 1.1.2006 - 31.3.2011)	63,14,000	63,14,000	21,81,898
2	Traveling allowances	1,50,000	1,50,000	1,50,000
3.	Contingencies			
a	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	2,42,000	2,42,000	2,42,000
b	POL, repair of vehicles, tractor and equipments	1,75,000	1,75,000	1,75,000
c	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	90,000	90,000	90,000
d	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	65,000	65,000	65,000
e	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	2,00,000	2,00,000	2,00,000
	FLD on Special pulses programme	40,000	40,000	40,000
f	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	68,000	68,000	68,000
g	Training of extension functionaries	10,000	10,000	10,000
h	Maintenance of building	25,000	25,000	25,000
i	Extension activities	30,000	30,000	30,000
j	Farmers Field School	25,000	25,000	25,000
k	Chemicals and glasswares for soil an water testing labs	2,50,000	2,50,000	2,50,000
l	Petty items – such as pestle and mortar, cloth bag, plastic jar, tray, gas connection for flame photometer and other use, test tube holder, soil sampling auger, etc., for soil and water testing lab.	1,00,000	1,00,000	1,00,000
m	Soil and plant sample processing and storage facility	50,000	50,000	50,000
n	Library (Purchase of assets like books & journals)	5,000	5,000	5,000
	Total contingencies	14,00,000	14,00,000	14,00,000
	TOTAL (A)	1,23,64,000	1,23,64,000	91,07,939

Non-Recurring Contingencies				
1	Works		0	0
2	Equipments & Furniture			
	a. Furniture & furnishing	2,00,000	2,00,000	2,00,000
	b. Portable Carp hatchery	2,25,000	2,25,000	2,25,000
	c. SWTL	10,00,000	10,00,000	10,00,000
	d. Lab equipments for fisheries	2,00,000	2,00,000	2,00,000
	e. Rotavator	25,000	25,000	25,000
	f. Incubator	50,000	50,000	49,800
3	Vehicle		0	0
4	Library (Purchase of assets like books & journals back volumes)	10,000	10,000	10,000
TOTAL (B)		17,10,000	17,10,000	17,09,800
C. REVOLVING FUND				
				0
GRAND TOTAL (A+B+C)		1,40,74,000	1,40,74,000	1,08,17,739

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

Year	Opening balance as on 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st April of each year
April 2008 to March 2009	10,932	3,51,293	3,55,546	6,679
April 2009 to March 2010	6,679	8,51,346	7,96,880	61,145
April 2010 to March 2011	61,145	12,00,791	11,80,183	81,753

15. Details of HRD activities attended by KVK staff during 2010-11

Name of the staff	Designation	Title of the training programme	Institute where attended	Dates
Dr.B. Mohan	Programme Coordinator	KVKs Interface meeting	NASC Complex, ICAR, New Delhi	26.04.10 & 27.04.10
Dr.P. Vikramachakravarthi	Subject Matter Specialist (Veterinary Pharmacology & Toxicology)	Orientation cum training programme for the newly recruited Assistant Professors	TANUVAS, Chennai	03.05.10 – 30.05.10
Dr.S. Aanand	Subject Matter Specialist (Fisheries)	Orientation cum training programme for the newly recruited Assistant Professors	TANUVAS, Chennai	03.05.10 – 30.05.10
Mr.S. Alagudurai	Subject Matter Specialist (Agronomy)	Technology demonstration for harnessing pulses production technology	MPKV, Rahuri, Maharashtra	04.06.10 & 05.06.10
Dr.B. Mohan	Programme Coordinator	KVK partnership with NABARD	Bankers Institute for Rural Development (BIRD), Lucknow	28.06.10 – 01.07.10
Dr.K. Senthilkumar	Subject Matter Specialist (ARG&O)	Development and Management of Agriculture programmes for AIR, Doordarshan and Print media	MANAGE, Hyderabad	05.07.10 – 09.07.10
Dr.S. Aanand	Subject Matter Specialist (Fisheries)	Integrated Farming Systems	KVK, Kattupakkam	10.11.10 – 12.11.10
Dr.B. Mohan	Programme Coordinator	Leadership for innovation in Agriculture	Indian Institute of Management, Lucknow	18.10.10 – 22.10.10
Mrs.Daisy	Farm Manager	Protected cultivation in Horticulture crops	TNAU,Coimbatore	28-03-2011-29-03-2011
K.Selvarani	Assistant	Database management, Web content and web hosting development	TNAU,Coimbatore	29-03-2011-31-03-2011
Mr.S. Alagudurai	Subject Matter Specialist (Agronomy)	Weather based advisory services	TNAU,Coimbatore	30-03-2011-31-03-2011

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

SUMMARY FOR 2010-11

I. TECHNOLOGY ASSESSMENT

Summary of technologies assessed under various crops

Thematic areas	Crop	Name of the technology assessed	No. of trials
Integrated Nutrient Management	Maize	Drip fertigation in maize for yield maximization	10
Varietal Evaluation	Pine apple	Mauritius variety of pine apple as an alternative to local variety in Kolli hills	13
Integrated Pest Management			
Integrated Crop Management	Fodder	Mixed pasturemodel for weaned kids under irrigated conditions	10
Integrated Disease Management			
Small Scale Income Generation Enterprises			
Weed Management			
Resource Conservation Technology			
Farm Machineries			
Integrated Farming System			
Seed / Plant production			
Value addition			
Drudgery Reduction			
Storage Technique			
Others (Pl. specify)			
Total			33

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	Livestock	Genetic improvement of Mecheri Ewes crossing with Bharat Marino Rams	6
	Poultry	Khaki Campbell ducks as an alternative to desi ducks	10
Feed and Fodder management			
Nutrition Management			
Production and Management	Livestock	Estrous synchronization using controlled Internal drug release (CIDR) in anestrus cows	10
Others (Pl. specify)			
Total			26

Thematic areas	Enterprise	Name of the technology assessed	No. of trials
Production management	Fisheries	Sea Bass (Lates Calcifer)culture in fresh water	10
	Fisheries	Production of Stunted carp fingerlings	5

Summary of technologies assessed under various enterprises

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			
Weed Management			
Resource Conservation Technology			
Farm Machineries			
Integrated Farming System			
Seed / Plant production			
Value addition			
Drudgery Reduction			
Storage Technique			
Others (Pl. specify)			
Total			

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

		Popularization of New guinea grass Co (Gg) 3 for Coconut garden	-						1.No.of Cutting/year 9-10 2.Good performance under shade (10-12cuttings/year) 3.No.of Tillers at 70 days 45	7-8 8-10 30	46500	355000	308500	7.63	41000	230000	189000	5.60
Guniea grass				25	2 h	355	230	54.3										
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

Livestock

Category	Thematic area	Name of the technology demonstrated	No. of KVKs	No. of Farmer	No. of Units	Major parameters		% change in major parameter	*Economics of demonstration (Rs.)				*Economics of check (Rs.)				
						Demonstration	Check		Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Dairy	Health Management	Prevention of Mastitis in dairy animals by using of Saaf kit	-	50	50	Application of Saff Kit Spray on the teat of Mastitis prone animal	Application of Cold water washing on the teat and udder.	400 ml of milk increased. MBRT increased from 40 mts to one hour 10 mts	-	Rs.96.00	Rs.102.40	Rs 6.40	1:1.06	1.75 Paisa/animal	1.80 Paisa/animal	0.5 paisa/animal	1:1.02
Rural Livestock Mart	Entrepreneurship development	To Sale of Livestock input materials		2	2	To Sale of Livestock input materials – Cattle feed @Rs.670/bag	Cattle Feed@ Rs.730/bag	Low cost, Easy availability of feed	-	Rs.670	Rs.700	Rs.30	1:1.06	-	-	-	-
Poultry	Entrepreneurship development	Popularization of community incubators among farming community	-	129	1	Hatching the eggs using Incubator	Hatching the eggs using Desi Bird	Hatchability percentage 20 %	-	Rs.1200/100 eggs	Rs.1860 (62 percent hatching , Rs.30/Chick Cost)	660/100 eggs	1:1.55	Rs.900/100 eggs	Rs.1200 (40 percent hatchability)	300,	1.1.33
Rabbitry	Disease Management	Popularization of Fowl Pox Vaccination in Desi birds	-	100	10	Fowl Pox Vaccination to Desi birds	No Vaccination	12 percent increase in Weight gain	-	Rs.3.70 paisa/Bird	Rs.30.00/ Bird	Rs.26.30/ Bird	1:8.1	-	-	-	-
Piggery	Breed management	Popularization of cross bred Large White Yorkshire x ND Pigs among farming community	-	70	4	Weight gain,Disease resistance,Low fat yield	Less weight gain,Disease outbreak.	33.33 % Weight gain	-	Rs.3600	RS.5200	Rs.1600	1:1.44	Rs.2900	Rs.4000	Rs.1100	1.1.37
Sheep and goat	Health Management	Anti-cestodal efficacy of Praziquantel in goat kids	-	120	10	Praziquantel b Administration to goat kids	No Deworming	Weight gain 20 %	-	Rs.3/kids	Rs.20/kid	Rs.17/Kid	1:6.6	-	-	-	-
Duckery																	
Total				471	77												

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

** BCR= GROSS RETURN/GROSS COST

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						

Carp fry and fingerling rearing										
Composite fish culture										
Hatchery management and culture of freshwater prawn										
Breeding and culture of ornamental fishes	1	-	-	-	4	16	20	4	16	20
Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
Others (pl.specify)										
Production of Inputs at site										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production	1	130	20	150	-	-	-	130	20	150
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	4	30	13	43	-	-	-	30	13	43
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
Others (pl.specify)										
Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (Pl. specify)										
TOTAL	23	1017	454	1471	34	64	98	1051	518	1569

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops	1	7	-	7	-	-	-	7	-	7

Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements	1	35	5	40	-	-	-	35	5	40
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying	4	65	45	110	-	35	35	65	80	145
Sheep and goat rearing	4	115	15	130	-	-	-	115	15	130
Quail farming	1	19	2	21	-	-	-	19	2	21
Piggery	3	61	2	63	-	-	-	61	2	63
Rabbit farming	2	45	2	47	-	-	-	45	2	47
Poultry production	10	245	15	260	8	1	13	257	16	273
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl.specify)										
TOTAL	26	592	86	678	8	36	48	26	592	86

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming	1	17	-	17	-	-	-	17	-	17
Seed production	2	70	20	90	-	-	-	70	20	90

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	2	60	-	60			60	-	60
10.b.	Animal Disease Management									
10.c.	Fisheries Nutrition									
10.d.	Fisheries Management									
10.e.	Others (pl.specify) Poultry Farming	2	25	4	29			25	4	29
	Small Scale livestock and poultry farming (International Training Programme)	1	7	6	13			7	6	13
11.	Home Science									
11.a.	Household nutritional security									
11.b.	Economic empowerment of women									
11.c.	Drudgery reduction of women									
11.d.	Others (pl.specify)									
12	Agricultural Extension									
12.a.	Capacity Building and Group Dynamics									
12.b.	Others (pl.specify)									
	Total	10	244	10	254			244	10	254

Details of sponsoring agencies involved

1. NABARD, Namakkal
2. ATMA (Coimbatore, Vellore, Kannur District)
3. Ministry of External Affairs

Details of vocational training programmes carried out for rural youth

S.No.	Area of training	No. of Courses	No. of Participants									
			General			SC/ST			Grand Total			
			Male	Female	Total	Male	Female	Total	Male	Female	Total	
1	Crop production and management											
1.a.	Commercial floriculture											
1.b.	Commercial fruit production											
1.c.	Commercial vegetable production											
1.d.	Integrated crop management											
1.e.	Organic farming											
1.f.	Others (pl.specify)											
2	Post harvest technology and value addition											
2.a.	Value addition											
2.b.	Others (pl.specify)											
3.	Livestock and fisheries											
3.a.	Dairy farming											
3.b.	Composite fish culture											
3.c.	Sheep and goat rearing											
3.d.	Piggery	1	16	2	18	-	-	-	16	2	18	
3.e.	Poultry farming											
3.f.	Others (pl.specify) Value addition	1	7	7	14	-	--	-	7	7	14	
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	1	28	-	28	-	-	-	28	-	28	
4.f.	Sericulture											
4.g.	Mushroom cultivation											
4.h.	Nursery, grafting etc.											
4.i.	Tailoring, stitching, embroidery, dying etc.											
4.j.	Agril. para-workers, para-vet training											
4.k.	Others (pl.specify)											
5	Agricultural Extension											
5.a.	Capacity building and group dynamics											
5.b.	Others (pl.specify)											
	Grand Total	3	51	9	60	-	-	-	51	9	60	

V. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services	-	757	-	757
Diagnostic visits	1	70		70
Field Day	7	110	17	127
Group discussions	-			
Kisan Ghosthi	-			
Film Show	4	83	3	86
Self -help groups				
Kisan Mela				
Exhibition	11	7511	172	7683
Scientists' visit to farmers field	20	71		71
Plant/animal health camps	1	34		34
Farm Science Club	16	219		219
Ex-trainees Sarmelan	-			
Farmers' seminar/workshop	-			
Method Demonstrations	5	240	10	
Celebration of important days Pongal Vizha	9	650	15	665
Special day celebration				
Exposure visits	7	219	1	220
Others (pl.specify)				
Total	81	9964	218	9932

Details of other Extension Programmes

Particulars	Number
Electronic Media	

Extension Literature	1692
News Letter	600
News paper coverage	62
Technical Articles	9
Technical Bulletins	-
Technical Reports /Manual	5
Radio Talks	3
TV Talks	19
Animal health amps (Number of animals treated)	1(80)
Others (pl.specify)	
Total	2390

VII. PRODUCTION OF SEED/PLANTING MATERIAL
VIII. Production of Seeds by the KVKs

Crop category	Name of the crop	Name of the variety (if hybrid pl. specify)	Quantity of seed (Kg)	Value (Rs)	Number of farmers	
Cereals	Paddy	Co.48	53	1325	17	
		Co.49	150	3750	47	
		Co.50	120	3000	40	
	Sorghum	Co.30	76	1900	15	
		Cumbu	Co.9	101	2525	33
		Ragi	Co.14	31	775	12
		Groundnut	TMV.13	165	6600	17
Oilseeds	Groundnut	Co.6	221	8840	25	
		Black gram	Co.6	210	14700	48
Pulses	Redgram	-	3.9 kg	275	5	
	Vegetables	Bhendi seed	Arka Abhay	11.905	3702.5	46
Bush type Lab Lab Arka Jay		Arka Vijay	13.23	1275	68	
Vegetable Cowpea seeds		Arka suman	3.35	710	23	
Bitterguard seeds		Arka Harit	4.8	1920	17	
Bottle gourd		Punjab long	220g	370	16	
Tomato seeds		PKM 1	900g	630	27	
Greens seed		Local variety	600g	420	9	
Annual Moringa		PKM 1	1.972	5205	41	
French beans seed		Arka komal	5.02	1357	65	
Flower crops	Tuberose corms	Prajwal	242	9700.75	21	
Fodder crop seeds	Fodder Sorghum	CoFS.29	14.250	4275	10	
	Fodder Cowpea	CoFC.8	8.250	618	7	
	Stylo	-	4.500	675	2	
	Subabul seed	-	7.9	1672.50	18	
	Chithagathi	-	11.8	3205	62	
	Agathi	-	1.25	375	7	
	Azolla	-	50	2500	50	
Fruit Crops	Papaya	Co2	955g	395	72	
Earthworm	-	<i>Eisenia foetida</i>	1.55	390	4	
Total			1512.67	83085	824	

PART IX – PRODUCTION OF SEED, PLANT AND LIVESTOCK MATERIALS**Production of planting materials by the KVKs**

Crop category	Name of the crop	Name of the variety (if hybrid pl. specify)	Number	Value (Rs.)	Number of farmers
Commercial	Coconut	West coast Tall	5960	238400	500
Vegetable seedlings	Tomato	Lakshmi	6185	3290	56
	Chillies	Priyanka& Indira	5664	2882	42
	Brinjal	Keerthi, Sachin, Mohini	50	345	5
	Cabbage	Harirani	566	425	2
	Cauliflower	Pawas	360	270	1
	Curry Leaf	Local	6	50	6
Fruits	Pineapple suker	Maurities	1472	7360	13
	Navel	local	2	40	2
	papaya	Co2	7	35	3
	Guava	TRI 1	2	40	1
	Banana Sucker	G9	3	15	1
Ornamental plants	Crotons/Rose/Durantha	-	501	3516	50
	Coleus	-	5	120	5
Medicinal and Aromatic	Ththuvalai	-	12	125	12
	omavalli	-	2	20	1
	-	-	-	-	-
Plantation	-	-	-	-	-
Spices	-	-	-	-	-
Tuber	Tapioca setts	Co4 Sree Padmanabha	689	3446	17
Fodder Crop Saplings	Cumbu Napier grass	Co.4	52800	13200	65
	Guinea grass	Co.3	4302	2151	32
	Kalyanamurungai	-	56	280	12
	Puthiya soundal	-	58	290	7
Forest Species	-	-	-	-	-
Tuber crops	-	-	-	-	-
Fodder:	Desmanthus (Hedge Lucerne)	-	1358.00	6,11,100.00	557
	Fodder Seeds	CoFS-29	135.00	40,500.00	557
Total			78702	276300	833

Production of Bio-Products

Bio Products	Name of the bio-product	Quantity	Value (Rs.)	No. of Farmers
		Kg		
Bio Fertilizers	Vermicompost	982	3928	25
	Earthwarm	10.30	2575	20
Bio-pesticide				
Bio-fungicide				
Bio Agents	Acerophagus papayae	3710 No's	-	34
Others	-			
Total		-	6503	79

Production of livestock and related enterprise materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers
Goat	Telichery	27	64044	12
Sheep	Mecheri	15	38488	4
Poultry				
Desi bird	Aseel	305	47264	8
Broiler	Colour broiler	6	980	4
Broiler chicks	Cross breed chicks	1391	61560	300
White male chicks	White leghorn	82	22090	12

Japanese Quail	Namakkal layer	24	695	7
Turkey – adult	White beltsvelle and broad breasted bronze	5	2575	40
Turkey - chicks	White beltsvelle	-	3280	9
Others (Pl. specify)				
Desi bird - egg	Aseel	431	1293	40
Japanese Quail egg	Namakkal layer	1824	954	45
Turkey egg	White beltsvelle	74	1110	12
Duck egg	Khaki Campbell	186	744	80
Piggery	Large White Yorkshire	2	9020	1
Fisheries				
Ornamental Fish	Guppy	30	300	15
	platy	22	220	20
Others				
Mineral Mixture	-	1536	76800	1200
Mineral Block	-	663	33150	520
Goat book	-	878	21950	878
Composite fish culture book		224	6720	224
Suscription of Kalnadai Kathir				
	Annual	190	9500	190
	Life	18	7200	18
Suscription of Meenvalakathir				
	Annual	51	2550	51
	Life	5	2000	5
Subscription of Uzhavarin Valarum velanmai				
	Annual	74	5550	74
	Life	4	3000	4
Subscription for Spice India				
	Annual	10	500	10
	Life	3	600	3
Books	Livestock & Poultry	890	27370	890
DVD & CDs	Livestock & Poultry	247	9940	247
Total		9217	494447	4923

VII. DETAILS OF SOIL, WATER AND PLANT ANALYSIS 2010-11- NIL

Samples	No. of Samples	No. of Farmers	No. of Villages	Amount realized (Rs.)
Soil				
Water				
Plant				
Manure				
Others (pl.specify)				
Total				

VIII. SCIENTIFIC ADVISORY COMMITTEE

Number of SACs conducted -1

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IX. NEWSLETTER

Number of issues of newsletter published -1

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X. RESEARCH PAPER PUBLISHED

Number of research paper published -3

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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.)
3	2	-	15	-

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