

# ANNUAL REPORT 2011 - 12



**Krishi Vigyan Kendra  
Tamil Nadu Agricultural University  
Sikkal, Nagapattinam - 611 108**

**ANNUAL REPORT 2011-12**

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

**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
	Office	Fax		
Krishi Vigyan Kendra Tamil Nadu Agricultural University Sikkal, Nagapattinam Pin – 611 108.	04365 – 246266	04365 – 246266	kvksikkal@tnau.ac.in	www.tnau.ac.in/dee/kvksikkal/index.html

**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. R. Rajendran	0435 - 2411966	9443421207	rajendrankmu@yahoo.co.in

**1.4. Year of sanction: 2004**

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

Sl. No.	Sanctioned post	Name of the incumbent	Designation	M/F	Discipline	Highest Qualification (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.R. Rajendran	Professor &Head	M	Agronomy	Ph.D	37400-67000+10000	53770+10000	01.06.11	Permanent	BC
2	SMS	Dr.J.John Gunasekar	Assoc. Prof.	M	Agri.Engg	Ph.D	37400-67000+9000	40240+9000	07.08.09	Permanent	BC
3	SMS	Dr.R. Saraswathy	Assoc. Prof.	F	Plant Breeding	Ph.D	37400-67000+9000	40240+9000	01.06.2011	Permanent	BC
4	SMS	Dr. G. Thangamani	Asst. Prof.	F	Agri. Microbiology	Ph.D	15600-39100+7000	23730+7000	05.08.09	Permanent	MBC
5	SMS	Dr.T. Elaiyabharathi	Asst. Prof.	M	Agri. Entomology	Ph.D	15600-39100+6000	20370+6000	30.12.09	Permanent	BC
6	SMS	Dr. G. Malathi	Asst. Prof.	F	Horticulture	Ph.D	15600-39100+6000	20370+6000	31.12.09	Permanent	MBC
7	SMS	Dr. K. Sivakumar	Asst. Prof.	M	Soil Science	Ph.D	15600-39100+6000	20370+6000	12.01.10	Permanent	BC
8	Programme Assistant ( Lab Tech.)/T-4	Mr.V. GnanaBharathi	Prog. Asst.(Tech)	M	Agriculture	B.Sc.,(Agri)	9300-34800+4400	12080+4400	05.06.07	Permanent	SC
9	Programme Assistant (Computer)/ T-4	Mr. R.S. Swamiappan	Prog. Asst. (Comp)	M	Computer Applications	M.C.A.	9300-34800+4400	12080+4400	8.12.08	Permanent	MBC
10	Programme Assistant/ Farm Manager	Mr.R.Vedharethinam	Farm Manager	M	Agronomy	M.Sc. (Ag.)	9300-34800+4400	11600+4400	04.06.07	Permanent	BC
11	Assistant	Mrs.S.Shanthi	Jr. Asst. cum Typist	F	Junior Assistant cum Typist	M.A.	5200-20200+2400	6160+2400	28.02.11	Permanent	BC
12	Jr. Stenographer	Mr. N.Sankar	Jr. Asst. cum Typist	M	Junior Assistant cum Typist	M.A., B.Ed.,	5200-20200+2400	5910+2400	28.02.11	Permanent	BC
13	Driver	Mr. A.R. Christy Allen	Foreman	M	Supervisor	S.S.L.C	9300-34800+4200	12170+4200	15.06.2011	Permanent	BC
14	Driver	Mr.P.Govindaraj	Driver	M	Mechanic Grade II	H.Sc.,	5200-20200+2400	5430+2400	01.03.2011	Permanent	SC
15	Supporting staff	Mr.A.Ravi	Consolidated Driver	M				6000	01.12.2011	-	SC
16	Supporting staff	Mr.K.Krishnasamy	Consolidated Driver	M				6000	01.12.2011	-	BC

**1.6. Total land with KVK (in ha) : ---- ha**

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
		<b>22.6</b>

**1.7. Infrastructural Development:**

**A) Buildings**

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq. m)	Status of construction
1.	Administrative Building	ICAR	2009	548 m2	41.65			Completed
2.	Farmers Hostel	ICAR	2009	300 m2	26.38			Completed
3.	Staff Quarters	ICAR	2009	400 m2	33.30			Completed
4.	Demonstration Units							
	Rain Water Harvesting	RSVY Agri (GOI)	March 2009	5000 m2	6.00			Completed
5	Fencing	ICAR	2011	--	5.00			Completed
6	Rain Water harvesting system	AED, Nagai – (subsidy)	11.2.2007	2100 m2	0.08			Completed
7	Threshing floor	ICAR	Yet to start	--	3.00			In progress
8	Implement/ vehicle shed	ICAR	April 2012	--	3.00			Completed
9	Irrigation system	ICAR	Jun 2011	--	3.00			Completed
10	Land leveling	ICAR	Jun 2011	--	3.00			In progress
11	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/-	<b>142600</b>	Good condition
Two Wheeler (TVS – star city)	2006	39,641/-	<b>66450</b>	Good condition
Two Wheeler (Suziki Access 125)	2009	49,651/-	<b>23106</b>	Good condition

## C) Equipments &amp; 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
<b>SWTL Components</b>			
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	7956	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	6760	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 exhaust fan	2011	70,000	Good
Servo relay stabilizer – 2 Kva	2011	7,500	Good
Micropipette	2011	3600	Good
Buchner funnel with flask	2011	2000	Good
Titration unit	2011	10,000	Good
Vacuum pump	2011	5000	Good
HCL Computer with printer	2011	37,600	Good
<b>* PHDF Components</b>			
Wall Table	2011	58,800	Good
Sink with table	2011	11,025	Good
Wall Cuboard	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

\* Purchase formalities of PHDF component completed and palcing supply orders are in progress upon approval of University

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

Sl. N o.	Date	Number of Participants	No. of absentes	Salient Recommendations	Action taken
1.	17.11.11	16	7	<ul style="list-style-type: none"> <li>• Infra structure facilities should be established for demonstrating organic farming model at KVK farm as well as in the farmer's field.</li> <li>• Forest department should be consulted for promotion of tree species suitable for water logging areas of Nagapattinam District.</li> <li>• Using available wells and filter points, vegetable cultivation should be encouraged during the summer months.</li> <li>• IFS technologies suitable for rainfed, garden land and wet land conditions should be demonstrated to the needy farmers.</li> <li>• KVK SWTL should be made use by the farmers of Nagapattinam District.</li> <li>• Promote submergence tolerant rice varieties in the district and seeds may also be produced in the KVK farm and distributed to farmers.</li> <li>• Value addition in rice may be included in future as rice is the</li> </ul>	<ol style="list-style-type: none"> <li>1. IFS models were demonstrated on garden land and wet land conditions. The model farmers developed were effectively utilized thro off – campus training and visits.</li> <li>2. Two hundred suitable forest tree species have been given to farmers with the help of forest department at Vedharanyam block to mitigate both drought and water logging situation. <i>Casuarina junguniana</i> and Karuvel are found to be suitable tree species for water logged Nagapattinam district and action initiated for popularizing the same. The Dean, HC and RI, Metuppalayam has been requested for suggesting few tree species for evalauation at Nagapattinam dt.</li> <li>3. Training cum awareness campaign were organized at Mayiladuthurai and Kotalam</li> </ol>

				major crop in the district.	<p>block on encouraging vegetable cultivation during summer month with the help of drip and other micro irrigation techniques.</p> <ol style="list-style-type: none"><li>4. Submergence tolerant variety Swarna Sub 1 was demonstrated in 40 farmers fields during the reporting period. Field days were conducted during 2011-2012 for popularizing the variety. Farmers were encouraged to produce and use their own seeds during 2012-2013.</li><li>5. Two off campus awareness farmers training programme were conducted with the help of IICPT, Thanjavur . Around sixty progressive lady farmers were benefited through this training.</li><li>6. SWTL was established and put in to use of Nagapattinam farmers.</li></ol>
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## PART II - DETAILS OF DISTRICT

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

S. No	Farming system/enterprise
<b>Rice based farming system is followed in this district</b>	
1.	Rice – Rice – Rice fallow Pulse
2.	Rice – Rice fallow Pulses/Cotton
3.	Rice – Rice – Groundnut / Sesame
4.	Rice – Rice – Sugarcane (3 years rotation)
5.	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 10 <sup>o</sup> 8 <sup>o</sup> and 11 <sup>o</sup> 28' in North Latitude and 76 <sup>o</sup> 34' and 75 <sup>o</sup> 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	98000
2.	Clay sandy loam	Medium WHC	55000
3.	Sandy soil	Low WHC	35000
		<b>Total</b>	188000

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

S. No	Crop	Area (ha)	Production (Metric tons)	Productivity (kg /ha)
1.	Paddy	160908	581329	3395
2.	Millets		NA	NA
3.	Pulses		NA	NA
	Blackgram	54476	40208	650
	Greengram	26313	21592	600
	<b>TOTAL</b>			
4.	Sugarcane	3694	NA	NA
5.	Cotton	1633	NA	NA
6.	Oilseeds		NA	NA
	Groundnut	3248	8133	2200
	Gingelly	624	487	480
7.	Coconut	3483	NA	NA
8.	Cashew	869	365	420
9.	Mango	1845	7232	3920

Source: Joint Director of Agriculture, Nagapattinam

## 2.5. Weather data

Month	Rainfall (mm)	Temperature ° C		Relative Humidity (%)
		Maximum	Minimum	
April 2011	52.0	33.6	24.9	73.7
May 2011	18.0	36.6	26.4	76.3
June 2011	4.5	36.8	26.9	74.8
July 2011	145.0	34.9	25.9	66.1
August 2011	58.0	33.6	25.4	76.2
September 2011	37.5	34.1	25.4	76.3
October 2011	267.5	34.1	25.4	76.3
November 2011	349.5	29.2	23.7	88.3
December 2011	100.5	28.5	22.2	86.7
January 2012	5.0	28.7	20.8	84.1
February 2012	1.0	29.7	21.4	82.8
March 2012	12.0	32.9	23.4	79.5

Source: AWS at KVK, Nagapattinam

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

Category	Population	Production	Productivity
<b>Cattle</b>			
<i>Cow</i>			
<i>Crossbred</i>	254611	NA	NA
<i>Indigenous</i>		NA	NA
<b>Buffalo</b>			
<i>Crossbred</i>	26934		
	54061		
<b>Sheep</b>			
<i>Crossbred</i>	9834	NA	NA
<i>Indigenous</i>	23220	NA	NA
<b>Goats</b>			
<i>Crossbred</i>	107719	NA	NA
<i>Indigenous</i>	322205	NA	NA
<b>Pigs</b>			
<i>Crossbred</i>	818	NA	NA
<i>Indigenous</i>	2598	NA	NA
<b>Rabbits</b>			
	1377	NA	NA
<b>Poultry</b>			
Hens		NA	NA
<i>Desi</i>	264164	NA	NA
<i>Improved</i>	35894	NA	NA
Ducks	12712	NA	NA
Turkey and others	775	NA	NA
<b>Category</b>	<b>Area</b>	<b>Production</b>	<b>Productivity</b>
<b>Fish</b>			
<i>Marine</i>		61479 tonnes	
<i>Inland</i>		7120 tonnes	2.0t/ha
Prawn		NA	NA
Scampi		NA	NA
Shrimp		NA	NA

Source: Join Director of Animal Husbandry, Nagapattinam

## 2.7 District profile has been Updated for 2011-12 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.	Nagapattinam	Nagapattinam	Agraorathur, Alangudi, Avarani, Azhiyur, Perunkadambanur, Poravacheri, Puducheri, Sangamangalam, Sikkal, Therku Poigainallur, Vadakku Poigainallur	3 years	Rice-Rice-Pulses Rice-Ground Nut Rice-Vegetables	<ul style="list-style-type: none"> <li>• Heavy incidence of bacterial Leaf blight during Samba season leads to poor yield</li> <li>• Crop loss due to cyclone and flood</li> <li>• Yield reduction due to salinity</li> <li>• Yield loss due to water logging</li> <li>• Low income under existing traditional chilli variety</li> <li>• Water scarcity during summer</li> </ul>	<ul style="list-style-type: none"> <li>• Eco friendly management of pests and diseases</li> <li>• Increasing the productivity of rice and rice fallow crops.</li> <li>• Promoting horticultural crops /varieties for enhancing the returns</li> </ul>

		Thirumarugal	Edaiyathankudi, Raranthimangalam, Sheshamoolai, Vadakarai, Virkudi	2 years	Rice-Rice-Pulses Rice-Rice-Cotton	<ul style="list-style-type: none"> <li>• Heavy incidence of bacterial Leaf blight during Samba season leads to poor yield</li> <li>• Realization of low productivity of existing rice varieties during Kuruvai</li> <li>• Crop loss due to cyclone and flood</li> <li>[</li> <li>• Yield reduction due to water stress in later stages</li> <li>• Yield loss due to water logging</li> </ul>	<ul style="list-style-type: none"> <li>• Eco friendly management of pests and diseases</li> <li>• Increasing the production and productivity of rice and rice fallow crops.</li> </ul>
2.	Tirukkuvalai	Keezhaiyur	Pudupalli, Thirupoondi, Thiruvoimooore, Vettaikaraniruppu, Vilunthamavadi,	2 years	Rice-Rice-Pulses Rice-Rice-Ground Nut	<ul style="list-style-type: none"> <li>• Heavy incidence of pest and diseases during Samba season leads to poor yield</li> <li>• Low productivity of existing rice varieties during Kuruvai</li> <li>• Yield reduction due to salinity</li> <li>• Yield loss due to water logging, water stress, flood and sudden heavy downpour</li> </ul>	<ul style="list-style-type: none"> <li>• Eco friendly management of pests and diseases</li> <li>• Increasing the production and productivity of rice and rice fallow crops.</li> </ul>

	Kilvelur	Kilvelur	Agarakadambunur, Anaimangalam, Athipuliyur, Eluppur, Kurumanankudi, Pattamangalam, Therkupanaiyur, Thirukannankudi, Vadakalathur, Vadakarai, Valivalam	2 years	Rice-Rice-Pulses	<ul style="list-style-type: none"> <li>• Heavy incidence of pest and diseases during Samba season leads to poor yield</li> <li>• Realization of low productivity of existing rice varieties during Kuruvai</li> <li>• Yield reduction due to salinity</li> <li>• Yield loss due to water logging, water stress, flood and sudden heavy downpour</li> <li>• Water scarcity</li> </ul>	<ul style="list-style-type: none"> <li>• Eco friendly management of pests and diseases</li> <li>• Increasing the productivity of rice and rice fallow crops.</li> </ul>
3.	Vedaranyam	Vedaranyam	Kadinavayal, Katharipulam, Maruthur North, Nagakudaiyan,Panchanathikulam, Pannal, Pushpavanam, Thanikottagam, Vaivedu	2 years	Rice-Rice-Pulses Rice-Ground Nut Jasmine, Rice-Vegetables Cashew & Mango	<ul style="list-style-type: none"> <li>• Heavy incidence of pest and diseases during Samba season leads to poor yield</li> <li>• Yield reduction due to salinity</li> <li>• Yield loss due to water logging</li> <li>• Low income under existing rice fallow crop</li> <li>• Post Harvest losses during glut season due to low cost storage device</li> <li>• Water scarcity</li> </ul>	<ul style="list-style-type: none"> <li>• Eco friendly management of pests and diseases</li> <li>• Increasing the productivity of rice and rice fallow crops.</li> <li>• Promoting horticultural crops /varieties for enhancing the returns</li> <li>• Reducing the post harvest losses and increasing the net income</li> </ul>

		Thalainayar	Avarikadu, Aymoor, Kallimedu, Umbalacheri, Vellapallam	1 year	Rice-Rice-Pulses Jasmine, Rice-Vegetables Cashew & Mango	<ul style="list-style-type: none"> <li>• Yield reduction due to salinity</li> <li>• Yield loss due to water logging</li> <li>• Water scarcity</li> </ul>	<ul style="list-style-type: none"> <li>• Increasing the productivity of rice and rice fallow crops.</li> </ul>
4.	Mayiladuthurai	Mayiladuthurai	Aathur, Ivanallur, Kadakkam, Kadalangudi, Kali, Mapadugai, Moovalur, Pandur, Thalainayar	1 year	Rice-Rice-Pulses Rice-Rice-Ground Nut Rice-Rice-Cotton Rice-Banana	<ul style="list-style-type: none"> <li>• Severe weed infestation which leads to low yield</li> <li>• Labour scarcity and high cost</li> </ul>	<ul style="list-style-type: none"> <li>• Increasing the productivity of rice and rice fallow crops</li> <li>• Farm mechanization</li> </ul>
		Kuttalam	Alangudi, Kadakkam, Mekkirimangalam, Senniannallur, Sethirabalapuram	1 year	Rice-Rice-Pulses Rice-Banana Rice-Rice-Ground Nut Rice-Rice-Cotton/Vegetable	<ul style="list-style-type: none"> <li>• Severe weed infestation which leads to low yield</li> <li>• Labour scarcity and high cost</li> </ul>	<ul style="list-style-type: none"> <li>• Increasing the productivity of rice and rice fallow crops</li> <li>• Farm mechanization</li> </ul>
5.	Sirkazhi	Sirkazhi	Kathiruppu, Kondal, Poombuhar, Vilanthidasamuthiram	1 year	Rice-Rice-Pulses Rice-Rice-Cotton Rice-Ground Nut/Vegetables Banana, Sugarcane	<ul style="list-style-type: none"> <li>• Severe weed infestation which leads to low yield</li> <li>• Labour scarcity and high cost</li> </ul>	<ul style="list-style-type: none"> <li>• Increasing the productivity of rice and rice fallow crops</li> <li>• Farm mechanization</li> </ul>
		Kollidam	Gopalamuthiram, Mathirivellur, Muthalimedu, Thirumullaivasal	1 year	Rice-Rice-Pulses Rice-Rice-Cotton Rice-Ground Nut/Vegetables Sugarcane, Banana	<ul style="list-style-type: none"> <li>• Water scarcity</li> <li>• Labour scarcity and high cost</li> <li>• Water logging</li> </ul>	<ul style="list-style-type: none"> <li>• Increasing the productivity of rice and rice fallow crops</li> <li>• Farm mechanization</li> <li>• Reducing the post harvest losses and increasing the net income</li> </ul>

6.	Tharangampadi	Sembanarkoil	Akkur, Arupathy, Kalamanallur, Karuvazhakarai, Mamakudi, Memathur, Neduvasal, Sembanarkoil	1 year	Rice – Rice – Pulses Rice – Groundnut/Vegetables Rice – Cotton Sugarcane & Banana	<ul style="list-style-type: none"> <li>• Water scarcity</li> <li>• Labour scarcity and high cost</li> <li>• Water logging</li> <li>• Salinity</li> </ul>	<ul style="list-style-type: none"> <li>• Increasing the productivity of rice and rice fallow crops</li> <li>• Reducing the post harvest losses and increasing the net income</li> <li>• Farm mechanization</li> </ul>
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## 2.9 Priority thrust areas

1	Soil health management
2	Seed production
3	Influence of climate resilience on crop production and their Management
4	Integrated Crop Management (ICM) Practices
5	Community IPM for major field crops
6	Entrepreneurs developments through Apiary and Sericulture
7	Organic crop production
8	Integrated Farming Systems
9	Farm mechanization
10	Value added fishery products
11	Precision farming
12	Location specific alternative cropping system

### 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
5	5	27	27	12	12	145	137

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
56	62	1680	3025	500	888	10000	10788

Seed Production (Qtl.)		Planting materials (Nos.)	
5		6	
Target	Achievement	Target	Achievement
4.50	6.00	7500	8665

Livestock, poultry strains and fingerlings (No.)		Bio-products (Kg)	
7		8	
Target	Achievement	Target	Achievement
8420	8420	2500	2950



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

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions											
				Title of OFT if any	Title of FLD if any	Number of Training (farmers)	Number of Training (Youths)	Number of Training (extension personnel)	Extension activities (No.)	Supply of seeds (Qtl.)	Supply of planting materials (No.)	Supply of livestock (No.)	Supply of bio products		
													No.	Kg	
1.	Increasing the productivity of rice	Rice	High cost of nursery trays	Methods of Planting in Rice	-	3	-	-	-	2	-	-	-	-	-
2.	Increasing the productivity of rice	Rice	Realization of low productivity of existing rice varieties	-	Popularization of CO (R) 50 in Samba Season	-	-	-	-	-	0.5	-	-	-	10 kg
3.	Increasing the productivity of rice	Rice	Low productivity due to improper nutrient management	DISSIFER based Nutrient Management in Rice	-	-	-	-	-	-	-	-	-	-	-
4.	Increasing the productivity of rice	Rice	Yield reduction due to salinity	-	Popularization of TRY 3 Rice Variety in saline patches of Nagapattinam District	3	-	-	-	1	-	-	-	-	-
5.	Increasing the productivity of rice	Rice	Yield loss due to water logging	-	Popularization of flood tolerant rice variety – Swarna sub 1	3	-	-	-	2	-	-	-	-	-
6.	Increasing the productivity of rice	Rice	High weed seed inoculums and severe weed infestation which leads to low yield	-	Rotational herbicidal weed management in transplanted rice – rice cropping system	1	-	-	-	1	-	-	-	-	-

7.	Eco friendly management of pests and diseases	Rice	Severe incidence of false smut in samba paddy results in huge yield loss	-	Management of false smut in Samba rice	2	-	-	1	-	-	-	-	30kg
8.	Eco friendly management of pests and diseases	Rice	Incidence of yellow stem borer in samba paddy results in severe yield loss	-	Popularization of TNAU yellow stem borer lure	-	-	-	1	-	-	-	-	-
9.	Increasing the productivity of rice fallow crops.	Groundnut	Poor crop management leads to low yield	-	ICM in ground nut	-	-	-	1	2.5	-	-	-	-
10.	Increasing the productivity and net income in Sugarcane	Sugarcane	Low yield in the existing varieties	-	Popularization of CoSi 7 sugarcane variety	2		2	2	-	4 tonnes	-	-	-
11.	Promoting horticultural crops /varieties for enhancing the returns	Chillies	Low income under existing traditional chilli variety	-	Popularization of TNAU Chilli Hybrid CO 1 in Nagapattianam District	-	-	-	-	500 gm	-	-	-	-
12.	Promoting horticultural crops /varieties for enhancing the returns	Onion	Low income from existing vegetable cropping system during summer season	-	Popularization of Co (On) 5 seed onion in Nagapattinam district	-	-	-	-	5 kg	-	-	-	-

13.	Reducing the post harvest losses and increasing the net income	Vegetables	Post Harvest losses during glut season due to low cost storage device	Low cost vegetable preservator	-	-	-	-	-	-	-	-	-	-
14.	Enhancing the farm revenue through alternate subsidiary farming.	Livestock	Desi chicken are low in egg laying capacity and low body weight	-	Popularization of Namakkal 1 chicken for backyard poultry	1	-	-	-	-	-	120 nos	-	-
15.	Enhancing the farm revenue through subsidiary farming.	Live stock	Low milk yield due to no supplementation of mineral mixture	Area specific mineral mixture to dairy cows	-	1	-	-	1	-	-	-	-	-
16.	Enhancing the farm revenue through subsidiary farming.	Fishery	High Mortality Low fish weight gain in shorter period of time and reduced income	Stunted Fingerlings for Inland Composite Fish Culture	-	1	-	-	-	-	-	8300 nos		

## Special Pulses Programme:

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions										
				Title of OFT if any	Title of FLD if any	Number of Training (farmers)	Number of Training (Youths)	Number of Training (extension personnel)	Extension activities (No.)	Supply of seeds (Qtl.)	Supply of planting materials (No.)	Supply of livestock (No.)	Supply of bio products	
													No.	Kg
	Increasing the productivity of rice fallow pulses	Black gram	Very low yield due to non adoption of management practices	-	ICM in rice fallow black gram	-	-	-	1	2.04	-	-		18 kg

## 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 (extension activity)
1	2	3	4	5	6	7	8
1	Methods of Planting in Rice	TNAU	Rice	5	-	3	2
2	DISSIFER based Nutrient Management in Rice	TNAU	Rice	5	-	-	-
3	Low cost vegetable preservator	CRIDA, IARI	Vegetables	2	-	-	-
4	Area specific mineral mixture to dairy cows	TANUVAS	Livestock	10	-	1	-
5	Stunted Fingerlings for Inland Composite Fish Culture	CIFA 2009	Fishery	5	-	1	-
6	Popularization of CO (R) 50 in Samba Season	TNAU	Rice	-	10	-	-
7	Popularization of TRY 3 Rice Variety in saline patches of Nagapattinam District	TNAU	Rice	-	10	3	1
8	Popularization of flood tolerant rice variety – Swarna sub 1	IRRI & CRRI	Rice	-	10	3	2
9	Rotational herbicidal weed management in transplanted rice – rice cropping system	TNAU	Rice	-	10	-	1
10	Management of false smut in Samba rice	TNAU	Rice	-	10	2	1
11	Popularization of TNAU yellow stem borer lure	TNAU	Rice	-	10	-	1
12	ICM in ground nut	TNAU	Groundnut	-	10	-	1
13	Popularization of CoSi 7 sugarcane variety	TNAU	Sugarcane	-	10	2	2
14	Popularization of TNAU Chillies Hybrid CO 1 in Nagapattinam District	TNAU	Chillies	-	10	1	-
15	Popularization of Co (On) 5 seed onion in Nagapattinam district	TNAU	Onion	-	10	1	-
16	Popularization of Namakkal 1 chicken for backyard poultry	TANUVAS	Poultry	-	10	1	-





Small Scale Income Generation Enterprises										
Weed Management										
Resource Conservation Technology										
Farm Machineries										
Integrated Farming System										
Seed / Plant production										
Value addition										
Drudgery Reduction										
Storage Technique										
Mushroom cultivation										
<b>Total</b>										

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

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

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

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

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

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

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha (Per trail covering all the Technological Options)
Integrated Nutrient Management	Rice	DISSIFER based Nutrient Management in Rice	5	5	1
Varietal Evaluation					
Integrated Pest Management					
Integrated Crop Management					
Integrated Disease Management					
Small Scale Income Generation Enterprises					
Weed Management					
Resource Conservation Technology					
Farm Machineries	Rice	Methods of Planting in Rice	5	5	2
Integrated Farming System					
Seed / Plant production					
Value addition					
Drudgery Reduction					
Storage Technique	Vegetables	Assessment of low cost vegetable preservator	2	2	2 locations
Mushroom cultivation					
<b>Total</b>			<b>12</b>	<b>12</b>	<b>6</b>

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

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha (Per trail covering all the Technological Options)
Integrated Nutrient Management					
Varietal Evaluation					
Integrated Pest Management					



Integrated Crop Management					
Integrated Disease Management					
Small Scale Income Generation Enterprises					
Weed Management					
Resource Conservation Technology					
Farm Machineries					
Integrated Farming System					
Seed / Plant production					
Value addition					
Drudgery Reduction					
Storage Technique					
Mushroom cultivation					
<b>Total</b>					

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

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials	No. of farmers
Evaluation of breeds				
Nutrition management	Cattle	Area specific mineral mixture to dairy cows	10	10
Disease management				
Value addition				
Production and management	Fisheries	Stunted fingerlings for inland composite fish culture	5	5
Feed and fodder				
Small scale income generating enterprises				
<b>Total</b>			<b>15</b>	<b>15</b>

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

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

#### 4.C1. Results of Technologies Assessed

##### Results of On Farm Trial

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter			Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
							TO 1	TO 2	TO 3				
Rice	Irrigated	Types of planting	Methods of planting in Rice	5	Conventional, Manual and Machine Transplanting with Conoweeder TO1 – Conventional planting with conoweeder TO2 – Manual transplanting under SRI TO3 – Machine transplanting with conoweeder	No. of producti ve tillers/m <sup>2</sup>	338	386	367	Initial crop establishment was very good under manual transplanting followed by machine and SRI planting. Productive tillers/m <sup>2</sup> increased in SRI planting followed by machine and conventional transplanting due to cono weeder operation. After weeding by conoweeder in specified intervals, population of Hence rice yield was more SRI planting than machine and conventional transplanting.	SRI Transplanter to suit SRI planting approach is needed to increase productivity and to overcome labour problem	Nil	Nil
				Yield (kg/ha)	5987	6381	6137						
				BCR	1:2.56	1:2.82	1:2.79						

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)	FP + TNAU	5987	Kg/ha	34,200	2.56
Technology option 2	TNAU	6381	Kg/ha	38,400	2.82
Technology option 3	Improved Practice + TNAU	6137	Kg/ha	37,300	2.79

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	9	10	11	12
Vegetables	Garden land	Low shelf life of vegetables	Low cost vegetable preservator	2	Farmers practice  CRIDA preservator  IARI Zero Energy Cool Chamber				The transport of CRIDA preservator is delayed for long time due to Telungana agitation. CRIDA vegetable preservator have been now installed and ZECC construction is under progress.

**Contd..**

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice)	-				
Technology option 2	IARI				
Technology option 3	CRIDA				

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				9	10	11	12
Rice	Wet land	Improper fertilizer application leads to low yield	DISSIFER based Nutrient Management in Rice	5	Blanket recommendation of NPK fertilizers  DISSIFER based nutrient management	Yield component for NPK blanket recommendation	4500 kg/ha	-	-	DISSIFER based nutrient management in rice recorded higher yield than blanket recommendation followed by check	Farmers got first time awareness on using DISSIFER based nutrient management in Nagai Dist.	Nil	Nil
					Yield component for DISSIFER based recommendation	5600 kg/ha	-	-					
					Farmers practice	4300 kg/ha	-	-					
					BCR	1.96	-	-					

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)		4300	Kg/ha	15,150	1.50
Technology option 2	TNAU	4500	Kg/ha	17,250	1.57
Technology option 3	TNAU	5600	Kg/ha	28,880	1.96

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	9	10	11	12
Dairy		Conventional feeding and lack of proper nutrition reduce milk yield in country dairy cows	Area specific mineral mixture to dairy cows	5	Effect of mineral mixture on milch animals	Mineral mixtures were distributed to the animals under the supervision of Veterinary Doctor. The milk yield is also monitored in the fed animals in comparison with check			

**Contd..**

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice)	-				
Technology option 2	TANUVAS				
Technology option 3	TANUVAS				

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		9	10	11	12
Fishery	Rice- Fish culture	High Mortality Low fish weight gain in shorter period of time and reduced income	Stunted Fingerlings for Inland Composite Fish Culture	5	Stunted Fingerlings for Inland Composite Fish Culture			Fingerlings were released in farmers holding during Nov'2011. Fish samplings were done periodically for weight gain. Weight of fish ranges 400-550 g (80-100gm fish fingerlings) to 250-300 g (8 -10gm fish fingerlings). Trial is in progress.			

**Contd..**

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice)	-				
Technology option 2	TANUVAS				
Technology option 3	CIFA				

**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**

<b>1</b>	Title of Technology Assessed	:	Methods of planting in Rice	
<b>2</b>	Problem Definition	:	Labour problem, unchanged productivity	
<b>3</b>	Details of technologies selected for assessment	:	Technology option 1 - Conventional planting with conoweeder	
			Technology option 2 – Manual transplanting under SRI	
			Technology option 3 - Machine transplanting with conoweeder	
<b>4</b>	Source of technology	:	TO1 - FP + TNAU	
			TO2 – TNAU	
			TO3 – Improved practice + TNAU	
<b>5</b>	Production system and thematic area	:	Rice-Rice-Pulses	
<b>6</b>	Performance of the Technology with performance indicators	:	<b>Technology Assessed</b>	<b>Production (kg/ha)</b>
			Technology option 1 - Conventional planting with conoweeder	5987
			Technology option 2 – Manual transplanting under SRI	6381
			Technology option 3 - Machine transplanting with conoweeder	6137
<b>7</b>	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	:	SRI transplanter is needed for rice cultivation and standard size conoweeder as per TNAU norms should be made available	
<b>8</b>	Final recommendation for micro level situation	:	Well leveled field both SRI and machine transplantation techniques can be adopted. Machine transplantation is suitable in the labour scarce areas.	
<b>9</b>	Constraints identified and feedback for research	:	Development of SRI transplanter and making availability of TNAU type standard size conoweeder	
<b>10</b>	Process of farmers participation and their reaction	:	Very receptive for rice mechanization techniques	

**OFT-2**

<b>1</b>	Title of Technology Assessed	:	Assessment of low cost vegetable preservator	
<b>2</b>	Problem Definition	:	Low shelf of vegetables and fruits	
<b>3</b>	Details of technologies selected for assessment	:	Technology option 1 – Farmers practice (Storage in room temperature)	
			Technology option 2 – CRIDA vegetable preservator	
			Technology option 3 – IARI – Zero Energy Cool Chamber	
<b>4</b>	Source of technology	:	TO1 - FP	
			TO2 – CRIDA, Hyderabad	
			TO3 – IARI, New Delhi	
<b>5</b>	Production system and thematic area	:	Garden land and post harvest technology	
<b>6</b>	Performance of the Technology with performance indicators	:	<b>Technology Assessed</b>	<b>Shelf life</b>
			Technology option 1 – Farmers practice (Storage in room temperature)	
			Technology option 2 – CRIDA vegetable preservator	

			Technology option 3 – IARI – Zero Energy Cool Chamber
7	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	:	-
8	Final recommendation for micro level situation	:	Trial is in progress will be reported upon completion
9	Constraints identified and feedback for research	:	-
10	Process of farmers participation and their reaction	:	-

**OFT-3**

1	Title of Technology Assessed	:	DISSIFER based Nutrient Management in Rice	
2	Problem Definition	:		
3	Details of technologies selected for assessment	:	Technology option 1 – Farmer Practice	
			Technology option 2 – Blanket recommendation	
			Technology option 3 – DISSIFER based nutrient mgt.	
4	Source of technology	:	TO1 – Nil	
			TO2 – TNAU	
			TO3 – TNAU	
5	Production system and thematic area	:	Rice-Rice-Pulses Soil Fertility Management	
6	Performance of the Technology with performance indicators	:	Technology Assessed	Production (kg/ha)
			Technology option 1 -	4,300
			Technology option 2 –	4,500
			Technology option 3 -	5,600
7	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	:	Farmers got first time awareness on using DISSIFER based nutrient management in Nagai Dist.	
8	Final recommendation for micro level situation	:	DISSIFER software technology can be recommended for Nagai Dist. For irrigated rice growing areas	
9	Constraints identified and feedback for research	:	Nil	
10	Process of farmers participation and their reaction	:	Adoptability	

**OFT- 4**

1	Title of Technology Assessed	:	Area specific mineral mixture to dairy cows	
2	Problem Definition	:		
3	Details of technologies selected for assessment	:	Technology option 1 -	
			Technology option 2 –	
			Technology option 3 -	
4	Source of technology	:	TO1 - -	
			TO2 – TANUVAS	
			TO3 – TANUVAS	
5	Production system and thematic area	:	IFS, low milk productivity	



6	Performance of the Technology with performance indicators	:	<b>Technology Assessed</b>	<b>Production (kg/ha)</b>
			Technology option 1 -	Mineral mixtures were distributed to the animals under the supervision of Veterinary Doctor. The milk yield is also monitored in the fed animals in comparison with check(Trials are in progress)
			Technology option 2 –	
Technology option 3 -				
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	:		

**OFT-5**

1	Title of Technology Assessed	:	Stunted Fingerlings for Inland Composite Fish Culture	
2	Problem Definition	:	High Mortality, low fish weight gain in shorter period of time and reduced income	
3	Details of technologies selected for assessment	:	Technology option 1 – nil	
			Technology option 2 – Ordinary fingerlings 8-10 gm weight	
			Technology option 3 - Stunted fingerlings 80-100 gm weight	
4	Source of technology	:	TO1 – CIFA 2009	
			TO2 – TANUVAS 2005	
			TO3 – Nil	
5	Production system and thematic area	:	Rice-Fish culture, Integrated Farming System	
6	Performance of the Technology with performance indicators	:	<b>Technology Assessed</b>	<b>Production (kg/ha)</b>
			Technology option 1 -	<b>Trials are in progress.</b> (Fingerlings were released in farmers holding only at Nov'2011. Fish samplings were done periodically for weight gain. Weight of fish ranges from 400-550 g (80-100gm
			Technology option 2 –	
Technology option 3 -				

				fish fingerlings) to 250-300gm (8-10g fish fingerlings).
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	:	In progress, will be reported upon completion of trial.	

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

##### Results of On Farm Trial

Crop/enterprise	Farmin g situatio n	Problem definitio n	Titl e of OF T	No. of trial s	Technolog y refined	Parameter s of refined t	Data on the paramete r	Results of refineme nt	Feedbac k from the farmer	Details of refineme nt done
1	2	3	4	5	6	7	8	9	10	11

##### Contd..

Technology Refined	Source of Technology for Technology Option1 / Justification for modification of assessed Technology Option 1	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13		14	15	16	17
Technology Option 1 (best performing Technology Option in assessment)					
Technology Option 2 (Modification over Technology Option 1)					
Technology Option 3 (Another Modification over Technology Option 1)					

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

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

**PART V - FRONTLINE DEMONSTRATIONS**

**5.A. Summary of FLDs implemented during 2011-12**

Sl. No.	Category	Farming Situation	Season and Year	Crop	Variety/breed	Hybrid	Thematic area	Technology Demonstrated	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
									Proposed	Actual	SC/ST	Others	Total	
	Oilseeds	Garden land	Summer 2012	Groundnut	Western 44	-	Yield maximization in groundnut	Integrated Crop Management in Groundnut	4	4	-	10	10	Nil
	Pulses	Wet land	Winter 2012	Blackgram /Greengram	ADT 3	-	Yield maximization rice fallow pulses	Improved production technologies for rice fallow pulses	8	8	5	35	40	Nil
	Cereals	Wet land	Rabi 2011-12	Rice	CO R 50	-	Introduction of newly released varieties	Popularisation of CO R 50 rice under SRI	4	4	2	8	10	Nil
		Wet land	Rabi 2011-12	Rice	TRY 3	-	Management of problematic soil	Popularisation of TRY 3 Rice Variety in saline patches of Nagapattinam District	4	4	-	10	10	Nil
		Wet land	Rabi 2011-12	Rice	Swarna Sub 1	-	Introduction of submergence tolerance rice variety	Popularization of Flood tolerance rice – variety – Swarna Sub 1	4	4	-	10	10	Nil
		Wet land	Kharif 2011 and Rabi 2011-12	Rice	ADT 43 BPT 5204	-	Integrated Weed Management in transplanted rice	Rotational Herbicidal weed Management in transplanted rice-rice cropping system	4	4	4	6	10	Nil
		Wet land	Rabi 2011	Rice	BPT 5204	-	Integrated Disease Management	Management of false smut in Samba paddy	4	4	5	5	10	Nil
		Wet land	Rabi 2011	Rice	CR 1009	-	Integrated Pest Management	Popularization of TNAU yellow stem borer lure	4	4	4	6	10	Nil
	Millets	NIL												
	Vegetables 1.	Garden land	Dec-Jan 2011-12	Chillies		TNAU Chilli Hybrid CO1	Yield maximisation	Popularization of TNAU Chilli Hybrid CO1	2	2	-	5	5	Nil
	2.	Garden land	Dec-Jan 2011-12	Onion	Co(On) 5	-	Yield maximisation	Popularisation of CO(On)5 onion	2	2	-	10	10	Nil



	Vermicompost													
	Sericulture													
	Apiculture													
	Implements													
	Others (specify)													

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

Sl. No.	Category	Farming Situation	Season and Year	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Season and year	Status of soil			Previous crop grown
										N	P	K	
	Oilseeds	Irrigated	Suumer 2012	Ground Nut	Western 44	-	Yield maximization in groundnut	ICM in Ground Nut	Summer 2012	L	M	H	Cow pea
	Pulses	Rice fallow	Winter 2012	Black Gram	ADT 3	-	Yield maximization rice fallow pulses	Improved production Technology	Rice fallow	L	M	H	Rice
	Cereals	Irrigated	Rabi 2011-12	Rice	COR 50	-	Introduction of newly released varieties	Popularisation of COR 50 rice under SRI	Rabi 2011-12	L	M	H	Rice
		Irrigated	Rabi 2011-12	Rice	TRY 3	-	Management of problematic soil	Popularisation of TRY 3 Rice Variety in saline patches of Nagapattinam District	Rabi 2011-12	L	M	H	Rice
		Irrigated	Rabi 2011-12	Rice	Swarna Sub 1	-	Introduction of submergence tolerance rice variety	Popularization of Flood tolerance rice – variety – Swarna Sub 1	Rabi 2011-12	L	M	H	Rice
		Irrigated	Kharif2011 and Rabi 2011-12	Rice	ADT 43 BPT5204	-	Integrated Weed Management in transplanted rice	Rotational Herbicidal weed Management in transplanted rice-rice cropping system	Kharif 2011 and Rabi 2011-12	L	M	H	Black gram
		Irrigated	Rabi 2011-12	Rice	BPT 5204	-	Integrated Disease Management	Management of false smut in Samba paddy	Rabi 2011-12	L	M	H	Rice
		Irrigated	Rabi 2011-12	Rice	CR 1009	-	Integrated Pest Management	Popularization of TNAU yellow	Rabi 2011-12	L	M	H	Rice



## 5.B. Results of Frontline Demonstrations

### 5.B.1. Crops

Crop	Name of the technology demonstrated	Variety	Hybrid	Farming situation	No. of Demo.	Area (ha)	Yield (q/ha)			% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)				
							Demo				Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
							H	L	A										
Oilseeds	Integrated Crop Management in Groundnut	Western 44	-	Irrigated	10	4.0	19.2	15.5	17.3	15	15.3	27000	65740	38740	2.4	27000	57000	30000	2.1
Pulses	Improved production technologies for rice fallow pulses	ADT 3	-	Rice fallow	40	8.0	6.5	5.0	5.7	5.0	14.0	9500	22800	13300	2.4	9500	20000	10500	2.1
Cereals	Popularisation of CO R 50 rice under SRI	CO R 50	-	Irrigated	10	4.0	60.0	50.0	53.0	42.0	26.1	30,000	55,650	25,650	1.85	30,000	44,100	14,100	1.47
	Popularisation of TRY 3 Rice Variety in saline patches of Nagapattinam District	TRY 3	-	Irrigated	10	4.0	58.5	48.5	53.5	47.5	12.6	30,000	53,500	23,500	1.75	30,000	47,500	17,500	1.58
	Popularization of Flood tolerance rice – variety – Swarna Sub 1	Swarna Sub 1	-	Irrigated	10	4.0	70.5	50.1	60.2	45.0	33.7	30,000	63210	33,210	2.1	27,000	47,500	20,500	1.75
	Rotational Herbicidal weed Management in transplanted rice-rice cropping system	ADT43 (Kharif)	-	Irrigated	10	4	79.5	49.5	59.8	47.0	27.2	30,000	62,790	32,790	2.00	30,000	49,350	19,350	1.64
		BPT 5204 (Rabi)	-	Irrigated	10	4	57.0	40.0	49.0	42.0	16.6	30,000	51,450	21,450	1.70	30,000	44,100	14,100	1.47
	Management of false smut in Samba paddy	BPT 5204	-	Irrigated	10	4	56	40	42.5	30	28.6	27500	68100	40600	2.47	27000	48000	21000	1.77
	Popularization of TNAU yellow stem borer lure	CR 1009	-	Irrigated	10	4	51	39	45.3	36.5	23.6	27750	65120	37370	2.34	27000	46500	19500	1.72
Millets																			
Vegetables	Popularisation of TNAU Chilli Hybrid CO1		TNAU Chilli Hybrid CO1	Garden land	5	2	210	150	180	130	38	920000	360000	268000	3.9	80000	234000	154000	2.9



	Popularisation of CO(On)5 onion	Co(On)5		Garden land	10	2	20	16	18	14	29	70000	270000	200000	3.9	70000	210000	140000	3.0
Flowers																			
Ornamental																			
Fruit																			
Spices and condiments																			
Commercial	Popularization of CoSi 7 sugarcane variety under SSI method	CoSi7	-	Irrigated	2	1.6	Trials are in progress. (Age of crop is 83 days after transplanting)												
Fibre crops like cotton																			
Medicinal and aromatic																			
Fodder																			
Plantation																			
Fibre																			
Others (pl.specify)																			

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

\*\* BCR= GROSS RETURN/GROSS COST

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

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

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
Rotational Herbicidal weed Management in transplanted rice-rice cropping system		
Weed control efficiency (%)	90	40
Management of false smut in Samba paddy		
Disease incidence (%)	3	12



Ornamental fishes																	
Others (pl.specify)																	

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

\*\* BCR= GROSS RETURN/GROSS COST

H-High L-Low, A-Average

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

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check if any

**5.B.4. Other enterprises**

Enterprise	Name of the technology demonstrated	Variety/ species	No. of Demo	Units/ Area {m <sup>2</sup> }	Yield (q/ha)			% Increase	*Economics of demonstration (Rs./unit) or (Rs./m2)				*Economics of check (Rs./unit) or (Rs./m2)				
					Demo				Check if any	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					H	L	A										
Oyster mushroom																	
Button mushroom																	
Vermicompost																	
Sericulture																	
Apiculture																	
Others (pl.specify)																	

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

\*\* BCR= GROSS RETURN/GROSS COST

H-High L-Low, A-Average

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

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

**5.B.5. Farm implements and machinery**

Name of the implement	Cost of the implement in Rs.	Name of the technology demonstrated	No. of Demo	Area covered under demo in ha	Labour requirement in Mandays		% save	Savings in labour (Rs./ha)	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)					
					Demo	Check			Gross cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR		

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

\*\* BCR= GROSS RETURN/GROSS COST

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

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

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

Sl.No.	Activity	No. of activities organised	Number of participants	Remarks
1	Field days	4	261	-
2	Farmers Training	13	531	-
3	Media coverage	5	-	-
4	Training for extension functionaries	2	60	-
5	Others (Please specify)	-	-	-



Capsicum																	
Others (pl.specify)																	
<b>Total</b>		1	5	2													
Cucumber																	
Tomato																	
Brinjal																	
Okra																	
Onion																	
Potato																	
Field bean																	
Others (pl.specify)																	
<b>Total</b>																	
<b>Commercial crops</b>																	
Sugarcane																	
Coconut																	
Others (pl.specify)																	
<b>Total</b>																	
Fodder crops																	
Maize (Fodder)																	
Sorghum (Fodder)																	
Others (pl.specify)																	
<b>Total</b>																	

H-High L-Low, A-Average

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









Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
Others (pl.specify)										
<b>Production of Inputs at site</b>										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production	1	10	-	10	-	-	-	10	-	10
Vermi-compost production										
Organic manures production										
Production of fry and fingerlings										
Production of Bee-colonies and wax sheets										
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
Mushroom production	1	50	22	72	-	-	-	50	22	72
Apiculture	1	65	25	90	-	-	-	65	25	90
Others (pl.specify)										
<b>Capacity Building and Group Dynamics</b>										
Leadership development										
Group dynamics										
Formation and Management of SHGs	1	21	-	21	-	-	-	21	-	21
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
Others (pl.specify)										
<b>Agro-forestry</b>										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (Pl. specify)										
<b>TOTAL</b>	<b>34</b>	<b>1179</b>	<b>342</b>	<b>1521</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1179</b>	<b>342</b>	<b>1521</b>







Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
Others (pl.specify)										
<b>Production of Inputs at site</b>										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production										
Organic manures production										
Production of fry and fingerlings										
Production of Bee-colonies and wax sheets										
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
Mushroom production	1	6	39	45	-	-	-	6	39	45
Apiculture										
Others (pl.specify)										
<b>Capacity Building and Group Dynamics</b>										
Leadership development										
Group dynamics	1	15	-	15	-	-	-	15	-	15
Formation and Management of SHGs (FSC)	1	45	5	50	-	-	-	45	5	50
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
Others (pl.specify)										
<b>Agro-forestry</b>										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (Pl. specify)										
<b>TOTAL</b>	<b>15</b>	<b>563</b>	<b>143</b>	<b>706</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>563</b>	<b>143</b>	<b>706</b>



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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming	1	54	-	54	-	-	-	54	-	54
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl.specify)										
<b>TOTAL</b>	<b>1</b>	<b>54</b>	<b>-</b>	<b>54</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>54</b>	<b>-</b>	<b>54</b>



**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										
Integrated Pest Management										
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements (Laser Guided Leveller Demo)	1	40	-	40	-	-	-	40	-	40
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Any other (pl.specify) Domestic and Export Market Intelligence Cell	1	30	5	35	-	-	-	30	5	35
<b>Total</b>	<b>2</b>	<b>70</b>	<b>5</b>	<b>75</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>70</b>	<b>5</b>	<b>75</b>

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Integrated Pest Management										
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Any other (pl.specify) Organic Farming	1	42	8	50	-	-	-	42	8	50
<b>Total</b>	<b>1</b>	<b>42</b>	<b>8</b>	<b>50</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>42</b>	<b>8</b>	<b>50</b>

## 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
<b>1</b>	<b>Crop production and management</b>										
1.a.	Increasing production and productivity of crops	2	105	5	110	-	-	-	105	5	110
1.b.	Commercial production of vegetables	3	115	20	135	-	-	-	115	20	135
<b>2</b>	<b>Production and value addition</b>										
2.a.	Fruit Plants										
2.b.	Ornamental plants										
2.c.	Spices crops										
<b>3.</b>	<b>Soil health and fertility management</b>	3	242	8	250	-	-	-	242	8	250
<b>4</b>	<b>Production of Inputs at site</b>										
<b>5</b>	<b>Methods of protective cultivation</b>										
<b>6</b>	<b>Others (pl.specify)</b>										
<b>7</b>	<b>Post harvest technology and value addition</b>										
7.a.	Processing and value addition										
7.b.	Others (pl.specify) Water Management	1	18	-	18	-	-	-	18	-	18
<b>8</b>	<b>Farm machinery</b>										
8.a.	Farm machinery, tools and implements	3	95	50	145	-	-	-	95	50	145
8.b.	Others (pl.specify)										
<b>9.</b>	<b>Livestock and fisheries</b>										
<b>10</b>	<b>Livestock production and management</b>										
10.a	Animal Nutrition Management	1	30	5	35	10	5	15	40	10	50
10.b	Animal Disease Management										
10.c	Fisheries Nutrition										
10.d	Fisheries Management										
10.e	Others (pl.specify)										
<b>11.</b>	<b>Home Science</b>										
11.a	Household nutritional security										
11.b	Economic empowerment of women										
11.c	Drudgery reduction of women										
11.d	Others (pl.specify)										
<b>12</b>	<b>Agricultural Extension</b>										
12.a	Capacity Building and Group Dynamics	1	45	5	50	-	-	-	45	5	50
12.b	Others (pl.specify) Domestic and Export Intelligence Cell	2	136	9	145	-	-	-	136	9	145
	<b>Organic Farming</b>	1	20	-	20	-	-	-	20	-	20
	<b>Medicinal Plant Cultivation</b>	1	50	50	100	-	-	-	50	50	100
	<b>Total</b>	<b>18</b>	<b>856</b>	<b>152</b>	<b>1008</b>	<b>10</b>	<b>5</b>	<b>15</b>	<b>866</b>	<b>157</b>	<b>1023</b>

## Details of sponsoring agencies involved

1. State Dept. of Agriculture
2. Agricultural Engineering Department
3. NABARD
4. CIKS (NGO)
5. CASA (NGO)

## 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
<b>1</b>	<b>Crop production and management</b>										
1.a.	Commercial floriculture										
1.b.	Commercial fruit production										
1.c.	Commercial vegetable production										
1.d.	Integrated crop management										
1.e.	Organic farming										
1.f.	Others (pl.specify)										
<b>2</b>	<b>Post harvest technology and value addition</b>										
2.a.	Value addition										
2.b.	Others (pl.specify)										
<b>3.</b>	<b>Livestock and fisheries</b>										
3.a.	Dairy farming										
3.b.	Composite fish culture										
3.c.	Sheep and goat rearing										
3.d.	Piggery										
3.e.	Poultry farming										
3.f.	Others (pl.specify)										
<b>4.</b>	<b>Income generation activities</b>										
4.a.	Vermi-composting										
4.b.	Production of bio-agents, bio-pesticides, bio-fertilizers etc.										
4.c.	Repair and maintenance of farm machinery and implements	2	45	-	45	-	-	-	45	-	45
4.d.	Rural Crafts										
4.e.	Seed production										
4.f.	Sericulture										
4.g.	Mushroom cultivation										
4.h.	Nursery, grafting etc.										
4.i.	Tailoring, stitching, embroidery, dying etc.										
4.j.	Agril. para-workers, para-vet training										
4.k.	Others (pl.specify)										
<b>5</b>	<b>Agricultural Extension</b>										
5.a.	Capacity building and group dynamics										
5.b.	Others (pl.specify)										
	<b>Grand Total</b>	<b>2</b>	<b>45</b>	<b>-</b>	<b>45</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>45</b>	<b>-</b>	<b>45</b>

**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	7	625	150	775	-	-	-	15	2	17
Kisan Mela	6	410	98	508	-	-	-	6	-	6
Kisan Ghosthi	-									
Exhibition	14	1850	950	2800	-	-	-	-	-	-
Film Show	15	1050	250	1300	-	-	-	-	-	-
Method Demonstrations	37	1300	550	1850	-	-	-	-	-	-
Farmers Seminar	7	478	74	552	-	-	-	3	-	3
Workshop	1	100		100	-					
Group meetings	2	80		80	-					
Lectures delivered as resource persons	2	75	30	105	-					
Newspaper coverage	73				-					
Radio talks	51				-					
TV talks	18									
Popular articles	3				-					
Extension Literature	19 (15900 Nos)				-					
Advisory Services	219	175	44	219	-					
Scientific visit to farmers field	208	250	-	250	-					
Farmers visit to KVK	-	1145	202	1347	-					
Diagnostic visits	200	210	-	210	-					
Exposure visits	13	500	150	650	-					
Ex-trainees Sammelan	-				-					
Soil health Camp	-				-					
Animal Health Camp	1	12	7	19	-					
Agri mobile clinic										
Soil test campaigns	-									
Farm Science Club Conveners meet	4	100	-	100						
Self Help Group Conveners meetings	-									
Mahila Mandals Conveners meetings	-									
Celebration of important days (Farm Innovators Meet)	1	69	1	70	-	-	-	10	-	10
Any Other (Specify) Animal Health Campaign	1	50	-	50	-	-	-	1	-	51
<b>Total</b>	<b>902</b>	<b>8479</b>	<b>2506</b>	<b>10985</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>35</b>	<b>2</b>	<b>87</b>

**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	Swarna sub-1	-	200 kg	3800	100
	Paddy	ADT 49	-	200 kg	4400	100
	Paddy	TRY 3	-	200 kg	3800	100
Oilseeds						
Pulses						
Commercial crops						
Vegetables						
Flower crops						
Spices						
Fodder crop seeds						
Fiber crops						
Forest Species						
Others (specify)						
<b>Total</b>				<b>600</b>	<b>12000</b>	<b>300</b>

**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	PKM 1	-	1950	975	20
	Chillies		TNAU-CH-CO1	1950	975	20
	Brinjal	VRM 1	-	200	100	10
Fruits						
Ornamental plants						
Medicinal and Aromatic						
Plantation						
Spices						
Tuber						
Fodder crop saplings /Slips		CO3	-	4500	2250	90
Forest Species						
	Kumil	-	-	25	250	7
	Teak	-	-	30	300	5
	Simaruba	-	-	10	100	1
Others(specify)						
<b>Total</b>				<b>8665</b>	<b>4950</b>	<b>153</b>

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

	Name of the bio-product	Quantity Kg	Value (Rs.)	Number of farmers to whom provided
<b>Bio Products</b>				
Bio Fertilizers				
Bio-pesticide				
Bio-fungicide				
Bio Agents				
Others (specify)				
	Vermicompost	1500 kg	7500	KVK, farm use
	Cocopeat	750 kg	3000	KVK, farm use
	Azolla	700 kg	Free distribution	400
<b>Total</b>		<b>2950 kg</b>		<b>400</b>

### 9.D. Production of livestock materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	Number of farmers to whom provided
<b>Dairy animals</b>				
Cows				
Buffaloes				
Calves				
Others (Pl. specify)				
<b>Poultry</b>		NIL		
Broilers				
Layers				
Duals (broiler and layer)				
Japanese Quail				
Turkey				
Emu				
Ducks				
Others (Pl. specify)				
<b>Piggery</b>				
Piglet				
Others (Pl. specify)				
<b>Fisheries</b>				
Fingerlings				
Others (Pl. specify)				
<b>Total</b>				

**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.)

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

**(B) Literature developed/published**

<b>Item</b>	<b>Title</b>	<b>Authors name</b>	<b>Number</b>
Research papers	Exploratory performance evaluation of resource conserving technologies on productivity and economics of rice-rice ecosystem in Cauvery Delta Zone of Tamilnadu	Dr.Rajendran	1
	Scope of elite breeding lines in increasing the yield potential of irrigated rice ( <i>Oryza sativa</i> L.) .	Dr.R.Saraswathy	1
	Spatial Production Resource variability and delineation of Sub agro climatic regions in Western zone of Tamil Nadu	Dr.G.Thangamani	1
	System of Rice Intensification and improving the food security	Dr.G.Thangamani	1
	Role of Humic Acid and Fertilizer on Nutrient Uptake of Rice	Dr.K.Sivakumar	1
	Effect of Humic Acid and Fertilizers on Yield of Rice and Soil Available Micro Nutrient Status	Dr.K.Sivakumar	1
	Effect of Humic Acid and Micro Nutrient Mixture on the Quality and Yield of Tomato	Dr.K.Sivakumar	1
	Improvement of Grain Yield of Rice under Targeted Yield Model	Dr.K.Sivakumar	1
	Influence of Zinc on Calcium, Magnesium and Copper Uptake of Tomato	Dr.K.Sivakumar	1
Technical reports	Scenario of Cashew	Dr. G. Malathi and	5



	industry in Nagapattinam district	S.Neethimanikkam	
News letters	-	-	-
Technical bulletins	-	-	-
Popular articles	Economics of biofertilizer and inorganic chemical application in increasing yield potential of hybrid rice ADTRH1	Dr.G.Thangamani	1
	Microbial consortium Technology: A biotechnological tool to increase potential yield in hybrid rice-ADTRH1	Dr.G.Thangamani	1
	Phytohormone production by the isolate of non-pigmented facultative Methylobacterium from phyllosphere and stem of rice ( <i>Oryzae sativa L.</i> )	Dr.G.Thangamani	1
Extension literature	Integrated Nutrient and pest and disease management in samba, thaladi rice	Dr. Rajendran, Dr.T Elaiyabharathi, Dr. K.Sivakumar and V. Gnanabharathi	1000
	Bee hive Technology	Dr. Rajendran, Dr.T Elaiyabharathi,	100
	Saline soil Reclamation practices	Dr. K.Sivakumar	50
	Cultivation technology on Try 3 Rice	Dr. K.Sivakumar	50
	Cultivation technology on Swarna Sub 1 Rice	Dr. G. Malathi	50
	Vermicompost	Dr. K.Sivakumar	50
	Sustainable Sugarcane Initiative Technology	-	100
	Uzhavar Peruvizha (Booklet)	Dr. Rajendran, Dr.T Elaiyabharathi,	1000
	Summer ploughing	Dr.T Elaiyabharathi	500
	About soils	Dr.T Elaiyabharathi	500
	Shadenet cultivation technology	Dr. G. Malathi	1000
	Jasmine in Precision Farming	Dr. G. Malathi	1000
	Management of Papaya Mealybug	Dr.T Elaiyabharathi	1500
	High Density Planting for Fruit Crops	Dr. G. Malathi	1500
	Rain Gun/Mobile Sprinkler Technology	Dr.R. Rajendran	1500
	Machineries for Rice Cultivation	Dr.J. John Gunasekar	1500
	Laser Guided Land Leveller	Dr.J. John Gunasekar	1500
	TNAU Boosters	Mr.V. Gnanbharathi	1500
	Saline Soil Reclamation Practices	Dr.K. Sivakumar	1500

Others (KVK Brochure)		-	500
<b>TOTAL</b>			<b>16417</b>

#### 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).

##### Success Story - I

##### Soil health management thro' Vermicompost

We all well remember the tragedy of Tsunami which killed many people and devastated the resources of Nagapattinam district in 2004. Government machinery and many NGO's played active role in rehabilitation of the Tsunami affected villages and farmers. The sediments brought by the Tsunami tidal waves spoiled the fertile surface soils which is being reclaimed by natural course and amelioration measures taken by the farmers. In this venture, few active young farmers also joined their hands.

An young farmer evinced keen interest in improving the soil health and underwent training on production of vermicompost at KVK Nagapattinm. He is Mr. J. Ramesh (37 years) of Nangudi Village in Keel Vellore block of Nagapattinma District. He started the production of Vermicompost in 100 Sq feet area and gradually increased the area for large scale production and sales. Apart from the income through vermicompost sale, he is doing a lot of service to other farmers by way of training. This young farmer indirectly serves the farming community through reclaiming Tsunami affected soil and improving the soil health in his village and surrounding. He is demonstrating the benefits of vermicompost to rice nursery, vegetables, coconut, banana and fruit trees. He is earning around Rs.30,000/- additional income per year thro' the sale of Vermicompost. Mr.J.Ramesh, Nangudi serves as a model farmer to attract more and more youths to agricultural especially on production of organic manures thereby cutting the cost on chemical fertilizer and protecting soil health for sustainable productivity

##### Success Story - II

##### Integrated Farming System

Mr.V. Akilan S/o.Venkatraman, South street, Sikkal, Nagapattinam is a progressive farmer in getting higher profit by doing integrated farming system. He followed his uncle Mr.S. Balakrishnan in visiting KVK for taking training and advice on IFS component. He is a rice farmer and was not able to generate good remuneration from crop production only. Rice, being a low remunerative crop under clay soil with poor drainage. Moreover he has struggled a lot to get a good rice crop and he always used to fight against flood, drought and other natural calamities for his livelihood in rice based cropping system. Hence, he wanted to switch over to integrated farming system to generate more income and sustain his production system.

Since water is a scarce resource to summer and kharif season, he has taken the advice of KVK scientists to excavate a farm pond for an area of 1 acre for rain water harvesting with help of Department of Agricultural Engineering. He has raised a portion of his land (0.5 acre) by using the excavated soil. He discussed with the KVK, Scientists about his resources and difficulties in doing regular agriculture and received appropriate advice to go for horticultural crops such as bhendi, clillies, tomato, pandal vegetables etc., in the raised portion of his land and obtained a record yield of bhendi and received Rs.60,000 in a single season of 4 months duration from 0.5 acre. Apart from cultivating hybrid vegetables, he is also concentrating on the production of quality vegetable seedlings in protrays under shade net. He is also practicing precision farming techniques including drip - fertigation along with the mechanised rice and pulses cultivation.

He has also been practicing fish farming, dairy, back yard poultry (including country birds, turkey) etc., He is generating a profit of about Rs.40,000/- per year from animal components.

Apart from the above, he is also concentrating on rearing of stall feeding goats. His field is being witnessed by the farmers from various blocks and districts. He serves as an excellent model farmer in Nagapattinam district, not only in IFS, but also in farm mechanization and precision farming.

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

- In the year 2011, mass production of *Acerophagus papyae* in the KVK by using simple methodology to rear the parasitoids and distributed around 30,000 parasitoids to farmers of Nagapattinam District for effective eradication of papaya mealy bug affected in tapioca, mulberry and vegetable crops.
- Around 16 hectares of mulberry plant affected by papaya mealy bug at Vanathirajapuram (Mayiladuthari Block) in Nagapattinam District has been effectively controlled by effort taken by KVK through mass release of 10,000 parasitoids in a single day. This effort was appreciated by all the mulberry growing farmers of the village. This is one of the star activity of KVK for the year 2011.

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

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

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

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

**10.G. Field activities**

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

**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	7956
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	6760
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	3600
22.	Buchner funnel with flask	1	2000
23.	Titration unit	2	10,000
24.	Vacuum pump	1	5000
25.	HCL Computer with printer	1	37,600
		<b>Total</b>	<b>9,50,439</b>

**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	10	10	5	150
Water Samples	10	10	10	100
Plant samples				
Manure samples				
Others (specify)				
<b>Total</b>	<b>20</b>	<b>20</b>	<b>15</b>	<b>250</b>

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

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)
Soil Samples	10	10	5	150
Water Samples	10	10	10	100
Plant samples	-	-	-	-
Manure samples	-	-	-	-
Others (specify)	-	-	-	-
<b>Total</b>	<b>20</b>	<b>20</b>	<b>15</b>	<b>250</b>

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

Period of observing Technology Week: From \_\_\_\_\_ to \_\_\_\_\_

Total number of farmers visited : \_\_\_\_\_

Total number of agencies involved : \_\_\_\_\_

Number of demonstrations visited by the farmers within KVK campus : \_\_\_\_\_

**Other Details**

Types of Activities	No. of Activities	Number of Farmers	Related crop/livestock technology
Gosthies			
Lectures organized			
Exhibition			
Film show			
Fair			
Farm Visit			
Diagnostic Practicals			
Supply of Literature (No.)			
Supply of Seed (q)			
Supply of Planting materials (No.)			
Bio Product supply (Kg)			
Bio Fertilizers (q)			
Supply of fingerlings			
Supply of Livestock specimen (No.)			
Total number of farmers visited the technology week			

**10. J. Interventions on drought mitigation (if the KVK included in this special programme)****A. Introduction of alternate crops/varieties**

State	Crops/cultivars	Area (ha)	Number of beneficiaries
Tamil Nadu – Nagapattinam	Swarna Sub 1Paddy	10	20
	CoR 50 Paddy	4	10
	TRY 3 Paddy	4	10
	CoSi 7 Sugarcane	2	10
	Co(On) 5 Onion	2	10
	PKM 1 Tomato	5	20
	TNAU Chilli Hybrid CO 1	2	10



## 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 Swarna Sub 1 Flood Tolerant Rice Varieties	30	25	10,000/ha	15,000/ha
Introduction of TRY 3 Rice Variety for Saline Patches	30	27	8000/ha	12,000/ha
Introduction of TNAU Hybrid Co1 Chillies	20	20	62,000	1,00,000.
Protray Nursery Technique for Hybrid Vegetables	50	55	15,000	25,000
Sustainable Sugarcane Initiative	40	10	-	-
Popularization of TNAU Yellow Stem Borer Trap	20	27	Rs.19,000/ha	Rs.27,000/ha

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

### 11.B. Cases of large scale adoption

(Please furnish detailed information for each case)

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

## PART XII - LINKAGES

### 12.A. Functional linkage with different organizations

Name of organization	Nature of linkage
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.
Dept. of Horticulture	1.Joint training programmes 2.Offering need based technical guidance to the extension functionaries. 3. Pre kharif and rabi training programme 4. Field diagnostic visit 5. Flood / Drought assessment 6. yield performance assessment
NABARD	Organizing Farm Science Club and exposure visits.
Local, NGOs (DHAN, KUDUMBAM, CAP-TEEN, CREATE, CWS, CES, PCL,NCRC, MSSRF, RCPDS, PEDA, VAANGHAI)	Organizing on/off campus training Programmes offering need based technical guidance.
ZPD, CRIDA, CIAE, IICPT, CIFT, DEE, SCMS, CPPS, CPBG, TRRI (Aduthurai), SWMRI (Thanjavur) Krishi Vigyan Kendra, (Needamangalam)	Technical consultancy and exchange of SMS during training programmes.
AIR (Trichy, Karaikal)	Offering radio programmes on latest crop production technologies and announcements.
NHM	To implement the precision farming
District Collectorate DRDA, Nagapattinam	To implement the waste land development scheme and land reforms counseling and grievance day meeting Organizing skill development training programme to rural youth SHGs. Organizing need based training programme and promoting agricultural entrepreneurship

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

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

Name of the scheme	Date/ Month of initiation	Funding agency	Amount (Rs.)
IFS	2007	RSVY- Agriculture	15,00,000/-
Climate resilient agriculture – village adoption program - NICRA	2010 – 11 & 2011-2012	CRIDA, HYD	30,35,000
Salt Affected soil management in Nagapattinam district - NADP	2011-2012	GOI	4,00,000
Nutrient Manager for Rice – SSNM – NM Rice	2011-2012	IRRI & IPI	10,49,000

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

a) Is ATMA implemented in your district Yes

Two KVK scientists participated in the SREP meeting held at Villuppuram and Karur and contributed for compiling the Nagapattinam district.action plan.

**Coordination activities between KVK and ATMA during 2011-12**

S. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK	Other remarks (if any)
01	Meetings				
02	Research projects				
03	Training programmes	ICM on Rice	1	1	-
		Drip sprinkler irrigation and maintenance	1	1	-
		Drip sprinkler irrigation and maintenance	1	1	-
		Medicinal plant cultivation	1	1	-
		Market led agriculture for enhancing farmers income for ATMA farmers	1		ADAC&RI, Trichy sponsored the training under ATMA
		Awareness program for fertilizer and pesticide dealers of Nagapattinam district	1		ADAC&RI, Trichy sponsored the training under ATMA
04	Demonstrations				



<b>05</b>	<b>Extension Programmes</b>				
	Kisan Mela				
	Technology Week				
	Exposure visit	Youth farmers seminar	<b>1</b>	<b>1</b>	-
	Exhibition				
	Soil health camps				
	Animal Health Campaigns				
	Others (Pl. specify)				
<b>06</b>	<b>Publications</b>				
	Video Films				
	Books	Youth farmers seminar souvenir (36 nos Distributed)	<b>1</b>	<b>1</b>	-
	Extension Literature	Uzhavarin Valarum Velanmai souvenir (36 nos Distributed)	<b>1</b>	<b>1</b>	-
	Pamphlets	TNAU Technical Calendar 2012 distributed (36 nos)	<b>1</b>	<b>1</b>	-
	Others (Pl. specify)				
<b>07</b>	<b>Other Activities</b> (Pl. specify)				
	Watershed approach				
	Integrated Farm Development				
	Agri-preneurs development				

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

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

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

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

**12.F. Details of linkage with RKVY**

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

**12. G Kisan Mobile Advisory Services**

Month	No. of SMS sent	No. of farmers to which SMS was sent	No. of feedback / query on SMS sent
April 2011	-		
May	-		
June	-		
July	-		
August	5	65	8
September	5	78	4
October	5	78	6
November	5	78	5
December	5	78	4
January 2012	5	78	-
February	5	78	-
March	5	78	-

**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	
	Vegetable Nursery Production under Shadenet	2011	0.25	Vegetables, Forest Saplings and Ornamental Plants	Vegetables, Forest Saplings and Ornamental Plants	200	1,000	2,500	
	Low Cost Drip	2011	1	Vegetables	Vegetables	1	1,000	5,000	
	Vermicompost	2011	0.25	Vermiculture	Vermiculture	500 kg	1,000	2,000	

**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	29.06.11	16.10.11	2.0	ADT45	Grain	1600	-	18880	
Paddy	29.06.11	20.10.11	1.0	ASD16	Grain	760	-	8588	
Paddy	25.08.11	31.01.12	18.0	CR1009	Grain	14560	-	164528	
Paddy	31.08.11	28.09.11	1.0	AD02235	Grain	1040	-	12272	
Paddy	06.10.11	15.03.12	6.5	CO50	Grain	2040	-	24072	
Paddy	01.10.11	13.03.12	0.34	ADT49	Seed(TFL)	200	-	4400	
Paddy	06.10.11	02.03.12	0.50	TRY3	Seed(TFL)	200	-	3800	
Paddy	06.10.11	08.03.12	0.50	Swrna sub-1	Seed(TFL)	200	-	3800	
Pulses									
Oilseeds									
Fibers									
Spices & Plantation crops									
Floriculture									
Fruits									
Vegetables									
Green chillies					Vegetable	40	-	493	
Tomato					Vegetable	80	-	363	
Water melon					Consumable	390	-	3900	
Gourds					Vegetable	20	-	140	
Veg. seed pocket					Seeds	230 pocket s	-	5750	
Protray						30 Nos	-	660	
Forest tree Seedlings						65 Nos	-	650	
Others (specify)									


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

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

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

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

### 13.E. Utilization of hostel facilities

Accommodation available (No. of beds)

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
October 2008	-	-	Farmers who were coming for the training hails from local area within the district
November 2008	-	-	
December 2008	-	-	
January 2009	-	-	
February 2009	-	-	
March 2009	-	-	
April 2009	-	-	
May 2009	-	-	
June 2009	-	-	
July 2009	-	-	
August 2009	-	-	
September 2009	-	-	

### 13.F. Database management

S. No	Database target	Database created
1	-	-

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

Amount sanctioned (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.)		
				10	-	500	30		

**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 KVK	State Bank of India	Nagapattinam	879	ICAR-KVK	109778831	611002001	SBIN0000879

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

S. No.	Particulars	Sanctioned	Released	Expenditure
<b>A. Recurring Contingencies</b>				
1	<b>Pay &amp; Allowances</b>	71.00	71.00	86.68
2	<b>Traveling allowances</b>	1.00	1.00	1.00
3	<b>Contingencies</b>			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	1.80	1.80	1.80
B	POL, repair of vehicles, tractor and equipments	1.50	1.50	1.50
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	0.80	0.80	0.80
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	0.25	0.25	0.25
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	1.75	1.75	1.75
F	FLD on Special Pulses Programme	0.40	0.40	0.40
G	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	0.90	0.90	0.90
H	Training of extension functionaries	0.10	0.10	0.10
I	Maintenance of buildings			
J	Extension Activities	0.20	0.20	0.20
K	Farmer's Field School	0.25	0.25	0.25
O	Library	0.05	0.05	0.05
<b>TOTAL (A)</b>		<b>8.00</b>	<b>8.00</b>	<b>8.00</b>
<b>B. Non-Recurring Contingencies</b>				
1	<b>Works</b>	-	-	-
2	<b>Equipments including Furniture Plant Health Diagnpstic</b>	10.00	10.00	*10.00
3	<b>Vehicle</b> (Four wheeler/Two wheeler, please specify)	-	-	-
4	<b>Library</b> (Purchase of assets like books & journals)	-	-	-
<b>TOTAL (B)</b>		<b>10.00</b>	<b>10.00</b>	<b>10.00</b>
<b>C. REVOLVING FUND</b>		0	0	0
<b>GRAND TOTAL (A+B+C)</b>		<b>100.00</b>	<b>100.00</b>	<b>105.68</b>

\*Proposal processed by the University and supply order to be placed shortly

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

Year	Opening balance as on 1 <sup>st</sup> April	Income during the year	Expenditure during the year	Net balance in hand as on 1 <sup>st</sup> April of each year
April 2009 to March 2010	2.10	5.88	7.17	0.80
April 2010 to March 2011	0.80	3.19	2.62	1.37
April 2011 to March 2012	1.37	5.34	4.19	2.53

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

Name of the staff	Designation	Title of the training programme	Institute where attended	Dates
Dr. G. Malathi	SMS	State Level Seminar on Women in Agriculture Development: Challenges and Opportunities	TNAU, Coimbatore	19.04.2011
Dr. K. Sivakumar	SMS	Managing Agricultural Wastes as Valuable Resources – AWARE -11	Adiparasakthi Agrl College, Kalavai	28- 30.10.2011
Dr. K. Sivakumar	SMS	Recycling of solid wastes through composting	AC & RI, Madurai	8-9.3.2012
Dr. G. Malathi	SMS	Horticultural Extension Management	Gandhigram Rural University, Dindigul	07.06.11 to 11.06.11
Dr. R. Rajendran	PC	Career and Research Trends in Food Processing	IICPT, Thanjavur	24 <sup>th</sup> and 25 <sup>th</sup>
Dr.R.Rajendran	PC	National KVK Conference	Jabalpur	01.12.2012 to 08.12.2012
Dr.G.Malathi	SMS	First International Symposium on Cashew Nut (ISCN)	AC & RI, Madurai	09.12.11 to 12.12.11
Dr.G.Malathi	SMS	HORTI VAR (Horticulture Cultivars Performance Database)	AC & RI, Madurai	09.12.11 to 12.12.11
Dr.R. Rajendran, Dr.T. Elaiyabharathi, Dr.K.Sivakumar Mr.V. Gnanabharathi	PC , SMS and PA (T)	“Attracting youth towards agriculture” one day conference at TNAU, Coimbatore	TNAU, Coimbatore	28.12.2012 to 29.12.2012
Dr.R.Rajendran, Dr.R.Saraswathi, Dr. G. Thangamani and Dr.K.Sivakumar	PC and SMS	International Conference on Rice	TNAU, Coimbatore	09.01.2012 to 12.01.2012
Mr.R.S. Swamiappan	PA (C)	Mass Media for Agrl. Extn. Development and Management of Agrl. Prog. For Community Radio	TNAU, Coimbatore	05.03.2012 to 09.03.2012
Dr.R.Rajendran	PC	Entrepreneurship Development	TNAU, Coimbatore	14.3.2012 to 16.3.2012

Dr.G.Malathi	SMS	Capacity Building Training on Strengthening of KVK Activities	TNAU, Coimbatore	20.03.2012 to 22.03.2012
Mr.R. Vedharethinam	FM	Natural Disaster Management	TNAU, Coimbatore	07- 08.03.2012

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



## SUMMARY FOR 2011-12

## I. TECHNOLOGY ASSESSMENT

## Summary of technologies assessed under various crops

Thematic areas	Crop	Name of the technology assessed	No. of trials
Integrated Nutrient Management	Rice	DISSIFER based Nutrient Management in Rice	5
Varietal Evaluation			
Integrated Pest Management			
Integrated Crop Management			
Integrated Disease Management			
Small Scale Income Generation Enterprises			
Weed Management			
Resource Conservation Technology			
Farm Machineries	Rice	Method of Planting in Rice	5
Integrated Farming System			
Seed / Plant production			
Value addition			
Drudgery Reduction			
Storage Technique	Vegetables	Assessment of Low cost vegetable preservatives	2
Others (Pl. specify)			
<b>Total</b>			<b>12</b>

## Summary of technologies assessed under livestock

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials
Disease Management			
Evaluation of Breeds			
Feed and Fodder management			
Nutrition Management			
Production and Management	<b>Fisheries</b>	Stunted fingerlings for Inland Composite Fish Culture	5
Others (Pl. specify)			
<b>Total</b>			<b>5</b>



Farm Machineries			
Integrated Farming System			
Seed / Plant production			
Value addition			
Drudgery Reduction			
Storage Technique			
Others (Pl. specify)			
<b>Total</b>			

#### Summary of technologies assessed under refinement of various livestock

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

#### Summary of technologies refined under various enterprises

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

#### Summary of technologies refined under home science

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



### III. FRONTLINE DEMONSTRATION

#### Crops

Crop	Thematic area	Name of the technology demonstrated	No. of KVKs	No. of Farmer	Area (ha)	Yield (q/ha)		% change in yield	Other parameters		*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
						Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BC R	Gross Cost	Gross Return	Net Return	** BC R
Cereals	Yield maximization	Popularization of CO R 50 rice under SRI		10	4	53	42	26.1	-	-	30000	55650	25650	1.85	30000	44100	14100	1.47
	Management of problematic soil	Popularization of TRY 3 rice in saline patches of Nagapattinam Dist.		10	4	53.5	47.5	12.6	-	-	30000	53500	23500	1.75	30000	47500	17500	1.58
	Management of submergence condition	Popularization of flood tolerance rice variety Swarna Sub 1		10	4	60.2	45	33.7	-	-	30000	63210	33210	2.1	27000	47500	20500	1.75
	Integrated weed management in rice	Rotational herbicidal weed management in transplanted rice cropping system		10	4	59.8	47	27.2	-	-	30000	62790	32790	2.0	30000	49350	19350	1.64
				10	4	49	42	16.6	-	-	30000	51450	21450	1.70	30000	44100	14100	1.47
	Integrated Disease Management	Management of False Smut in Samba paddy		10	4	42.5	30	28.6	-	-	27500	68100	40600	2.47	27000	48000	21000	1.77















<b>Total</b>										
<b>Commercial crops</b>										
Sugarcane										
Coconut										
Others (pl.specify)										
<b>Total</b>										
Fodder crops										
Maize (Fodder)										
Sorghum (Fodder)										
Others (pl.specify)										
<b>Total</b>		5	2	180	130	38	920000	360000	268000	3.9







Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
Others (pl.specify)										
<b>Production of Inputs at site</b>										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production	1	10	-	10	-	-	-	10	-	10
Vermi-compost production										
Organic manures production										
Production of fry and fingerlings										
Production of Bee-colonies and wax sheets										
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
Mushroom production	1	50	22	72	-	-	-	50	22	72
Apiculture	1	65	25	90	-	-	-	65	25	90
Others (pl.specify)										
<b>Capacity Building and Group Dynamics</b>										
Leadership development										
Group dynamics										
Formation and Management of SHGs/FSC	1	21	-	21	-	-	-	21	-	21
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
Others (pl.specify)										
<b>Agro-forestry</b>										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (Pl. specify)										
<b>TOTAL</b>	<b>34</b>	<b>1179</b>	<b>342</b>	<b>1521</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1179</b>	<b>342</b>	<b>1521</b>









Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
Others (pl.specify)										
<b>Production of Inputs at site</b>										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production										
Organic manures production										
Production of fry and fingerlings										
Production of Bee-colonies and wax sheets										
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
Mushroom production	1	6	39	45	-	-	-	6	39	45
Apiculture										
Others (pl.specify)										
<b>Capacity Building and Group Dynamics</b>										
Leadership development										
Group dynamics	1	15	-	15	-	-	-	15	-	15
Formation and Management of SHGs (FSC)	1	45	5	50	-	-	-	45	5	50
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
Others (pl.specify)										
<b>Agro-forestry</b>										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (Pl. specify)										
<b>TOTAL</b>	<b>15</b>	<b>563</b>	<b>143</b>	<b>706</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>563</b>	<b>143</b>	<b>706</b>





Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl.specify)										
<b>TOTAL</b>	<b>1</b>	<b>54</b>	<b>-</b>	<b>54</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>54</b>	<b>-</b>	<b>54</b>

**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										
Integrated Pest Management										
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements	1	40	-	40	-	-	-	40	-	40
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Any other (pl.specify)	1	30	5	35	-	-	-	30	5	35
<b>Total</b>	<b>2</b>	<b>70</b>	<b>5</b>	<b>75</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>70</b>	<b>5</b>	<b>75</b>







3.f.	Others (pl.specify)										
<b>4.</b>	<b>Income generation activities</b>										
4.a.	Vermi-composting										
4.b.	Production of bio-agents, bio-pesticides, bio-fertilizers etc.										
4.c.	Repair and maintenance of farm machinery and implements	2	45	-	45	-	-	-	45	-	45
4.d.	Rural Crafts										
4.e.	Seed production										
4.f.	Sericulture										
4.g.	Mushroom cultivation										
4.h.	Nursery, grafting etc.										
4.i.	Tailoring, stitching, embroidery, dyeing etc.										
4.j.	Agril. para-workers, para-vet training										
4.k.	Others (pl.specify)										
<b>5</b>	<b>Agricultural Extension</b>										
5.a.	Capacity building and group dynamics										
5.b.	Others (pl.specify)										
	<b>Grand Total</b>	<b>2</b>	<b>45</b>	<b>-</b>	<b>45</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>45</b>	<b>-</b>	<b>45</b>

#### V. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services	219	219	-	219
Diagnostic visits	200	210	-	210
Field Day	7	775	17	792
Group discussions	2	80	-	80
Kisan Ghosti	-	-	-	-
Film Show	15	1300	-	1300
Self -help groups	-	-	-	-
Kisan Mela	6	508	6	514
Exhibition	14	2800	-	2800
Scientists' visit to farmers field	208	250	-	250
Plant/animal health camps	1	50	1	51
Farm Science Club	4	100	-	100
Ex-trainees Sammelan	-	-	-	-
Farmers' seminar/workshop	8	652	3	655
Method Demonstrations	37	1850	-	1850
Celebration of important days	1	70	10	80
Special day celebration	-	-	-	-
Exposure visits	13	650	-	650
Others (pl.specify)	-	-	-	-
<b>Total</b>	<b>735</b>	<b>9514</b>	<b>37</b>	<b>9551</b>

#### Details of other extension programmes

Particulars	Number
Electronic Media	-
Extension Literature	15900
News Letter	-
News paper coverage	73
Technical Articles	5
Technical Bulletins (Popular Article)	3

Technical Reports	5
Radio Talks	51
TV Talks	18
Animal health amps (Number of animals treated)	-
Others (pl.specify)	
<b>Total</b>	<b>16050</b>

## VI. PRODUCTION OF SEED/PLANTING MATERIAL

### Production of seeds by the KVKs

Crop category	Name of the crop	Name of the variety (if hybrid pl.specify)	Quantity of seed (q)	Value (Rs)	Number of farmers
Cereals					
	Paddy	Swarna sub-1	200 kg	3800	100
	Paddy	ADT 49	200 kg	4400	100
	Paddy	TRY 3	200 kg	3800	100
Oilseeds					
Pulses					
Commercial crops					
Vegetables					
Flower crops					
Spices					
Fodder crop seeds					
Fiber crops					
Forest Species					
Others (specify)					
<b>Total</b>			<b>600 kg</b>	<b>12000</b>	<b>300</b>

### Production of planting materials by the KVKs

Crop category	Name of the crop	Name of the Variety (if hybrid pl.specify)	Number	Value (Rs.)	Number of farmers
Commercial	-	-	-	-	-
Vegetable seedlings	-	-	-	-	-
	Tomato	PKM 1	1950	975	20
	Chillies	TNAU-CH-CO1	1950	975	20
	Brinjal	VRM 1	200	100	10
Fruits	-	-	-	-	-
Ornamental plants	-	-	-	-	-
Medicinal and Aromatic	-	-	-	-	-
Plantation	-	-	-	-	-
Spices	-	-	-	-	-
Tuber	-	-	-	-	-
Fodder crop saplings /Slips		CO3	4500	2250	90
Forest Species	-	-	-	-	-
	Kumil	-	25	250	7

	Teak	-	30	300	5
	Simaruba	-	10	100	1
Others	-	-	-	-	-
<b>Total</b>			<b>8665</b>	<b>4950</b>	<b>153</b>

### Production of Bio-Products

Bio Products	Name of the bio-product	Quantity	Value (Rs.)	No. of Farmers
		Kg		
Bio Fertilizers	-	-	-	-
Bio-pesticide	-	-	-	-
Bio-fungicide	-	-	-	-
Bio Agents	-	-	-	-
Others	Vermicompost	1500	7500	KVK, farm use
	Cocopeat	750	3000	KVK, farm use
	Azolla	700	Free distribution	400
<b>Total</b>		<b>2950</b>	<b>10500</b>	<b>400</b>

### Production of livestock and related enterprise materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers
<b>Dairy animals</b>	-	-	-	-
Cows	-	-	-	-
Buffaloes	-	-	-	-
Calves	-	-	-	-
Others (Pl. specify)	-	-	-	-
<b>Poultry</b>	-	-	-	-
Broilers	-	-	-	-
Layers	-	-	-	-
Duals (broiler and layer)	-	-	-	-
Japanese Quail	-	-	-	-
Turkey	-	-	-	-
Emu	-	-	-	-
Ducks	-	-	-	-
Others (Pl. specify)	-	-	-	-
<b>Piggery</b>	-	-	-	-
Piglet	-	-	-	-
Others (Pl. specify)	-	-	-	-
<b>Fisheries</b>	-	-	-	-
Fingerlings	-	-	-	-
Others (Pl. specify)	-	-	-	-
<b>Total</b>	-	-	-	-

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

Samples	No. of Samples	No. of Farmers	No. of Villages	Amount realized (Rs.)
Soil	-	-	-	-
Water	<b>10</b>	<b>10</b>	<b>10</b>	<b>100</b>
Plant	-	-	-	-
Manure	-	-	-	-
Others (pl. specify)	-	-	-	-
<b>Total</b>	-	-	-	-

**VIII. SCIENTIFIC ADVISORY COMMITTEE**

<b>Number of SACs conducted</b>
One (on 17.11.2011)

**IX. NEWSLETTER**

<b>Number of issues of newsletter published</b>
Three (Three Hundred Nos.)

**X. RESEARCH PAPER PUBLISHED**

<b>Number of research paper published</b>
Nine

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

<b>Activities conducted</b>				
<b>No. of Training programmes</b>	<b>No. of Demonstrations</b>	<b>No. of plant materials produced</b>	<b>Visit by farmers (No.)</b>	<b>Visit by officials (No.)</b>
-	10	-	500	30

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