ANNUAL REPORT
(2011-12)

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 Collectorate Complex Ramanathapuram Pin Code : 623 503 Tamil Nadu	04567-230250	04567-230250	arsramnad@tnau.ac.in	www.kvkramnad.org

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

Address	Telephone		E mail	Web Address
	Office	Fax		
Tamil Nadu Agricultural University, Coimbatore - 641 003	0422-6611233	0422-6611433	dee@tnau.ac.in	**www.tnau.ac.in**

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr.V.Ganesaraja,Ph.D.,	27, Perumal Koil South Mada Street Madurai-625 001	94439 55444	ganesh.vraja@yahoo.co.in vetriganesh.raja@gmail.com

1.4. Year of sanction: April-2004

1.5. Staff Position (as 31st March 2012)

Sl. No	Sanctioned post	Name of the incumbent	Designation	M / F	Discipline	Highest Qualification (for PC, SMS and Prog. Asstt.)	Pay Scale	Basic pay +GP	Date of joining KVK	Permanent /Temporary	Category (SC/ST OBC/ Others
1	Programme Coordinator	Dr.V.Ganesaraja	Professor	M	Agronomy	M.Sc (Agri) Ph.D.,	37400-67000+ GP 10000	68970	02.03.2011	Permanent	OBC
2	Horticulture	Dr.P.Thukkaiyannan	Assistant Professor	M	Agronomy	M.Sc (Agri) Ph.D.,	15600 - 39100 + GP6000	26370	30.12.2009	Permanent	SC
3	Agro Forestry/ Pl.Bd. Seed Sci & Tech	Dr.A.Anuradha	Assistant Professor	F	SS&AC	M.Sc (Agri) Ph.D.,	15600 - 39100 + GP6000	26370	30.12.2009	Permanent	OBC
4	Agrl. Engineering	Dr.C.Kavitha	Assistant Professor	F	Horticulture	M.Sc (Agri) Ph.D.,	15600 - 39100 + GP6000	26370	30.12.2009	Permanent	OBC
5	Pl. Protection (Ag.Ento/Pl.Path)	Dr.C.Vijayaraghavan	Assistant Professor	M	Agrl. Entomology	M.Sc (Agri) Ph.D.,	15600 - 39100 + GP6000	26370	31.12.2009	Permanent	SC
6	Home Science	Dr.V.Meenakshi	Assistant Professor	F	Home Science	M.Sc (Agri) Ph.D.,	15600 - 39100 + GP6000	26370	13.01.2010	Permanent	OBC
7	Agronomy/Ag.Extn.	Dr.G.Anand	Assistant Professor	M	Agrl. Extension	M.Sc (Agri) Ph.D.,	15600 - 39100 + GP6000	26370	01.02.2010	Permanent	SC
8	Prog-Asst (Lab Tech.)/T-4	Th..C.Karunaithasan	Programme Assistant(Tech)	M	Agronomy	M.Sc., (Agri)	9300-34800+ GP4400	14110	25.02.2011	Permanent	OBC
9	Prog Asst (Comp)/ T-4	Tmt.G.Namagirilakshmi	Programme Assistant(Comp)	F	Computer Science	B.Sc., (Comp.Sci)	10230-34800 + GP4400	16000	10.12.2008	Permanent	Others
10	Programme Assistant/ FarmManager	Tmt. M. Jeyenthimala	Farm Manager	F	Agriculture	B.Sc., (Agri)	10230-34800 + GP4400	16480	06.06.2007	Permanent	SC
11	Assistant	Tmt. C.Anitha	Superintendent	F	-		9300 – 34800 + GP4800	16390	19.11.2010	Permanent	SC
12	Jr. Stenographer	Th. N. Gunaseelan	Typist	M	-		5200-20200 + GP2400	9930	22.10.2007	Permanent	OBC
13	Driver	Th. A.Paulraj	Driver	M	-	-	5200-20200 + GP2400	9420	01.07.2010	Permanent	SC

14	Driver	Th.V.Ponnar	Foreman	M	-	-	9300-34800+ GP4200	14560	17.06.2011	Permanent	OBC
15	Supporting staff	Tmt. K.Rukkumani	MTSP	F	-	-	2500-5000 + GP500	3190	16.09.2010	Permanent	SC
16	Supporting staff	Tmt. T.Dhanavalli	MTSP	F	-		2500-5000 + GP500	3190	16.09.2010	Permanent	SC

1.6. Total land with KVK (in ha) : 16.80 ha

S. No.	Item	Area (ha)
1	Under Buildings	0.60
2.	Under Demonstration Units	0.40
3.	Under Crops	3.60
4.	Orchard/Agro-forestry	0.20
5.	Others	1.60
6.	ARS, Paramakudi	10.40
	Total	**16.80**

1.7. Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR - KVK	An amount of Rs 18.0 lakh has been allotted and deposited for execution.					
2.	Farmers Hostel	-	-	-	-	-	-	-
3.	Staff Quarters	-	-	-	-	-	-	-
4.	Demonstration Units	ICAR – KVK	31.03.05	2153	1.87 lakhs			
	1. Goat Shed	ICAR – KVK	31.03.12	24 m^2	8.00 Lakhs	-	-	-
	2. Mushroom Production demo units and Food Processing Unit	ICAR – KVK	31.03.12	26m^2		-	-	-
5	Fencing	-	-	-	-	-	-	-
6	Rain Water harvesting system	-	-	-	-	-	-	-
7	Threshing floor	-	-	-	-	-	-	-
8	Farm godown	-	-	-	-	-	-	-
9								
10								

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Jeep - Bolero-LX	2004	4,96,711/-	1,28090 Km	Running Condition Not fit for long trip.
Two Wheeler - Hero Honda CD Deluxe	2006	38,003/-	32124 Km	In Good Condition
Two Wheeler - Hero Honda Super Splendor	2009	49,987/-	18990 Km	In Good Condition

C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
-	-	-	-

1.8. Details SAC meeting conducted in 2011-12

Sl.No.	Date	Number of Participants	No. of absentees	Salient Recommendations	Action taken
1	01.02.2012	35	2	Conducting Rain shadow experiment for drip irrigation at KVK farm	Action will be taken during 2012-13.
				Popularize KVK Success story in Radio/Press	Action will be taken during 2012-13.
				Popularize Fodder CO(CN) -4 Grass as much as possible	Already popularized
				Send Success story of S.V. Raman, farmer of Siragikottai, Nainarkovil block to Valarum Velanmai	Action will be taken during 2012-13.
				Training on Value addition of Millet	Action will be taken during 2012-13.
				Propose a FLD/OFT on PPP model of Fodder CO(CN)-4 Grass	FLD proposed
				Establishing Slatted Floor Goat Rearing using RF of KVK	Action will be taken during 2012-13.
				Propose a FLD/OFT on Anna-4	FLD on Anna4 completed
				Agro Forestry model to be established at KVK Farm	Action will be initiated during 2012-13.
				Training to Extension functionaries on Harvester Termite	Action will be initiated during 2012-13.
				Training on Dry Fodder preparation	Action will be initiated during 2012-13.
				Fodder Sorghum (CO (FS)-29 may be promoted.	Action will be initiated during 2012-13.
				Promoting Groundnut rich through FLD	FLD proposed
				Module for Post harvest and Value addition.	Action will be initiated during 2012-13.
				Convergence with line department and NGOs and NABARD Farmers club to be made for Trainings	Trainings offered

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.	Rainfed Rice

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

S. No	Agro-climatic Zone	Characteristics
1.	Southern zone	Erratic distribution of monsoon rains

S. No	Agro ecological situation	Characteristics
1.	Ramanathapuram district is situated on the south - eastern coast of the Indian peninsular between 11º & 12º N latitude and 77º 28' & 78º 50' E longitude. Ramanathapuram occupies a total geographic area of 4, 68,957 ha with eleven blocks in seven taluks. This district comprises a population of 2, 60,365 and 8, 75,522 of urban and rural population, respectively	Coastal climate

2.3 Soil type/s

S. No	Soil type	Characteristics	Area in ha
1.	Clay soil	Fine texture, high water holding capacity with water logging	182463
2.	Coastal alluvial soil	Saline	71357
3.	Sandy loam soil	Moderately well drained soil	63602
4.	Alluvial soil	High fertility	43769
5.	Sandy clay soil	Ideal texture	22138
6.	Red soil	High iron and alumina	18390
7.	Sandy soil	Coarse texture, low fertility	7328
		Total	**408957**

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

S. No	**Crop**	**Area (ha)**	**Production (Metric tons)**	**Productivity (kg /ha)**
1.	Paddy	128000	327859	2552
2.	**Millets**			
	Cholam	2117	1825	862
	Cumbu	889	998	1123
	Ragi	1448	1927	1331
	Minor millets	404	181	448
	Total Millets	4858	4571	941
3.	**Pulses**			
	Blackgram	2741	0.0075	275
	Greengram	181	0.0005	250
	Cowpea	727	0.0018	250
	Horsegram	469	0.0011	240
4.	**Oil Seeds**			
	Groundnut	6112	5409	88.5

	Gingelly	1636	661	404
	Sunflower	145	51	351
5.	Sugarcane	231	28644	124
6.	Cotton	2733	6559	2.40 (Bales)
7.	Coconut	7942	1112 lakh nuts	14000
8.	Chillies	16292	13164	808
9.	Coriander	1748	443	254

* Please provide latest data from authorized sources. Statistics annual report 2009-10

2.5. Weather data

Month	Rainfall (mm)	Temperature ^{0} C		Relative Humidity (%)
		Maximum	Minimum	
APR-2011	134.0	32.8	25.32	80.94
May -2011	36.5	33.20	25.89	51.48
June- 2011	0.5	35.34	26.30	47.51
July-2011	16.5	35.55	25.78	61.51
Aug -2011	46.0	34.28	26.03	60.84
Sep-2011	0.5	34.04	25.15	68.42
Oct-2011	475.0	31.41	24.24	65.05
Nov-2011	381.0	28.08	23.58	52.26
Dec-2011	198.0	27.53	22.44	76.40
Jan-2012	11.5	28.32	21.94	70.52
Feb -2012	1.0	28.35	22.07	55.78
March-2012	22.5	32.78	24.62	49.96
Total&Average	**1323**	**31.81**	**24.45**	**61.72**

* 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 - *Crossbred*	58007	-	-
Indigenous	72888	-	-
Buffalo	3468	-	-
Sheep- *Indigenous*	245334	-	-
Goats	236786	-	-
Pigs - *Indigenous*	2821	-	-
Rabbits	412		
Poultry - *Desi*	335526	-	-
Ducks	415	-	
Turkey and others	1311	-	
Category	**Area**	**Production**	**Productivity**
Marine	236.80 km	72281.88 tones	-
Inland	-	7703.410 tones	-

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

2.7 District profile has been **Updated** for 2011-12 Yes / No: No

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& enterprise	Major problem identified	Identified Thrust Areas
1.	Rama nthapuram	Rama nthapuram	Muthnal	Since inception	Paddy	Salinity and sodicity Low yield Blast incidence Non availability of saline tolerant variety Lack of knowledge on cultivation techniques	Management of problematic soils
		Thirupullani	Thinaikulam Nambiyanvalasai Kavalkaranvalasai Shanmugavel - pattinam	2 years	Pulses, Paddy, Chilli Black gram	Flower drop in pulses Non availability of high yielding varieties and Nutrient Deficiency	Nutrient management for pulses & Assessment of different chilli varieties for high yield
		Mandabam	Keelakarai Melamadai Perungkulam	2 years	Cattle& goat rearing	Lack of green fodder, Low milk yield due to lack of green fodder mix	Introduction of CN grass as intercrop
2	Paramakudi	Nainarkoil	Pondiyur	2 years	Banana	-	Nutrient management for Banana
		Paramakudi,	Vilathur	2 years	Chilli, bhendi	Low yield	Introduction of high yielding hybrid to replace private hybrid
		Bogalur	Ariyakudi A.Puttur	2 years	Rice, Cotton, Chilli	Harvester termite, leaf folder,stem borer and sucking pest. Low yield	Integrated Pest management. Introduction of high yielding varieties.

3.	Kadaladi	Kadaladi	Saveriyarpattinam, Saveriyarsamundaram	3 years	Chilli, cotton, coriander	Low yield	Introduction of high yielding varieties to replace local variety
4.	Rameswaram	Rameswaram	Pamban Thangatchimadam	2 years	Fish	Fish drying and fish transport Keeping quality	Post harvest management
5.	Thiruvadanai	R.S.Mangalam	Perumalmadai	2 years	Brinjal	Brinjal red spider mite	Pest incidence
6.	Muthukulathur	Muthukulathur	Michelpattinam	2 years	Millet-Barnyard millet	Unawareness of drought tolerant Barnyard millte variety	Popularization of Barnyard millet

2.9 Priority thrust areas

S. No	Thrust areas
1	Popularisation of high yielding drought tolerant variety
2	Oil seed HYV
3	Management of salt affected soils
4	Integrated Nutrient Management
5	Foliar spraying of nutrient solution and introducing high yielding varieties
6	Farm ponds for rain water harvesting
7	Recycling of farm waste
8	Pest incidence
9	Integration water management
10	Integrated crop management practices
11	High yielding variety / Hybrid introduction

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
6	6	30	30	11	11	113	113

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
58	58	1617	1617	141	141	1985	1985

Seed Production (Qtl.)		Planting materials (Nos.)	
5		6	
Target	Achievement	Target	Achievement
Rice (R)1-120kg	Rice (R)1-120kg	-	-
Anna -4-100kg	Anna -4-100kg	-	-
ADT 45-400kg	ADT 45-400kg	-	-
Paddy Straw-2500kg	Paddy Straw-2500kg	-	-

Livestock, poultry strains and fingerlings (No.)		Bio-products (Kg)	
7		8	
Target	Achievement	Target	Achievement
-	-	Vermicompost - 6400	6400 kg

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

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions										
				Title of OFT if any	Title of FLD if any	Number of Training (farmers)	Number of Training (Youths)	Number of Training (extension personnel)	Extension activities (No.)	Supply of seeds (Qtl.)	Supply of planting materials (No.)	Supply of livestock (No.)	Supply of bio products	
													No.	Kg
1	Mechanized sowing methods	Rice	Poor plant population /dense population due to broad casting by hand	Assessment of Aerobic sowing methods in semi dry rice cultivation	-	1	-	-	-	3.75	-	-	-	-
2	ICM	Cotton	No proper crop management	-	Integrated Crop Management in cotton	1	-	-	-	0.75	-	-	Pseudomonas Horescance	12.57
3	Micronutrient management	Banana	Low bunch weight Uneven filling of hands	Foliar spray of micronutrient in banana		1	-	-	-		-	-	-	-
4	Problem soil management	Paddy	Salinity And sodicity of soil Use of saline water for irrigation	-	ICM for sodic soils	1	-	-	-	0.5	-	-	-	-

5	Nutrient management	Black gram	Flower dropping Low yield	-	Popularization of Pulse wonder for rainfed black gram	2	-	-	-	0.4	-	-	-	-
6	Pest incidence	Brinjal	Mite incidence	Management of red spider mite in Brinjal	-	1	-	-	-	-	-	-	-	-
7	Pest incidence	Rice	Harvested termite incidence	-	Management of harvester termite in rainfed rice	2	-	-	-	-	-	-	-	-
8	Varietal introduction	Groundnut	Low yield	-	Popularization of Groundnut TMV13 in Ramanathapuram District	1	-	-	-	2.75	-	-	-	-
9	Assessment of different chilli varieties for high yield	Chilli	Low yield	Assessment of varietal performance of chilli in Ramanathapuram district	-	3	1	1	Group meetings -1 Booklet – 1	Mundu seeds – 0.024 PMK 1 seeds – 0.015 CO1 Hybrid seeds – 0.0015	-	-	-	-
10	Low yield	Bhendi	Low yield and less income	-	Introduction of bhendi hybrid COBhH1	2	-	-	Group meeting - 1 Booklet-1	0.15	-	-	-	-

11	Low yield	Coriander	Low yield and less income	-	Varietal introduction of coriander CO(CR)4	1	-	-	Group meeting - 1 Booklet-1	0.90	-	-	-	-
12	Nutrient management	Black Gram	Nutrient management	Foliar application of Methylo bacterium for drought tolerance in Black gram	-	-	-	-	Group meetings -1	0.40	-	-	Methylo bacterium Carried based Liquid Based	1.55 lit
13	Post harvest management	Fish	Shorter shelf life	-	Post harvest management of Fish – Mobile Cool Chamber	1	-	-	Booklet-1	-	-	-	-	-
14	Post harvest management	Fish	Shorter shelf life	-	Improved Dry fish processing method to enhance shelf life	1	-	-	Pamphlet- 1	-	-	-	-	-
15	Animal husbandry	Dairy	Infertility & low milk yield	Assesment of area specific mineral mixture in milch cows	-	3	2	-	-	-	-	-	-	-
16	Animal husbandry	Fodder	Non availability of green foder	-	Popularaisation of CN-4 fodder grass	-	-	-	-	-	52000 slips	-	-	-

17	Millets	Crop	Low yield in millets	-	Popularaisation of Barnyard millet Co-2	-	-	-	-	6	-	-	-	-

3.B2. Details of technology used during reporting period

Sl. No	Title of Technology	Source of technology	Crop/enterprise	No.of programmes conducted				No of farmers covered													
				OFT	FLD	Training	Others (Specify)	OFT				FLD				Trainings				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
1	Assessment of Aerobic sowing methods in semi dry rice cultivation	TNAU	Rice	1	-	1	-	2	-	2	1	-	-	-	-	23	9	16	2	-	-	-	-
2	Integrated Crop Management in cotton	TNAU	Cotton	-	1	1	-	-	-	-	-	2	-	9	2	10	-	22	18	-	-	-	-
3	Foliar spray of micronutrient in banana	TNAU, NRCB, IIHR	Banana	1	-	1	-	9	1	-	-	-	-	-	-	18	-	3	-	-	-	-	-
4	Integrated Crop Management for sodic soils	TNAU	Paddy	-	1	1		1	1	-	-	-	-	-	-	15	-	7	-	-	-	-	-
5	Popularization of Pulse wonder for rainfed black gram	TNAU	Black gram	-	1	2	-	6	4	-	-	-	-	-	-	21	15	7	-	-	-	-	-

6	Management of red spider mite in Brinjal	TNAU	Brinjal	1	-	1	-	-	-	4	1	-	-	-	-	-	-	13	24	-	-	-	-
7	Management of harvester termite in rainfed rice	TNAU	Rice	-	1	2	Demo1	-	-	-	-	5	-	15	5	28	4	20	8	-	-	-	-
8	Popularization of Groundnut TMV13 in Ramnad district	TNAU	Ground nut	-	1	1	Field day-1	-	-	-	-	-	-	3	-	28	-	3	-	-	-	-	-
9	Assessment of varietal performance of chilli in Ramnad district	TNAU	Chilli	1	-	5	Demo-2	1	3	1	0	-	-	-	-	84	56	37	35	-	-	-	-
10	Introduction of bhendi hybrid COBhH1	TNAU	Bhendi	-	1	2	-	-	-	-	-	19	1	0	0	-	-	-	-	-	-	-	-
11	Varietal introduction of coriander CO(CR)4	TNAU	Coriander	-	1	1	-	-	-	-	-	15	5	0	0	-	-	-	-	-	-	-	-
12	Foliar Spray of Methylobacterium	TNAU	Black Gram	1	-	-	-	2	3	0	0	-	-	-	-	15	5	8	12	-	-	-	-
13	Insulated Mobile Cool Chamber	CIPHET, Ludhiana	Fish	-	1	1	-	-	-	-	-	10	-	-	-	-	-	-	-	-	-	-	-
14	Improved Dry fish processing method to enhance shelf life	CIFT , Visakha patnam	Fish	-	1	1	-	-	-	-	-	3	-	7	-	-	-	-	-	-	-	-	-

15	Assesment of area specific mineral mixture in milch cows	TANU VAS	Dairy	1	-		2 animal health camp	10	6	12	2	-	-	-	-	42	2	101	37	-	-	-	-
16	Popularaisation of CN-4 fodder grass	TNAU	Fodder	-	1		-	-	-	-	-	4	3	2	1	-	-	-	-	-	-	-	-
17	Popularisation of Barnyard millet Co-2	TNAU	Millet	-	1		-	-	-	-	-	14	5	7	4	-	-	-	-	-	-	-	-

PART IV - On Farm Trial

4.A1. Abstract on the number of technologies assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Integrated Nutrient Management	-	-	1	-	-	1	-	-	-	2
Varietal Evaluation	-	-	-	-	1	-	-	-	-	1
Integrated Pest Management	-	-	-	-	1	-	-	-	-	1
Resource Conservation Technology	1	-	-	-	-	-	-	-	-	1
Total	**1**	**-**	**1**	**-**	**2**	**1**	**-**	**-**	**-**	**5**

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
-	-	-	-	-	-	-	-	-	-	-

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

Thematic areas	**Cattle**	**Poultry**	**Piggery**	**Rabbitry**	**Fisheries**	**TOTAL**
Production and Management	1	-	-	-	-	1
TOTAL	1	-	-	-	-	1

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 (Per trail covering all the Technological Options)
Integrated Nutrient Management	Banana	Foliar spray of micronutrient in banana	10	10	3
	Chilli	Assessment of varietal performance of chilli in Ramanathapuram district	5	5	0.2
	Black Gram	Foliar Spray of Methylo bacterium	5	5	2
	-	-	-	-	-
Integrated Pest Management	Brinjal	Management of red spider mite in Brinjal	5	5	0.6
Resource Conservation Technology	Rice	Assessment of Aerobic sowing methods in semi dry rice cultivation	5	5	3
Total	**5**	-	**30**	**30**	**8.8**

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 (Per trail covering all the Technological Options)
-	-	-	-	-	-

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
Production and management	Cattle	Assessment of area specific mineral mixture in milch cows	10	30
Total			10	30

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
-	-	-	-	-

4.C1. Results of Technologies Assessed

On Farm Trial : 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
Rice	Semi Dry Rice cultivation	Manual sowing method, un uniform population & low yield	Assessment of Aerobic sowing methods in semi dry rice cultivation	5	Mechanical sowing of seeds with aerobic drum seeder and Seed drill	Plant height (cm) T1 T2 T3	 54 57 59	T3 – Sowing semi dry rice by using tractor drawn seed drill gave higher grain yield	Use of tractor drawn seed drill for sowing is easy, labour saving and high yielding	-	-
						No. of tillers T1 T2 T3	 12 12 14				
						Grain yield (kg/ha) T1 T2 T3	 4422 4818 5379				

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. / ha	BC Ratio
13	14	15	16	17	18
T1-Broad casting by hand and ploughing (Farmer's practice)	-	4422	Kg/ha	25,298	2.7
T2-Sowing with aerobic drum seeder and ICM paddy	TNAU	4818	Kg/ha	27,862	2.8

T3-Sowing with tractor drawn seed drill with ICM paddy	TNAU	5379	Kg/ha	32,411	3.0

On Farm Trial : 2

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment
1	2	3	4	5	6	7
Banana	Rainfed/ Supplemental irrigation	Low bunch weight Uneven filling of hands	Foliar spray of micronutrients in banana	10	TO 1 – Spraying of micronutrients viz.,$ZnSO_4$(0.5%),$FeSO_4$ (0.2%),$CuSO_4$ (0.2%) and H_3BO_3 (0.1%)@3rd,5th and 7th MAP (TNAU) TO 2 – Spraying of 0.3% Banana Special @ 4sprays at monthly interval starting from 5th MAP (IIHR) TO 3 – Spraying of 2% Banana Sakthi @ 3sprays at monthly interval starting from 4th MAP (NRCB)	1.Bunch weight 2. Number of hands/bunch 3. Number of fruits / hand 4. Yield/ha 5. B:C ratio

Contd...

Technology Options	Data on the parameter			
	8			
	Bunch weight	Number of hands/bunch	Number of fruits / hand	Yield (kg/ha)
TO 1 – Spraying of micronutrients viz.,$ZnSO_4$(0.5%),$FeSO_4$ (0.2%),$CuSO_4$ (0.2%) and H_3BO_3 (0.1%)@3rd,5th and 7th MAP (TNAU)	20 kg	9	18	4500
TO 2 – Spraying of 0.3% Banana Special @ 4sprays at monthly interval starting from 5th MAP (IIHR)	20.5 kg	10	19	4613
TO 3 – Spraying of 2% Banana Sakthi @ 3sprays at monthly interval starting from 4th MAP (NRCB)	19 kg	8	15	4275

Contd...

Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
9	**10**	**11**	**12**
TO 2 – Spraying of 0.3% Banana Special @ 4sprays at monthly interval starting from 5th MAP (IIHR)	Most of the farmers willing to use Banana Special	-	-

Cond

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
TO 1 – Spraying of micronutrients viz.,$ZnSO_4$(0.5%),$FeSO_4$ (0.2%),$CuSO_4$ (0.2%) and H_3BO_3 (0.1%)@3rd,5th and 7th MAP	TNAU, Coimbatore	4500	Kg/ha	1,25,000	2.25
TO 2 – Spraying of 0.3% Banana Special @ 4sprays at monthly interval starting from 5th MAP	IIHR, Bangalore	4613	Kg/ha	1,36,050	2.36
TO 3 – Spraying of 2% Banana Sakthi @ 3sprays at monthly interval starting from 4th MAP (NRCB)	NRCB, Trichy	4275	Kg/ha	1,01,300	2.00

On Farm Trial: 3

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
Brinjal	Rainfed/ supplemental irrigation	Pest menace	Management of red spider mite in Brinjal	5	Technology option 1 (Farmer's practice)	No of mites /cm^2	13.3	Technology option 3 Gave good control of	Farmers convinced	-	-

					Technology option 2 Two sprayings of dicofol 18.5EC@2ml/l @ 15 days interval		6.3	mite			
					Technology option 3 Two sprayings of Propargite 57EC@2.5ml/l @ 15 days interval		5.3				

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)	-	4308	Kg	59980	2.25
Technology option 2 Two sprayings of dicofol 18.5EC@2ml/l @ 15 days interval	TNAU	4482	Kg	71094	2.73
Technology option 3 Two sprayings of Propargite 57EC@2.5ml/l @ 15 days interval	-	4892	Kg	79480	2.85

On Farm Trial :4

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 need	Justification for refinement

										ed	
1	2	3	4	5	6	7	8	9	10	11	12
Chilli	Rainfed	Low yield	Assessment of varietal performanc e of chilli in Ramanathap uram district	5	T1 – farmers' practice – Cultivation of Local mundu T2- Cultivation of PMK 1 T3- Cultivation of CO1 hybrid	Yield B: C	T1 – 1120 kg/ha T2- 1480kg/ha T3-1210 kg/ha	T2 - performed well in farmers field	The farmers were highly satisfied the yield and quality of the produce	-	-

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) – Cultivation of Local mundu	-	1120	kg/ha	84,000/-	2.60
Technology option 2 Cultivation of PMK 1	TNAU	1480	kg/ha	96,200/-	2.96
Technology option 3 Cultivation of CO1 hybrid	TNAU	1210	kg/ha	60,500/-	1.66

On Farm Trial :5

Crop/ enterpris	Farming situation	Problem definition	Title of OFT	No. of	Technology Assessed	Parameter s of	Data on the parameter	Results of assessment	Feedback from the farmer	Any refin	Justificatio n for

e				trials		assessment				eme nt need ed	refinement
1	2	3	4	5	6	7	8	9	10	11	12
Black gram	Rainfed	Nutrient deficiency	Foliar application of Methylo bacterium for drought tolerance in Black gram	5	T1 – No Drought Management Practices T2- 2% KCL and 100 ppm boric acid spray T3- Seed treatment and Foliar Spray of Methylo bacterium during pre and post flowering stage	Yield B: C	T1 – 550 kg/ha T2- 660kg/ha T3-730 kg/ha	T3 performed well in farmers field	The farmers were highly satisfied	-	-

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) – No Drought Management Practices	-	550	kg/ha	12336	2.27
Technology option 2 2% KCL and 100 ppm boric acid spray	TNAU	660	kg/ha	15940	2.52
Technology option 3 Seed treatment and Foliar Spray of Methylo bacterium during pre and post flowering stage	TNAU	730	kg/ha	18550	2.74

On Farm Trial: 6

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
Dairy	Rainfed	Infertility & low milk yield	Assessment of area specific mineral mixture in milch cows	10	Supplementation with Area specific mineral mixture	Milk yield Onset of first oestrum after calving No. of insemination needed for conception	Milk yield – 10 to 10.2 l/day Onset of first oestrum after calving – 68 to 75 days No. of insemination needed for conception - 2	Supplementation with area specific mineral mixture shows significant results	Farmers were convinced with the performance on supplementation of area specific mineral mixture	No	NA

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) - No / Irregular Mineral supplementation	-	8.4	Litres /day	173	1.33
Technology option 2 - Mineral mixture 30-50g/day continuously for one year from the first day after calving	TANUVAS	9.3	Litres /day	180	1.61
Technology option 3 - Area specific mineral	TANUVAS	10.2	Litres /day	192	1.84

mixture 30 to 50 g/day continuously for one year from the first day after calving					

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

On Farm Trial -1

1	Title of Technology Assessed	:	Assessment of Aerobic sowing methods in semi dry rice cultivation
2	Problem Definition	:	Manual sowing method, un uniform population & low yield
3	Details of technologies selected for assessment	:	T1-Broad casting by hand and ploughing (Farmer's practice) T2-Sowing with aerobic drum seeder and ICM paddy T3-Sowing with tractor drawn seed drill with ICM paddy
4	Source of technology	:	TNAU
5	Production system and thematic area	:	Integrated crop management in paddy under semi dry rice cultivation system
6	Performance of the Technology with performance indicators	:	T3 – Sowing semi dry rice by using tractor drawn seed drill gave higher grain yield
7	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	:	Use of tractor drawn seed drill for sowing is easy, labour saving and high yielding
8	Final recommendation for micro level situation	:	Sowing of paddy seeds under semi dry situation, tractor drawn seed drill can be used for high yield.
9	Constraints identified and feedback for research	:	Availability of tractor drawn seed drill during the very short period of sowing time during the monsoon
10	Process of farmers participation and their reaction	:	Farmer's participation is good in adopting the technology and adopt the technology in the consequent years.

On Farm Trial -2

1	Title of the technology assessed	:	Foliar spray of micronutrients in banana
2	Problem definition Zone	:	Micronutrient deficiency Low bunch weight Uneven filling of hands Low yield
3	Details of technologies for assessment Production System	:	TO 1- Spraying of micronutrients viz.,$ZnSO_4$(0.5%),$FeSO_4$ (0.2%),$CuSO_4$ (0.2%) and H_3BO_3 (0.1%)@3^{rd},5^{th} and 7th MAP TO2 - Spraying of 0.3% Banana Special @ 4sprays at

			monthly interval starting from 5th MAP TO 3 – Spraying of 2% Banana Sakthi @ 3sprays at monthly interval starting from 4th MAP
4	Source of technology	:	Tamil Nadu Agricultural University (TNAU),Indian Institute of Horticulture Research (IIHR), National Research Centre for Banana (NRCB)
5	Production system and thematic area		Rainfed / Supplemental irrigation and Micronutrient management
6	Performance of the Technology with Performance indicators	:	1. Bunch weight - 20.5 kg 2.Number of hands/bunch - 10 3.Number of fruits / hand - 19 4.Yield (kg/ha) - 4613 5.BC ratio - 2.36
7	Feedback, matrix scoring of various technologies	:	Farmers are interested to use Banana special because it increase the bunch weight and number of hands per bunch.
8	Final recommendation for micro level situation	:	Spraying of 0.3% Banana Special @ 4sprays at monthly interval starting from 5th MAP
9	Constraints identified and feedback for research	:	Nil
10	Process of farmers participation and their reaction	:	Farmers are interested to use banana special and satisfied with their yield

On Farm Trial -3

1	Title of the technology assessed	:	Management of red spider mite in Brinjal
2	Problem definition Zone	:	Pest menace
3	Details of technologies for assessment Production System	:	TO 1- In discriminate use of insecticides TO2 - Two sprayings of dicofol 18.5EC@2ml/l @ 15 days interval TO 3 – Two sprayings of Propargite 57EC@2.5ml/l @ 15 days interval
4	Source of technology	:	Tamil Nadu Agricultural University
5	Production system and thematic area		Rainfed cultivation and pest menace

6	Performance of the Technology with Performance indicators	:	1. No of mites /cm^2 – 5.3 2. yield (kg/ha) – 4892 3.BC ratio – 1:2.85
7	Feedback, matrix scoring of various technologies	:	Farmers are convinced to spray Propargite to reduce the mite population
8	Final recommendation for micro level situation	:	Two sprayings of Propargite 57EC@2.5ml/l @ 15 days interval gave good results
9	Constraints identified and feedback for research	:	-
10	Process of farmers participation and their reaction	:	Farmers are interested to use newer Acaricides and satisfied with their yield

On Farm Trial -4

1	Title of Technology Assessed	Assessment of varietal performance of chilli in Ramanathapuram district
2	Problem Definition	Low yield
3	Details of technologies selected for assessment	T1 – Farmers' practice – Cultivation of local mundu T2- Cultivation of PMK 1 T3- Cultivation of CO 1 hybrid
4	Source of technology	TNAU, Coimbatore
5	Production system and thematic area	Rainfed
6	Performance of the Technology with performance indicators	Yield of the local variety, PMK 1 variety and CO1 hybrid chilli were assessed in the farmers fields. PMK1 performed well than local mundu variety and CO 1 hybrid.
7.	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	PMK 1 performed well in farmers field. Yield increase of 32% over local mundu was recorded. CO1 hybrid performed next to PMK 1 in farmers field. Yield increase of 8% over local mundu was recorded.
8	Final recommendation for micro level situation	T2- Cultivation of PMK 1 is suitable to rainfed

		areas of Ramanathapuram district
9	Constraints identified and feedback for research	Nil
10	Process of farmers participation and their reaction	Farmers are willing to cultivate PMK 1 as the yield is higher than local mundu. Market rate of PMK 1 dry pod is on par to that of local mundu. In case of CO 1 hybrid , though the yield is comparatively higher than local mundu, the market price is very less.

On Farm Trial -5

1	Title of Technology Assessed	Foliar application of Methylo bacterium for drought tolerance in Black gram
2	Problem Definition	Nutrient deficiency
3	Details of technologies selected for assessment	T1 – No Drought Management Practices T2- 2% KCL and 100 ppm boric acid spray T3- Seed treatment and Foliar Spray of Methylo bacterium during pre and post flowering stage
4	Source of technology	TNAU
5	Production system and thematic area	Rainfed & Nutrient Management
6	Performance of the Technology with performance indicators	The yield of local and treatments were assessed. The yield of T2 increased to 20 %. the yield of T3 increased to 32 %.
7.	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	T3 performed well in farmers field and the farmers were highly satisfied
8	Final recommendation for micro level situation	Seed treatment and Foliar Spray of Methylo bacterium during pre and post flowering stage.
9	Constraints identified and feedback for research	Nil
10	Process of farmers participation and their	Farmers are willing to spray methylobacterium by observing the results of the assessment

	reaction	

On Farm Trial -6

1	Title of Technology Assessed	Assessment of area specific mineral mixture in milch cows
2	Problem Definition	Infertility & low milk yield
3	Details of technologies selected for assessment	T-1 : Technology option 1 (Farmer's practice) - No / Irregular Mineral supplementation T-2 : Technology option 2 - Mineral mixture 30-50g/day continuously for one year from the first day after calving T-3 : Technology option 3 - Area specific mineral mixture 30 to 50 g/day continuously for one year from the first day after calving
4	Source of technology	Source of technology T-2 & T-3 is TANUVAS
5	Production system and thematic area	Rainfed / Animal husbandry production and management
6	Performance of the Technology with performance indicators	Satisfactory
7.	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	Farmers were satisfied with T-3.
8	Final recommendation for micro level situation	T-3 can be recommended
9	Constraints identified and feedback for research	Nil
10	Process of farmers participation and their reaction	Farmers were convinced and satisfied with T-3

4.D1. Results of Technologies Refined

Results of On Farm Trial

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

Contd..

Technology Refined	Source of Technology for Technology Option1 / Justification for modification of assessed Technology Option 1	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
12	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 following details: Nil

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 2011-12

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	
1	Oilseeds	Rainfed	Oct-2011	Ground nut	TMV 13	-	Varietal introduction	Popularisation of groundnut TMV13 in Ramanathapuram district	1	1	3	-	3	-
2	Pulses	Rainfed	Rabi 2011-2012	Black gram	VBN 5	-	Nutrient management	Popularization of Pulse wonder for Rainfed black gram	2	2	-	10	10	-
3	Cereals	Rainfed	Oct-2011	Rice	ADT 45	-	Pest incidence	Management of harvester termite in rainfed rice	10	10	20	5	25	-
		Supplemental irrigation	Rabi 2011-2012	Paddy	TRY3	-	Management of problematic soils	Intrgrated crop management for sodic soils	2	2	-	2	2	-
4	Millets	Rainfed	Rabi 2011	Barnyard millet	Co-2	-	Production	Co-2 Barnyard millet	2.5	2.5	11	19	30	-
5	Vegetables	Rainfed	Rabi, 2011	Bhendi	-	COBhH1	Introduction of new high yielding	Introduction of Bhendi hybrid COBhH1	2	2	-	20	20	-

							hybrids							
6	Spices and condiments	Rainfed	Rabi, 2011	Coriander	CO (CR)4	-	Introduction of new high yielding varieties	Varietal introduction of Coriander CO(CR)4	4	4	-	20	20	-
7	Fodder	Garden land	Rabi, 2011	Fodder		CN-4	Production	Popularization of Green fodder CN4	1	1	7	3	10	-
8	Fibre	Rainfed	Summer 2012	Cotton	SVPR 2	-	ICM	Adoption of ICM in cotton with the application of COTTON PLUS	5	5	11	2	13	-
9	Others- Fish	Coastal	2011-2012	Fish	Indian Goat Fish	-	Post Harvest Management	Insulated Fish Cabinet	10	10	-	10	10	-
	Fish	Coastal	2011-2012	Fish	Indian Goat Fish	-	Post Harvest Management	Calcium Propionate	10	10	-	10	10	-

5.A. 1. Soil fertility status of FLDs plots during 2011-12

Sl. No.	Category	Farming Situation	Season and Year	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Status of soil			Previous crop grown
									N	P	K	
1	Oilseeds	Rainfed	Oct-2011	Ground nut	TMV 13	-	Varietal introduction	Popularisation of groundnut TMV13 in Ramanathapuram district	L	M	M	Ground nut

2	Pulses	Rainfed	Rabi 2011-2012	Black gram	VBN5	-	Nutrient Management	Popularization of Pulse wonder for Rainfed Black gram	L	M	M	Fallow
3	Cereals	Supplemental irrigation	Rabi 2011-2012	Paddy	TRY 3	-	Management of problematic soils	Integrated crop management for sodic soils	L	M	H	Fallow
		Rainfed	Oct- 2011	Rice	ADT 45	-	Pest incidence	Management of harvester termite in rainfed rice	L	M	M	Rice
4	Millets	Rainfed	Rabi 2011	Millet	Co-2	-	Production	Co-2 Barnyard millet	M	M	L	Millet
5	Vegetable	Rainfed	Rabi, 2011	Bhendi	-	COBhH 1	Introduction of new high yielding hybrids	Introduction of Bhendi hybrid COBhH1	L	L	M	Chilli
6	Spices and condiment	Rainfed	Rabi, 2011	Coriander	CO(CR)4	-	Introduction of new high yielding varieties	Varietal introduction of Coriander CO(CR)4	L	L	M	Cotton
7	Fodder	Rainfed	Rabi 2011	Green fodder	-	CN-4	Production	CN-4 Fodder grass	M	M	L	Coconut / Fallow
8	Fibre	Rainfed	Summer 2012	Cotton	SVPR 2	-	ICM	Adoption of ICM in cotton with the application of COTTONPLUS	90	5	250	Paddy

5.B. Results of Frontline Demonstrations

5.B.1. Crops

Crop	Name of the technology demonstrated	Variety	Hybrid	Farming situation	No. of Demo	Area (ha)	Yield (q/ha)				% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
							Demo			Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
							H	L	A										
Oilseeds	Popularisation of groundnut TMV13 in Ramanathapuram district	TMV 13	-	Rainfed	3	1	16.0	15.0	15.5	14.00	10.7	27405	62000	34595	2.26	26425	56000	29575	2.12
Black gram	Popularization Pulse wonder for rainfed black gram	VBN 5	-	Rainfed	10	2	8.25	6.20	7.03	5.80	30.0	16650	33000	16350	1.98	14700	23200	8500	1.58
Cereals	Management of harvester termite in rainfed rice	ADT 45	-	Rainfed	25	10	36.25	28.45	30.33	23.69	27.98	17507	30330	12823	1.73	18257	23690	5433	1.30
Paddy	Integrated crop management for sodic soils	TRY3	-	Supplemental irrigation	2	2	54.45	41.25	47.85	41.25	24.0	27250	49005	21775	1.80	24625	37125	12500	1.51
Millets	Popularaisation of Barnyard millet Co-2	Co-2	-	Rainfed	30	2.5	14.9	14.5	14.1	9.8	32.2	3800	6200	2400	1.63	2300	3280	980	1.42
Vegetable	Introduction of Bhendi hybrid COBhH1		CO - BhH1	Rainfed	20	2	102.0	87.0	94.5	81.0	16.7	30500	56700	26200	1.85	30500	48600	18100	1.60

Spices and condiments	Varietal introduction of Coriander CO(CR)4	-	CO - (CR)4	Rainfed	20	4	5.1	3.9	4.50	3.7	21.6	20000	40500	20500	2.03	17500	29600	12100	1.69
Fibre crops like cotton	ICM in cotton	SVPR 2	-	Rain fed	13	3	@	@	@	@	@	@	@	@	@	@	@	@	@
Fodder	Popularaisation of CN-4 fodder grass	CN-4	-	Garden land	10	1	1780	1540	1300	-	-	-	-	-	-	-	-	-	-

* 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

@ - Crop is at vegetative stage parameter and economics data will be given after crop harvest

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		
Title of Demonstration	**Parameter with unit**	**Demo**	**Check**
Popularisation of groundnut TMV13 in Ramanathapuram district	Percentage of *Spodoptera* incidence	8%	14%
Management of harvester termite in rainfed rice	Percentage of Harvester termite incidence	12.2%	28.5%

5.B.2. Livestock and related enterprises

Type of livestock	Name of the technology demonstrated	Breed	No. of Demo	No. of Units	Yield (q/ha)				% Increase	*Economics of demonstration Rs./unit)				*Economics of check (Rs./unit)			
					Demo			Check if any		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					H	L	A										
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

* 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./m2)				*Economics of check Rs./unit) or (Rs./m2)			
					Demo			Check if any		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					H	L	A										
Others – Post harvest Management – Fish	Mobile Cool Chamber	Indian Goat Fish	10	10	70 kg	70 kg	70 kg	68 kg	2.9	3223	4620	1397	1.43	3520	4760	1240	1.3
Post harvest Management – Fish	Improved Dry Fish	Indian Goat Fish	10	10	60 kg	60 kg	60 kg	54 kg	10	5860	9000	3140	1.53	5500	8100	2600	1.47

* 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**
Post harvest management of Fish – Mobile Cool Chamber		
1.Shelf Life of Fish	24 hours	12 hours
2. Fish spoilage after 12 hours	Nil	2 kg
2.Quality of Fish after 12 hours	Good	Spoiled
Improved Dry fish processing method to enhance shelf life		
1.Shelf life of dry Fish	8 month	1.5 months
2.Wastage after 1.5 months	6kg	Nil
2.Quality of Fish after 1.5 months	Good	Spoiled

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./m2)				*Economics of check (Rs./unit) or (Rs./m2)			
					Demo			Check if any		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					H	L	A										
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

* 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

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

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

5.B.6. Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organized	Number of participants	Remarks
1	Field days	2	55	Farmers were motivated towards the new technology demonstrated.
2	Farmers Training	15	400	Farmers were actively participated in the training. They were motivated to adopt the ICM packages in cotton cultivation
3	Media coverage	-	-	-
4	Training for extension functionaries	2	40	Horticultural officers were highly convinced about Recent plant production and protection techniques.
5	Others (Please specify) Exposure visit	2	100	Farmers & Rural youths were motivated towards scientific cultivation.

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)				% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demo			Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					H	L	A										
Others – COBhH1	Introduction of bhendi hybrid	COBhH1	20	2	10.2	8.7	9.45	8.1	16.7	30500	56700	26200	1.85	30500	48600	18100	1.6

H-High L-Low, A-Average, *Please ensure that the name of the hybrid is correct pertaining to the crop specified

PART VII. TRAINING

7.A.. Training of Farmers and Farm Women including sponsored training programmes (On campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production										
Integrated Nutrient Management	3	51	27	78	12	6	18	63	33	96
Others (pl.specify) – Mechanization	1	3	0	3	14	0	14	17	0	17
Horticulture										
a) Vegetable Crops										
Production of low value and high volume crop	2	27	1	28	14	0	14	41	1	42
b) Fruits	-	-	-	-	-	-	-	-	-	-
c) Ornamental Plants	-	-	-	-	-	-	-	-	-	-
d) Plantation crops	-	-	-	-	-	-	-	-	-	-
e) Tuber crops	-	-	-	-	-	-	-	-	-	-
f) Spices	-	-	-	-	-	-	-	-	-	-
g) Medicinal and Aromatic Plants	-	-	-	-	-	-	-	-	-	-
Soil Health and Fertility Management										
Management of Problematic soils	1	15	0	15	7	0	7	22	0	22
Livestock Production and Management	-	-	-	-	-	-	-	-	-	-
Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	1	0	24	24	0	26	26	0	50	50
Design and development of low/minimum cost diet	2	0	45	45	0	0	0	0	45	45
Designing and development for high nutrient efficiency diet	1	1	38	39	1	11	22	2	49	51
Value addition	5	18	100	118	4	40	44	22	140	162
Agril. Engineering	-	-	-	-	-	-	-	-	-	-
Fish processing and value addition	1	5	20	25	0	0	0	5	20	25
Production of Inputs at site										
Vermi-compost production	2	9	32	41	3	10	13	12	42	54
Capacity Building and Group Dynamics										
Others (Pl. specify) – Importance of Agro Forestry	2	16	23	39	5	0	5	21	23	44
TOTAL	**22**	**158**	**310**	**468**	**65**	**95**	**170**	**223**	**405**	**628**

7.B Training of Farmers and Farm Women including sponsored training programmes (Off campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production										
Resource Conservation Technologies	1	23	9	32	16	2	18	39	11	50
Integrated Crop Management	2	10	25	35	22	18	40	32	43	75
Integrated Nutrient Management	1	8	15	23	0	0	0	8	15	23
Horticulture - a) Vegetable Crops										
Production of low value and high volume crop	2	30	10	40	0	0	0	30	10	40
Nursery raising	1	7	4	11	11	3	14	18	7	25
b) Fruits	-	-	-	-	-	-	-	-	-	-
c) Ornamental Plants	-	-	-	-	-	-	-	-	-	-
d) Plantation crops	-	-	-	-	-	-	-	-	-	-
e) Tuber crops	-	-	-	-	-	-	-	-	-	-
f) Spices	-	-	-	-	-	-	-	-	-	-
g) Medicinal and Aromatic Plants	-	-	-	-	-	-	-	-	-	-
Soil Health and Fertility Management										
Integrated water management	1	8	12	20	0	0	0	8	12	20
Soil and water testing	1	2	0	2	15	8	23	17	8	25
Livestock Production and Management										
Dairy Management	2	4	2	6	71	24	95	75	26	101
Animal Nutrition Management	1	0	0	0	23	12	35	23	12	35
Home Science/Women empowerment	-	-	-	-	-	-	-	-	-	-
Agril. Engineering	-	-	-	-	-	-	-	-	-	-
Plant Protection										
Integrated Pest Management	4	56	4	60	36	32	68	92	36	128
Fisheries	-	-	-	-	-	-	-	-	-	-
Production of Inputs at site										
Vermi-compost production	1	32	0	32	13	0	13	45	0	45
Capacity Building and Group Dynamics	-	-	-	-	-	-	-	-	-	-
Agro-forestry	-	-	-	-	-	-	-	-	-	-
Production technologies	2	35	0	35	7	0	7	42	0	42
TOTAL	**19**	**215**	**81**	**296**	**214**	**99**	**313**	**429**	**180**	**609**

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
-	-	-	-	-	-	-	-	-	-	-

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
-	-	-	-	-	-	-	-	-	-	-

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
Integrated Pest Management	1	19	1	20	0	0	0	19	1	20
Integrated Nutrient management	1	20	0	20	0	0	0	20	0	20
Protected cultivation technology	1	19	1	20	0	0	0	19	1	20
Low cost and nutrient efficient diet designing	1	0	20	20	0	0	0	0	20	20
Total	**4**	**58**	**22**	**80**	**0**	**0**	**0**	**58**	**22**	**80**

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
-	-	-	-	-	-	-	-	-	-	-

7.G. Sponsored training programmes conducted

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
7	**Post harvest technology and value addition**										
7.a.	Processing and value addition	2	0	30	30	0	25	25	0	55	55
	Total	**2**	**0**	**30**	**30**	**0**	**25**	**25**	**0**	**55**	**55**

Details of sponsoring agencies involved

1. NABARD

2. Agricultural Department (TN-TAMWARM)

7.H. Details of Vocational Training Programmes carried out by KVKs for rural youth

Sl. 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.e.	Organic farming	1	8	3	11	3	6	9	11	9	20
2	**Post harvest technology and value addition**										
2.a.	Value addition	4	4	83	87	1	12	13	5	95	100
3.	**Livestock and fisheries**										
3.c.	Sheep and goat rearing	1	15	0	15	4	1	5	19	1	20
4.	**Income generation activities**										
4.a.	Vermi-composting	1	19	0	19	1	0	1	20	0	20
4.g.	Mushroom cultivation	2	3	32	35	2	8	10	5	40	45
4.h.	Nursery, grafting etc.	1	13	8	21	3	0	3	15	8	24
5	**Agricultural Extension**										
5.b.	Others (pl.specify) – Entrepreneurs development	1	23	0	23	3	0	3	26	0	26
	Grand Total	**11**	**85**	**126**	**211**	**17**	**27**	**44**	**101**	**153**	**255**

PART VIII – EXTENSION ACTIVITIES

Extension Programmes (including extension activities undertaken in FLD programmes)

Nature of Extension Programme	No. of Programmes	No. of Participants (General)			No. of Participants SC / ST			No.of extension personnel		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	2	10	10	20	20	10	30	-	-	-
Method Demonstrations	7	9	96	102	0	40	40	9	136	145
Lectures delivered as resource persons	16	363	445	808	0	0	0	-	-	-
Newspaper coverage	15	Mass								
Radio talks	6	Mass								
Popular articles	28	Mass								
Extension Literature	4	Mass								
Advisory Services	20	67	3	70	-	-	-	-	-	-
Scientific visit to farmers field	14	27	20	34	27	12	24	40	32	76
Farmers visit to KVK	-	115	0	115	-	-	-	5	0	5
Diagnostic visits	21	70	9	79	-	-	-	-	-	-
Exposure visits	6	117	30	147	33	11	44	150	41	191
Celebration of	2	0	30	30	0	25	25	-	-	-

important days – Nutrition week										
Total	**141**	**778**	**643**	**1405**	**80**	**98**	**163**	**204**	**209**	**417**

PART IX – PRODUCTION OF SEED, PLANT AND LIVESTOCK MATERIALS

9.A. Production of seeds by the KVKs

Crop category	Name of the crop	Variety	Hybrid	Quantity of seed (qtl)	Value (Rs)	Number of farmers to whom provided
Cereals (crop wise)	Paddy	RMD®1	-	1.2	1080	5
		Anna 4	-	1.0	900	3
		ADT 45	-	4.0	3600	10
Others (specify)	Paddy Straw	-	-	25.0	1500	10
			Total	**31.2**	**7080**	**28**

9.B. Production of planting materials by the KVKs

Crop category	Name of the crop	Variety	Hybrid	Number	Value (Rs.)	Number of farmers to whom provided
-	-	-	-	-	-	-

9.C. Production of Bio-Products

Bio Products	Name of the bio-product	Quantity Kg	Value (Rs.)	Number of farmers to whom provided
Bio Agents	Vermicompost	6400	32000	50
Total	**-**	**6400**	**32000**	**50**

9.D. Production of livestock materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	Number of farmers to whom provided
-	-	-	-	-

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

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

A. KVK News Letter ((Date of start, Periodicity, number of copies distributed etc.)
News Letter name: "Neithal", Date of start: 01.02.2012, Nos:100

(B) Literature developed/published

Item	Title		Authors name	Number
	1.	Introduction of Mini Mobile Sprinklers for Rainfed Groundnut Cultivation by	V. Ganesaraja, G. Srinivasan, K. Ramakrishnan, A. Anuratha, C. Kavitha	1

Research papers		utilizing the shallow springs in the coastal belts of Ramanathapurm District		
	2.	Evaluation Of Micronutrient Mixture Response On Rice Under Rainfed Condition	A.Anuratha and V.Ganesaraja	1
	3.	Performance of System of Rice Intensification (SRI) in Manimuthar subbasin of Madurai District of Tamil Nadu	V.Ganesaraja, R.Veeraputhiran and A.Anuratha	1
	4.	Optimization Of Water And Nutrient Requirement For Yield Maximization In Hybrid Rice Under Drip Fertigation System	V.Ganesaraja,P.Vijayakumar and A.Anuratha	1
	5.	Studies on the Biology and toxicity of some newer molecules on cabbage head caterpillar, *Crocidolomia binotalis* Zeller in India "proceedings of the 6th International workshop on management of the diamond back moth and other crucifer insect pest" – AVRDC-Thaiwan'2011	C.Vijayaraghavan, M.Kannan,,S.A.Jayaprakash. and Uthamasamy.S	1
Technical reports	-		-	-
News letters	KVK Newsletter for Neithal		V.Ganesaraja, G.Anand, C.Vijayaraghavan, P.Thukkaiyannan, C.Kavitha,,A.Anuratha, V.Meenakshi.	100
Technical bulletins	-		-	-
Popular articles	1.	Problem soils and its Management published in Agrobios Newsletter-Vol IX,12, May,2011,pp:48-50	A.Anuratha and A.Veeramani	1
	2.	Crop production with poor quality of irrigation water published in Agro Bios Newsletter,10(5), Oct-2011, p.no.21	A.Anuratha and V.Ganesaraja	1
	3.	Bio conversion of Agricultural wastes as manure published in Agro Bios Newsletter,10(5), Oct-2011, p.no.22	A.Anuratha and V.Ganesaraja	1
	4.	Melakayil chottu neer pachnam published in Valarum velanmai	A.Anuratha,C.Kavitha and V.Ganesaraja	1

		- 3(5), Nov 2011, p.43.		
	5.	Nelili uyar vulaichal pera orugenaitha ura melanmai published in Valarum velanmai - 3(6), Dec 2011, p.17.	A.Anuratha and V.Ganesaraja	1
	6.	Nerpayirai thakkum elai suruttupulukkal, dinamalar - 04.05.2011	C.Vijayaraghavan,,P.Thukkaiyannan and Zadda Kavitha	1
	7.	IPM in Coconut dinamalar-12.10.2011	C.Vijayaraghavan, Zadda Kavitha and V.Ganesaraja	1
	8.	Paruthiyil sarrunjum poochi melanmai dinamalar - 10.08.2011	Zadda kavitha,C.Vijayaraghavan and P.Balasubramanian	1
	9.	Drip irrigation in Chilli	C.Kavitha and V.Ganesaraja	
	10	Coriander cultivation	C.Kavitha and V.Ganesaraja	
	11	Health benefits of medium chain triglycerides in coconut oil – published in Agrobios Vol X(01) June,2011 pg. no.56-57	V.Meenakshi and V.Ganesaraja	1
	12	Know about Food Safety and Standard Act. Kisan world .38(7)Pg.No.23-25	V.Meenakshi and V. Ganesaraja.	1
	13	Storage of Fresh Fruits and Vegetables . Kisan World. 38(7): July. 2011	V.Meenakshi and V. Ganesaraja	1
	14	Quality evaluation of Foods using non destructive method . Beverage and Food World.39(3)2012	V.Meenakshi, V. Ganesaraja and Guru Meenakshi	1
Extension literature	-	-	-	-
Others (Book)	A Hand book on Agro analysis of Ramanathapuram		V.Ganesaraja, C.Kavitha, A.Anuratha, V.Meenakshi, G.Anand, C.Vijayaraghavan, P.Thukkaiyannan and S.Ganapathy	1
Training maunal	Man nalamum,Ottasathu melanmaiyum		V.Ganesaraja, A.Anuratha and C.Kavitha	1
Book lets	1	Vermicomposting technology	A.Anuratha,C.Kavitha,C.Karunaidasan and V.Ganesaraja.	100
	2	Role of biofertilizers on crop management	A.Anuratha,C.Kavitha,C.Karunaidasan and V.Ganesaraja	100
	3	Management of problematic soils	A.Anuratha,C.Kavitha,C.Karunaidasan and V.Ganesaraja.	100
	4	Soil and water testing	A.Anuratha,C.Kavitha,C.Karunaidasan and V.Ganesaraja.	100
	5	Integrated crop management for chilli	C.Kavitha, A.Anuratha C.Karunaidasan and V.Ganesaraja.	100
	6	Integrated crop management for coriander	C.Kavitha, A.Anuratha C.Karunaidasan and V.Ganesaraja	100
	7	Integrated crop management for Annual moringa	C.Kavitha, A.Anuratha C.Karunaidasan and V.Ganesaraja	100
	8	Shadenet nursery	C.Kavitha, A.Anuratha C.Karunaidasan and	100

			V.Ganesaraja	
	9	Mushroom cultivation	C.Vijayaraghavan, P.Thukkaiyannan,G.Anand and V.Ganesaraja	100
	10	Nilakkadalaiyil orunginaintha poochimelanmai	C.Vijayaraghavan, P.Thukkaiyannan,G.Anand and V.Ganesaraja	100
	11	Puluthi vithaipu nel sagupadi tholilnutpam	P.Thukkaiyannan, C.Vijayraghavan, G.Anand and V.Ganesaraja	100
	12	Paruthi sagupadi tholilnutpangagl	P.Thukkaiyannan, C.Vijayraghavan, G.Anand and V.Ganesaraja	100
Folders	1	Coastal Saline Research Centre,Krishi Vigyan Kendra,Ramanathapuram	V.Ganesaraja, P.Thukkaiyannan , A.Anuratha, C.Vijayaraghavan G.Anand, C.Kavitha and V.Meenakshi	200
	2	Vivasayam , kalnadai matrum manitha valarchiyil marabanu Thozhil Nutpam.	V.Meenakshi, V.Ganesaraja,and C.Karunaithasan	200
	3	Parthenium Awareness Campaign	V.Ganesaraja, V.Meenakshi and C.Karunaithasan	200
	4	Sari Vigitha Unavu	V.Ganesaraja, V.Meenakshi and C.Karunaithasan	200
Leaflets	1	Harvester termite management	C.Vijayaraghavan,,P.Thukkaiyannan, G.Anand and V.Ganesaraja	100

10.B. Details of Electronic Media Produced

S. No.	Type of media (CD / VCD / DVD/ Audio-Cassette)	Title of the programme	Number
1	Website hosted on 01.02.2012 domain name: www.kvkramnad.org		

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. Name of the farmer : M.Abdul Nabik and M.Zahir Hussain
2. Address : 3/7, Kaidemilleth street
   Perungulam – Post
   Mandapam block
   Ramanathapuram district – 623 536.
3. Phone Number : 9443301178

Th. M.Abdul Nabik and M.Zahir Hussain S/o. Mohammed Ali aged 55 & 60 years residing at Perungulam village was known to the Krishi Vigyan Kendra, Coastal Saline Research Centre, Ramanathapuram for the past 3 years. He is holding 9 acres, cultivating Gingelly, Maize, Green Gram, Black gram, Groundnut, Watermelon (Hybrid), Coconut and Mango seedlings 175 nos, including all varieties.

The farmer are very progressive and Co-operative in nature. They are very much willing to accept to do all kinds of Research activities in their farm. They are is very risk bearing nature. The FLD programmes on Green gram, Black gram, Groundnut, Gingelly and Maize were conducted. The OFT on Coconut under Integrated Nutrient Management were also carried out. The farmers are very keen to observe and follow the guidelines of the Scientists. The farmers are very much interested to gather the information and also frequently share the same with other farmers. They are very Cosmo politeness nature. Based on the performance of the farmer

many developmental schemes appreciated their efficiency and voluntarily sanctioned the schemes. In such a way Department of Horticulture issued 157 mango seedlings under National Horticulture Mission scheme

The farmers underwent the Vocational training in KVK, Ramanathapuram on vermi composting technologies. Then they started vermi compost production unit with a capacity of 500 tones/year. He got the financial aid from the Department of Horticulture under National Horticulture Mission with subsidy. The farmers are very innovative in nature. Because of his continuous effort he developed the fallow lands into productive one. They are very much interested in organic farming. From the total production, 70 percent of the compost was used for their own farming and remaining 30 percent was marketed to the farmers on low cost basis. They are also supplying their compost to the needed farmers and motivated their neighbour farmers viz. Seenithevar, Murugesh, Malik and others to use vermi compost to enahance the production and soil fertility.
They sent their vermi compost manure to the TNAU, Coimbatore to know the nutrient status. Based on the results he tried further to improve the nutrient content by adding Azophos and Rock phosphate.

During our documentation he stated that the vermi compost is very much suitable manure for coastal area to enhance the production and organic matter of the soil. Due to application of vermi compost the yield was increased in Coconut as 25 nuts / tree earlier it was 10 nuts / tree. The size is also increased thereby lead to higher market price that is Rs. 6/nut earlier 3.50 / nut. The other crops like, Groundnut, Green gram, Blackgram and Maize yields comparatively high and further he stated that the crops remain greenish even during summer. So the passerby were wondered and asked the farmers about the way of cultivation methods.

Because of their concerted efforts, he was supplied with Mini mobile Sprinkler unit for Groundnut by the Coastal Saline Research Centre, Ramanathapuram under Part II Plan Scheme on free of cost. He told that the unit was very much helpful for the Groundnut cultivation. It facilitates the farmers to have a copious irrigation and continuous cropping which led him to earn additional income

Hence the farmer Th. M. Abdul Nabik, Perungulam, Ramanathapuram was selected as a best farmer for southern region after analyzing his potentiality in farming by the TNAU and then he received the Best farmer Award from Tamil Nadu Agricultural University, Coimbatore during the Farmers' day function for the year 2008-2009, the certificate has been enclosed herewith. They had introduced hybrid watermelon viz., Mahico which performed well in their soil condition and yield 35 to 40 tons/ac and which was documented by the journalist of Pasumai Vikadan

The economics worked out for the vermicomposting technology is as follows:

1...Fixed Cost

S.No	Particulars	Amount (Rs.)
1.	Vermicompost shed	175000
2.	Sprayer, Motor, Sieve, Packing machine, Weighing balance, Sieving machine	15,000
	(Interest 12% Depreciation 2% for one year for shed)	24500
	(Depreciation 5%, IFC 12% for I year for machineries)	2550

Total Fixed cost	42050

2. Vairable cost

S.No	Particulars	Amount (Rs.)
1.	FYM & Compost for 5 cycles Rs.350 / ton	175000
2.	Earth worm for 5 cycles @ Rs.400/ton for 5 ton	2000
3.	Packing cover 500 ton (Rs. 10 / bag): 10000 bags	100000
4.	Labour charges	10000
Total Variable cost		**287000**

3. Cost and return statement

S.No	Particulars	Rs./year
1.	Variable cost	287000
2.	Fixed cost	42050
3.	Total cost	329050

4. Yield

Vermicompost 500 ton/5 cycle/year	500 ton
Total production income @ Rs. 400/ton so far 500 ton 400x5000	Rs. 20,00,000
Profit / year (2000000 – 329050)	Rs. 16,70,950
Benefit cost ratio	**1:6.1**

Inference:

It was drawn from the above result that the training on composting technologies not only motivate the person to start self employment, it also enhances the soil fertility of the farm besides increasing the farm and home income. Hence it paves way for improving the socio-economic status of the farmer in the family, society, etc.

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

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

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

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

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

- PRA Techniques
- Direct interview method
- Group discussion method
- Feedback mechanism
- Registration on training need

Rural Youth
In Service personnel
Well structured interview schedule
Group discussion

10.G. Field activities

i. Number of villages adopted : 3
ii. No. of farm families selected :
iii. No. of survey/PRA conducted : 1

10.H. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab : Good

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

Sl. No	Name of the Equipment	Qty.	Cost
1	-	-	-
Total		-	-

Details of samples analyzed so far since establishment of SWTL:

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)
Soil Samples	707	789	44	17675
Water Samples	306	204	46	3060
Total	**1013**	**993**	**90**	**20735**

Details of samples analyzed during the 2011-12:

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)
Soil Samples	202	190	190	5050
Water Samples	34	30	30	340
Total	**236**	**220**	**220**	**5390**

10.I. Technology Week celebration during 2011-12 Yes/No : No

Period of observing Technology Week: From to
Total number of farmers visited :
Total number of agencies involved :
Number of demonstrations visited by the farmers within KVK campus:

Other Details

Types of Activities	No. of Activities	Number of Farmers	Related crop/livestock technology
-	-	-	-

10. J. Interventions on drought mitigation (if the KVK included in this special programme)

A. Introduction of alternate crops/varieties

State	Crops/cultivars	Area (ha)	Number of beneficiaries
-	-	-	-

B. Major area coverage under alternate crops/varieties

Crops	Area (ha)	Number of beneficiaries
-	-	-

C. Farmers-scientists interaction on livestock management

State	Livestock components	Number of interactions	No.of participants
-	-	-	-

D. Animal health camps organized

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

E. Seed distribution in drought hit states

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

F. Large scale adoption of resource conservation technologies

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

G. Awareness campaign

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

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)
Mushroom production	296	58	Nil	2500 to10000/year
Vermi compost	236	35	5000	25000 to 2000000
Food processing	173	82	nil	40000

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)

A. Mushroom Production

Sl.No.	Entrepreneurs name and address	Production Capacity	Income (Rs.) 5 cycle/year
1	Dr. S. Sundararajan Ayyanar Trust, 3/622-A7, Bagavathsingh Road Paramakudi. Ph. No.: 04564 222009 Size: 50 members of SHGs	15 to 20 kg / cycle	10000
2	Tmt. N. Rajalakshmi SHG : Vinmeen Mahalir Mandram Size : 20 members	5 – 10 kg/cycle	5000
3	Tmt. Snehalatha & Tmt. Veeramani SHG : Srimanjanamari Mahalir Mandram Size : 20 members	5 – 10 kg/ cycle	5000
4	Tmt. S. Kavitha, SHG : Kuberan Mahalir Mandram Size : 20 members	5 – 10 kg/ cycle	5000
5	Tmt. S. Inul Ariba, SHG : Pasumai Nila Size : 20 members	5 – 10 kg/ cycle	5000
6	Th. Jawahar Sathik, Keelakarai	5-10 kg/ cycle	5000
7	Tmt. Bhuvaneswari, Pirappanvalasai	15 kg/ cycle	7500
8	Th. Murugaboopathi & Arunachalam Check Post, PattinamKathan Ph.:9344510617	15 kg/ cycle	7500
10	Tmt. M. Muthurani W/o. J. Muthukrishnan Marudhupandiyar 3rd street Bharathi Nagar, Ramanathapuram	5 kg/ cycle	2500
11.	Tmt. K. Sudha W/o. P. Kannan 3/3198, Kannankoil street, Pattinamkathan	10-15 kg/ cycle	7500
12.	Tmt. E. Ranithabethal W/o. Edward 2/66 C, Thamizhar street Sitharkottai 9894894480	5-10 kg/ cycle	5000
13.	Tmt. J. Lathipa Begam W/o. M. Janinutheen 3/611, North Street, Vedhalai Mandapam	2-3 kg/ cycle	1500
14.	Tmt. W/o. S. Muthuramalingam Sathanur (Post) Pambur (via) , Muthukulathur (Tk) Ramnad – District	5 kg/ cycle	2500
15.	Tmt. N. Shanthi W/o. Nagarajan Puzhuthikulam, Sathanur Post, Pambur (Via) Muthukulathur (Tk) Ramanathapuram (Dt)	5 kg/ cycle	2500
16.	Tmt. S.V. Nishan W/o. Sultan	5 kg/ cycle	2500

	21/59, M.S.P Quarters Kizhakkarai		
17.	Tmt. R. Lavanya W/o. Rathinakumar 19, Barathi Street Ramnad	5 kg/ cycle	2500
18.	Tmt. P. Vanitha W/o. Prabhakran 28, Bharathiyar Street Velipattinam Ramanathapuram	5 kg/ cycle	2500

B. Vermi compost production

Sl.No	Entrepreneurs name and address	Production capacity tons/cycle	Income (Rs.) 5 cycle/year
1.	Dr. S. Sundararajan Sri Meenakshi Educational and Development Organisation 3/622-A7, Bagavathsingh Road Paramakudi. Ph. No.: 04564 222009	8	200000
2	Mr. A. Ramu Usilanakottai, Thondi Ramanathapuram. Ph.: 9865358642	6	30000
3	Mr. M. Abubakkar Thondi – 623 409. Ph.: 9443204316	40	1000000
4	Mr. K. Velu 1/1869 Police colony Pattinamkathan Post, Ramanathapuram	1	25000
5	Dr. S. Sundararajan Sri Meenakshi Educational and Development Organisation 3/622-A7, Bagavathsingh Road Paramakudi. Ph. No.: 04564 222009	8	200000
6	Community Polytechnic, MSPC, Keelakarai, Ramanathapuram. Ph. No.04567 244776	75	1875000
7	Mrs. J. Jeshumari Michael Pattinam Panchayet Chairman Pampoor via Ramanathapuram District	1	25000
8	Sitho Najeema Azagankulam Ramnad (Dt.)	7	175000
9	P. Soundaravalli W/o Pandi Valanondi Paramakudi	5	125000
10	J. Meenammal W/o Jayaraman Lakshmipuram Paramakudi	5	125000
11	N.Pathampiriyal	4	100000

	W/o Naganathan Vaniyavallam, Nayinarkoil Block, Ramnad (Dt.)		
12	Zahir Hussain S/o Mahammed Ali Perumkulam Ramnad	100	250000
13	Rathakrishnan Muthunal	40	1000000
14	Dr.S.M.Gani Kaluvoorani Ramnad (Dt.)	200	5000000
15	A.Kulanthai W/o Antony Valluvar Nagar, Thondi Ramnad Dt. Ph:no 9842987265	5	125000
16	P.Subramanian Manjur Ramanathpuram (Dt.)	2.5	62500
17	V.Austin Pirappanvalasai, Ramanathapuram	1	25000
18	T.Sakthivel Kadarkarai salai Near Railway Line, Pirappanvalasai Ramnad (Dt.) 623516	3	75000
19	Mohamed Kaluvoorani Ramanathapuram	20	500000
20	D.Jaikumar Pambur, Ramnad	5	125000
21	C.Bose S/o Chinniah Kattuparamakudi	3	75000
22	National Acadamy Matriculation School Pattinamkathan Ramnad	3	75000
23	Iyyamperumal S/o Muniandi Sethunagar, Muthupettai Ramnad	5	125000

C. Food processing

S. No.	**Entrepreneurs name and address**	**Items**	**Capacity**	Income / year(Rs.)
1.	Tmt. M. Muthurani W/o. J. Muthukrishnan Marudhupandiyar 3rd street Bharathi Nagar Ramanathapuram	Jam	25 bottles / month 30 x 25 = 750 / month	9000
2.	Tmt. K. Sudha W/o. P. Kannan	Jam	25 to 30 bottles / month	10800

	3/3198, Kannankoil street Pattinamkathan		30 x 30 = 900/month	
3.	Tmt. E. Ranithabethal W/o. Edward	Pickle	450 to 500 bottles / month	40000
4.	2/66 C, Thamizhar street Sitharkottai 9894894480	Jam	15 bottles / month 30 x 15 = 450 x 12	5400
5.	Tmt. J. Lathipa Begam W/o. M. Janinutheen 3/611, North Street Vedhalai, Mandapam	Jam	20 bottles / month 30 x 20 = 600/month	7200

D. Coir compost

Sl.No.	**Entrepreneurs name and address**	**Capacity**	Income / year(Rs.)
1.	Dr.Mohamed Gani Managudi, Pudumadam Ramanathapuram Ph.263 516,cell: 9443208350	10tons/cycle Rs.300/ton 300x 10=3000x4	Own use& sales Rs.12000
2.	Mr.M.Nagu Ex.Union Panchayat Chairman 3-A,Durairaj Chatra Street Ramanathapuram Cell:9443164041	10tons/cycle	Own use& sales Rs.12000
3.	Mr.Noorul Ameen North street Pudumadam, Ramanathapuram	1ton/cycle 300x4	1200
4.	Mr.Shahul Hameed Near Mosque Valantharavai Ramanathapuram	3tons/cycle 300x3=900 900x4	36000
5.	Mr.M.Ganesan 7/269,West street, Regunathapuram ph.253 296	1ton/cycle 300x4	1200

A. Horticulture

S.No	Entrepreurs name and address	Items	capacity	Income/year(Rs.)
1.	Bharakath Nisha Katoorani village Ramanathapuram	Greens	10 to 20kg/month	2000

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

The Broad outline for the case study may be

1.	Title	Value addition in Fish
2.	Background	Mr.Altrin S/o,Esthalin Anthoniyarpuram

		Thangatchimadam Ramanathapuram 9487405114 Mr.Altrin of Ramanathapruam district studied 12 th std and engaged in fish vending at Rameswaram. He is a physically challenged person and he established an NGO named " FEED TRUST'' for the upliftment of physically challenged person . He under went a training on Fish Product preparation during 2008-2009 and he engaged the physically challenged person for the production of prawn pickle. He is preparing 2000 number of prawn pickle and he is selling at the rate of Rs.320/kg . The shelf life of prawn pickle is one year .
3.	Interventions	Attended On Campus Training Organized at KVK and gained
4.	Process	He started preparing prawn pickle and labeled the product and wrapped the bottle using polythene film packing blower
5.	Technology	Preparation of Fish and Prawn Products
6.	Impact	.
7.	Horizontal Spread	His products are being sold through out Tamilnadu and also getting orders from abroad
8.	Economic gains	He is earning an additional income of Rs.30,000/month
9.	Employment Generation	He is giving employment to 7 physically challenged person.

PART XII - LINKAGES

12.A. Functional linkage with different organizations

Sl.No	Name of organization	Nature of linkage
1	ICAR Institutions • CMFRI • ICAR KVK's	• For organizing linkage training programmes • For TOT tie-up
2	State Agricultural University and Research Centre, Plant Clinic Centre and KVK's	• Exchange of experts as resource person for training programme • For updating research establishment in the respective field so as to meet out the needs the beneficiaries
3.	State Department of Agriculture	• To organize collaborative training programme • Capacity building training to the extension functionaries • joint diagnostic survey, participation in meeting
4.	State Department of Horticulture	
5.	State Department of Fisheries	
6.	State Department of Animal Husbandry	
7.	State Department of Forestry	
8.	Soil Test Laboratory of different places	

9.	NGO's • RWDF • DHAN Foundation • Community Development Centre • Mohammed Sathak Polytechnic • Seyathu Ammal College	• Co-ordination of participants in training programme organized by KVK
10.	Banking sectors • NABARD (AGM) • IOB • LDM of IOB • UCO Bank, DCCB • Pandiyan Gramena Bank	• To share knowledge on financial availability in order to equip the self employment activities of the trainees • To give training to the beneficiaries of banking sectors. To adopt villages
11.	Jain Irrigation Ltd	• To develop low cost irrigation system for drip fertigation system
12.	Other Rural Development Agencies • DPAP • DRDA • NAWPRA, Panchayat Raj Institution	• To provide location based training to the beneficiaries • Transfer of technology purpose • To reduce the area under wasteland

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.)
Introduction of mini portable sprinkler in coastal sandy soils	June 2010	NADP	45.00 Lakhs
National Initiative of Climate Resilient in Agriculture	March 2011	ICAR	33.00 Lakhs
Popularization of Soil breeding and Water management strategies in Coastal sandy soil of Ramanathapuram district	March 2012	NADP	15.89 Lakhs

12.C. Details of linkage with ATMA

a) Is ATMA implemented in your district Yes / No: Yes

If yes, role of KVK in preparation of SREP of the district?

- KVK was involved in SREP preparation, later the short term research and District level Farmers-Scientist interaction was assigned to KVK, Ramanathapuram and funds was released by the JDA, Ramanathapuram.

- The short term research has been completed and also the Farmers-Scientist interaction as per work assigned

Coordination activities between KVK and ATMA during 2011-12

S. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK	Other remarks (if any)
01	Meetings	Farmers-Scientist interaction	2	2	Work completed
02	Research projects	Short term research	1	1	Field observation in progress

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

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

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

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

12.F. Details of linkage with RKVY

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

12. G Kisan Mobile Advisory Services

Month	No. of SMS sent	No. of farmers to which SMS was sent	No. of feedback / query on SMS sent
The Cheque has been drawn in favour of the service provider but yet to receive the user ID and password, as soon as we get the ID and password the list of already framed farmers will be sent messages and the work will be initiated.			

PART XIII- PERFORMANCE OF INFRASTRUCTURE IN KVK

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

Sl. No.	Demo Unit	Year of establishment	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Produce	Qty.	Cost of inputs	Gross income	
-	-	-	-	-	-	-	-	-	-

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.	Cost of inputs	Gross income	
-	-	-	-	-	-	-	-	-	-

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

Sl. No.	Name of the Product	Qty	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	
-	-	-	-	-	-

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

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	
-	-	-	-	-	-	-	-

13.E. Utilization of hostel facilities

Accommodation available (No. of beds)

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
-	-	-	-

13.F. Database management

S. No	Database target	Database created
-	-	-

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

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

PART XIV - FINANCIAL PERFORMANCE

14.A. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Branch code	Account Name	Account Number	MICR Number	IFSC Number
With Host Institute							
With KVK	State Bank of India	Ramanathapuram	908	SB	10776777321	-	-

14.B. Utilization of KVK funds during the year 2011-12 (Rs. in lakh) (as on 30.03.2012)

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	**Pay & Allowances**	6800000		6991202
2	**Traveling allowances**	100000		99842
3	**Contingencies**			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	190000	8056389	189979
B	POL, repair of vehicles, tractor and equipments	125000		124847
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	75000		75000
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	30000		28898
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	165000		156819
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	30000		23449
G	Training of extension functionaries	20000		19520
H	Maintenance of buildings	10000		10000
I	Establishment of Soil, Plant & Water Testing Laboratory	-		-
J	Library	5000		4996
K	Extension Activities	25000		24990
L	FFS	25000		24931
	TOTAL (A)	**700000**		**683429**
B. Non-Recurring Contingencies				
1	**Works**	-	-	-
2	**Equipments including SWTL & Furniture**	500000		498775
3	**Vehicle** (Four wheeler/Two wheeler, pl.specify)	-	-	-
4	**Library** (Purchase of assets like books&journals)	-	-	-
TOTAL (B)		500000		-
C. REVOLVING FUND		0		-
GRAND TOTAL (A+B+C)		**8100000**	**8056389**	**8273248**

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

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 1st April of each year
April 2009 to March 2010	1291817	62214	860201	493830
April 2010 to March 2011	493830	44033	268042	269821
April 2011 to March 2012	269821	67697	61859	275659

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

Name of the staff	Designation	Title of the training programme	Institute where attended	Dates
Dr.P.Thukkaiyannan	Assistant Professor (Agronomy)	Alternative Farming System Options For Food And Nutritional Security	TNAU, Coimbatore	9.11.2011 to 29.11.2011
Dr.C.Vijayaraghavan	Assistant professor (Agrl.Entomology)	Precision farming and insect pest management	TNAU, Coimbatore	8.02.2012 to 28.02.2012
Tmt.G.Namagirilakshmi	Programme Assistant (Computer)	To attend the software development programme for ICT.	KVKs Nilgiris	23.05.11 to 28.05.11

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

SUMMARY FOR 2011-12

I. TECHNOLOGY ASSESSMENT

Summary of technologies assessed under various crops

Thematic areas	Crop	Name of the technology assessed	No. of trials
Integrated Nutrient Management	Banana	Foliar spray of micronutrient in banana	10
	Chilli	Assessment of varietal performance of chilli in Ramanathapuram district	5
	Black Gram	Foliar Spray of Methylo bacterium	5
Integrated Pest Management	Brinjal	Management of red spider mite in Brinjal	5
Resource Conservation Technology	Rice	Assessment of Aerobic sowing methods in semi dry rice cultivation	5
Total	**5**	**-**	**30**

Summary of technologies assessed under livestock

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials
Production and Management	Cattle	Assessment of area specific mineral mixture in milch cows	10
Total			**10**

Summary of technologies assessed under various enterprises

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

Summary of technologies assessed under home science

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

II. TECHNOLOGY REFINEMENT

Summary of technologies refined under various crops

Thematic areas	Crop	Name of the technology refined	No. of trials
-	-	-	-

Summary of technologies assessed under refinement of various livestock

Thematic areas	Name of the livestock enterprise	Name of the technology refined	No. of trials
-	-	-	-

Summary of technologies refined under various enterprises

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

Summary of technologies refined under home science

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

III. FRONTLINE DEMONSTRATION

Crops

Crop	Thematic area	Name of the technology demonstrated	No. of KVKs	No. of Farmer	Area (ha)	Yield (q/ha)		% change in yield	Other parameters		*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
						Demonstration	Check		Demonstration	Check %	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Cereals	Pest incidence	Management of harvester termite in rainfed rice	1	25	10	30.33	23.69	27.98	12.2% termite incidence	28.5	17507	30330	12823	1.73	18257	23690	5433	1.30
	Management of problematic soils	Intrgrated crop management for sodic soils	1	2	2	47.85	41.25	24.00	-	-	27250	49005	21775	1.80	24625	37125	12500	1.51
Millets	Production	Co-2 Barnyard millet	1	30	2.5	1.1	0.7	36.2	-	-	3800	6200	2400	1.63	2300	3280	980	1.42
Oilseeds	Varietal introduction	Popularisation of groundnut TMV13 in Ramanathapuram district	1	3	1	15.5	14.00	10.70	8% spodoptera incidance	14	27405	62000	34595	2.26	26425	56000	29575	2.12
Pulses	Nutrient management	Popularization of Pulse wonder for Rainfed black gram	1	10	2	7.03	5.80	30.00	-	-	16650	33000	16350	1.98	14700	23200	8500	1.58

Vegetables	Introduction of new high yielding hybrids	Introduction of Bhendi hybrid COBhH1	1	20	2	9.45	8.10	16.70	-	-	30500	56700	26200	1.85	30500	48600	18100	1.60
Spices and condiments	Introduction of new high yielding varieties	Varietal introduction of Coriander CO(CR)4	1	20	4	450	370	21.60	-	-	20000	40500	20500	2.03	17500	29600	12100	1.69
Fibre	ICM	Adoption of ICM in cotton with the application of COTTON PLUS	1	13	3				-	-								

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

Category	Thematic area	Name of the technology demonstrated	No. of KVKs	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
						Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			

** BCR= GROSS RETURN/GROSS COST

Live stock

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

Fishries

Category	Thematic area	Name of the technology demonstrated	No. of KVKs	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
						Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Others – Fish	Post Harvest Management	Mobile Cool Chamber	1	10	10	70 kg	68kg	2.90	*	*	3223	4620	1397	1.43	3520	4760	1240	1.30
Fish	Post Harvest Management	Improved Dry Fish	1	10	10	60 kg	54kg	10.00	*	*	5860	9000	3140	1.53	5500	8100	2600	1.47
			Total	**20**	**20**													

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

** BCR= GROSS RETURN/GROSS COST

*denotes

Data on other parameters in relation to technology demonstrated		
Parameter with unit	**Demo**	**Check if any**
Post harvest management of Fish – Mobile Cool Chamber		
1.Shelf Life of Fish	24 hours	12 hours
2. Fish spoilage after 12 hours	Nil	2 kg
2.Quality of Fish after 12 hours	Good	Spoiled
Improved Dry fish processing method to enhance shelf life		
1.Shelf life of dry Fish	8 month	1.5 months
2.Wastage after 1.5 months	6kg	Nil
2.Quality of Fish after 1.5 months	Good	Spoiled

Other Enterpraises

Category	Name of the technology demonstrated	No. of KVKs	No. of Farmer	No.of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.) or Rs./unit				*Economics of check (Rs.) or Rs./unit			
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Women empowerment

Category	Name of technology	No. of KVKs	No. of demonstrations	Name of observations	Demonstration	Check
-	-	-	-	-	-	-

Farm implements and machinery

Name of the implement	Crop	Name of the technology demonstrated	No. of KVKs	No. of Farmer	Area (ha)	Filed observation (output/man hour)		% change in major parameter	Labor reduction (man days)				Cost reduction (Rs./ha or Rs./Unit ect.)			
						Demonstration	Check									
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Other enterprises

Demonstration details on crop hybrids

Crop	Name of the Hybrid	No. of farmers	Area (ha)	Yield (kg/ha) / major parameter			Economics (Rs./ha)			
				Demonst-ration	Local check	% change	Gross Cost	Gross Return	Net Return	BCR
Vegetable crops										
Others – Bhendi	COBh H1	20	2	9.45	8.10	16.70	30500	56700	26200	1.85

IV. Training Programme

Training for Farmers and Farm Women including sponsored training programmes (On campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production										
Integrated Nutrient Management	3	51	27	78	12	6	18	63	33	96
Others (pl.specify) – Mechanization	1	3	0	3	14	0	14	17	0	17
Horticulture										
a) Vegetable Crops										
Production of low value and high volume crop	2	27	1	28	14	0	14	41	1	42
b) Fruits	-	-	-	-	-	-	-	-	-	-
c) Ornamental Plants	-	-	-	-	-	-	-	-	-	-

d) Plantation crops	-	-	-	-	-	-	-	-	-	-
e) Tuber crops	-	-	-	-	-	-	-	-	-	-
Soil Health and Fertility Management - Management of Problematic soils	1	15	0	15	7	0	7	22	0	22
Livestock Production and Management	-	-	-	-	-	-	-	-	-	-
Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	1	0	24	24	0	26	26	0	50	50
Design and development of low/minimum cost diet	2	0	45	45	0	0	0	0	45	45
Designing and development for high nutrient efficiency diet	1	1	38	39	1	11	22	2	49	51
Value addition	5	18	100	118	4	40	44	22	140	162
Fisheries										
Fish processing and value addition	1	5	20	25	0	0	0	5	20	25
Production of Inputs at site										
Vermi-compost production	2	9	32	41	3	10	13	12	42	54
Capacity Building and Group Dynamics	-	-	-	-	-	-	-	-	-	-
Agro-forestry	-	-	-	-	-	-	-	-	-	-
Others (Pl. specify) – Importance of Agro Forestry	2	16	23	39	5	0	5	21	23	44
TOTAL	**22**	**158**	**310**	**468**	**65**	**95**	**170**	**223**	**405**	**628**

Training for Farmers and Farm Women including sponsored training programmes (Off campus)

Area of training	**No. of Courses**	**No. of Participants**								
		General			**SC/ST**			**Grand Total**		
		Male	**Female**	**Total**	**Male**	**Female**	**Total**	**Male**	**Female**	**Total**
Crop Production										
Resource Conservation Technologies	1	23	9	32	16	2	18	39	11	50
Integrated Crop Management	2	10	25	35	22	18	40	32	43	75
Integrated Nutrient Management	1	8	15	23	0	0	0	8	15	23
Horticulture										
a) Vegetable Crops										
Production of low value and high volume crop	2	30	10	40	0	0	0	30	10	40
Nursery raising	1	7	4	11	11	3	14	18	7	25
b) Fruits	-	-	-	-	-	-	-	-	-	-
c) Ornamental Plants	-	-	-	-	-	-	-	-	-	-
d) Plantation crops	-	-	-	-	-	-	-	-	-	-

e) Tuber crops	-	-	-	-	-	-	-	-	-	-
f) Spices	-	-	-	-	-	-	-	-	-	-
g) Medicinal and Aromatic Plants	-	-	-	-	-	-	-	-	-	-
Soil Health and Fertility Management										
Integrated water management	1	8	12	20	0	0	0	8	12	20
Soil and water testing	1	2	0	2	15	8	23	17	8	25
Livestock Production and Management										
Dairy Management	2	4	2	6	71	24	95	75	26	101
Animal Nutrition Management	1	0	0	0	23	12	35	23	12	35
Home Science/Women empowerment	-	-	-	-	-	-	-	-	-	-
Integrated Pest Management	4	56	4	60	36	32	68	92	36	128
Fisheries	-	-	-	-	-	-	-	-	-	-
Production of Inputs at site										
Vermi-compost production	1	32	0	32	13	0	13	45	0	45
Capacity Building and Group Dynamics	-	-	-	-	-	-	-	-	-	-
Agro-forestry	-	-	-	-	-	-	-	-	-	-
Production technologies	2	35	0	35	7	0	7	42	0	42
TOTAL	**19**	**215**	**81**	**296**	**214**	**99**	**313**	**429**	**180**	**609**

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
-	-	-	-	-	-	-	-	-	-	-

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
-	-	-	-	-	-	-	-	-	-	-

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
Integrated Pest Management	1	19	1	20	0	0	0	19	1	20
Integrated Nutrient management	1	20	0	20	0	0	0	20	0	20

Protected cultivation technology	1	19	1	20	0	0	0	19	1	20
Low cost and nutrient efficient diet designing	1	0	20	20	0	0	0	0	20	20
Total	**4**	**58**	**22**	**80**	**0**	**0**	**0**	**58**	**22**	**80**

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
-	-	-	-	-	-	-	-	-	-	-

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
7	**Post harvest technology and value addition**										
7.a.	Processing and value addition	2	0	30	30	0	25	25	0	55	55
	Total	**2**	**0**	**30**	**30**	**0**	**25**	**25**	**0**	**55**	**55**

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.e.	Organic farming	1	8	3	11	3	6	9	11	9	20
2	**Post harvest technology and value addition**										
2.a.	Value addition	4	4	83	87	1	12	13	5	95	100
3.	**Livestock and fisheries**										
3.c.	Sheep and goat rearing	1	15	0	15	4	1	5	19	1	20
4.	**Income generation activities**										
4.a.	Vermi-composting	1	19	0	19	1	0	1	20	0	20
4.g.	Mushroom cultivation	2	3	32	35	2	8	10	5	40	45
4.h.	Nursery, grafting etc.	1	13	8	21	3	0	3	15	8	24
5	**Agricultural Extension**										
5.b.	Others (pl.specify) – Entrepreneurs development	1	23	0	23	3	0	3	26	0	26
	Grand Total	**11**	**85**	**126**	**211**	**17**	**27**	**44**	**101**	**153**	**255**

V. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension	TOTAL

			Personnel	
Advisory Services	20	70	-	70
Diagnostic visits	21	79	-	79
Field Day	2	50	-	50
Scientists' visit to farmers field	14	56	72	128
Method Demonstrations	7	142	145	287
Celebration of important days	2	55		55
Exposure visits	6	188	191	379
Total	**72**	**640**	**408**	**1048**

Details of other extension programmes

Particulars	Number
Extension Literature	4
News Letter	1
News paper coverage	15
Radio Talks	6
Total	**26**

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 (q)	Value (Rs)	Number of farmers
Cereals	Paddy	RMD(R)1	120 kg	1080	5
		Anna 4	100 kg	900	3
		ADT 45	400 kg	3600	10
Others	Paddy Straw	-	2500 kg	1500	10
Total		**-**	**3120 Kg**	**7080**	**28**

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
-	-	-	-	-	-

Production of Bio-Products

Bio Products	Name of the bio-product	Quantity Kg	Value (Rs.)	No. of Farmers
Bio Agents	Vermicompost	6400	32000	50
Total		**6400**	**32000**	**50**

Production of livestock and related enterprise materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers
-	-	-	-	-

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

Samples	No. of Samples	No. of Farmers	No. of Villages	Amount realized (Rs.)
Soil	707	789	44	17675
Water	306	204	46	3060
Total	**1013**	**993**	**90**	**20735**

VIII. SCIENTIFIC ADVISORY COMMITTEE

Number of SACs conducted
1

IX. NEWSLETTER

Number of issues of newsletter published
1

X. RESEARCH PAPER PUBLISHED

Number of research paper published
5

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

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

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