



PROFORMA FOR ANNUAL REPORT 2013-14

(FOR THE PERIOD APRIL 2013 TO MARCH 2014)

KRISHI VIGYAN KENDRA (NAGAPATTINAM)

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
Krishi Vigyan Kendra Tamil Nadu Agricultural University Sikkal, Nagapattinam Pin – 611 108.	04365 – 246266	04365 – 246266	kvksikkal@tnau.ac.in	www.kvksikkal.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- 2431222	91- 422- 2431672	vc@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.K.SASIKALA		9489829349	Sasikalatamil.2013@gmail.com

1.4. Year of sanction: 2004

1.5. Staff Position (as 31st March 2014)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	M/F	Discipline	Highest Qualification (for PC, SMS and Prog. Asstt.)	Pay Scale	Basic pay	Date of joining KVK	Permanent /Temporary	Category (SC/ST/OBC/ Others)
1	Programme Coordinator	Dr. K. Sasikala	Programme Coordinator	F	Seed Science and Technology	Ph.D	37400-67000+10000	44850 + 10000	05.12.12	Permanent	SC
2	SMS	Dr. T. Elaiyabharathi	Subject Matter Specialist (Agrl. Ento.)	M	Agrl. Entomology	Ph.D	15600-39100+6000	21990 + 6000	30.12.09	Permanent	OBC
3	SMS	Dr. G. Malathi	Subject Matter Specialist (Horticulture)	F	Horticulture	Ph.D	15600-39100+6000	21990 + 6000	31.12.09	Permanent	OBC
4	SMS	Dr. A. Anuradha	Subject Matter Specialist (SS&AC)	F	Soil Science	Ph.D	15600-39100+6000	21990 + 6000	08.04.13	Permanent	OBC
5	SMS	Vacant	-	-	-	-	-	-	-	-	-
6	SMS	Vacant	-	-	-	-	-	-	-	-	-
7	SMS	Vacant	-	-	-	-	-	-	-	-	-
8	Programme Assistant(Lab Tech.)/T-4	Mr. V. Gnanabharathi	Programme Assistant (Technical)	M	Agricultural Science	B.Sc, (Agri)	9300-34800+4400	13090 + 4400	05.06.07	Permanent	SC
9	Programme Assistant (Computer)/ T-4	Vacant	-	-	-	-	-	-	-	-	-
10	Programme Assistant/ Farm Manager T-4	Mr. R. Vedharethinam	Farm Manager	M	Agronomy	M.Sc, (Agri)	9300-34800+4400	13090 + 4400	04.06.07	Permanent	OBC
11	Assistant	Mr. E. Sivanesan	Superintendent	M	Office	-	9300-34800 + 4800	12060 + 4800	20.06.13	Permanent	OBC
12	Jr. Stenographer	Mrs. S. Shanthi	Junior Assistant cum Typist	F	Office	-	5200-20200 + 2400	6170+ 2400	28.02.11	Permanent	OBC
13	Driver	Mr.C.Veerakumar	Agrl. Engg. Supervisor	M	Office	-	9300-34800+4200	10130+ 4200	06.07.2013	Permanent	OBC
14	Driver	Mr. A. Janakiraman	Driver	M	Office	-	9300-34800+4400	14550+ 4400	06.05.13	Permanent	OBC
15	Supporting staff	Mr.A.Ravi	Office Assistant	M	Office	-	6000 (consolidated)	-	-	Temporary	SC
16	Supporting staff	Mr.K.Krishnasamy	Office Assistant	M	Office	-	6000 (consolidated)	-	-	Temporary	OBC

1.6. Total land with KVK (in ha) : 22.6ha

S. No.	Item	Area (ha)
1	Under Buildings	2.40
2.	Under Demonstration Units	3.60
3.	Under Crops	16.60
4.	Orchard/Agro-forestry	0.00
5.	Others	0.00
	Total	22.6

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. in Lakhs)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR	2009	548 m ²	41.65	-	-	Completed
2.	Farmers Hostel	ICAR	2009	300 m ²	26.38	-	-	Completed
3.	Staff Quarters	ICAR	2009	400 m ²	33.30	-	-	Completed
4.	Demonstration Units	-	-	-	-	-	-	-
5	Fencing	ICAR	2011	-	5	-	-	Completed
6	Rain Water harvesting system	AED, Nagai – (subsidy)	11.2.2007	2100 m ²	0.08	-	-	Completed
7	Threshing floor	ICAR	-	--	3.00	-	-	In progress
8	Farm Godown	-	-	-	-	-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Four Wheeler Bolero Jeep	2004	4,88,210/-	189628	Poor performance
Two Wheeler (TVS – star city)	2006	39,641/-	81598	Poor performance
Two Wheeler (Suzuki Access 125)	2009	49,651/-	37050	Good condition

C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Tractor – TN-51-C-1924	2004	3,47,607	Good
Rotavator	2004	68,500	Good
Cultivator	2004	14,645	Good
Cage Wheel	2004	11,684	Good
Leveller	2004	8,922	Good
Computer with Accessories	2005	75,000	Good
Xerox machine	2005	73,968	Good
Shredder	2006	25,605	Good
Digital Camera	2006	19,950	Good
Flow through paddy thresher	2006	50,000	Good
Laminar air flow chamber	2007	37,856	Good
Autoclave – vertical	2007	33,560	Good
Digital pH meter	2007	14,850	Good

Digital electronic balance	2007	18,150	Good
Computer – Desktop – 2No	2007	93,000	Good
Computer (Laptop – Compaq)	2007	49,400	Good
LCD Projector – 2 No	2007	1,07,000	Good
Power Tiller	2011	1,35,870	Good
SWTL Components			
Digital Visible Spectrophotometer	2011	39,104	Good
Digital pH meter “Elico” Make	2011	5,970	Good
All Glass Single Distillation unit	2011	36,400	Good
Khan Shaker “Labline”	2011	20,800	Good
Hot air oven	2011	17,680	Good
Hot plate	2011	7,956	Good
Willey mill	2011	32,760	Good
Water Bath	2011	7,249	Good
UP based Flame Photometer “Elico” Make	2011	45,240	Good
Digital conductivity meter “Elico” Make	2011	11,326	Good
Electronic Top loading balance “Cyberlab”	2011	6,760	Good
Electronic Top loading balance “Shimadzu”	2011	20,592	Good
Water and Soil analysis kit	2011	19,750	Good
Digestion system (Kelplus)	2011	1,12,216	Good
Distillation system (Kelplus)	2011	1,82,936	Good
Instrument table	2011	78,000	Good
Rack,Almirah, Angle Iron rack	2011	70,000	Good
Soil and Plant storage cabin	2011	1,00,000	Good
Wash basin, sink and exhauster fan	2011	70,000	Good
Servo relay stabilizer – 2 Kva	2011	7,500	Good
Micropipette	2011	3,600	Good
Buchner funnel with flask	2011	2000	Good
Titration unit	2011	10,000	Good
Vacuum pump	2011	5,000	Good
HCL Computer with printer	2011	37,600	Good
* PHDF Components			
Wall Table	2011	58,800	Good
Sink with table	2011	11,025	Good
Wall Cup board	2011	24,150	Good
Revolving Stools	2011	6,720	Good
Air Conditioner	2011	5,562	Good
Vertical blinds	2011	26,250	Good
Separator	2011	15,750	Good
Microwave Oven	2011	5,775	Good
Analytical Balance	2011	23,100	Good
Micro Pipettes	2011	17,168	Good
Auto Clave	2011	34,650	Good
Laminar Air Flow Chamber	2011	29,400	Good
Stereo Zoom Microscope	2011	81,900	Good
Magnifier	2011	4,987	Good
Hot Air Oven	2011	25,200	Good
Deep Freezer	2011	20,475	Good
BOD Incubator	2011	37,800	Good
pH Meter	2011	6,300	Good
Refrigerated Centrifuge	2011	1,51,725	Good

D.O. Meter	2011	9,922	Good
UV Chamber	2011	8,925	Good
Digital Moisture Meter	2011	9,450	Good
Display Cabinet	2011	25,200	Good
Cold Water Supplier	2011	40,950	Good
UPS	2011	42,000	Good
Data Processing System	2011	74,500	Good
Single Glass Distillation Apparatus	2011	63,000	Good

1.8. Details SAC meeting conducted in 2013-14

Sl.No.	Date	Number of Participants	No. of absentees	Salient Recommendations	Action taken
1.	18.6.2013	19 Nos.	-	A demo and training on water management should be conducted from Krishi Vigyan Kendra	5 Demonstration and 3 trainings conducted to farmers(150 Nos.)
2.				Increasing vermicompost production training/demo.	Two demonstration conducted on Vermicompost production techniques
3.				Bee keeping	One training imparted to farmers and SHGs
4.				High density planting in Mango and Cashew	35 nos. of farmers were taken to Jain irrigation farm at Udumalpet for High density Mango planting under exposure visit
5.				A technology is needed for saline soil management and saline water management in Thalaignayuru	Demonstration were conducted at 10 farmers holding and imparted training to 50 farmers under FLD 2013-14
6.				A training on post harvest technology of crops should be conducted	2 nos. of training were conducted 1. food processing and value addition in rice and pulses for 60 Nos. of farmers by WTC, TNAU and IICPT, Thanjavur. 2. 60 farmers were trained by Food processing mission, Dept. of Agri. Marketing.
7.				New seed processing unit should be installed in Krishi Vigyan Kendra	Proposal was submitted in the XII five year plan
8.				Demo on hybrid rice	10 nos. of demonstrations were given on TNAU Hybrid rice Co4 under FLD
9.				Increased production of vermicompost and <i>Azolla</i> in Krishi Vigyan Kendra	2.0 tonnes of Vermicompost and 200 kgs. of <i>Azolla</i> were produced and sold to the farmers .
10.				FLD on Mini mobile sprinkler in greens	Conducted through FLD at 20 farmers field and method demonstrations were conducted

					to 150 farmers at KVK, Sikkal
11.				Recommendations should be given to the farmers to cultivate the vegetables in Thai pattam at garden land	Proposed FLD during the year 2014-15
12.				Biofertilizers should be produced in Krishi Vigyan Kendra	<i>Pseudomonas florescence</i> 2600 kgs were produced and sold to the farmers

PART II - DETAILS OF DISTRICT

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

S. No	Farming system/enterprise
Rice based farming system is followed in this district	
1.	Rice – Rice – Rice fallow Pulse
2.	Rice – Rice - fallow Cotton
3.	Rice – Rice – Groundnut / Sesame
4.	Rice – Rice – Sugarcane (3 years rotation)
5.	Rice – Rice fallow pulses/ Cotton
6.	Rice – vegetables / flower crops

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

S. No	Agro-climatic Zone	Characteristics
1	Cauvery Delta Zone	Nagapattinam a coastal district of Tamil Nadu, lies between 100 80 and 110 28' in North Latitude and 760 34' and 750 53' in East Longitude. It is bounded on the North by Cuddalore, South by Palk Strait, West by Tiruvarur and on the East by Bay of Bengal

S. No	Agro ecological situation	Characteristics
1	Coastal Eco system	Nagapattinam is categorized as agro-ecological region 18, representing the Coastal eco-system-Eastern coastal plain, hot sub-humid to semi-arid eco-system with a growing period of 90 to 210 days

2.3 Soil type/s

S. No	Soil type	Characteristics	Area in ha
1.	Clay loam	High WHC	98,000
2.	Clay sandy loam	Medium WHC	55,000
3.	Sandy soil	Low WHC	35,000
		Total	1,88,000

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

S. No	Crop	Area (ha)	Production (Metric tons)	Productivity (kg /ha)
•	Paddy	160440	1013650	6318
•	Millets	27	-	
•	Black gram	49983	43480	870
•	Green Gram	42034	36779	875
•	Cotton	2633	-	-

•	Sugarcane	3256	-	-
•	Ground Nut	1913	-	-
•	Sesame	729	-	-
•	Mango	3160	52000	16000
•	Cashew	1634	800	490
•	Banana	776	-	-
•	Vegetables	537	-	-

(Source-Joint Director of Agriculture, Nagapattinam Dt.)

2.5. Weather data

Month	Rainfall (mm)	Temperature ° C		Relative Humidity (%)
		Maximum	Minimum	
April 2013	-	34.0	27.8	76.5
May 2013	1.0	36.7	27.5	74.0
Jun-2013	3.4	37.1	26.9	63.3
July 2013	27.1	36.7	26.3	55.3
Aug 2013	214.7	35.0	25.8	96.7
Sep 2013	153.0	33.6	25.2	98.2
Oct 2013	101.6	32.0	24.0	55.2
Nov-2013	222.4	30.1	23.5	64.0
Dec 2013	267.6	29.0	23.0	94.2
Jan 2014	2.0	29.0	21.3	96.0
Feb 2014	1.0	29.0	21.5	97.5
March 2014	-	33.0	23.4	75.5

(Source-Joint Director of Agriculture, Nagapattinam Dt.)

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

Category	Population	Production	Productivity
Cattle			
<i>Crossbred</i>	254611	-	-
<i>Indigenous</i>		-	-
Buffalo			
<i>Crossbred</i>	54061	-	-
Sheep			
<i>Crossbred</i>	9834	-	-
<i>Indigenous</i>	23220	-	-
Goats			
<i>Crossbred</i>	107719	-	-
<i>Indigenous</i>	322205	-	-
Pigs			
<i>Crossbred</i>	818	-	-
<i>Indigenous</i>	2598	-	-
Rabbits			
	1377	-	-
Poultry			
Hens		-	-
<i>Desi</i>	264164	-	-
<i>Improved</i>	35894	-	-
Ducks	12712	-	-
Turkey and others	775	-	-

Category	Area	Production	Productivity
Fish	-		
<i>Marine</i>	-	61479	
<i>Inland</i>	-	7120	
Prawn	-		2.0 t
Scampi	-		
Shrimp	-		

(Source: Joint Director of Animal Husbandry, Nagapattinam)

2.7 District profile has been **Updated** for 2013-14 Yes /No

- Yes

2.8 Details of Operational area / Villages

Sl.No.	Taluk	Name of the block	Name of the village	How long the village is covered under operational area of the KVK (specify the years)	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1.	Tranqubar, Kilvelur	Sembnarkoil Kilvelur	Neduvasal , Illupur	4	Paddy	Yield reduction due to salinity	Increasing the productivity of rice in saline soils
2.	Kilvelur, Tranqubar, Nagapattinam	Keevalur Sembnarkoil Kilvelur Nagapattinam	Illupur Semangalam PR puram, Avarni, Ponvali, Sikkal, Palapannaichery.	5	Rice fallow pulses, vegetables, flowers	Very low yield due to non adoption of management practices	Increasing the productivity of rice fallow crops, Crop diversification
3.	Nagapattinam, Kilvelur, Thirukuvalai	Nagapattinam, Kilvelur Keezhaiyur	Mohanur, P.R.Puram and velankanni	4	Rice, Rice fallow pulses,	Low income under existing pulses	Evaluation of short duration red gram varieties for enhancing the farm returns
4.	Nagapattinam	Nagapattinam Keelaiyur Keezhvelur Thalainayar	Paliyur Kameshwaram Nangudi Thalainayar	5	Rice, Ragi, vegetables	Yield reduction due to salinity	Promoting saline tolerant crops in saline soils

5	Vetharanyam, Thirukuvali	Vetharanyam, Keelaiyur,	Karuppampulam, Pushbavanam, Katharipulam and Thiruvaimoor	2	Coconut, Mango, Rice, Vegetables, flowers	Low yield of rice (< 3 t/ha), – problem soil, Button shedding and MN, deficiency in coconut, Labour problem for crop cultivation, Drought.	Crop diversification, Farm mechanization, ICM and cultivars in salt affected soils, INM for coconut , ICM for salt affected soil.
6	Sirkali, Thirukuvalai	Sirkali, Keelaiyur,	Radhanallur, Ilaiyamathukoodam, Seeravattam.	2	Vegetables, Sugarcane, Tapioca, Rice	Severe drought during cropping period, White grub in sugarcane , Less than 30% damage caused by PMB, Low productivity of existing rice varieties, Severe terminal drought affect rice fallow pulses yields (5-10% yd reduction),	ICM practices for drought mitigation, IPM modules for sugarcane, Eco - friendly IPM modules for major sucking pests , Quality seed production of rice variety ,
7	Thirumarugal, Kilvelur,		Marungoor, Kongarayanallur, Koothur	3	Rice, Pulses and Sesame, Cotton	Severe Bacterial diseases during rabi rice crop, Severe drought affect rice fallow pulses yields, Low water availability and salinity reduce rice yield during kharif and summer, Farmers preference on white seeded varieties ,	Introduction of white seeded Sesame variety, IDM for rice, ICM for drought mitigation,

2.9 Priority thrust areas

S. No	Thrust area
1.	Increasing the productivity of rice/ICM practices
2.	Increasing the productivity of rice fallow crops
3.	Evaluation of short duration red gram varieties for enhancing the farm returns
4.	Promoting saline tolerant crops in saline soils
5	Crop diversification
6	Farm mechanization
7	INM and IPDM for major crops
8	Integrated Farming System
9	ICM for Drought mitigation

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
4	4	20	20	13	13	123	138

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
75	73	2500	2899	500	1665	3000	7326

Seed Production (Qtl.)		Planting materials (Nos.)	
5		6	
Target	Achievement	Target	Achievement
3	2.61	6000	5515

Livestock, poultry strains and fingerlings (No.)		Bio-products (Kg)	
7		8	
Target	Achievement	Target	Achievement
-	-	500	571

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

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions											
				Title of OFT if any	Title of FLD if any	Number of Training (farmers)	Number of Training (Youths)	Number of Training (extension personnel)	Extension activities (No.)	Supply of seeds (Qtl.)	Supply of planting materials (No.)	Supply of livestock (No.)	Supply of bio products		
1.	Increasing the productivity of rice in saline soils	Paddy	Yield reduction due to salinity	-	ICM practices for rice in salt affected areas of Nagapattinam	Off campus – 1 On campus - 2	-	-	-	-	PaddyTRY 3 - 3.75 qtl Daincha – 1.87.5	-	-	-	-
2.	Increasing the productivity of rice by quality seed production	Paddy	Low yield due to non availability of quality seed	-	Quality seed production of newly released rice variety TNAU Rice ADT 50	Off campus – 1 On campus - 2	-	-	-	-	PaddyADT 50 - 2.00 qtl	-	-	<i>Pseudomonas</i>	5 kg
														<i>Azophos</i>	5kg
3.	Drought mitigation and farm mechanization	Paddy	Severe terminal drought affect rice fallow pulses yields (5-10% yd reduction)	-	Integrated crop management (ICM) practices for drought mitigation in DSR	Off campus – 1 On campus - 2	-	-	Field day-1	-	-	-	-	<i>Azophos</i> <i>Pseudomonas</i>	9kg 13.5 kg
														PPFM	2.5 litre
														Pf1(liquid)	6.25 litre
4.	IPDM for rice	Paddy	Severe Bacterial diseases during rabi/ thaladi rice crop	-	Management of bacterial disease in rice	Off campus – 1 On campus - 2	-	On campus - 2	-	-	-	-	-	Pf1(liquid)	40 litre
5.	Increasing the productivity of rice fallow crops	Rice fallow black gram	Very low yield due to non adoption of management practices	-	ICM for Rice Fallow – Black gram	Off campus - 2	-	-	Demo-1	-	Black gram VBN 6 – 1.12 qtl	-	-	<i>Rhizobium</i> ,	11.7 kg
														<i>Phosphobacteria</i>	11.7kg
6.	Promoting short duration redgram varieties for enhancing the farm returns	Red gram	Low income under existing pulses	Suitable short duration red gram varieties for Nagapattinam District	-	Off campus - 1	-	-	Demo - 1	-	Red gram VB N3- 0.20 qtl CO 7 - 0.20 qtl	-	-	-	-

7.	Drought mitigation	Black gram	Severe terminal drought affect rice fallow pulses yields (5-10% yd reduction)	Foliar spray of PPFM (pink pigmented facultative methylo trophs) to mitigate terminal drought in rice – fallow pulses	-	Off campus - 2	-	-	-	-	-	-	PPFM	1litre
8.	Increasing the productivity by ICM	Sesame	Low market value for black sesame	-	ICM practices for SVPR -1 (white) Sesame	Off campus - 2	-	-	-	Seed (SVPR 1) – 0.15 qtl	-	-	Azop hos- <i>T.viride</i>	27.5 kg 100g
9.	Promoting saline tolerant crops in saline soils	Ragi	Yield reduction due to salinity	-	Introduction and promotion of ragi in salt affected soils of Nagapattinam District	-	-	-	Field day - 1	Ragi - CO 14 0.20 qtl	-	-	-	-
10.	Integrated pest management	Sugarcane	Yield reduction due to white grub damage	Assessment of IPM modules for sugarcane white grub management	-	Off campus -2	-	On campus-1	-	-	-	-	Neem cake Beaveria Metarhizium	250 kg 10 kg 10kg
11.	Increasing the productivity by varietal evaluation	Elephant foot yam	Low income from coconut as sole crop	Assessment of elephant foot yam varieties suitable for intercropping in coconut	-	Off campus -2	-	-	Demo - 1	-	Elephant foot yam seed corms 9.00 qtl	-	-	-
12.	Increasing production during summer season	Amaranthus	Low income during summer	-	Demonstrating greens cultivation during summer using mobile sprinkler	Off campus – 1 On campus - 2	-	On campus - 2	Demo-2	Amaranthus seeds 0.10 qtl	-	-	-	-
13.	IPDM	Tapioca	30 %Yield reduction due to sucking pest damage	-	Popularization of Ecofriendly IPM modules for major sucking pests in tapioca	Off campus -2	-	On campus-1	-	-	-	-	<i>Acero phagus</i>	2000 Numbers

14.	Crop diversification	Marigold	Introduction of flower crops	-	Introduction of marigold in coastal regions of Nagapattinam district	Off campus – 1 On campus - 2	-	-	Field day-2	Marigold seeds 0.0 6 qtl	-	-	-	-
15.	Promotion of fruit crops in coastal area	Papaya	Cultivation of papaya as commercial fruit crop	-	Demonstrating papaya as a commercial fruit crop in coastal areas of Nagapattinam district	Off campus – 1 On campus - 1	-	-	-	Seeds0.001 qtl	-	-	-	-
16.	Integrated nutrient management	Coconut	Button shedding and MN deficiency	-	Demonstration of micro nutrient mixture / coconut tonic in coconut	Off campus – 1 On campus - 2	-	-	Demo-2	-	-	-	-	-
17.	Integrated Framing System		Low productivity under conventional cropping system		Promotion of Integrated Farming System	3	1	-	2	Fish fingerlings-3200 nos.	-	-	-	-
18.	Increasing market value of pulses	Black gram, Green gram	Low market value of pulses	-	Commodity group approach for black gram and green gram cultivation	Off campus – 2 On campus - 2	-	On campus – 1	-	-	-	-	-	-

3.B2. Details of technology used during reporting period

S.No	Title of Technology	Source of technology	Crop/enterprise	No. of programmes conducted			
				OFT	FLD	Training	Others (Specify)
1	2	3	4	5	6	7	8
1.	ICM practices for rice in salt affected areas of Nagapattinam	TNAU, CPG 2012	Paddy	-	10	Off campus – 1 On campus - 2	Field day-1
2.	Quality seed production of newly released rice variety TNAU Rice ADT 50	TNAU, CPG 2012	Paddy	-	10	Off campus – 1 On campus - 2	Field day-2
3.	Integrated crop management (ICM) practices for drought mitigation in DSR	TNAU, CPG 2012	Paddy	-	10	Off campus – 1 On campus - 2	Field day-1
4.	Management of bacterial disease in rice	TNAU, CPG 2012	Paddy	-	10	Off campus – 1 On campus - 4	Field diagnostic visits -3
5	ICM for Rice Fallow – Black gram	TNAU, CPG 2012	Rice fallow black gram	-	10	Off campus - 2	Demo- 1
6	Suitable short duration red gram varieties for Nagapattinam District	TNAU, CPG 2012	Red gram	5	-	Off campus - 1	Demo - 1

7	Foliar spray of PPFM (pink pigmented facultative methylotrophs) to mitigate terminal drought in rice – fallow pulses	TNAU, CPG 2012	Black gram	5	-	Off campus - 2	-
8	ICM practices for SVPR -1 (white) Sesame	TNAU, CPG 2012	Sesame	-	10	Off campus - 2	-
9	Introduction and promotion of ragi in salt affected soils of Nagapattinam District	TNAU, CPG 2012	Ragi	-	10	-	Field day - 1
10	Assessment of IPM modules for sugarcane white grub management	TNAU, 2012 SBI, 2010	Sugarcane	5	-	Off campus -2 On campus -1	-
11	Assessment of elephant foot yam varieties suitable for intercropping in coconut	CTCRI, ANGRAU, 2006	Elephant foot yam	5	-	Off campus -2	Demo -1
12	Demonstrating greens cultivation during summer using mobile sprinkler	TNAU	Amaranthus	-	20	Off campus – 1 On campus – 4	Demo-2
13	Popularization of Ecofriendly IPM modules for major sucking pests in tapioca	TNAU	Tapioca	-	10	Off campus -2 On campus -1	-
14	Introduction of marigold in coastal regions of Nagapattinam district	TNAU	Marigold	-	10	Off campus – 1 On campus – 2	Field day-3
15	Demonstrating papaya as a commercial fruit crop in coastal areas of Nagapattinam district	TNAU	Papaya	-	10	Off campus – 1 On campus – 1	-
16	Demonstration of micro nutrient mixture / coconut tonic in coconut	TNAU	Coconut	-	10 (20 tree/demo)	Off campus – 1 On campus - 2	Demo-2, Field day 1
17	Integrated farming system	TNAU, TANUVAS	-	-	3	Off campus – 2 On campus - 2	Demo-2
18	Commodity group approach for black gram and green gram cultivation	TNAU	Black gram & green gram	-	20 farmers	Off campus – 2 On campus - 3	-

3.B2 contd..

No. of farmers covered															
OFT				FLD				Training				Others (Specify)			
General		SC/ST		General		SC/ST		General		SC/ST		General		SC/ST	
M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
2	1	2	-	20	4	4	2	130	20	22	12	40	8	8	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
Varietal Evaluation	-	-	1	-	1	-	-	-	-	2
Integrated Pest Management	-	-		1	-	-	-	-	-	1
Integrated Crop Management	-	-	1	-	-	-	-	-	-	1
Total			2	1	1	--	-	-	-	4

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

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

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

4.B. Achievements on technologies Assessed and Refined

4.B.1. Technologies Assessed under various Crops

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha (Per trial covering all the Technological Options)
Varietal Evaluation	Red gram	Suitable short duration red gram varieties for Nagapattinam District	5	5	2
	Elephant foot yam	Assessment of suitable elephant foot yam varieties for coconut Intercropping	5	5	0.3
Integrated Pest Management	Sugarcane	Assessment of IPM modules for sugarcane white grub management	5	5	2
Integrated Crop Management	Black gram	Assessment of foliar spray of PPFM to mitigate terminal drought in rice fallow pulses	5	5	2
Total			20	20	6.3

4.B.2. Technologies Refined under various Crops : - Nil

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

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

4.C1. Results of Technologies Assessed

OFT-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
							TO1	TO2	TO3				
1	2	3	4	5	6	7	TO1	TO2	TO3	9	10	11	12
Red gram	Irrigated	Low income under existing pulses	Suitable short duration red gram varieties for Nagapattinam District	5	Tech.1: Farmers practice Tech.2: VBN 3+ TNAU Micronutrient mixture @ 5 kg/ha Tech.3: CO 7 + ZnSO4 @25 kg/ha	Yield (Q/ha) 100 grain yield	7.20 7	9.80 10	8.50 8	VBN 3 variety along with soil application TNAU Micronutrient mixture @ 5 kg/ha performed better by producing higher pod yield (9.80 q/ha) than CO 7 and local variety.	Farmers are satisfied with VBN 3 red gram variety	-	-

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
TO1: (Farmer's practice)		7.20	q/ha	17500	1.95
TO2:VBN 3+ TNAU Micronutrient mixture @ 5 kg/ha	TNAU, CPG 2012	9.80	q/ha	27400	2.27
TO 3: CO 7 + ZnSO4 @25 kg/ha	TNAU, CPG 2012	8.50	q/ha	22500	2.12

OFT 2

Crop/enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter (qtl/ha)	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
Black gram	Rice fallow	Severe drought during cropping period	Assessment of foliar spray of Pink Pigmented Facultative Methylo trophs (PPFM) to mitigate terminal drought in rice fallow pulses	5	TO1: Farmers practice	Yield and BCR	5.8	14.5 % of yield increased TO2 and 12.4% TO3 in yield was 14.48 in TO2 and 12.41 in TO3	Foliar of KCl as well as PPFM have not shown much difference in yield.	-	-
					TO2:FS KCl 1%+100 ppm boric acid spray on 30 DAS		6.52				
					TO3:ST with PPFM (3packets/ha)+FS of PPFM (2ml/l) on 30DAS		6.64				

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
TO1: Farmers practice	Local	5.80	Q/ha	12625	1.77
TO2:FS KCl 1%+100 ppm boric acid spray on 30 DAS	TNAU, 2012	6.52	Q/ha	15850	1.95
TO3:ST with PPFM (3packets/ha)+FS of PPFM (2ml/l) on 30DAS	TNAU, 2010	6.64	Q/ha	16615	2.00

OFT3

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
Sugarcane	Irrigated	White grub infestation reduces the yield	Assessment of IPM modules for the white grub management in Sugarcane	5	Application of Carbofuran or Lindane dust	Percentage reduction of infestation	54.18%	The biopesticides applied along with FYM + 50 kgs of Neem cake at the earlier reduces the infestation. The first two instars were more susceptible than the third instar.	The later instars grubs are difficult to manage. Dosage of insecticides for the later instars should be worked out.	Yes	Dosage of insecticides for the later instars should be refined.
					Flooding soil, Neem cake @ 125 kg/ha, Carbofuran-3G@ 12.5kg/ha		72.16%				
					<i>Beaveria brongniartii</i> @5kg/ha + 50 kg neem cake (Basal) followed by <i>Metarhizium anisopliae</i> @ 5kg/ha + 50 kg neem cake after first occurrence or 45 DAP		63.41%				

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) Application of Carbofuran or Lindane dust	Local	730	Q/ha	102500	2.28
Technology option 2 Flooding soil, Neem cake @ 125 kg/ha, Carbofuran-3G@ 12.5kg/ha	TNAU, 2012	740	Q/ha	107000	2.37
Technology option 3 <i>Beaveria brongniartii</i> @5kg/ha + 50 kg neem cake (Basal) followed by <i>Metarhizium anisopliae</i> @ 5kg/ha + 50 kg neem cake after first occurrence or 45 DAP	SBI, 2010	780	Q/ha	115000	2.43

OFT 4

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials
1	2	3	4	5
Vegetables	Garden land	Low income in coconut as sole crop	Assessment of suitable Elephant Foot Yam varieties for intercropping in coconut	5

Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
6	7	8	9	10	11	12
Tech. option 1: Sree Padma	Yield (Q/ha)	Crop is in early vegetative stage. The trial is in progress				
Tech. option 2:Sree Athira	Gross income (Rs./ha)					
Tech. option 3Gajendra	Net income(Rs./ha)					

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: Sree Padma	CTCRI, 1993	Crop is in early vegetative stage. The trial is in progress			
Technology option 2:Sree Athira	CTCRI, 2006				
Technology option 3Gajendra	ANGRAU, 2006				

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

OFT 1 - Suitable short duration red gram varieties for Nagapattinam District

1	Title of Technology Assessed	:	Suitable short duration red gram varieties for Nagapattinam District
2	Problem Definition	:	Low income under existing pulses
3	Details of technologies selected for assessment	:	TO.1: Farmers practice TO.2::VBN 3+ TNAU Micronutrient mixture @ 5 kg/ha TO.3:: CO 7 + ZnSO4 @25 kg/ha
4	Source of technology	:	TNAU,CPG 2012
5	Production system and thematic area	:	Irrigated and varietal evaluation
6	Performance of the Technology with performance indicators	:	TO1 : 7.20 q/ha, TO2 : 9.80 q/ha TO3 : 8.50 q/ha
7	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	:	VBN 3 variety is suitable to Nagapattinam district than CO 7.
8	Final recommendation for micro level situation	:	Among the different varieties assessed in the winter irrigated season of Nagapattinam district, VBN 3 variety along with soil application TNAU Micronutrient mixture @ 5 kg/ ha performed better by producing higher pod yield (9.80 q/ha) than CO 7 and local variety.
9	Constraints identified and feedback for research	:	-
10	Process of farmers participation and their reaction	:	-

OFT – 2 Assessment of foliar spray of PPFM to mitigate terminal drought in rice fallow pulses

1.	Title of Technology Assessed	:	Assessment of foliar spray of PPFM to mitigate terminal drought in rice fallow pulses
2.	Problem Definition	:	Severe drought during cropping period
3.	Details of technologies selected for assessment	:	TO1: Farmers practice
		:	TO2:FS KCl 1%+100 ppm boric acid spray on 30 DAS
		:	TO3:ST with PPFM (3packets/ha)+FS of PPFM (2ml/l) on 30DAS
4.	Source of technology	:	TNAU, 2010 and 2012
5.	Production system and thematic area	:	Drought mitigation
6.	Performance of the Technology with performance indicators	:	TO1 : 5.80 q/ha, TO2 : 6.64 q/ha TO3 : 6.52 q/ha
7.	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	:	KCl 1% spraying recorded increased yield over PPFM and Farmers practice
8.	Final recommendation for micro level situation	:	Foliar of KCl as well as PPFM have not shown much difference in yield. When considering the ecology and economics , foliar spraying if PPFM can be recommended
9.	Constraints identified and feedback for research	:	-
10.	Process of farmers participation and their reaction	:	

OFT 3 - Assessment of IPM modules for the white grub management in Sugarcane

1	Title of Technology Assessed	:	Assessment of IPM modules for the white grub management in Sugarcane
2	Problem Definition	:	White grub infestation reduces the yield
3	Details of technologies selected for assessment	:	Technology option 1 (Farmer's practice) Application of Carbofuran or Lindane dust
		:	Flooding soil, Neem cake @ 125 kg/ha, Carbofuran-3G@ 12.5kg/ha
		:	<i>Beauveria brongniartii</i> @5kg/ha + 50 kg neem cake (Basal) followed by <i>Metarhizium anisopliae</i> @ 5kg/ha + 50 kg neem cake after first occurrence or 45 DAP
4	Source of technology	:	SBI
5	Production system and thematic area	:	Integrated Pest Management
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	:	Application of <i>Beauveria brongniartii</i> @ 5 Kg/ha along with FYM+ 50 kg of Neem cake reduces the incidence up to 63.41%. The application should be done as a preventive strategy.
9	Constraints identified and feedback for research	:	The later instars of white grub are not susceptible to this fungus. Hence spatial and time application studies are a pre requisite to increase the effectiveness of the fungus in the field level.
10	Process of farmers participation and their reaction	:	The later instars grubs are difficult to manage. Dosage of insecticides for the later instars should be worked out.

OFT 4 - Assessment of suitable Elephant Foot Yam varieties for intercropping in coconut

1	Title of Technology Assessed	:	Assessment of suitable Elephant Foot Yam varieties for intercropping in coconut
2	Problem Definition	:	Low income in coconut as a sole crop
3	Details of technologies selected for assessment	:	Technology option 1: Sree Padma Technology option 2:Sree Athira Technology option 3:Gajendra
4	Source of technology	:	KAU
5	Production system and thematic area	:	Garden land and varietal evaluation
6	Performance of the Technology with performance indicators	:	Crop is in early vegetative stage. The trial is in progress
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	:	

4. D1. Results of Technologies Refined : Nil

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

-Nil-

PART V - FRONTLINE DEMONSTRATIONS

5.A. Summary of FLDs implemented during 2013-14

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	Cereals	Irrigated	Rabi/Samba 2013-14	Paddy	TNAU Rice ADT 50	-	Increasing the productivity of rice	Quality seed production of newly released variety TNAU Rice ADT 50	4.0	6.0	2	13	15	-
2	Cereals-	Irrigated	Rabi/Thaladi 2013-14	Paddy	Paddy TRY 3	-	Increasing the productivity of rice in problem soils	ICM practices for rice in salt affected areas of Nagapattinam	5	5	3	7	10	-
3	Cereals-	Direct sown	Rabi/Samba 2013-14	Paddy	BPT5204	-	Increasing the productivity by mitigating drought	ICM practices to mitigate drought in DSR rice crop	5	5	3	7	10	-
4	Cereals	Irrigated	Rabi/Samba 2013-14	Paddy	BPT5204	-	Integrated disease management	Management of bacterial disease in rice	4	4	3	7	10	-
5	Pulses	Rice fallow	Rice fallow /Markali2014	Black gram	VBN 6	-	Increasing the productivity of rice fallow crops	ICM in rice fallow black gram	4	4	2	8	10	-
6	Millets - Ragi	Irrigated	Adipattam (June-July) 2013	Ragi	CO 14	-	Introducing the saline tolerant crops	Introduction and promotion of ragi in salt affected soils of Nagapattinam district.	4	4	2	8	10	-
7	Oilseeds	Irrigated	Feb- 2014(Masi)	Sesame	SVPR 1	-	Increasing productivity of oilseed crop	ICM practices for SVPR1 white seeded Sesame	4	4	2	8	10	-
8	Vegetables	Irrigated	Summer Irrigate (April-May 2013)	Amaranthus	PLR1	-	Cultivation of greens during summer using available water	Demonstrating greens cultivation during summer using mobile sprinkler	4	4	4	16	20	-

9	Tapioca	Rainfed/Irrigated	Adipattam/ Jan – Oct 2013	Tapioca	Sri Prakash	-		Popularization of Ecofriendly IPM modules for major sucking pests in tapioca	4	4	2	8	10	-
10	Flowers	Irrigated	Adipattam/ June-July 2013	Marigold	MDU1 (Tall)	-	Crop diversification	Introduction of marigold in coastal regions of Nagapattinam district	4	4	2	8	10	-
11	Fruit	Irrigated	Adipattam/ June-Sep 2013	Papaya	CO8	-	Introducing papaya cultivation as commercial fruit crop	Demonstrating papaya as a commercial fruit crop in coastal areas of Nagapattinam district	2	2	2	8	10	-
12	Commercial	Irrigated	Special seaso- June-sep- 2012-13	Sugarcane	COSi8	-	Increasing production through SSI and using newly released variety	Enhancing sugarcane production through sustainable sugarcane initiative (2012-13)	10	5	5		5	-
13	Plantation	Irrigated	June –July 2013-14	Coconut	ECT	-	Integrated crop management	Demonstration of micronutrient mixture / coconut tonic in coconut	4	4	10		10	-
14	Common carps	Rice based ecosystem	Dec-2013	Inland fish	Catla,Rogu, Mirgal	-	Integrated farming system under rice based ecosystem	Promotion of Integrated farming system	3	0.8	1	2	3	-

5.A. 1. Soil fertility status of FLDs plots during 2013-14

Sl. No.	Category	Farming Situation	Season and Year	Crop	Variety/breed	Hybrid	Thematic area	Technology Demonstrated	Season and year	Status of soil			Previous crop grown
										N	P	K	
1	Cereals	Irrigated	Rabi/samba 2013-14	Paddy	TNAU Rice ADT 50	-	Increasing the productivity of rice	Quality seed production of newly released variety TNAU Rice ADT 50	Rabi/samba 2013-14	L	M	M	Paddy
2	Cereals	Irrigated	Rabi/Thaladi 2013-14	Paddy	TRY 3	-	Increasing the productivity of rice in saline soils	ICM practices for rice in salt affected areas of Nagapattinam	Rabi/Thaladi 2013-14	L	M	M	Paddy
3	Paddy	Direct sown	Rabi/samba 2013-14	Paddy	BPT5 204	-	Increasing the productivity by mitigating drought	ICM practices to mitigate drought in DSR rice crop	Rabi/samba 2013-14	L	M	M	Paddy
4	Paddy	Irrigated	Rabi/samba 2013-14	Paddy	BPT5 204	-	Integrated disease management	Management of bacterial disease in rice	Rabi/samba 2013-14	L	M	H	Paddy
5	Millets	Irrigated	Adipattam (June- July) 2013	Ragi	CO 14	-	Increasing the productivity of crops in saline soils	Introduction and promotion of ragi in salt affected soils of Nagapattinam district.	Adipattam (June- July) 2013	L	M	M	Paddy
6	Pulses	Rice fallow	Markali/Rice fallow 2014	Black gram	VBN 6	-	Increasing the productivity of rice fallow crops	ICM in rice fallow black gram	Markali/Rice fallow 2014	L	M	M	Paddy
7	Oilseeds	Irrigated	Masi/Feb-2014	Sesame	SVP R 1	-	Increasing productivity of oilseed crop	ICM practices for SVPR1 white seeded Sesame	Masi/Feb-2014	L	M	M	paddy
8	Vegetables Amaranthus	Summer Irrigated	Summer/April-May 2013	Amaranthus	PLR1	-	Cultivation of greens during summer using available water	Demonstrating greens cultivation during summer using mobile sprinkler	Summer/April-May 2013	L	M	M	Vegetables
9	Tapioca	Irrigated	Jan – Oct/Thai 2013	Tapioca	Sri Prakash	-	IPM module	Popularization of Ecofriendly IPM modules for major sucking pests in tapioca	Jan – Oct/Thai 2013	L	M	H	Vegetables

10	Flowers	Irrigated	June-July /Adipattam2013	Marigold	MDU 1 (Tall)	-	Crop diversification	Introduction of marigold in coastal regions of Nagapattinam district	June-July /Adipattam2013	L	M	M	Vegetables
11	Fruit	Irrigated	June-Sep/Adipattam- 2013	Papaya		-	Introducing papaya cultivation as commercial fruit crop	Demonstrating papaya as a commercial fruit crop in coastal areas of Nagapattinam district	June-Sep/Adipattam-2013	L	M	M	Vegetables
12	Commercial Sugarcane	Irrigated	Special season- June-sep-2012-13	Sugarcane	COSi 8	-	Increasing production through SSI and using newly released variety	Enhancing sugarcane production through sustainable sugarcane initiative (2012-13)	Special season- June-sep-2012-13	L	M	M	Sugarcane
13	Coconut	Irrigated	Rabi/June-july-2013-14	Coconut	ECT	-	Integrated crop management	Demonstration of micronutrient mixture / coconut tonic in coconut	Rabi/June-july-2013-14	L	M	M	Coconut

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										
Creals	Quality seed production of newly released variety TNAU Rice ADT 50	TNAU Rice ADT 50	-	Irrigated	15	6.0	56.0	53.0	54.5	48.5	12.4	35000	70850	35850	2.0	35000	63050	28050	1.8
Pulses-Rice fallow pulses	ICM in rice fallow black gram	VBN 6	-	Rice fallow	10	4	8.50	7.10	8.20	6.50	26.2	19000	41000	22000	2.16	16500	32500	16000	1.96
Cereals - Paddy	ICM practices for rice in salt affected areas of Nagapattinam	TRY 3	-	Irrigated	10	5	56.2	42.6	48.2	36.5	32.0	43750	62660	18910	1.43	37500	47450	9950	1.27
Cereals - Paddy	Integrated crop management practices to mitigate drought in DSR	BPT 5204	-	Irrigated	10	5	43.1	40.6	41.85	36.0	16.25	20534	62775	42241	3.06	26000	45550	19550	1.75
Paddy	Management of bacterial disease in rice	BPT 5204	-	Irrigated	10	4	55.0	48.0	52.0	47.0	10.6	37000	67600	30600	1.83	35000	61100	26100	1.75
Millets - Ragi	Introduction and promotion of ragi in salt affected soils of Nagapattinam district.	CO 14	-	Irrigated	10	4	20.0	15.5	18.0	13.5	33.0	35000	54000	19000	1.50	33000	40500	7500	1.20
Oil seeds	ICM practices for SVPR1 white seeded Sesame	SVPR1	-	Irrigated	10	4.0	4.4	3.2	3.8	3.2	18.75	8500	28500	20000	3.4	7500	22400	7500	2.9
Vegetables	Demonstrating greens cultivation during summer using mobile sprinkler	PLR1	-	Irrigated	20	4	120	80	100	75	33	28000	100000	72000	3.6	25000	75000	50000	3.0
Tapioca	Popularization of Ecofriendly IPM modules for major sucking pests in tapioca	Sri Prakash	-	Irrigated	10	5	200	140	180	150	20	30000	108000	78000	3.6	30000	90000	64000	3.0

Flowers	Introduction of marigold in coastal regions of Nagapattinam district	MDU1 (Tall)	-	Irrigated	10	4	200	120	160	125	28	120000	400000	280000	3.33	110000	312500	202500	2.84
Fruit	Demonstrating papaya as a commercial fruit crop in coastal areas of Nagapattinam district	CO8	-	Irrigated	10	2	Demo is in progress												
Commercial Sugarcane	Enhancing sugarcane production through sustainable sugarcane initiative (2012-13)	COSi8	-	Irrigated	10	10	1750	1600	1675	1392	20.3	105817	427125	321308	4.04	99010	354909	255899	3.58
Coconut	Demonstration of micro nutrient mixture / coconut tonic in coconut	ECT	-	Irrigated	10	4	12500	8500	10500 (20 trees/year)	9100	15.3	35000	84000	49000	2.4	33000	72800	39800	2.2
Others (pl.specify)	Integrated Farming System Demo- fish fingerlings- 80-100 gm wt), Check- fish fingerlings- 10 gm wt (Harvested 6month period)	Composite fish	-	Rice based ecosystem	3	0.8	25.0	18.7	19.3	15.62	24.0	62500	187500	125000	3.0	62500	151209	88709	2.4

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

Quality seed production of newly released Rice variety ADT 50

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
No. of productive tillers per hill. No.	11	8
Panicle length(cm)	22.0	18.5
No. of grains per panicle	224	189

ICM in rice fallow black gram

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
No.of pods per plant	16	13
No.of seed per plant	7.0	6.0
100 grain weight(g)	3.8	3.2

ICM practices for rice in salt affected areas of Nagapattinam

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
Plant height(cm)	104.0	100.2
No. of productive tillers per hill	10.0	7.0
No.of panicle per hill	25	18
Panicle length	25.6	22.5
No. of grains per panicle	212	184
EC of the soil	0.32	0.38
pH of the soil	8.32	8.64

Introduction and promotion of ragi in salt affected soils of Nagapattinam district.

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
Plant height(cm)	120 cm	105 cm
No.of tillers	9	7
Ear length(cm)	10	8
No. of fingers	12	9

ICM practices for SVPR1 white seeded Sesame

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
Number of capsules/plant	42	34

Demonstrating greens cultivation during summer using mobile sprinkler

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
Plant height(cm)	20	16
Number of leaves per plant	36	30

Popularization of Ecofriendly IPM modules for major sucking pests in tapioca

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
Spiralling white fly incidence (%)	4.2	12.8
Papaya mealy bug incidence (%)	2.5	25.0

ICM practices to mitigate drought in DSR (Rice-BPT 5204)

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
Plant height	102.5	97.5
No. of productive tillers per hill.	10	8
Panicle length(cm)	18	18
No. of grains per panicle	218	198

Introduction of marigold in coastal regions of Nagapattinam district

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
Individual flower weight (g)	20	8
Number of flowers per plant	75	55
Flower yield per plant (kg)	1.5	0.8

Management of bacterial disease in rice

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
Disease index (PDI)	20	40

Enhancing sugarcane production through sustainable sugarcane initiative (2012-13)

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
No. of tillers/plant	20	8
Single cane weight(kg)	2.5	1.5

5.B.2. Livestock and related enterprises: - Nil

5.B.3. Fisheries : - Nil

5.B.4. Other enterprises : - Nil

5.B.5. Farm implements and machinery: - Nil

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

Sl.No.	Activity	No. of activities organised	Number of participants	Remarks
1	Field days	9	780	-
2	Farmers Training	26	800	-
3	Media coverage	10	-	-
4	Training for extension functionaries	10	35	-
5	Others (Please specify) demonstration	9	135	-

PART VI – DEMONSTRATIONS ON CROP HYBRIDS

Demonstration details on crop hybrids : NIL

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 Crop Management	4	114	19	133	73	5	78	187	24	211
Soil and Water Conservation										
Integrated Nutrient Management	3	174	-	174	28	-	28	202	-	202
Production of organic inputs										
Others (pl.specify (PRA)	1	25		25	5		5	30		30
Kisan Vani Day	1	18	5	23	7		7	25	5	30
Horticulture										
a) Vegetable Crops										
Production of low value and high volume crop	1	22	7	29	13	8	21	35	15	50
b) Fruits										
Cultivation of Fruit	1	35	15	50	20	10	30	55	25	80
g) Medicinal and Aromatic Plants										
Production and management technology	1	10	9	19	-	-	-	10	9	19
Post harvest technology and value addition										
Others (pl.specify) Flowers	2	12	11	23	8	7	15	20	15	35
Home Science/Women empowerment										
Value addition	1	4	13	17	-	20	20	4	33	37
Agril. Engineering										
Farm machinery and its maintenance	5	122	-	122	53	-	53	175	-	175
Plant Protection										
Integrated Pest Management	1	50	15	65	25	-	25	75	15	90

Integrated Disease Management	1	75	15	90	-	-	-	75	15	90
TOTAL	22	661	109	770	179	30	209	714	123	979

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										
Cropping Systems	1	35	5	40	-	-	-	35	5	40
Crop Diversification	1	23	2	25	5	-	5	28	2	30
Seed production	1	55	-	55	-	-	-	55	-	55
Nursery management										
Integrated Crop Management	5	122	5	127	78	-	78	200	5	205
a) Vegetable Crops										
Others (pl.specify)	1	11	1	12	7	1	8	18	2	20
Soil Health and Fertility Management										
Integrated nutrient management	3	190	70	260	32	13	45	222	83	305
Agril. Engineering										
Farm machinery and its maintenance	1	35	15	50	-	-	-	35	15	50
Plant Protection										
Integrated Pest Management	3	110	3	113	14	3	17	124	6	130
Integrated Disease Management	3	76	6	82	24	4	28	100	10	110
Others (pl.specify) Rat control	1	53	-	53	-	-	-	53	-	53
Production of Inputs at site										
Vermi-compost production	1	21	11	32	9	4	13	30	15	45
Organic manures production	1	32	-	32	8	-	8	40	-	40
TOTAL	22	763	121	885	177	25	202	940	146	1086

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
Repair and maintenance of farm machinery and implements	3	65	-	65	15	-	15	75	-	75
Value addition	1	30	5	35	10	5	15	40	10	50
TOTAL	4	95	5	100	25	5	30	115	10	125

7.D. Training for Rural Youths including sponsored training programmes (off campus): nil**7.E .Training programmes for Extension Personnel including sponsored training programmes (on campus)**

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops	8	107	10	117	42	5	47	149	15	164
Integrated Pest Management	1	22	13	35	8	2	10	30	15	45
Any other (pl.specify) PRA	1	15	-	15	-	-	-	15	-	15
Kisan Vani Day	1	25	5	30	-	-	-	25	5	30
Total	11	169	27	197	50	7	57	219	35	254

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops	3	25	7	32	5	2	7	30	9	39
Integrated Pest Management	1	30	5	35	-	-	-	30	5	35
Integrated Nutrient management	1	30	5	35	-	-	-	30	5	35
Any other (pl.specify) Soil Health	1	15	25	40	-	-	-	15	25	40
Integrates disease Management	1	30	5	35	-	-	-	30	5	35
Total	6	100	42	142	5	2	7	105	44	149

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
1	Crop production and management										
1.a.	Increasing production and productivity of crops	11	452	24	476	80	12	92	532	36	568
1.b.	Commercial production of vegetables	1	22	15	37	13	-	13	35	15	50
6	Others (pl.specify) IPM	1	44	1	45	-	-	-	44	1	45
	Commodity Potential	1	22	-	22	23	-	23	45	-	45
7	Post harvest technology and value addition										
7.a.	Processing and value addition	1	4	23	27	-	10	10	4	33	37
	Total	15	544	63	116	116	22	138	660	85	745

Details of sponsoring agencies involved

- 1.State Dept. of Agriculture
- 2.State Dept. of Horticulture
- 3.Agricultural Engineering Department
4. Department of Agricultural marketing
5. RSETI(Indian Overseas bank)
- 6.NABARD
5. TNAU

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

S.No.	Area of training	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
1	Crop production and management										
1.a.	Commercial floriculture	1	10	9	19	5	3	8	15	12	27
	Grand Total	1	10	9	19	5	3	8	15	12	27

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	12	100	30	130	22	8	30	6	2	8
Kisan Mela	5	85	2	87	10	2	12	-	-	-
Kisan Ghosthi										
Exhibition	3	200	50	250	30	20	50			
Film Show	6	150		150	22	8	30	30	5	35
Method Demonstrations	48	1105	455	1560	80	20	100	10	5	15
Farmers Seminar	12	852	90	942	100	20	120			
Workshop	12	125	65	190	25	5	30			
Lectures delivered as resource persons	10	230	20	250	30	20	50			

Newspaper coverage	30									
Radio talks	26									
TV talks	8									
Popular articles	5									
Extension Literature	10	750	25	775	185	40	225			
Advisory Services	472	174	12	186	32	8	40			
Scientific visit to farmers field	280	190	50	240	30	10	40			
Farmers visit to KVK	480	320	30	350	100	30	130			
Diagnostic visits	240	150	50	200	30	10	40			
Exposure visits	4	85	2	87	10	2	12			
Farm Science Club Conveners meet	2	30	-	30	10	-	10			
Total	644	4546	881	5420	716	203	919	56	12	68

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	ADT(R)50		11.25	2,47,50	112
	Paddy	ADT@46		8.3	18,260	60
	Paddy	IWP		6.6	14,520	40
Oilseeds		CR 1009		150.0	3,30,000	under processing
Pulses						
Commercial crops						
Vegetables	Maize cob		COMH6	243 No	729	25
Flower crops						
Spices						
Fodder crop seeds	C:N grass	CO3		22 bundle	220	8
	C:N grass	CO3		5200 slips	2,600	25
	C:N grass	CO4		50 slips	25	3
Fiber crops						
Forest Species						
Others (specify)	Fire wood			12 kg	30	1
	Seminar Hall Rent			6 days	7,250	-
	Hostel room rent			9 days	940	-
	Weather data			1 parameter	1,500	
	Paddy straw auction				1,850	
	Produce from Coconut tree auction				2,500	
	Coconut ungerminated nuts				150	
	Hire for Sugarcane bud cutter			1 day	100	
	Cattle trespass			2 No	100	
	Cr.bill (Cono weeder)				3,000	
Total					78,524.00	174

9.B. Production of planting materials by the KVKs

Crop category	Name of the crop	Variety	Hybrid	Number	Value (Rs.)	Number of farmers to whom provided
Commercial						
Vegetable seedlings	Tomato			1372	1400	5
	Coconut seedlings	ECT		2753	83190	150
Fruits						
Ornamental plants						
Medicinal and Aromatic						
Plantation						
Spices						
Tuber						
Fodder crop saplings	C:N grass	CO3		22 bundle	220	8
	C:N grass	CO3		5200 slips	2600	25
	C:N grass	CO4		50 slips	25	3
Forest Species						
Others(specify)	Vermicompost			1440 kg	8640	35
	Earth worms	E.foetida		8.350	3340	7
Total					99415	

9.C. Production of Bio-Products

Bio Products	Name of the bio-product	Quantity Kg	Value (Rs.)	Number of farmers to whom provided
Bio Fertilizers	-	-	-	-
Bio-pesticide	-	-	-	-
Bio-fungicide	<i>Pseudomonas</i> (Talc)	378	24750	50
	<i>Pseudomonas</i> (Liquid)	37.5 lt	11250	25
Bio Agents	Cocopeat	30	130	2
Others (specify)	Azolla	41	205	15
	Coconut tonic	84.25 lt	20188	50
Total			56523	

9.D. Production of livestock materials

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

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.)

Name	:	Uzhavan
Date of start	:	Oct – Dec 2007
Periodicity	:	Quarterly
No. of copies distributed every quarter	:	100

(B) Literature developed/published

Item	Title	Authors name	Number
Research papers	-	-	-
Technical reports	-	-	-
News letters	Uzhavan	All SMS, PAs	400
Technical bulletins	-	-	-
Popular articles	Paruthiyil UyarVilaichal PeraOruginaindha UraMelanamai- ValarumVelanamai	Dr. A. Anuratha, Dr. V. Ganeshraja	1
	Pannaikuttaiyin payan padugal- ValarumVelanamai	Dr. A. Anuratha, Dr. V. Ganeshraja, Mr.Karunaidasan	1
	Samacheer Uramiduveer Milagai Magasoolai Adhigaripee - ValarumVelanamai	Dr. A. Anuratha, Dr. C. Kavitha, Dr. V. Ganeshraja	1
	Iyatikai Vazhi Ura Melanmai- Namma Oorseidhi	Dr. A. Anuratha, Ms.S.ArunSuvetha, Dr.K.Sasikala,	1
	Thennaiyil Oottachathu Pattrakurai- Namma Oorseidhi	Dr. A. Anuratha, Ms.S.ArunSuvetha, Dr.K.Sasikala	1
Extension literature	Komari Noyin Aruguriagal Mattrumthaduppu Muraigal-	Dr.A.Anuratha, Ms.S.ArunSuvetha, Dr.K.Sasikala	100
	Thennaiyil Ura Melanmai	Dr. A. Anuratha, Dr.M.Karthikeyan Thiru.V.Gnanabharathi Dr.R.Rajendran	100
	Thennaiyil Orunginanindha Vadal Nooi	Dr.M.Karthikeyan Thiru.V/Gnanabharathi Dr.R.Rajendran	100
	Thennaiyil Orunginanindha Sivappu Koon Vandu	Dr.T.Elaiyabharathi Dr.M.Karthikeyan Dr.R.Rajendran	100
	Thennaiyil Orunginanindha Kandamiruga vandu	Dr.T.Elaiyabharathi Dr.M.Karthikeyan Thiru.V/Gnanabharathi Dr.R.Rajendran	100
	Thennaikku Nunootta Tonic	Dr.M.Karthikeyan Dr. A. Anuratha Thiru.V/Gnanabharathi Dr.R.Rajendran	100
	Rat eradication folder (Tamil)	Dr.T.Elaiyabharathi, Dr.M.Karthikeyan and Dr.K.Sasikala	100
	Rice Mealybug management in Nagapattinam Distreit	Dr.T.Elaiyabharathi,	100

		Dr.M.Karthikeyan Dr.K.Sasikala	
Others Book	Thennai Sagupadi Naveena Thozhilnutpangal ISBN: 978-81-908142-9-4	Thiru.U.Rajendran Dr.R.Rajendran Dr.M.Karthikeyan Thiru.V.Gnanabharathi Thiru.R.Vedharetinam	100
	Nagai Mavattathittkku Yaetra Kuruvai Nel Sagupadi Thozhilnutpangal-2013	Dr. K.sasikala, Dr.M.Karthikeyan, Dr.G.Thangamani, Dr.A.Anuratha, Th.V.Gnanabharathi Th.R.Vedharetinam , Th.G.Karthik	100
TOTAL			

10.B. Details of Electronic Media Produced

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

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

Farmers success story-1

1.	Name	Th.U.Thangarasu
2.	Address Pin code Telephone/Mobile phone e-Mail	243, Veerankudi kadu, South Poigai Nallur (PO) Nagapattinam District. Cell-73731 33014
3.	Marginal/Small/Big farmer	Marginal farmer
4.	Details of success story	
	Crop/variety	Hybrid tomato- Lakshmi.
	Management technologies	<ul style="list-style-type: none"> • Use of Hybrid vegetables • periodical use of growth regulators • Regular use of bio control agents
	Role of Improved technologies	<ul style="list-style-type: none"> • Off season growing of hybrid vegetables with protray nursery techniques • Periodical spray of growth regulator- Triacntanol for increasing flowering and fruit setting etc., • Training of crop during fruit setting stage
	Role of On campus trainings and	Attended on campus training on Hi-tech horticulture and FLD on

	Front Line Demonstrations	Vegetable seedling production through portrays and were demonstrated in his field	
	Role of Inputs	<ul style="list-style-type: none"> • Spray of growth regulator of Triaccontanol in three times at 20 days interval after flowering were done • Use of Psuedomonas and Trichoderma viridi for seed treatment and soil application and foliar spray were done 	
	Role of pest and disease management	Regular use of Bio-control agents like Pseudomonas and minimum use of pesticides were done	
	Market intelligence	Attended training on DEMIC at KVK, Sikkal	
	Role of KVK scientists	Periodical advisory service were made by KVK, Scientists at the time of sowing, planting, flowering stage and stage	
	Role of Extension officials	Periodical advisory service were made by Extension officials at the time of sowing, planting, flowering and fruit setting stage	
	Role of Mass media		
	Radio	This improved technologies were broad casted at twice in the AIR, Karaikkal	
	Television	--	
	News paper	This improved technologies were published in all the daily News paper	
	Monthly journal	--	
	Literature	Published in the KVK, Annual report(success story)	
5	Yield/acre		36000 kg/acre
6.	Employment generation		--
7.	Income through technological intervention		450000/acre
8.	Future plan		--
9.	Spreading success to other farmers		During On and Off campus training on Hi tech vegetable cultivation, the farmers were taken to Veerankudikadu village through exposure visit. More than 100 farmers are growing Tomato hybrid

1.	Name	Th.G.Jeevanandam
2.	Address Pin code Telephone/Mobile phone e-Mail	Nangudi , Agarakadambanur –post, Kilvelur (TK) 611104, Nagapattinam Dt. Cell-9443375262
3.	Marginal/Small/Big farmer	Big farmer
4.	Details of success story	
	Crop/variety	IFS for wet land ecosystem
	Management technologies	Through IFS with the agriculture components of trees <ul style="list-style-type: none"> • Banana – 600 Nos. • Amla – 45 Nos. • Annual moringa – 1 Acre. • Mango – 50 Nos. • Citrus – 15Nos. • Stall fed method-Goat farming- 50 nos, • Poultry bapkok - 100Nos. • Poultry (fourway cross) - 400Nos. • Fish farm-3 acre • Fodder grass CO4 cultivation- 10 cents area • Bhendi, Brinjal and Bitter gourd.-3 cents each • Milch cow -2 nos
	Role of Improved technologies	<ul style="list-style-type: none"> • Novel feeding of pulses haulm to goats without spillage / wastage install fed method • Use of all available resource in his farm and recycling of farm waste more efficiently for IFS • Off season growing of vegetables with protray nursery techniques • Seedling production under shade net condition • Periodical spray of growth regulator- Triacntanol for vegetables • Regular use bio fertilizers, bio-control agents and organic manures
	Role of On campus trainings and Front Line Demonstrations	<ul style="list-style-type: none"> • On campus training were attended regularly on vegetable

		<p>cultivation, SRI techniques and IFS such as inland composite fish culture, Goat farming etc.,</p> <ul style="list-style-type: none"> • FLD on Vegetable seedling production, Bio-intensive pest management in chillies, Inland composite fish culture, Introduction of Namakkal chicks 1, ICM in pulses, were demonstrated in his field
	Role of Inputs	<ul style="list-style-type: none"> • Novel feeding of pulses haulm to goats without wastage • Recycling of farm waste more efficiently • Periodical spray of growth regulator- Triacantanol for vegetables • Seed treatment, soil application with bio fertilizers were done • Bio-control agents like Psuedomonas, Trichoderma, Bevaria, Verticilium were used • Regular use of organic manures like farm waste, cow dung and goat manures • Use of green fodder like CO4, CO3, and Desmanthus
	Role of pest and disease management	Prophylactic use of bio-control agents like Psuedomonas, Trichoderma, Bevaria, Verticilium for pest and disease management and minimum use of chemical pesticides
	Market intelligence	Attended training on DEMIC, Role and act of Central Warehousing and Commodity potential in Tamilnadu at KVK, Sikkal sponsored by TNAU
	Role of KVK scientists	<ul style="list-style-type: none"> • OFTs, FLD and method demonstration were conducted regularly and periodical farm advisory service were made by KVK, • He was taken to TNAU, KVK, Namakkal and VUTRCs and his skill were developed on vegetable cultivation and Stallfed method of goat farming through exposure visit
	Role of Extension officials	<ul style="list-style-type: none"> • Demonstrated all the Schemes related to Dept. of Agriculture, Horticulture and allied fields • He is the beneficiary under Poultry scheme, Department of Animal Husbandry
	Role of Mass media	
	Radio	This IFS technologies were broad casted three times in the AIR, Karaikkal,
	Television	telecasted more than two times in the private TV channels

	News paper	This IFS technologies were published in all the daily News paper
	Monthly journal	Published in Pasumai Vikadan monthly magazines
	Literature	Published in the KVK, Annual report(success story)
5	Yield/acre	--
6.	Employment generation	Rural woman and Agricultural labourers getting employment throughout the year
7.	Income through technological intervention	Rs. 2,79,000/- /acre
8.	Future plan	Extending fish farming, Poultry farming and Cultivation of Mango under HDP in future
9.	Spreading success to other farmers	<ul style="list-style-type: none"> • During On campus training on vegetable cultivation, Fish farming, Goat farming and Poultry farming, the farmers were taken to his farm through exposure visit. • At present about 50 farmers are following the stall fed method of goat farming.

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

1. Plant health diagnostic centre: The KVK, Nagapattinam has provided with plant health diagnostics centre facilities serving to the farming community for technical advice for pest and disease and nutrient management aspects .

2. News coverage: The KVK, Nagapattinam has timely delivered the crop management practices to the farming community through News paper .

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
Nil			

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

- Participatory Rural Appraisal
- Feed back analysis
- Group discussion
- Farmers meeting
- Survey and interview

10.G. Field activities

- i. Number of villages adopted: 1
- ii. No. of farm families selected: 25
- iii. No. of survey/PRA conducted: 2

10.H. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab : Completed

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

Sl. No	Name of the Equipment	Qty.	Cost
1.	Digital Visible Spectrophotometer	1	39,104
2.	Digital pH meter "Elico" Make	1	5,970
3.	All Glass Single Distillation unit	1	36,400
4.	Khan Shaker "Labline"	1	20,800
5.	Hot air oven	1	17,680
6.	Hot plate	1	7,956
7.	Willey mill	1	32,760
8.	Water Bath	1	7,249
9.	UP based Flame Photometer "Elico" Make	1	45,240
10.	Digital conductivity meter "Elico" Make	1	11,326
11.	Electronic Top loading balance "Cyberlab"	1	6,760
12.	Electronic Top loading balance "Shimadzu"	1	20,592
13.	Water and Soil analysis kit	1	19,750
14.	Digestion system (Kelplus)	1	1,12,216
15.	Distillation system (Kelplus)	1	1,82,936
16.	Instrument table	5	78,000
17.	Rack,Almirah, Angle Iron rack	-	70,000
18.	Soil and Plant storage cabin	-	1,00,000
19.	Wash basin, sink and exhauster fan		70,000
20.	Servo relay stabilizer – 2 Kva	1	7,500
21.	Micropipette	2	3,600
22.	Buchner funnel with flask	1	2,000
23.	Titration unit	2	10,000
24.	Vacuum pump	1	5,000
25.	HCL Computer with printer	1	37,600
Total			9,50,439

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	312	82	72	4405
Water Samples	133	124	73	1330
Total	445	206	145	5735

Details of samples analyzed during the 2013-14 :

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)
Soil Samples	55	32	32	1375.00
Water Samples	99	90	45	990.00
Total	154	122	77	2365

10.I. Technology Week celebration during 2013-14 Yes/No, - No

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

Mass spraying of Pink Pigmented Facultative Mmethylotrophs(PPFM) to Mitigate Water Stress in Samba Paddy (2013-14) in Nagapattinam District

In Nagapattinam District around **96000 ha** of rice crop were raised during samba 2013-14. Out of 11 blocks, Nagapattinam, Keelaiyur, and Kilvelur blocks were affected by drought. Krishi Vigyan Kendra, Sikkal, Nagapattinam was given foliar spraying of PPFM with boom sprayer and 135 liters of PPFM were distributed to the farmers through Asst. Director of Agri. for mitigating drought in rice crop under the guidance of TNAU. Around 82 farmers with 276 hectares of rice field were covered in Nagapattinam district

11.. Introduction of alternate crops/varieties - Nil

B. Major area coverage under alternate crops/varieties- nil

C. Farmers-scientists interaction on livestock management: nil

D. Animal health camps organized : nil

E. Seed distribution in drought hit states: nil

F. Large scale adoption of resource conservation technologies : nil

G. Awareness campaign : nil

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)
Introduction of TRY 3 Rice Variety for Saline Patches	30	27	8000/ha	12,000/ha
Foliar spraying of Pulse wonder in black gram	50	50	10500/ha	14,000/ha
Paddy (flood tolerance variety) Swarna sub 1	150	5	8000/ha	12500/ha
IFS	50	2	62000/ha	115000/ha
Pink Pigmented Facultative Methyloprophs (PPFM) foliar spraying for drought mitigation9 2012-13& 2013-14	3072	5	-	-

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

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

PART XII - LINKAGES

12.A. Functional linkage with different organizations

Name of organization	Nature of linkage
State dept. of Agriculture	1. Joint training, extension programmes and implementations of Rashtriya Sam Vikas Yojana, 2. Giving technical support and infrastructural support during monthly zonal workshop. 3. Joint field diagnostic survey for pest and disease management 4. Pre kharif and rabi training programme 5. Flood / Drought assessment 6. yield performance assessment 7. Organizing Agricultural Exhibition and seminar at block and District level
Dept. of Horticulture	1. Joint training programmes 2. Offering need based technical guidance to the extension functionaries. 4. Field diagnostic visit 5. Flood / Drought assessment 6. yield performance assessment
NABARD	Organizing Farm Science Club and exposure visits.
Local, NGOs -DHAN, MSSRF, SWEET, NAMCO, WORLD VISION, VAANGHAI	Organizing on/off campus training Programmes and exposure visits, offering need based technical guidance
ZPD, CRIDA, TANUVAS, IICPT, DEE, SCMS, CPPS, CPBG, TRRI-Aduthurai, SWMRI-Thanjavur, KVK-Thiruvarur, KVK-Trichy, KVK-Karaikal	Technical consultancy and exchange of SMS during training programmes.
1. AIR (Karaikal, Trichy,),	1. Offering radio programmes on latest crop production technologies and periodical announcements of technologies on critical crop stage.

2.Kamban TV under CSR(Reliance Foundation)	2.Offering Live TV programme on latest crop production technologies
District Collectorate.	Farmers grievance day meeting, Organizing need based training programme and promoting agricultural entrepreneurship

12.B. List Externally Funded Projects / schemes undertaken by the KVK and operational now, which have been financed by State Govt./Other Agencies

Name of the scheme	Role of KVK	Date/ Month of initiation	Funding agency	Amount (Rs.)
Evaluation and dissemination of improved nutrient management practices through web and mobile phone application of Nutrient Manager for Rice in Cauvery Delta, Tamil Nadu	Conducting trials as per the Fertilizer recommendation of NMR in Nagapattinam District	2011-12 to 2014-15,	IPI and IRRI	15,00,000
Climate resilient agriculture – village adoption program - NICRA	Demonstration, trainings, Popularization of Flood tolerance rice variety, capacity building training, Exposure visit	2011-12- to 2013	CRIDA, HYDERABAD	4,35,000

12.C. Details of linkage with ATMA

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

Role of KVK in preparation of SREP of the district:

District contingent plan has been prepared for Paddy Kuruvai and Samba season for the Nagapattinam District. Block level task force was identified for second green revolution based on vision 2023 of Tamil Nadu State, Demonstration, mass spraying campaign agricultural technologies were carried out under cluster approach.

Coordination activities between KVK and ATMA during 2013-14

S. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK	Other remarks (if any)
01	Meetings				
03	Training programmes	Capacity building training on Agricultural and allied activities for ATMA farmers members and block technology managers at block level was given	10	3	-
04	Extension Programmes	Field diagnostic visits were made			
05	Kisan Mela	Block level identified scientist were attended in the Uzhavar Peruvizha	15	-	-
06	Exhibition	exhibition on agriculture were organized at block level	2	2	
07	Books	ICM practices for Rice			
08	Extension Literature	INM, IPDM technologies			

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

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

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
1	Farmers training on Sustainable Sugarcane Initiative was done	Farmers training	32500/-	32500/-	40 nos. of sugarcane farmers were benefitted

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
April 2013	2	100	15
May	2	100	10
June	2	100	12
July	2	100	15
August	2	150	10
September	2	150	5
October	2	150	5
November	2	150	5
December	-	-	-
January 2014	-	-	-
February	-	-	-
March 2014	-	-	-
Total for the year 2013-14	16	1000	77

PART XIII- PERFORMANCE OF INFRASTRUCTURE IN KVK

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

Sl. No.	Demo Unit	Year of establishment	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Produce	Qty.	Cost of inputs	Gross income	
1.	Vermicompost Production through Silpaulin Vermi Bag	2013	-	African Earthworm	Vermicompost Earthworm	1440 kgs. 8.350 kgs.	1,500	7,160 3,340	Sold to the farmers
2	<i>Pseudomonas</i>	2013	-	<i>Pseudomonas fluorescence 1</i>	-	378 kg		24,750	Sold to the farmers
3	Coconut seedlings	2011		East Coast Tall	Coconut seedling				
4	<i>Azolla</i> Production Unit	2011	1 cent	<i>Azolla microphylla</i>	<i>Azolla</i> as seed material	570 kg	-	100	20 kg of <i>azolla</i> were sold and 550 kg of <i>azolla</i> were used in kvk farm and free distribution to the farmers

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

Name of the crop	Date of sowing	Date of harvest	Area (ac)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty. (Kg)	Cost of inputs	Gross income	
Cereals									
Paddy	21.08.2013	04.02.2014	23.0	CR 1009	Seed (TFL)	15000	-		Under processing
Paddy	30.11.2013	Yet to be harvest	0.75	ADT (R)50	Seed (TFL)		-		
Paddy	30.11.2013	Yet to be harvest	0.75	Sw.sub-1	Seed (TFL)		-		
Paddy	30.11.2013	Yet to be harvest	0.75	IWP	Seed (TFL)		-		

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

Sl. No.	Name of the Product	Qty	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	
1.	Vermicompost		1500		Sold to the farmers
2.	Azolla	41 kg	-	205/-	15
3.	<i>Pseudomonas</i>	378 kg		24750/-	50

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): 20 beds

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
---	Nil	--	Farmers who were coming for the training hails from local area within the district

13.F. Database management

S. No	Database target	Database created
1.	KVK, Nagapattinam	KVK, Nagapattinam data base is under progress

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 Demonstrations	No. of plant materials produced	Visit by farmers (No.)	Visit by officials (No.)		
-	-	-	2	2	-	100	15	-	-

PART XIV - FINANCIAL PERFORMANCE

14.A. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Branch code	Account Name	Account Number	MICR Number	IFSC Number
With Host Institute	State Bank of India	Coimbatore					
With KVK	State Bank of India	Nagapattinam	879	ICAR-KVK	10977883105	611002001	SBINO000879

14.B. Utilization of KVK funds during the year 2013-14 (Rs. in lakh)

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances	73.00		82.70
2	Traveling allowances	1.75		1.75
3	Contingencies			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	2.25		2.25
B	POL, repair of vehicles, tractor and equipments	1.95		1.95
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	0.80		0.80
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	0.80		0.80
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	2.90		2.90
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	0.50		0.50
G	Training of extension functionaries	0.25		0.25
H	Maintenance of buildings	0.50		0.50
I	Extension Activities	0.50		0.50
J	Library	0.05		0.05
TOTAL (A)		10.50		10.50
B. Non-Recurring Contingencies				
1	Works			
2	Equipments including SWTL & Furniture			
3	Vehicle (Four wheeler/Two wheeler, please specify)			
4	Library (Purchase of assets like books & journals)			
TOTAL (B)				
C. REVOLVING FUND				
GRAND TOTAL (A+B+C)		85.25	85.25	94.95

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

Year	Opening balance as on 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st April of each year
April 2011 to March 2012	1.37	5.24	4.2	2.41
April 2012 to March 2013	2.41	3.82	1.37	4.86
April 2013 to March 2014	4.86	4.7	7.57	1.99

15. Details of HRD activities attended by KVK staff during 2013-14

Name of the staff	Designation	Title of the training programme	Institute where attended	Dates
Dr. K. Sasikala Dr.G.Thangamani	SMS	Orientation programme on technology assessment, refinement and demonstration	KVK, Hassan, Karnataka	31.03.13 to 07.04.13
Dr. K. Sasikala	SMS	Orientation meeting	TNAU, Coimbatore on	26.06.13
Dr. K. Sasikala Dr. G. Thangamani Dr. M.Karthikeyan	PC &SMS	Workshop on fine tuning of action plan 2013-14 and developing monitoring mechanism	TNAU, Coimbatore	22.07.2013 to 23.07.2013
Dr. K. Sasikala Dr. M. Karthikeyan	PC &SMS	Food mission meeting with Agrl. Minister, APC and other Govt. officials	TNAU, Coimbatore	25.09.13 to 27.09.13
Dr. K. Sasikala & Dr. M.Karthikeyan	PC &SMS	Capacity building training programme on recent trend in Agricultural Marketing	TNAU, Coimbatore	09.10.13
Dr. K. Sasikala	PC	For attending 8 th National Conference on KVKs	Bangalore	23.10.13 to 25.10.13
Dr.A.Anuratha,	SMS	Training on application of remote sensing and GIS in Natural resource management	NBSSLUP, Nagpur, Maharashtra	11.11.2013 to 3.12.2013
Dr.M.Karthikeyan	SMS	Training on organic farming	TNAU, Coimbatore	16.12.2013 to 2.12.13
Dr.K.Sasikala	PC	E linkages of Marketing under DEMIC	TNAU, Coimbatore	29, 29.01.2014
Dr.G.Malathi	SMS	International workshop on FAO-Hortivar	KVK, Madurai	05.03.14 to 06.03.14

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

RICE MEALY BUG MANAGEMENT IN KILVELUR BLOCK, NAGAPATTINAM DISTRICT

Mass spraying campaign of Pesticide with Buprofezin

Action taken by KVK, Nagapattinam on management of rice mealy bug in samba paddy crop at Kilvelur block, Nagapattinam district.

On 27.10.2013, the team of scientists comprising staff of TRRI, aduthurai, KVK, Needamangalam, KVK, Sikkal, ADAC&RI, Trichy, and officials from Department of Agriculture, Nagapattinam have visited and inspected the mealy bug affected rice field. Around 240 acres of direct sown rice of CR 1009, BPT 5204 in Kilvelur block, the villages viz., Anaimangalam, Okkur, Vadakarai, Kokoor, Orgudi, Kadampangudi, Venkidangal, Venmani, Vandaloor, Parapanoor and Mohanoor affected by rice mealy bug.

The team suggested to solve the problem immediately with the help of Asst. Director of Agri., Kilvelur in collaboration with KVK, Sikkal. The sprayed field has been completely recovered. In addition, the sufficient rainfall also received in the district contained the mealy bug further spread in the district.

Area Covered under mass spray campaign for management of rice mealybug.

Sl.No.	Name of the Village	No. of farmers	Area covered by mass spray through boom sprayer (acre)		
			29.10.2013	30.10.2013	31.10.2013
1	Kadambangudi	26	13.22	25.0	16.5
2	Orkudi	13	8.5	16.0	-
3	Okkur	9	30.5	-	-
4	Karunaveli	11	-	40.0	-
5	Vilabakkam	10	-	12.3	-
6	Poolangudi	4	-	24.0	-
7	Vandalur	4	-	-	18.3
8	Venmani	16	-	9.0	24.0
9	Parappanur	23	-	-	32.83
10	Mohanur	2	-	-	0.5
11	Ramancherry	9	-	-	27
			52.22	126.3	119.13

Total Area Covered= 297.65 acres

SUMMARY FOR 2013-14

I. TECHNOLOGY ASSESSMENT

Summary of technologies assessed under various crops

Thematic areas	Crop	Name of the technology assessed	No. of trials
Varietal Evaluation	Red gram	Suitable short duration red gram varieties for Nagapattinam District	5
	Elephant foot yam	Assessment of suitable elephant foot yam varieties for coconut Intercropping	5
Integrated Pest Management	Sugarcane	Assessment of IPM modules for sugarcane white grub management	5
Integrated Crop Management	Black gram	Assessment of foliar spray of PPFM to mitigate terminal drought in rice fallow pulses	5
		Total	20

Summary of technologies assessed under livestock: nil

Summary of technologies assessed under various enterprises: nil

Summary of technologies assessed under home science; nil

II. TECHNOLOGY REFINEMENT

Summary of technologies refined under various crops: nil

Summary of technologies assessed under refinement of various livestock : Nil

Summary of technologies refined under various enterprises : Nil

Summary of technologies refined under home science: Nil

III. FRONTLINE DEMONSTRATION

Crops

Crop	Thematic area	Name of the technology demonstrated	No. of KV Ks	No. of Farmer	Area (ha)	Yield (q/ha)		% change in yield	Other parameters		*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
						De mo	Che ck		Demo	Check	Gross Cost	Gross Return	Net Return	** B C R	Gross Cost	Gross Return	Net Return	** B C R
Cereals	Increasing the productivity of rice	Quality seed production of newly released variety TNAU Rice ADT 50		15	6.0	54.5	48.5	12.4	Productive tillers-11	Productive tillers-8	35000	70850	35850	2.0	35000	63050	28050	1.8
Cereals	Increasing the productivity of rice in saline soils	ICM practices for rice in salt affected areas of Nagapattinam		10	5.0	48.2	36.5	32.0	Productive tillers-10.29	Productive tillers-6.87	43750	62660	18910	1.43	37500	47450	9950	1.27
Cereals	Increasing the productivity by mitigating drought	ICM practices to mitigate drought in DSR rice crop		10	5.0	41.85	36.0	16.25	Pl. ht.(cm) 102.5	Pl. ht.(cm) 92.5	20534	62775	42241	3.06	26000	45550	19550	1.75

Cereals	Integrated disease management	Management of bacterial disease in rice		10	4.0	52.0	47.0	10.6	Disease index (PDI)-20	40	37000	67600	30600	1.83	35000	61100	26100	1.75
Millets	Increasing the productivity of crops in saline soils	Introduction and promotion of ragi in salt affected soils of Nagapattinam district.		10	4.0	18.0	13.5	33.0	Pl. ht.(cm) 120	Pl. ht.(cm) 105	35000	54000	19000	1.50	33000	40500	7500	1.20
Pulses	Increasing the productivity of rice fallow crops	ICM in rice fallow black gram		10	4.0	8.20	6.50	26.2	No.of pods per plant- 15.6	No.of pods per plant - 13.2	19000	41000	22000	2.16	16500	32500	16000	1.96
Oilseeds	Increasing productivity of oilseed crop	ICM practices for SVPR1 white seeded Gingelly		10	4.0	2.5	2.0	25.0	No.of capsules per plant -42	No.of capsules per plant -36	8500	18750	10250	1.8	6500	14000	7500	1.8
Vegetables	Cultivation of greens during summer using available water	Demonstrating greens cultivation during summer using mobile sprinkler		20	8.0	100	75	33	Plant height - 20 cm No.of leaves/ plant -36	Plant height - 16 cm leaves/ plant -30	28000	100000	72000	3.6	25000	75000	50000	3.0

Commercial crops	IPM module	Popularization of Ecofriendly IPM modules for major sucking pests in tapioca		10	4.0	180	150	20	white fly incidence (%) - 4.2 mealy bug incidence (%) - 2.5	12.8, 25.0	30000	108000	78000	3.6	26000	90000	64000	3.5
Flowers	Crop diversification	Introduction of marigold in coastal regions of Nagapattinam district		10	4.0	160	125	28	Number of flowers per plant-75	55	120000	400000	280000	3.33	110000	312500	202500	2.84
Fruits	Introducing papaya cultivation as commercial fruit crop	Demonstrating papaya as a commercial fruit crop in coastal areas of Nagapattinam district		10	2.0	Demo is in progress												
Commercial crops	Increasing production through SSI and using newly released variety	Enhancing sugarcane production through sustainable sugarcane initiative (2012-13)		5	5	1675	1392	20.3	Per Cane wt. 2.5	Per Cane wt. 1.5	105817	427125	321308	4.04	99010	354909	255899	3.58
Plantation	Integrated crop management	Demonstration of micronutrient mixture / coconut tonic in coconut		10	4	10500	9100	15.3	Nuts/yr/20 trees 524	Nuts/yr/20 trees 455	35000	84000	49000	2.4	33000	72800	39800	2.2

Others (IFS)	Integrated farming system under rice based ecosystem	Promotion of Integrated farming system		3	0.8	19.3	15.62	24.0	400 gm fish wt gain – 6 month period	250 gm fish wt gain- 6 month period	62500	187500	125000	3.0	62500	151209	88709	2.4
	Total			143	57.8													

Livestock : nil

Fisheries : Nil

Other enterprises : Nil

Women empowerment: Nil

Farm implements and machinery : Nil

Other enterprises

Demonstration details on crop hybrids : Nil

IV. Training Programme

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 Crop Management	4	114	19	133	73	5	78	187	24	211
Soil and Water Conservation										
Integrated Nutrient Management	3	174	-	174	28	-	28	202	-	202
Production of organic inputs										
Others (pl.specify (PRA)	1	25		25	5		5	30		30
Kisan Vani Day	1	18	5	23	7		7	25	5	30
Horticulture										
a) Vegetable Crops										
Production of low value and high volume crop	1	22	7	29	13	8	21	35	15	50
b) Fruits										
Cultivation of Fruit	1	35	15	50	20	10	30	55	25	80
g) Medicinal and Aromatic Plants										
Production and management technology	1	10	9	19	-	-	-	10	9	19
Post harvest technology and value addition										
Others (pl.specify) Flowers	2	12	11	23	8	7	15	20	15	35
Home Science/Women empowerment										
Value addition	1	4	13	17	-	20	20	4	33	37
Agril. Engineering										
Farm machinery and its maintenance	5	122	-	122	53	-	53	175	-	175
Plant Protection										
Integrated Pest Management	1	50	15	65	25	-	25	75	15	90
Integrated Disease Management	1	75	15	90	-	-	-	75	15	90
TOTAL	22	661	96	631	179	30	209	714	123	837

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										
Cropping Systems	1	35	5	40	-	-	-	35	5	40
Crop Diversification	1	23	2	25	5	-	5	28	2	30
Seed production	1	55	-	55	-	-	-	55	-	55
Nursery management										
Integrated Crop Management	5	122	5	127	78	-	78	200	5	205
a) Vegetable Crops										
Others (pl.specify)	1	11	1	12	7	1	8	18	2	20
Soil Health and Fertility Management										
Integrated nutrient management	3	190	70	260	32	13	45	222	83	305
Agril. Engineering										
Farm machinery and its maintenance	1	35	15	50	-	-	-	35	15	50
Plant Protection										
Integrated Pest Management	3	110	3	113	14	3	17	124	6	130
Integrated Disease Management	3	76	6	82	24	4	28	100	10	110
Others (pl.specify) Rat control	1	53	-	53	-	-	-	53	-	53
Production of Inputs at site										
Vermi-compost production	1	21	11	32	9	4	13	30	15	45
Organic manures production	1	32	-	32	8	-	8	40	-	40
TOTAL	22	763	121	885	177	25	202	940	146	1086

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
Repair and maintenance of farm machinery and implements	3	65	-	65	15	-	15	75	-	75
Value addition	1	30	5	35	10	5	15	40	10	50
TOTAL	4	95	5	100	25	5	30	115	10	125

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

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops	8	107	10	117	42	5	47	149	15	164
Integrated Pest Management	1	22	13	35	8	2	10	30	15	45
Any other (pl.specify) PRA	1	15	-	15	-	-	-	15	-	15
Kisan Vani Day	1	25	5	30	-	-	-	25	5	30
Total	11	169	27	197	50	7	57	219	35	254

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops	3	25	7	32	5	2	7	30	9	39
Integrated Pest Management	1	30	5	35	-	-	-	30	5	35
Integrated Nutrient management	1	30	5	35	-	-	-	30	5	35
Any other (pl.specify) Soil Health	1	15	25	40	-	-	-	15	25	40
Integrates disease Management	1	30	5	35	-	-	-	30	5	35
Total	6	100	42	142	5	2	7	105	44	149

Sponsored training programmes

S.No.	Area of training	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
1	Crop production and management										
1.a.	Increasing production and productivity of crops	11	452	24	476	80	12	92	532	36	568
1.b.	Commercial production of vegetables	1	22	15	37	13	-	13	35	15	50
6	Others (pl.specify) IPM	1	44	1	45	-	-	-	44	1	45
	Commodity Potential	1	22	-	22	23	-	23	45	-	45
7	Post harvest technology and value addition										
7.a.	Processing and value addition	1	4	23	27	-	10	10	4	33	37
	Total	15	544	63	116	116	22	138	660	85	745

Details of Vocational Training Programmes carried out for rural youth

S.No.	Area of training	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
1	Crop production and management										
1.a.	Commercial floriculture	1	10	9	19	5	3	8	15	12	27
	Grand Total	1	10	9	19	5	3	8	15	12	27

V. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services	472	226	-	226
Diagnostic visits	240	240	10	250
Field Day	12	160	8	168
Film Show	6	180	35	215
Kisan Mela	5	109	-	109
Exhibition	3	300	-	300
Scientists' visit to farmers field	280	280	-	280
Farm Science Club	2	40	-	40
Farmers' seminar/workshop	12	1062	-	1062
Method Demonstrations	48	1660	15	1675
Exposure visits	4	109	-	109
Others (Farmer visit to KVK)	-	480	-	480
Total	1084	4366	68	4434

Details of other extension programmes

Particulars	Number
Extension Literature	10
News Letter	4
News paper coverage	30
Technical Articles	5
Technical Reports	5
Radio Talks	26
TV Talks	8
Total	88

PRODUCTION OF SEED/PLANTING MATERIAL**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	ADT(R)50		11.25	24750	112	
	Paddy	ADT46		8.3	18260	60	
	Paddy	IWP		6.6	14520	40	
	Paddy	CR 1009		150.0	330000	Under processing	
Vegetables	Maize cob		COMH6	243 No	729	25	
Fodder crop seeds	C:N grass	CO3		22 bundle	220	8	
	C:N grass	CO3		5200 slips	2600	25	
	C:N grass	CO4		50 slips	25	3	
Others (specify)	Fire wood			12 kg	30	1	
	Seminar Hall Rent			6 days	7250	-	
	Hostel room rent			9 days	940	-	
	Weather data			1 paramenter	1500		
	Paddy straw auction				1850		
	Produce from Coconut tree auction				2500		
	Coconut ungerminated nuts				150		
	Hire for Sugarcane bud cutter				1 day	100	
	Cattle trespass				2 No	100	
	Cr.bill (Cono weeder)				3000		
Total					78524	275	

Production of planting materials by the KVKs

Crop category	Name of the crop	Variety	Hybrid	Number	Value (Rs.)	Number of farmers to whom provided
Vegetable seedlings	Tomato			1372	1400	5
	Coconut seedlings	ECT		2753	83190	150
Fodder crop saplings	C:N grass	CO3		22 bundle	220	8
	C:N grass	CO3		5200 slips	2600	25
	C:N grass	CO4		50 slips	25	3
Others(specify)	Vermicompost			1440 kg	8640	35
	Earth worms	E.foetida		8.350	3340	7
Total					99415	

Production of Bio-Products

Bio Products	Name of the bio-product	Quantity Kg	Value (Rs.)	Number of farmers to whom provided
Bio Fertilizers				
Bio-pesticide				
Bio-fungicide	<i>Pseudomonas</i> (Talc)	378	24750	50
	<i>Pseudomonas</i> (Liquid)	37.5 lt	11250	25
Bio Agents	Cocopeat	30	130	2
Others (specify)	<i>Azolla</i>	41	205	15
	Coconut tonic	84.25 lt	20188	50
Total			56523	142

Production of livestock and related enterprise materials: nil

VII. DETAILS OF SOIL, WATER AND PLANT ANALYSIS 2013-14

Samples	No. of Samples	No. of Farmers	No. of Villages	Amount realized (Rs.)
Soil	55	32	32	1375.00
Water	99	90	45	990.00
Total	154	122	77	2365

VIII. SCIENTIFIC ADVISORY COMMITTEE

Number of SACs conducted

One (18.6.2013)

IX. NEWSLETTER

Number of issues of newsletter published

4 Nos.

X. RESEARCH PAPER PUBLISHED

Number of research paper published
Nil

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

Activities conducted				
No. of Training programmes	No. of Demonstrations	No. of plant materials produced	Visit by farmers (No.)	Visit by officials (No.)
2	2	-	100	15

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