ANNUAL REPORT 2012-13

(FOR THE PERIOD APRIL 2012 TO MARCH 2013)

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.kvksikkal.org

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

Address	Telephone		E mail	Web Address
	Office	Fax		
Tamil Nadu Agricultural University Coimbatore – 641 003.	0422-2431222	91- 422-2431672	vc@tnau.ac.in	www.tnau.ac.in

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. K.Sasikala	0435 - 2411966	9489829345	-

1.4. Year of sanction: 2004

1.5. Staff Position (as on 15st April 2013)

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	57660+10000	01.06.11	Permanent	BC
2	SMS	D.K.Sasikala	Professor	M	Seed science and Technology	Ph.D	37400-67000+9000	41720+9000	04.12.12	Permanent	SC
4	SMS	Dr. G. Thangamani	Asst. Prof.	F	Agrl. Microbiology	Ph.D	15600-39100+7000	25610+7000	05.08.09	Permanent	MBC
5	SMS	Dr.T. Elaiyabharathi	Asst. Prof.	M	Agrl. Entomology	Ph.D	15600-39100+6000	21170+6000	30.12.09	Permanent	BC
6	SMS	Dr. G. Malathi	Asst. Prof.	F	Horticulture	Ph.D	15600-39100+6000	21170+6000	31.12.09	Permanent	MBC
7.	SMS	Dr.M.Karthikeyan	Asst. Prof.	M	Plant Pathology	Ph.D	15600-39100+6000	21170+6000	02.01.2013	Permanent	BC
7	SMS	Dr.A.Anuradha	Asst. Prof.	M	Soil Science	Ph.D	15600-39100+6000	21170+6000	08.04.2013	Permanent	BC
8	Programme Assistant (Lab Tech.)/T-4	Mr.V. Gnanabharathi	Prog. Asst.(Tech)	M	Agriculture	B.Sc.,(Agri)	9300-34800+4400	13090+4400	05.06.07	Permanent	SC
9	Programme Assistant (Computer)/ T-4	Mr.G.Karthik	Prog. Asst. (Comp)	M	Computer Applications	BCA	9300-34800+4400	12080+4400	22.11.2012	Permanent	BC
10	Programme Assistant/ Farm Manager	Mr.R.Vedharethinam	Farm Manager	M	Agronomy	M.Sc. (Ag.)	9300-34800+4400	13090+4400	04.06.07	Permanent	MBC
11	Assistant	Mrs.S.Shanthi	Jr. Asst. cum Typist	F	Junior Assistant cum Typist	M.A.	5200-20200+2400	5950+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	5950+2400	28.02.11	Permanent	BC
13	Driver	Mr.S.D.Baburao	Foreman	M	Agrl. Engg. Supervisor	-	9300 – 34800 + 4200	14420+4200	16.11.2012	Permanent	BC
14	Driver	Mr.P.Govindaraj	Driver	M	Mechanic Grade II	H.Sc.,	5200-20200+2400	5670+2400	01.03.2011	Permanent	SC
15	Supporting staff	Mr.A.Ravi	Consolidated Driver	M	-	-	Consolidated	6000	01.12.2011	Temporary	SC
16	Supporting staff	Mr.K.Krishnasamy	Consolidated Driver	M	-	-	Consolidated	6000	01.12.2011	Temporary	BC

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

1.7. Infrastructural Development:
A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	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/-	**167927**	Good condition
Two Wheeler (TVS – star city)	2006	39,641/-	**74286**	Good condition
Two Wheeler (Suziki Access 125)	2009	49,651/-	**31625**	Good condition

C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Tractor – TN-51-C-1924	2004	3,47,607	Good
Rotavator	2004	68,500	Good
Cultivator	2004	14,645	Good
Cage Wheel	2004	11,684	Good
Leveller	2004	8.922	Good
Computer with Accessories	2005	75,000	Good
Xerox machine	2005	73,968	Good
Shredder	2006	25,605	Good

Digital Camera	2006	19,950	Good
Flow through paddy thresher	2006	50,000	Good
Laminar air flow chamber	2007	37,856	Good
Autoclave – vertical	2007	33,560	Good
Digital pH meter	2007	14,850	Good
Digital electronic balance	2007	18,150	Good
Computer – Desktop – 2No	2007	93,000	Good
Computer (Laptop – Compaq)	2007	49,400	Good
LCD Projector – 2 No	2007	1,07,000	Good
Power Tiller	2011	1,35,870	Good
SWTL Components			
Digital Visible Spectrophotometer	2011	39,104	Good
Digital pH meter "Elico" Make	2011	5,970	Good
All Glass Single Distillation unit	2011	36,400	Good
Khan Shaker "Labline"	2011	20,800	Good
Hot air oven	2011	17,680	Good
Hot plate	2011	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 exhauster 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
*** PHDF Components**			
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

1.8. Details SAC meeting conducted in 2012-13

Sl.No.	Date	Number of Participants	No. of absentees	Salient Recommendations	Action taken
-	-	-	-	-	Will be conducted during June 2013

PART II - DETAILS OF DISTRICT

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

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

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 10^0 8^0 and 11^0 28' in North Latitude and 76^0 34' and 75^0 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 Region	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
		Total	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	144055	NA	NA
2.	Millets	NA	NA	NA
3.	Pulses			
	Blackgram	31391	NA	NA
	Greengram	23999	NA	NA
4.	Sugarcane	2685	NA	NA
5.	Cotton	321	NA	NA
6.	Oilseeds			
	Groundnut	2673	NA	NA
	Gingelly	1184	NA	NA
	Oil palm	208	NA	NA
	Coconut	4135	NA	NA
	Vegetables	605	NA	NA
8	Cashew	869	NA	NA
9	Mango	1845	NA	NA

*Data will be available only after May 2013 – will be collected from Join Director of Agriculture, Nagapattinam

2.5. Weather data

Month	Rainfall (mm)	Temperature ^{0} C		Relative Humidity (%)
		Maximum	Minimum	
April 2012	13.0	34.3	25.8	76.3
May 2012	62.0	36.7	27.5	73.5
June 2012	9.5	37.1	26.9	63.3
July 2012	37.0	36.5	26.3	45.0
August 2012	87.0	35.2	25.8	96.7
September 2012	137.0	32.5	25.5	98.2
October 2012	577.5	31.1	24.8	50.8
November 2012	108.5	30.1	23.5	67.4
December 2012	42.5	28.8	22.9	93.7
January 2013	12.0	29.0	21.3	95.9
February 2013	25.0	29.8	22.2	97.4
March 2013	27.0	34.0	24.4	75.5

Source: AWS at KVK, Nagapattinam

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

Category	Population	Production	Productivity
Cattle			
Cow	256981	NA	NA
Crossbred	NA	6 lit / day	NA
Indigenous	NA	2 lit / day	NA
Buffalo			
Crossbred	11512	6 lit / day	**NA**
Sheep			
Crossbred	7122	NA	NA
Indigenous	NA	NA	NA
Goats	417186	277 kg / day	**NA**
Crossbred	NA	NA	NA
Indigenous	NA	NA	NA
Pigs	981	NA	NA

Crossbred	NA	NA	NA
Indigenous	NA	NA	NA
Rabbits	386	NA	NA
Poultry			
Hens	268910	11,000 Egg / day	NA
Desi	NA	NA	NA
Improved	NA	NA	NA
Ducks	532	NA	NA
Turkey and others	NA	NA	NA
Category	**Area**	**Production**	**Productivity**
Fish	**NA**	NA	**NA**
Marine	**NA**	67627 tonnes	**NA**
Inland	**NA**	7832 tonnes	2.2 t / ha
Prawn	**NA**	NA	NA
Scampi	**NA**	NA	NA
Shrimp	**NA**	NA	NA

Source: Join Director of Animal Husbandry, Nagapattinam

2.7 District profile has been Updated for 2012-13 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.	Vedharanyam	Vedharanyam	Panchanathikulam, Thennadar, Vanduvancheri, Vaimedu	**2**	Rice, Pulses, Coconut, Mango, Cahsew, Groundnut , Casuarina and Vegetables	Problematic saline and alkaline soil	Soil Health Management SSNM and organic manuring
						Low productivity in Vegetables and Mango	Introduction of newly released vegetable hybrids and use of IIHR mango special
						Heavy incidence of coconut Rhinocerous beetle throughout the year	IPM for coconut Rhinocerous beetle
						Incidence of shoot and fruit borer in brinjal	ICM in brinjal
						Labour problem for crop cultivation	Mechanized small scale vegetable cultivation

2.	Vedharanyam	Thalainayar	Neermulai, Panangadi, Pangal, Sithaimoor, Umbalachery, Kolapadu	**1**	Rice, Pulses Mango, Cashew and Vegetables	Yield reduction due to salinity and water logging and scarcity	Introduction of new rice varieties for submergence condition and saline tolerance.
						Incidence of shoot and fruit borer in brinjal	ICM in brinjal
						Low productivity of vegetable varieties	Introduction of newly released vegetable hybrids and use of IIHR mango special
						Labour problem	Mechanization in rice, horticultural crops
3.	Thirukkuvalai	Keelaiyur	Etukudi, Thaliyamalai, P.R.Puram, Vizhuthanmavadi, Tirukkuvalai	**2**	Rice, Pulses and Gingelly	• Loss of yield due to inundation of water and salinity • Low productivity of existing rice varieties	Introduction of new rice varieties for submergence condition and saline tolerance
						Crop diversification	Introduction of flower crops
						Labour problem	Mechanization
4.	Kilvelur	Kilvelur	Anthakudi, Adhamangalam, Valivalam, Kodiyalathur, Anaimangalam, Agarakadambanur	**1**	Rice and Pulses	• Heavy incidence of stem borer and bacterial leaf streak in rice during samba season • Low productivity of existing rice varieties	Eco-friendly pest and disease management in rice
						Crop diversification	Introduction of flower crops, vegetables
5.	Nagapattinam	Nagapattinam	Agra orathur, orathur, perungakambanoor, vadagudi, Vadavur	**2**	Rice, Pulses, Mango and Vegetables	Soil salinity, water logging due to flood and low soil fertility	Introduction of saline and submergence tolerant rice varieties and soil health management
						Heavy incidence of Spodoptera litura in rice-fallow pulses	IPM for *Spodoptera litura*

						Incidence of shoot and fruit borer in brinjal	ICM in brinjal
						Low productivity of vegetable varieties and mango	Introduction of newly released vegetable hybrids and use of IIHR mango special
6.	Nagapattinam	Thirumarugal	Kangalancheri, Kothamangalam, Kotarakudi, Thiruchenkatankudi, Vadakarai	**3**	Rice, Pulses, Cotton and Gingelly	Water logged condition and soil salinity	Introduction of saline tolerant rice variety and submergence tolerant rice variety and soil health management
						Crop diversification	Introduction of flower crops
7.	Tranqubar	Sembanarkoil	Kelaperumpalllam, kuranguputhur, T.Manalmedu, Tirukadiyur, Thiruchampalli	**1**	Rice, Pulses, Groundnut, Cotton, Sugarcane Banana, Mango Vegetables and Oil palm	Water scarcity, water logging and salinity	Increasing the productivity of rice and rice fallow crops
						High labour cost	Farm mechanization
						Incidence of shoot and fruit borer in brinjal.	ICM in brinjal
						Alternative crop for rice fallow pulse	Introduction of Vegetable Cowpea
						Low productivity in Mango	Use of IIHR mango special
8.	Mayiladuthurai	Mayiladuthurai	Ayvanallur, Mannampandal, , Moovalur,	**1**	Rice, Pulses, Groundnut, Cotton, Sugarcane and Banana	Weed infestation leads to high cost of labour	Introduction of herbicides and mechanical weeding.
						Labour scarcity	Farm Mechanization
						Heavy incidence of Spodoptera litura in rice-fallow and irrigated pulses	IPM for Spodoptera litura
						Algal problem in rice eco-system	Integrated algal management
9.	Kuttalam	Kuttalam	Sethirabalapuram, Senniyanallur, Theralandur, Tirumanacheri, Vanathirajapuram	**1**	Rice, Pulses, Groundnut, Cotton, Sugarcane, Banana and	Weed infestation leads to high cost of labour	Introduction of herbicides and mechanical weeding.
						Labour scarcity	Farm Mechanization

					Vegetables	Heavy incidence of Spodoptera litura in rice-fallow and irrigated pulses	IPM for Spodoptera litura
						Low productivity of vegetable varieties	Introduction of Vegetable Cowpea and introduction of newly released vegetable hybrids
10.	Sirkali	Sirkali	Poompuhar, Maruthuvakudi, Thilaividangan, Vilanthidasamuthiram, Thittai	**1**	Rice, Pulses, Groundnut, Cotton, Sugarcane Banana and Vegetables	Weed infestation leads to high cost of labour	Introduction of herbicides and mechanical weeding.
						Labour scarcity	Farm Mechanization
						Soil salinity, flooding and low soil fertility	Soil health management and introduction of salt and submergence tolerant rice varieties
						Heavy incidence of Spodoptera litura in rice-fallow and irrigated pulses	IPM for Spodoptera litura
						Incidence of shoot and fruit borer in brinjal	ICM in brinjal
						Low productivity of vegetable varieties	Introduction of Vegetable Cowpea and introduction of newly released vegetable hybrids
						Algal problem in rice eco-system	Integrated algal management
11.	Sirkali	Kollidam	Gopalasamuthiram, Kelamathur, Achalpuram, Palayapalayam	**2**	Rice, Pulses, Groundnut, Cotton, Sugarcane Banana and Vegetables	Water logging, soil salinity	Introduction of saline and submergence tolerant rice variety and soil health management
						Labour scarcity	Farm mechanization

						Heavy incidence of Spodoptera litura in rice-fallow and irrigated pulses	IPM for Spodoptera litura

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	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	Hi – tech Horticulture technologies
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
6	**6**	60	69	14	13	125	120

Training				Extension Programmes			
3				4			
Number of Courses		Number of Participants		Number of Programmes		Number of participants	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
75	63	3000	2936	30	855	1500	8880

Seed Production (Qtl.)		Planting materials (Nos.)	
5		6	
Target	Achievement	Target	Achievement
530	77	5000	5904

Livestock, poultry strains and fingerlings (No.)		Bio-products (Kg)	
7		8	
Target	Achievement	Target	Achievement
150	40	1500	1420

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	Farmers need on alternative rice variety to TKM 9	Assessment of new rice varieties alternative to TKM 9 in Nagapattinam district	-	3	-	1	1	1.2	-	-	-	-
		Rice	Difficult to plant single seedling per hill, owing to weak and puny seedlings under SRI	-	Assessment of elite rice seedling production thro' bio - fertilizers	2	-	1	2	0.5	-	-	3	133
		Rice	Low uptake of Potassium nutrient & High cost of Potassic fertilizers	Substitution of K for economic rice productivity	-	1	-	-	1	-	-	-	1	1500ml
		Rice	Low productivity of existing rice varieties	-	Popularization of fine grain rice variety TNAU Rice ADT 49	3	-	2	1	0.5	-	-	1	10

		Rice	Low productivity of existing rice varieties	-	Popularization of newly released TNAU rice hybrid Co R H 4 in Nagapattinam dist.	1	-	1	1	0.2	-	-	-	-
		Rice	Low rice productivity in saline soil	-	ICM in saline soils with rice variety TRY3	3	-	1	1	1.0	-	-	3	12
		Rice	Labour scarcity and lack of skilled labour for planting young seedling under SRI during peak transplanting season leads to hurried manual random planting	Farmer friendly mechanized planting with ideal weed management (partial adoption of SRI principles)	-	5	-	2	5	-	-	-	-	-
		Rice	Difficult to operate multi (2 or 3) row weeder because of curved or bent rows and damage to rice plants while power weeding	Evaluation of weeders for paddy cultivation	-	3	-	2	3	-	-	-	-	-

		Rice	Weed menace especially sedges and BLW reduce dry seeded rice yield considerably in Vedaranyam, Thalainayar blocks	-	Demonstrating IWM including new formulation of herbicides for effective weed management and high rice productivity	2	-	1	1	-	-	-	-	-
2	Increasing the productivity of rice fallow pulses	Pulses	Non availability of high yielding and pest and Disease tolerant varieties	Assessment of black gram varieties suitable for rice fallow condition	-	2	-	1	1	1.03	-	-	-	-
		Pulses	Establishment and management of black gram under combine harvested rice field conditions	-	ICM for rice fallow black gram under combined harvested rice field (SPP)	1	-	-	1	2.5	-	-	2	25
	IPM	Pulses	Severe incidence of *Spodoptera* observed in all pulse growing areas due to non adoption of IPM	-	Management of *spodoptera litura* in pulses	3	-	2	1	-	-	-	4	60

	Farm mechanization	Pulses	Labour scarcity for harvesting, manual sowing due to soil moisture conditions	-	Farm mechanization in pulses	Sowing was taken up and trial was failed due to severe drought								
3	Increasing the productivity of vegetables	Vegetables (Tomato)	Low productivity of local varieties and dependency on particular commercial hybrids	-	Popularization of newly released TNAU tomato hybrid Co3 in Nagapattinam District	1	-	1	1	0.005	-	-	2	6
	Increasing the productivity of vegetables	Vegetable Cowpea	Lack of awareness on vegetable cowpea	-	Popularization of vegetable cowpea PKM1 as summer irrigated pulse crop in Nagapattinam District	2	-	1	1	0.7	-	-	-	-
4	IPM	Coconut	Heavy incidence of rhinoceros beetle throughout the year reduce nut yields and profit	-	IPM strategies for coconut rhinoceros beetle	2	-	1	1	-	-	-	4	60
5	Increasing the productivity of Sugarcane	Sugarcane	Low productivity of conventional method of cultivation	-	Enhancing sugarcane productive thro' SSI	2	-	2	2	25	-	-	1	1000

6	IFS	Poultry / fisheries	Poor yield of local breed due to unfavorable environmental condition	-	Demonstrating IFS concept in rice based wetland systems with introduction of rodo white bird and Pangasius fish culture and mushroom unit	2	1	1	2	-	-	26 Nos. Rodo white bird, 500Nos. Pangasius fish, 3100 Nos. composite fish	1	50
7	Increasing milk productivity	Animal husbandry	Low productive of milk due to conventional feeding method	Assessment of TANUVAS GRAND supplement in cross breed dairy cows	-	2	1	-	1	-	-	-	-	-

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
1.	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	2	-	1	1	2.4	-	-	1	4.0

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	Assessment of new rice varieties alternative to TKM 9 in Nagapattinam district	TNAU	Rice	2	-	4	1
2	Substitution of K for economic rice productivity	TNAU	Rice	5	-	1	1
3	Farmer friendly mechanized planting with ideal weed management (partial adoption of SRI principles)	TNAU	Rice	2	-	7	5
4	Evaluation of weeders for paddy cultivation	TNAU	Rice	5	-	5	3
5	Assessment of black gram varieties suitable for rice fallow condition	TNAU	Pulses	5	-	3	**1**
6	Assessment of TANUVAS GRAND supplement in cross breed dairy cows	TANUVAS	Livestock	30	-	3	**1**
7	Assessment of elite rice seedling production thro' bio - fertilizers	TNAU	Rice	-	5	3	2
8	Popularization of fine grain rice variety TNAU Rice ADT 49	TNAU	Rice	-	5	5	1
9	Popularization of newly released TNAU rice hybrid Co RH 4 in Nagapattinam dist.	TNAU	Rice	-	2	2	1
10	ICM in saline soils with rice variety TRY3	TNAU	Rice	-	10	4	**1**

11.	Demonstrating IWM including new formulation of herbicides for effective weed management and high rice productivity	TNAU	Rice	-	5	2	
12	ICM for rice fallow black gram under combined harvested rice field (SPP)	TNAU	Pulses	-	20	1	1
13	Management of *spodoptera litura* In pulses	TNAU	Pulses	-	10	5	**1**
14	Farm mechanization in pulses	TNAU	Pulses	-	Sowing was taken up and trial is failed due to severe drought		
15	Popularization of newly released TNAU tomato hybrid Co3 in Nagapattinam District	TNAU	Vegetables(Tomato)	-	10	2	**1**
16	Popularization of vegetable cowpea PKM1 as summer irrigated pulse crop in Nagapattinam District	TNAU	Vegetables(Cow pea)	-	10	3	**1**
17	IPM strategies for coconut rhinoceros beetle	TNAU	Coconut	-	10	3	**1**
18	Enhancing sugarcane productive thro' SSI	ICRISAT	Sugarcane	-	5	4	**2**
19	Demonstrating IFS concept in rice based wetland systems with introduction of rodo white bird and Pangasius fish culture and mushroom unit	TANUVAS	Livestock	-	5	4	**2**
20	ICM in rice fallow black gram	TNAU	Pulses	-	20	3	**1**

3.B2 contd..

No. of farmers covered															
OFT				**FLD**				**Training**				**Others (Specify)**			
General		**SC/ST**		**General**		**SC/ST**		**General**		**SC/ST**		**General**		**SC/ST**	
M	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**M**	**F**
50	**1**	**9**	**-**	**83**	**2**	**15**	**-**	**550**	**50**	**210**	**40**	**540**	**48**	**98**	**14**

PART IV – On Farm Trial

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Integrated Nutrient Management	1	-	-	-	-	-	-	-	-	1
Varietal Evaluation	1	-	1	-	-	-	-	-	-	2
Integrated Pest Management	-	-	-	-	-	-	-	-	-	-
Integrated Crop Management	-	-	---	-	-	-	-	-	-	-
Integrated Disease Management	-	-	-	-	-	-	-	-	-	-
Small Scale Income Generation Enterprises	-	-	-	-	-	-	-	-	-	-
Weed Management	1	-	-	-	-	-	-	-	-	1
Resource Conservation Technology	-	-	-	-	-	-	-	-	-	-
Farm Machineries	1	-	-	-	-	--	-	-	-	1
Integrated Farming System	--	-	-	-	-	-	-	-	-	-
Seed / Plant production	-	-	-	-	--	-	-	-	-	-
Value addition	-	-	-	-	-	-	-	-	-	-
Drudgery Reduction	-	-	-	-	-	-	-	-	-	-
Storage Technique	-	-	-	-	-	-	-	-	-	-
Mushroom cultivation	--	-	-	-	-	-	-	-	-	-
Total	**4**	**-**	**1**	**-**	**-**	**-**	**-**	**-**	**-**	**5**

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Integrated Nutrient Management	-	-	-	-	-	-	-	-	-	-
Varietal Evaluation	-	-	-	-	-	-	-	-	-	-
Integrated Pest Management	-	-	-	-	-	-	-	-	-	-
Integrated Crop Management	-	-	-	-	-	-	-	-	-	-
Integrated Disease Management	-	-	-	-	-	-	-	-	-	-

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

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

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

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

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

4.B. Achievements on technologies Assessed and Refined
4.B.1. Technologies Assessed under various Crops

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha (Per trail covering all the Technological Options)
Integrated Nutrient Management	Rice	Substitution of K for economic rice productivity	5	5	2.0
	-	-	-	-	-
Varietal Evaluation	Rice	Assessment of new rice varieties alternative to TKM 9 in Nagapattinam district	5	2	0.8
	Pulses	Assessment of black gram varieties suitable for rice fallow condition	10	5	2.0
Integrated Pest Management	-	-	-	-	-
	-	-	-	-	-
Integrated Crop Management	-	-	-	-	-
	-	-	-	-	-
Integrated Disease Management	-	-	-	-	-
	-	-	-	-	-
Small Scale Income Generation Enterprises	-	-	-	-	-
	-	-	-	-	-
Weed Management	Rice	Farmer friendly mechanized planting with ideal weed management (partial adoption of SRI principles)			
Resource Conservation Technology	-	-	-	-	-
	-	-	-	-	-
Farm Machineries	Rice	Evaluation of weeders for paddy cultivation	5	5	2.0
	-	-	-	-	-
Integrated Farming System	-	-	-	-	-
	-	-	-	-	-
Seed / Plant production	-	-	-	-	-
	-	-	-	-	-
Value addition	-	-	-	-	-
	-	-	-	-	-
Drudgery Reduction	-	-	-	-	-
	-	-	-	-	-
Storage Technique	-	-	-	-	-
	-	-	-	-	-
Mushroom cultivation	-	-	-	-	-
	-	-	-	-	-
Total			**25**	**17**	**6.8**

4.B.2. Technologies Refined under various Crops

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

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

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials	No. of farmers
Evaluation of breeds	-	-	-	-
Nutrition management	-	-	-	-
Disease management	-	-	-	-
Value addition	-	-	-	-
Production and management	-	-	-	-
Feed and fodder	Cattle	Assessment of TANUVAS GRAND supplement in cross breed dairy cows	30	60
Small scale income generating enterprises	-	-	-	-
Total			**30**	**60**

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

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

4.C1. Results of Technologies Assessed

Results of On Farm Trial

OFT - 1

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter			Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	TO 1	TO 2	TO 3	9	10	11	12
Rice	Irrigated	Farmers need alternative rice variety to TKM 9	Assessment of New rice varieties alternative to TKM 9 in Nagapattinam District	5	TO1 – FP (TKM 9) TO2 – ADT (R) 45 TO3 – Anna 4	Number of productive tiller / m2	320	353	342	Though Anna 4 produced more number of tillers, per panicle weight was higher which survived better during dry periods and recorded higher yield and BC ratio than TKM 9 and ADT 45	Anna 4 performed better – sowing time need to be taken care of as drought occurs during early period	Nil	-
						Yield kg / ha	4150	4500	4750				
						BCR	1:1.6	1:1.80	1:1.90				

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. /ha	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice)	Farmers use on their own though discourages the variety	4150	Kg / ha	22 250	1:1.6
Technology option 2	TNAU	4500	Kg / ha	26975	1:1.80
Technology option 3	TNAU	4750	Kg / ha	30350	1:1.90

OFT - 2

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter			Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	TO 1	TO 2	TO 3	9	10	11	12
Rice	Irrigated	Non application of potassic fertilizers leads to reduction in yield	Substitution of K for economic rice productivity	5	**TO1 –** Farmers practice	No of productive tillers/m2	263	288	338	Application of 75% recommended K + K - humate as basal (10kg/ha) + root dipping (0.1 %) and foliar spray (0.3%) were effective and recorded 20% higher yield (5700kg/ha) than check with BC ratio of 1:2.05.	Farmers are very interested to use K – humate	Nil	Nil
					TO2 - 75% Recommended K + soil – K Solubiliser (750ml / ha)	Yield	5000	5600	5700				
					TO3 – 75% Recommended K + K – humate	BCR	1:1.80	1:1.94	1:2.05				

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)	Conventional method	5000	Kg / ha	30000	1:1.80
Technology option 2	TNAU, 2008	5600	Kg / ha	35400	1:1.94
Technology option 3	TNAU, 2010	5700	Kg / ha	39450	1:2.05

OFT - 3

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter			Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	TO 1	TO 2	TO 3	9	10	11	12
Rice	Irrigated	Difficult to operate multi (2 or 3) row weeder because of curved or bent rows and damage to rice plants while power weeding	Evaluation weeders for paddy cultivation	5	**TO1 –** FP (Cono weeder) **TO2 –** double row power weeder **TO3 –** Single row power weeder	Number of productive tillers/m2	352	348	355	Weeding through manual cono weeder and single row power weeder were very efficient than double row power weeder. Stirring of soil, weed control and easy operation in manual planted rows by using single row power weeder as compared to double row weeder	Cono weeder and single row power weeders are very effective	Single row power weeder may be modified slightly by adjusting height of engine from soil	Based on soil type single row power weeder is to be modified
						Yield	6200	5800	6290				
						BCR	1:2.09	1:1.96	1.2.12				

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)	Farmers practice (Cono weeder)	6200	Kg / ha	43700	1:2.09
Technology option 2	TNAU	5800	Kg / ha	38300	1:1.96
Technology option 3	(KVK, Sikkal 2011)	6290	Kg / ha	44915	1:2.12

OFT – 4

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter			Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	TO 1	TO 2	TO 3	9	10	11	12
Rice	Irrigated	Labour scarcity and lack of skilled labour for planting young seedling under SRI during peak transplanting season leads to hurried manual random planting	Farmer friendly mechanized planting with ideal weed management in paddy	5	TO1 – FP (Manual random planting) TO2 – Machine planting + power weeder twice TO3 – Machine planting + Herbicide + power weeder	Number of productive tillers/m2	295	415	388	Machine planting with power weeding twice recorded higher yield and BC ratio than herbicide with power weeding once and manual weeding. Early soil stirring triggered tiller production resulting in higher yield and BC ratio.	Early power weeder operation is must but maintaining ideal soil moisture conditions seems to be challenging.	NIL	NIL
						Yield	4100	5975	5440				
						BCR	1:1.58	1:1.98	1:1.84				

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / ha	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice)	Conventional practice	4100	Kg/ha	21900	1:1.58
Technology option 2	TNAU	5975	Kg/ha	36750	1:1.98
Technology option 3	TNAU	5440	Kg/ha	31350	1:1.84

OFT – 5

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				
1	2	3	4	5	6	7				9	10	11	12
Pulses Black gram	Rice fallow	**Non availability of high yielding and pest and disease tolerance varieties**	Assessment of black gram varieties suitable for rice fallow condition	` 10	TO1-Existing variety- ADT3 , TO2-VBN 4, TO3- VBN 6	Yield	650 kg/ha	675 kg/ha	640 kg/ha	VBN 4 black gram variety was performed well with yield of 675kg/ha in rice fallow condition which was on par with the existing variety ADT 3 black gram. The YMV incidence was low in VBN 4 (15%) as compared to ADT 3 (20%) and VBN 6 (18%).	VBN 4 black gram variety is suitable to rice fallow condition than VBN 6	nil	nil
						Disease /pest incidence(yellow mosaic virus)	20%	15%	18%				

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 (Existing variety-ADT3)	TNAU	650	kg/ha	19750	1:3.08
Technology option 2- VBN 4,	TNAU	675	kg/ha	20875	1:3.20
Technology option 3- VBN 6	TNAU	640	kg/ha	19300	1:3.03

OFT – 6

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter			Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	TO 1	TO 2	TO 3	9	10	11	12
Animal husbandry (Dairy cows)	-	Low productive of milk due to conventional feeding method	Assessment of TANUVAS GRAND supplement in cross breed dairy cows	60	TO1- Conventional feeding (Farmers practice), TO2- TANUVAS GRAND supplement	Milk yield	105 lit/month/cow	125 litres/ month/cow	-	After feeding of TANUVAS GRAND Increasing milk yield from 400 ml to 650 ml per day than conventional method of feeding.	Apart from milk productivity appearance of cows and thickness of cow dung had improved and disease resistance can be achieved through this GRAND supplement.	nil	nil
						Consistency (Thickness) of cowdung	**Semi solid (60 %)**	**Solid (90 %)**	-				
						Skin appearance of cow	**Normal appearance 50 %**	**Non wrinkle Shining appearance 90 %**	-				

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-Farmers practice	Conventional feeding	105	Litres/cow/month	1310/month	1:2.31
Technology option 2- TANUVAS GRAND supplement	TANUVAS -2011	124.5	Litres/cow/month	1739/month	1:2.74

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

1	Title of Technology Assessed	**:**	Assessment of new rice varieties alternative to TKM 9 in Nagapattinam district	
2	Problem Definition	:	Farmers need on alternative rice variety to TKM 9	
3	Details of technologies selected for assessment	:	**Technology option 1 -** Farmer practice (TKM 9)	
			Technology option 2 – ADT (R) 45	
			Technology option 3 - Anna 4	
4	Source of technology	:	TO1 – FP	
			TO2 – TNAU	
			TO3 – TNAU	
5	Production system and thematic area	:	Rice – Rice – Pulses Increasing productivity of rice	
6	Performance of the Technology with performance indicators	:	**Technology Assessed**	**Production (kg/ha)**
			Technology option 1 -	4150
			Technology option 2 –	4500
			Technology option 3 -	4750
7	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	:	Farmers themselves assessed the crop stand and tiller production. Rating was given by the farmer in comparison with other check variety – as Better and Best as compared to check variety TKM 9 Farmers adjudged the variety in the order of TKM 9, ADT 45 and Anna 4	
8	Final recommendation for micro level situation	:	Anna 4 performs better under water scarce situation. Need to be recommended for early kuruvai(kharif) season during water scarce conditions	
9	Constraints identified and feedback for research	:	Precise sowing time depending upon the Cauvery water availability	
10	Process of farmers participation and their reaction	:	Farmers had shown much interest as this variety is drought resistant and medium slender grains as compared to bold TKM 9 variety	

OFT-2

1	Title of Technology Assessed	**:**	Substitution of K for economic rice productivity	
2	Problem Definition	:	Non application of potassic fertilizers leads to reduction in yield	
3	Details of technologies selected for assessment	:	**Technology option 1 –** farmers practice	
			Technology option 2 – 75% Recommended K + soil – K Solubiliser	
			Technology option 3 – 75% Recommended K + K-humate	
4	Source of technology	:	TO1 – Conventional method	
			TO2 – TNAU 2008	
			TO3 – TNAU 2010	
5	Production system and thematic area	:	Irrigated and Nutrient management	
6	Performance of the Technology with performance indicators	:	**Technology Assessed**	**Production (kg/ha)**
			Technology option 1 –	5000
			Technology option 2 –	5600
			Technology option 3 –	5700
7	Feedback, matrix scoring of various technology parameters done through farmer's	:	Farmers are interested to use K humate because of better crop stand and increasing yield	

	participation / other scoring techniques		
8	Final recommendation for micro level situation	:	75% Recommended K + K-humate
9	Constraints identified and feedback for research	:	Nil
10	Process of farmers participation and their reaction	:	Evinced keen interest as there is reduction in K fertilizer bill due to non-availability and escalation of K fertilizers.

OFT-3

1	Title of Technology Assessed	**:**	Evaluation of weeders for paddy cultivation	
2	Problem Definition	:	Difficult to operate multi (2 or 3) row weeder because of curved or bent rows and damage to rice plants while power weeding	
3	Details of technologies selected for assessment	:	Technology option 1 – Farmers practice (Cono weeder)	
			Technology option 2 – double row power weeder	
			Technology option 3 - Single row power weeder (KVK, Sikkal 2011)	
4	Source of technology	:	TO1 - TNAU	
			TO2 – TNAU	
			TO3 – KVK, Sikkal, 2011	
5	Production system and thematic area	:	Rice – rice – pulses Increasing rice productivity thro farmer friendly weed management	
6	Performance of the Technology with performance indicators	:	Technology Assessed	Production (kg/ha)
			Technology option 1 -	6200
			Technology option 2 –	5800
			Technology option 3 -	6290
7	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	:	Farmers expressed their scoring by better than double row weeder because of less weight and easy to operate although it has to be passed thro' all the rows.	
8	Final recommendation for micro level situation	:	Single row power weeder Could be operated easily in between rows as double row weeders damage crop rows because of zigzag planting by the labourers	
9	Constraints identified and feedback for research	:	Height of the engine in the single row power weeder to be modified in future	
10	Process of farmers participation and their reaction	:	Very receptive for rice mechanization techniques especially to see the farmer friendly single row power weeder	

OFT - 4

1	Title of Technology Assessed	:	Farmer friendly mechanized planting with ideal weed management (partial adoption of SRI principles)
2	Problem Definition	:	Labour scarcity and lack of skilled labour for planting young seedling under SRI during peak transplanting season leads to hurried manual random planting
3	Details of technologies selected for assessment	:	**Technology option 1 – F**armers practice (Manual random planting)
			Technology option 2 – Machine planting + power weeder twice
			Technology option 3 – Machine planting + Herbicide + power weeder
4	Source of technology	:	TO1 – FP
			TO2 – TNAU
			TO3 – TNAU
5	Production system and	:	Rice - Rice – Pulses cropping system

	thematic area		Increasing rice productivity thro mechanization	
6	Performance of the Technology with performance indicators	:	Technology Assessed	Production (kg/ha)
			Technology option 1 -	4100
			Technology option 2 –	5975
			Technology option 3 -	5440
7	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	:	Farmers expressed difficulty in power weeder operation due to non-availability of skilled labourers Visual rating done with the farmers on weed density and tiller production - ratings given as Average – Better and Best for the options experimented	
8	Final recommendation for micro level situation	:	Machine planting with two power weeder operations at 10- 15 and 30 – 35 DAT.	
9	Constraints identified and feedback for research	:	Maintaining ideal soil moisture for power weeder operation by efficient water management	
10	Process of farmers participation and their reaction	:	Farmers visited the field during important operations viz., transplanting by machine, power weeder and herbicide applications - expressed difficulties of water management	

OFT-5

1	Title of Technology Assessed	:	Assessment of black gram varieties suitable for rice fallow condition	
2	Problem Definition	:	Non availability of high yielding and pest and Disease tolerance varieties	
3	Details of technologies selected for assessment	:	**Technology option 1** – ADT 3-existing black gram variety	
			Technology option 2 – VBN 4 black gram	
			Technology option 3 – VBN 6 black gram	
4	Source of technology	:	TO1 –TNAU	
			TO2 – TNAU	
			TO3 –TNAU	
5	Production system and thematic area	:	Rice-Rice-Pulses, Increasing the productivity of rice fallow crops.	
6	Performance of the Technology with performance indicators	:	Technology Assessed	Production (kg/ha)
			Technology option 1 -	650 kg/ha
			Technology option 2 –	675 kg/ha
			Technology option 3 -	640 kg/ha
7	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	:	VBN 4 black gram seems to be resistant to yellow mosaic virus	
8	Final recommendation for micro level situation	:	VBN 4 black gram variety is suitable to rice fallow condition as compared to VBN 6	
9	Constraints identified and feedback for research	:	Lac k of awareness on VBN 4 black gram variety among the farmers	
10	Process of farmers participation and their reaction	:	Evinced keen interest on alternate variety for rice fallow condition as they dependent on ADT 3 variety for many years	

OFT-6

1	Title of Technology Assessed	**:**	Assessment of TANUVAS GRAND supplement in cross breed dairy cows	
2	Problem Definition	:	Low productive of milk due to conventional feeding method	
3	Details of technologies selected for assessment	:	Technology option 1 - Conventional feeding (Farmers practice),	
			Technology option 2 – TANUVAS GRAND supplement	
4	Source of technology	:	TO1 - Conventional feeding	
			TO2 – TANUVAS	
5	Production system and thematic area	:	Animal husbandry and Milk productivity	
6	Performance of the Technology with performance indicators	:	**Technology Assessed**	**Production (kg/ha)**
			Technology option 1	105 lit/month/cow
			Technology option 2	125 litres/month/cow
7	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	:	Apart from milk productivity appearance of cows and thickness of cow dung are improved and disease resistance could be achieved through GRAND supplement.	
8	Final recommendation for micro level situation	:	TANUVAS GRAND supplement performed better than conventional feeding due high milk production	
9	Constraints identified and feedback for research	:	Lack of awareness among farmers on availability of TANUVAS GRAND	
10	Process of farmers participation and their reaction	:	Receptive participation and ready for adoption	

4.D1. Results of Technologies Refined

Results of On Farm Trial

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

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

Does not arise

PART V - FRONTLINE DEMONSTRATIONS

5.A. Summary of FLDs implemented during 2012-13

Sl. No.	Category	Farming Situation	Season and Year	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
									Proposed	Actual	SC/ST	Others	Total	
1	Oilseeds	-	-	-	-	-	-	-	-	-	-	-	-	-
2	Pulses	Rice fallow	Winter 2012	Black gram	ADT 3	-	ICM	Integrated Crop Management of rice fallow blackgram under combine harvested rice field	10	10	5	15	20	-
		Rice fallow	Winter 2012	Blackgram/ Greengram	ADT 3	-	IPM	Management of *Spodoptera Litura* in pulses	4	4	-	10	10	-
		Rice fallow	Winter 2012	Blackgram/ Greengram	ADT 3	-	Farm mechanization	Farm mechanization in pulses	5	5	2	3	5	Sowing was taken up and trial was failure due to severe drought
3.	Cereals	Wet land	Rabi 2012-13	Rice	CO R 50 ADT 49	-	Increasing rice productivity	Assessment of eilte rice seedling production using bio – fertilizers	5	5	-	10	10	-

		Wet land	Rabi 2012-13	Rice	ADT 49	-	Introduction of newly released varieties	Popularization of fine grain rice variety TNAU rice ADT 49	10	10	1	9	10	-
		Wet land	Rabi 2012-13	Rice	-	COR H4	Introduction of newly released varieties	Popularization of Co4 paddy hybrid	10	10	2	8	10	-
		Wet land	Kharif2012 and Rabi 2012-13	Rice	TRY 3	-	Integrated crop management	Integrated Crop Management in saline soils with rice variety TRY 3	10	10	2	8	10	-
		Wet land	Rabi 2012-13	Rice	ADT R 49 / CO R 50	-	Weed management	Weed management in paddy	5	5	-	5	5	-
4.	Millets	NIL												
5.	Vegetables	Garden land	Rabi 2012 – 13	Tomato	-	COTH 3	ICM	Integrated Crop Management of Co3 tomato	4	4	-	10	10	-
		Garden land	Rabi 2012 – 13	Vegetable cowpea	PKM1	-	ICM	Sustainable live hood through introduction and marketing of vegetable cowpea PKM1 as summer irrigated pulse crop	4	4	-	10	10	-
6	Flowers	NIL												
7	Ornamental	NIL												
8	Fruit	NIL												

9	Spices and condiments	NIL												
10	Commercial													
		Wet land	Mid season 2013	Sugar cane	COSI 8	-	Increasing productivity	Enhancing sugarcane productivity through Sustainable Sugarcane Initiative	10	10	2	8	10	-
11	Medicinal and aromatic	NIL												
12	Fodder	NIL												
13	Plantation	Garden land	Perennial	Coconut	ECT	-	IPM	Management of coconut Rhinoceros beetle	4	4	1	9	10	-
14	Fibre	NIL												
15	Dairy	NIL												
16	Poultry	NIL												
17	Rabbitry	NIL												
18	Pigerry	NIL												
19	Sheep and goat	NIL												
20	Duckery	NIL												
21	Common carps	NIL												
22	Mussels	NIL												
23	Ornamental fishes	NIL												
24	Oyster mushroom	NIL												
25	Button mushroom													
26	Vermicompost	NIL												
27	Sericulture	NIL												
28	Apiculture	NIL												
29	Implements	NIL												
30	Others (specify)	Wet land	-	-			IFS	Demonstration IFS concept	2.5	2.5	-	5	5	-

		system						in rice based wetland system with introduction of Rodo white bird and pangasius fish culture and mushroom unit						

5.A. 1. Soil fertility status of FLDs plots during 2012-13

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	-	-	-	-	-	-	-	-	-	-	-	-
	Pulses	Rice fallow	Rice fallow 2013	Blackgram	ADT 3	-	ICM	Integrated Crop Management of rice fallow blackgram under combine harvested rice field	Rice fallow 2013	L	M	H	Rice
		Rice fallow	Rice fallow 2013	Blackgram/ Greengram	ADT 3	-	IPM	Management of *Spodoptera Litura* in pulses	Rice fallow 2013	L	M	H	Rice
		Rice fallow	Rice fallow 2013	Blackgram/ Greengram	ADT 3	-	Increasing productivity	ICM in pulses (SPP)	Rice fallow 2013	L	M	H	Rice
	Cereals	Wet land	Rabi 2012-13	Rice	ADT 50, ADT 49	-	Increasing productivity	Assessment of eilte rice seedling production using bio – fertilizers	Rabi 2012-13	L	M	H	Rice
		Wet land	Rabi 2012-13	Rice	ADT 49	-	Introduction of newly released varieties	Popularization of fine grain rice variety TNAU rice ADT 49	Rabi 2012-13	L	M	H	Rice
		Wet land	Rabi 2012-13	Rice	-	CORH 4	Introduction of newly released varieties	Popularization of CORH 4 paddy hybrid	Rabi 2012-13	L	M	H	Rice
		Wet land	Rabi 2012-13	Rice	TRY 3	-	Integrated crop management	Integrated Crop Management in saline soils with rice variety TRY 3	Rabi 2012-13	L	M	M	Rice
		Wet land	Rabi 2012 – 13	Rice	ADT R 49/ CO R 50	-	Weed management	Weed management in paddy	Rabi 2012 – 13	L	M	H	Rice
	Millets	-	-	-	-	-	-	-	-	-	-	-	-

	Vegetables	Garden land	Rabi 2012 – 2013	Tomato	-	COTH 3	ICM	Integrated Crop Management of COTH 3 tomato	Rabi 2012 – 2013	L	M	M	Vegetable
		Garden land	Rabi 2012 – 2013	Vegetable cowpea	PKM1	-	ICM	Sustainable live hood through introduction and marketing of vegetable cowpea PKM1 as summer irrigated pulse crop	Rabi 2012 – 2013	L	M	M	Vegetable
	Flowers	-	-	-	-	-	-	-	-	-	-	-	-
	Ornamental	-	-	-	-	-	-	-	-	-	-	-	-
	Fruit												
	Spices and condiments												
	Commercial	Wet land	Mid season 2013	Sugar cane	COSI 8	-	Increasing the productivity Thro' SSI	Enhancing sugarcane productivity through Sustainable Sugarcane Initiative	Mid season 2013	L	M	H	Sugarcane
	Medicinal and aromatic												
	Fodder												
	Plantation	Garden land	Perennial	Coconut	ECT	-	IPM	Management of coconut Rhinoceros beetle	Perennial	L	M	M	Coconut
	Fibre												

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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pulses	Management of *Spodoptera Litura* in pulses	ADT 3	-	Rice-Fallow	10	4	2.38	1.00	1.95	1.40	39.29	8075	8775	700	1.09	7500	7650	150	1:1.02
	Integrated Crop Management of rice fallow black gram under combine harvested rice field	ADT 3	-	Rice-Fallow	3	2	3..00	2.25	2..50	2.10	19.05	8500	12500	4000	1.47	7500	10500	3000	1:1.40
	Farm mechanization in pulses	ADT 3	-	Rice fallow	10	4	Sowing was taken up and trial was failure due to severe drought												

Cereals	Assessment of eilte rice seedling production using bio – fertilizers	ADT 49	-	Irrigated	10	5	61.25	58.74	60.00	51.20	17.20	31250	78300	42800	2.51	34500	68345	38940	1:1.98
		ADT 50					59.84	53.00	56.42	48.62	16.04	31250	75690	40190	2.42	34500	65081	35586	1:89
	Popularization of fine grain rice variety TNAU rice ADT 49	ADT(R) 49		Irrigated	10	10	58.8	46.5	52.65	45.0	17.0	37,500	71078	33578	1.90	37,500	60,750	23,250	1:1.62
	Integrated Crop Management in saline soils with rice variety TRY 3	**TRY 3**	-	Irrigated	10	10	58.00	54.00	56.0	51.00	9.8	37,500	72,800	35300	1:1.9	37,500	66,150	28,650	1:1.76
	Integrated Weed management in rice	ADT(R) 49, CO R 50	-	Irrigated	5	5	51.25	47.75	50.50	46.40	8.84	37500	55550	18050	1.48	38000	51040	13040	1:1.34
Millets																			
Vegetables																			
	Sustainable live hood through introduction and marketing of vegetable cowpea PKM1 as summer irrigated vegetable	PKM1	-	Garden land	10	2	201.53	156.5	179	126	42	81500	196900	115400	2.42	76500	138600	62100	1:1.81
Flowers																			
Ornamental																			
Fruit																			
Spices and condiments																			
Commercial	Popularization of COSi7 sugarcane in Nagapattinam District (2011 – 12)	CO Si 7	-	Irrigated	10	5	46	54	50	42.22	18.43	55,000	1,10,000	55,000	2.00	55,000	92,884	37,884	1.69
	Enhancing sugarcane productivity through Sustainable Sugarcane Initiative	CO Si 8	-	Irrigated	5	2	Sowing was taken up & trials is in progress												
Fibre crops like cotton																			

Medicinal and aromatic																			
Fodder																			
Plantation	Management of coconut Rhinoceros beetle	Local	-	Irrigated	10	5	16304	14000	15315	12500	22.5	16850	48000	31150	2.85	13500	35250	21750	1:2.61

* 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**
Weed management in rice		
Weed control efficiency (%)	80	30

5.B.2. Livestock and related enterprises (Nil)

Type of livestock	Name of the technology demonstrated	Breed	No. of Demo	No. of Units	Yield (q/ha)				% Increase	*Economics of demonstration Rs./unit)				*Economics of check (Rs./unit)			
					Demo			Check if any		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					H	L	A										
Duckery																	
Others (pl.specify)	Demonstration IFS concept in rice based wetland system with introduction of Rodo white bird and Pangasius fish culture and mushroom unit	Rodo white bird four way cross	5	9:1Nos.	252eggs/ month	198eggs/ month	225eggs/month	-	-	607 / month	1125/ month	518 / month	1:1.8	-	--	-	--
		Pangasious Fish		20000Nos.	75	70	72.5	-	-	215000/ha	507500/ha	292500/ha	1:2.3	-	-	-	-
		Inland Fish		7500Nos.	63	58	60.5	-	-	206250/ha	400000/ha	193750/ha	1:1.9	-	-	-	-

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

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

Data on other parameters in relation to technology demonstrated		
Parameter with unit	**Demo**	**Check if any**
Pangasious Fish weight gain / 6 month	**500g**	**-**
Inland Fish weight gain / 8 month	**800g**	**-**

5.B.3. Fisheries Nil

Type of Breed	Name of the technology demonstrated	Breed	No. of Demo	Units/ Area (m^2)	Yield (q/ha)				% Increase	*Economics of demonstration Rs./unit) or (Rs./m2)				*Economics of check Rs./unit) or (Rs./m2)			
					Demo			Check if any		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					H	L	A										

* 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.) Nil

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

5.B.4. Other enterprises - Nil

Enterprise	Name of the technology demonstrated	Variety/ species	No. of Demo	Units/ Area {m^2}	Yield (q/ha)				% Increase	*Economics of demonstration (Rs./unit) or (Rs./m2)				*Economics of check (Rs./unit) or (Rs./m2)			
					Demo			Check if any		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					H	L	A										
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 - Nil

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

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

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

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

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

Sl.No.	Activity	No. of activities organized	Number of participants	Remarks
1	Field days	14	300	-
2	Farmers Training	25	500	
3	Media coverage	5	-	
4	Training for extension functionaries	15	45	
5	Others (Please specify) Exposure visit on IFS concept	1	120	-

PART VI – DEMONSTRATIONS ON CROP HYBRIDS

Demonstration details on crop hybrids

Type of Breed	Name of the technology demonstrated	Name of the hybrid	No. of Demo	Area (ha)	Yield (q/ha)				% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demo			Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					H	L	A										
Cereals																	
Paddy	Popularization of Co RH 4 paddy hybrid	CORH4	10	10	52.5	50.5	51.5	48.0	7.3	38,000	69,525	39,525	1:1.83	37,500	64,800	27,300	1:1.73
Total	1		10	10	-	-	-	-	-	-	-	-	-	-	-	-	-
Oilseeds																	
Total																	
Pulses	Nil																
Total																	
Vegetable crops																	
Tomato	Integrated Crop Management of CO 3 tomato	CO 3 Hybrid	10	2	835	611	723	538	34.39	98900	289200	190300	2.92	88500	188300	99800	1:2.12
Total	1		5	1	--	-	-	-	-	-	-	-	-	-	-	-	-
Total																	
Commercial crops																	
Total																	
Total																	

H-High L-Low, A-Average

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

PART VII. TRAINING

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production										
Cropping Systems	1	20	-	20	-	-	-	20	-	20
Integrated Crop Management	4	109	3	112	40	-	40	149	3	152
Soil and Water Conservation	1	30	-	30	-	-	-	30	-	30
Horticulture										
a) Vegetable Crops										
Production of low value and high volume crop	2	55	3	58	7	-	7	62	3	65
Livestock Production and Management										
Dairy Management	1	101	19	120	-	-	-	101	19	120
Poultry Management	1	101	19	120	-	-	-	101	19	120
Feed and Fodder technology	1	50	-	50	10	-	10	60	-	60
Plant Protection										
Integrated Pest Management	2	55	6	61	9	-	9	64	6	70
Integrated Disease Management	2	40	16	56	9	5	14	49	21	70
Fisheries										
Integrated fish farming	3	151	34	185	15	-	15	166	34	200
Production of livestock feed and fodder	**1**	**20**	**6**	**26**	**9**	**-**	**9**	**29**	**6**	**35**
Agro-forestry										
Others (Disaster management)	**2**	**148**	**12**	**160**	**30**	**-**	**30**	**178**	**12**	**190**
TOTAL	**21**	**880**	**118**	**998**	**129**	**5**	**134**	**1009**	**123**	**1132**

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production										
Cropping Systems	1	30	2	32	8	-	8	38	2	40
Integrated Crop Management	7	175	30	205	23	14	37	198	44	242
Soil and Water Conservation	1	35	15	50	-	-	-	35	15	50
Integrated Nutrient Management	1	34	4	38	10	-	10	44	4	48
Livestock Production and Management										
Feed and Fodder technology	1	18	20	38	6	10	16	24	30	54
Agril. Engineering										
Farm machinery and its maintenance	6	197	20	217	47	-	47	244	20	264
Plant Protection										
Integrated Pest Management	1	28	-	28	-	-	-	28	-	28
Integrated Disease Management	1	28	-	28	-	-	-	28	-	28
Capacity Building and Group Dynamics										
Leadership development	2	40	40	80	10	10	20	80	20	100

Formation and Management of SHGs (FSC)	4	120	5	125	45	-	45	165	5	170
TOTAL	**25**	**705**	**136**	**841**	**149**	**34**	**183**	**854**	**170**	**1024**

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Integrated Farming System for wetland	1	115	5	120	9	2	11	124	7	131
TOTAL	**1**	**115**	**5**	**120**	**9**	**2**	**11**	**124**	**7**	**131**

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
TOTAL	-	-	-	-	-	--	-	-	-	--

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops	5	141	25	166	6	-	6	147	25	172
Integrated Pest Management	2	58	8	66	-	-	-	58	8	66
Integrated Nutrient Management	1	25	5	30	-	-	-	25	5	30
Total	**8**	**224**	**38**	**262**	**6**	**-**	**6**	**230**	**38**	**268**

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
Total	-	-	-	-	-	-	-	-	-	-

7.G. Sponsored training programmes conducted

S.No.	Area of training	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
1	**Crop production and management**										
1.a.	Increasing production and productivity of crops	4	124	15	139	6	-	6	130	15	145
2	**Production and value addition**	-	-	-	-	-	-	-	-	-	-
3.	**Soil health and fertility management**	-	-	-	-	-	-	-	-	-	-
4	**Production of Inputs at site**	-	-	-	-	-	-	-	-	-	-
5	**Methods of protective cultivation**										
6	**Others (Disaster management)**	1	80	10	90	-	-	-	80	10	90
7	**Post harvest technology and value addition**	-	-	-	-	-	-	-	-	-	-
8	**Farm machinery**										
8.a.	Farm machinery, tools and implements	2	182	15	197	-	-	-	182	15	197
9.	**Livestock and fisheries**	-	-	-	-	-	-	-	-	-	-
10	**Livestock production and**	-	-	-	-	-	-	-	-	-	-

	management										
11.	**Home Science**										
11.b	Economic empowerment of women	1	-	40	40	-	10	10	-	50	50
12	**Agricultural Extension**										
12.a	Capacity Building and Group Dynamics	1	25	5	30	-	-	-	25	5	30
	Total	**9**	**411**	**85**	**496**	**6**	**10**	**16**	**417**	**95**	**512**

Details of sponsoring agencies involved

1. **State Dept. of Agriculture**
2. **Agricultural Engineering Department**
3. **Fisheries University, Nagapattinam**
4. **Dept of Horticulture**
5. **NABARD**
6. **CIKS (NGO)**
7. **SWEET (NGO)**
8. **NAMCO (NGO)**
9. **WORLD VISION (NGO)**
10. **MSSRF(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
1	**Crop production and management**	-	-	-	-	-	-	-	-	-	-
2	**Post harvest technology and value addition**	-	-	-	-	-	-	-	-	-	-
3.	**Livestock and fisheries**	-	-	-	-	-	-	-	-	-	-
4.	**Income generation activities**	-	-	-	-	-	-	-	-	-	-
5	**Agricultural Extension**	-	-	-	-	-	-	-	-	-	-
	Grand Total	-	-	-	-	-	-	-	-	-	-

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	26	605	53	658	100	17	117	5	-	5
Kisan Mela	-	-	-	-	-	-	-	-	-	-
Kisan Ghosthi	-	-	-	-	-	-	-	-	-	-
Exhibition	4	650	50	700	75	25	100	-	-	-
Film Show	12	820	380	1200	30	15	45	-	-	-
Method Demonstrations	29	490	25	515	50	15	65	-	-	-
Farmers Seminar	2	65	75	140	20	-	20	-	-	-
Workshop	12	-	-	-	-	-	-	360	60	420
Group meetings	12	1300	-	1300	115	-	115	300	-	-
Lectures delivered as resource persons	-	-	-	-	-	-	-	-	-	-
Newspaper coverage	47	Mass								
Radio talks	52	Mass								
TV talks	15	Mass								
Popular articles	5	Mass								
Extension Literature	8 (2300 Nos.)	Mass								
Advisory Services	250	240	10	250	-	-	-	-	-	-
Scientific visit to farmers field	150	520	40	560	160	15	175	10	5	15
Farmers visit to KVK	-	925	45	965	400	35	435	-	-	-
Diagnostic visits	215	210	5	215	-	-	-	-	-	-
Exposure visits	6	200	30	230	-	-	-	-	-	-

Ex-trainees Sammelan	-	-	-	-	-	-	-	-	-	-
Soil health Camp	1	50	-	50	-	-	-	-	-	-
Animal Health Camp	1	50	-	50	-	-	-	-	-	-
Agri mobile clinic	-	-	-	-	-	-	-	-	-	-
Soil test campaigns	1	35	-	35	-	-	-	-	-	-
Farm Science Club Conveners meet	5	75	25	100	-	-	-	-	-	-
Women Self Help Group Conveners meetings	2	-	85	85	-	15	15	-	-	-
Mahila Mandals Conveners meetings	-	-	-	-	-	-	-	-	-	
Celebration of important days (Farm Innovators Meet)	-	-	-	-	-	-	-	-	-	-
Any Other (Specify) Animal Health Campaign	-	-	-	-	-	-	-	-	-	-
Total	**855**	**6235**	**1063**	**7053**	**950**	**137**	**1087**	**675**	**65**	**740**

PART IX – PRODUCTION OF SEED, PLANT AND LIVESTOCK MATERIALS

9.A. Production of seeds by the KVKs

Crop category	Name of the crop	Variety	Hybrid	Quantity of seed (qtl)	Value (Rs)	Number of farmers to whom provided
Cereals (crop wise)						
	Paddy	ADT 50	-	1.56	3542	20
	Paddy	Swarna sub – 1	-	1.07	2183	15
	Paddy	TRY – 3	-	2.20	4240	30
	Paddy	ADT – 49	-	0.55	1260	10
	Paddy	ADT – 45	-	2.40	5280	30
Vegetables	Bitter Gourds	Palur 1	-	33 Nos.	825	33
Fodder crop seeds	COFS 29	-	-	0.22	8800	70
Total	**-**	**-**	**-**	**-**	**26130**	**208**

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
Plantation	Coconut seedling	ECT	-	730	21900	150
Fodder crop saplings /Slips	CN Fodder slips	CO3	-	5094	2547	50
Forest Species	Kumil	-	-	80	800	20
Total				**5904**	**25247**	**220**

9.C. Production of Bio-Products

Bio Products	Name of the bio-product	Quantity Kg	Value (Rs.)	Number of farmers to whom provided
Bio Agents				
	Coco peat	350	1400	10

	Vermi compost	500	2000	KVK farm use
	Azolla	300	1500	KVK farm use
	Azolla	20	100	40
	Azolla	250	-	Free distribution to farmers (25)
	Coco peat	350	1400	10
Total		**1420**	**5000**	

9.D. Production of livestock materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	Number of farmers to whom provided
Dairy animals	-	-	-	-
Fisheries				
Fingerlings	Composite inland fish	16 kg	1600	10
Others (Pl. specify)				
Total		**16 kg**	**1600**	**10**

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

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

(A) KVK News Letter (Date of start, Periodicity, number of copies distributed etc.)

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

(B) Literature developed/published

Item	Title	Authors name	Number
Literature published			
Leaflet	Director sown rice	All SMS & PAs	1000
	PPFM /KCl technology	All SMS & PAs	1000
Popular article	Direct sown rice	Dr.R.Rajendran	News paper daily
	Summer ploughing	Dr.R.Rajendran	News paper daily
	INM & IPM for rice	Dr.R.Rajendran	News paper daily
Literature developed			
	Cultivation of CORH 4 paddy	-	50
	Cultivation of ADT 49	-	50
	Cultivation of ADT 50	-	50
	Coconut cultivation	-	50
	Management of Thanjavur wilt in coconut	-	50
	Azolla production technology	-	50
Booklet	SSI technology	-	50
TOTAL			**2350**

10.B. Details of Electronic Media Produced

S. No.	Type of media (CD / VCD / DVD/ Audio-Cassette)	Title of the programme	Number
1.	VCD	Success story of Pogainallur brinjal	5
2.	VCD	Structure of cono weeder	5
3.	VCD	Maintenance of drip irrigation accessories	5
4.	VCD	Boron deficiency and management in coconut	5
5	VCD	Management of meal bug in brinjal	5
6.	VCD	Impact of Mass spraying PPFM / KCl	10

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

FARMERS SUCCESS STORY – 1 (AGRICULTURE)

1.	Name of the Farmer	**Th.R.Perumal**
2.	Father name	Th.Rangaraj
3.	Gender	Male
4.	Complete Postal address	34, Alangudi Alangudi Post, Kuthalam (TK) Nagapattinam District.
5.	Contact Phone Number and E-mail ID.	9486835547
6.	Land & water assets details	0.8 ha and 1 borewell
7.	Details of Interventions made by the farmer with methodology	He is a progressive rice farmer having knowledge on System of Rice Intensification (SRI) and he modified the SRI according to his field soil fertility. He used the seed rate of 300 g / acre under SRI with spacing of 50 X 50 cm. He practiced the technology of seed treatment with Azophos, Pseudomonas. He also cultivated *sesbania rostrata* and incorporated it into the soil before planting.
8.	Outcome	The average productive tillers recorded were 327 / m^2 and he attained the yield of 10050 kg / ha

9.	Lessons learnt from the farmers experience	With the lesser seed rate of 300g / acre he has obtained maximum yield of 10050 kg / ha with partial SRI practices

FARMERS SUCCESS STORY – 2 ON HORTICULTURE

1.	Name of the Farmer	**Th.U.Thangarasu**
2.	Father name	Th. Uthirapathi
3.	Gender	Male
4.	Complete Postal address	243, Veerangudi kadu, North Poigai Nallur, South Poigai Nallur (PO) Nagapattinam District.
5.	Contact Phone Number and E-mail ID.	73731 33014
6.	Land & water assets details	1.4 ha, Farm pond
7.	Details of Interventions made by the farmer with methodology	Being a farmer growing rice and pulse crop, he could not able to generate good remuneration. Moreover, he had struggled a lot and he used to fight against natural calamities viz., flood, drought etc. After establishment of KVK at Sikkal in 2004, he used to visit KVK to get knowledge and training on vegetables cultivation techniques. He discussed with KVK scientist about his resource and difficulties in doing regular agriculture and received appropriate advice to go for cultivation of vegetables crops viz., tomato, chillies, gourds etc. Then switched over from cultivating rice and pulses and to vegetable cultivation and medicinal crop gloriosa. He used to get knowledge and training on hybrid vegetable cultivation techniques and get expertise on the above technique and get expertise exposure visits on precision farming to Dharmapuri, Krishinagri Districts. Then started cultivating hybrid vegetable such us tomato,

		chillies etc., From an area of half an acre, he had taken the highest yield of 16 tonnes of hybrid tomato Lakshmi. He got the per plant yield of 2 kg green chillies (Priyanka hybrid). He is also getting more than Rs. 50,000 net profit per year from vegetables and more than Rs.25,000 through gloriosa cultivation.
8.	Outcome	Rs.75,000/- per year
9.	Lessons learnt from the farmers experience	Farmers skill in raising vegetable crops viz., brinjal, chillies, cluster bean etc involving family labour.

FARMERS SUCCESS STORY- 3 (ANIMAL HUSBANDRY)

1.	Name of the Farmer	**Th.G.Jeevanandam**
2.	Father name	Th.M.Ganapathy
3.	Gender	Male
4.	Complete Postal address	Nangudi Village Kilvelur (TK) 611104
5.	Contact Phone Number and E-mail ID.	9443375262
6.	Land & water assets details	20 ha (Conventional cultivation), 5 farm ponds, 2 borewells and one borewell with Drip irrigation unit. IFS 1.56 ha (Citrus 10 cent, Mango 20 cent, amla 20 cent coconut 20 cent, moringa 100 cent, vegetable (brinjal, bhendi) 100 cent, chilles 20 cent, tomato 10 cent, poultry shed 10 cent, fish pond 30 cent)
7.	Details of Interventions made by the farmer with methodology	He is a progressive farmer having knowledge on not only IFS but also other crop cultivation rice, pulses, vegetables etc., He also the first person in Nagapattinam to adopt SRI with the advice of the scientist TRRI, Aduthurai and practicing since 2001. He used to get the net profit of 65,000 / ha

		only from the commercialized cropping system of rice – rice – blackgram. But after the intervention through KVK, Sikkal and his own involvement and interest he emerged as a model farmer of adopting IFS suited to the low land rice system.
8.	Outcome	Through IFS with the agriculture components of banana tree – 600 nos, Amla – 45 Nos, annual moringa – 0.4 ha, mango – 50 Nos. Citrus – 15 nos, bapkok poultry - 100Nos, four way cross – 100 nos. fish pond and fodder grass CO4 cultivation, he is getting a net profit 1,78,900 / ha / year as compared to Rs. 65,000 /ha / year under conventional crop cultivation alone.
9.	Lessons learnt from the farmers experience	1. Novel feeding of pulses haulm to goats without spillage / wastage install fed method 2. Growing tree crops with protection from flooded water 3. Skill of all available resource management more efficiently

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

DROUGHT MITIGATION PROGRAMME

In Nagapattinam District around **73,600 ha** of standing rice crop raised during samba and thaladi season (Rabi 2012-13) is under water stress condition. Out of 11 blocks, Nagapattinam, Keelaiyur, Thirumarugal, Thalainayur and Kilvelur blocks are severely affected by the prevailing drought. As per the report given by the Joint Director Agriculture, Department of Agriculture Nagapattinam about **56,000 ha** of rice under water stress condition can be saved with supplemental irrigation. As part of the samba package II announced by the Government of Tamil Nadu, Krishi Vigyan Kendra Sikkal, Nagapattinam is actively involved in taking up the mass spraying campaign cum demonstration programme of foliar spraying of water / liquid bio fertilizer (PPFM) through mobile sprinkler / boom sprayer for mitigating drought in rice crop under the guidance of TNAU.

Around **7097.5 ha** of rice fields have been covered by KVK, in Nagapattinam district. Th.T.Munisamy**,** District Collector, Tmt. Ashiya Mariyam, DRO, Nagapattinam, Dr.T.Jayaraj, Director TRRI and Nodal Officer drought mitigation programme in Cauvery Delta Zone, Dr.P.Kalaiselvan, Director of Extension Education, TNAU, Dr.Chellamuthu, Director, WTC, TNAU, Dr. Santhana Bosu Dean, AEC&RI, Th.U.Rajendran, JDA, Nagapattinam and other extension officials of the district were present in the demonstration programme and encourage the farmers to utilize the facility from KVK and extend the coverage by using this technique as quickly as possible.

Prof. Dr.K.Ramasamy, Vice Chancellor, TNAU inspected the demonstration at Seeravattam village, Keelaiyur block about the performance of the mass spraying campaign using PPFM and KCL on 04.01.2013 and discussed with farmers regarding the importance of mass spraying at this crop stage and also addressed to Jaya TV about the drought mitigation programme in the Cauvery Delta Zone.

The TNAU video team under the leadership of Dr. Venkat Prabu, Professor (Extension) has recorded direct live interview with farmer at Perunkadambanur and Nangudi villages in Nagapattinam and Kilvelur blocks on 6.1.2013 about the feed back after spraying PPFM/KCL.

On 10.01.2013 a high level committee under the Chairmanship of Hon'ble Finance Minister, Govt. of Tamil Nadu, Th. O. Panneer Selvam accompanied with Agricultural minster Th.T.Dhamodaran with six state Ministers/15 IAS officials including State Agricultural Production Commissioner Th. Sandheep Saxena, IAS and Commissioner of Agriculture, Th. Shivadas Meena, IAS inspected the mass spraying campaign organized by KVK, Sikkal at Seeravattam village, Keelaiyur block and interacted with the farmers about the performance and feedback of PPFM and MOP to mitigate the drought in rice crop. During the occasion Dr. T. Jayaraj, Director TRRI, and Nodal Officer, Drought mitigation programme in CDZ and his team along with Joint Director of Agriculture, Nagapattinam explained the results of PPFM spray to the high level committee.

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

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK
1.	Animal husbandry	Novel feeding of pulses haulm to goats without spillage / wastage in stallfed method of goat raring	**Feeding method**
2.	All crops	Broken palm tree pieces used for making owl perches and bio diversity	**Rat control**

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

- **Identification of courses for farmers/farm women –**

  field visits and informal discussion with farmers

- **Rural Youth**
  - field visits and informal discussion with farmers

- **In-service personnel**
  - Monthly Zonal Meetings and Farmers Grievances Day meeting proceedings and Oral discussions thro phone

10.G. Field activities

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

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
		Total	**9,50,439**

Details of samples analyzed so far since establishment of SWTL:

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)
Soil Samples	212	**53**	**53**	3180
Water Samples	44	44	38	440
Plant samples	-	-	-	-
Manure samples	-	-	-	-
Others (specify)	-	-	-	-
Total	**256**	**97**	**91**	**3620**

Details of samples analyzed during the 2012-13:

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)
Soil Samples	202	50	40	3030
Water Samples	34	34	28	340
Plant samples	-	-	-	-
Manure samples	-	-	-	
Others (specify)	-	-	-	-
Total	**236**	**84**	**68**	**3370**

10. I. Technology Week celebration during 2012-13 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			Nil
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	Anna 4 rice variety	2.0	5
	TRY 3 Paddy	4.0	10
	YRCH 1 Castor	1.6	4
	CO 4 Fodder grass	0.3	5
	COFS 29 Fodder	3.0	75
	Hedge Lucerne fodder	1.0	25

B. Major area coverage under alternate crops/varieties

Crops	Area (ha)	Number of beneficiaries
Oilseeds	1.6	4
Pulses	-	-
Cereals	6.0	15
Vegetable crops	-	-
Tuber crops	-	-
Other – fodder crops	4.3	105
Total	**11.9**	**124**

C. Farmers-scientists interaction on livestock management

State	Livestock components	Number of interactions	No.of participants
Tamil Nadu – Nagapattinam	Animal husbandry on dairy cows, goat rearing and fish farming	1	120
	Inland Fish farming	1	45
Total		**2**	**165**

D. Animal health camps organized

State	Number of camps	No.of animals	No.of farmers
Tamil Nadu – Nagapattinam	-	-	-
Total	**-**	**-**	**-**

E. Seed distribution in drought hit states

State	Crops	Quantity (qtl)	Coverage of area (ha)	Number of farmers
Tamil Nadu – Nagapattinam	Paddy – Anna 4	0.4	2	5
	TRY 3	1.0	4	10
	Fodder seeds	0.25	4.3	105
Total		**1.65**	**10.3**	**120**

F. Large scale adoption of resource conservation technologies

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

G. Awareness campaign

State	Meetings		Gosthies		Field days		Farmers fair		Exhibition		Film show	
	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers
Tamil Nadu – Nagapattinam	1	48	-	-	4	200	-	-	-	-	-	-
Total	**1**	**48**	**-**	**-**	**4**	**200**	**-**	**-**	**-**	**-**	**-**	**-**

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
Stallfed method of goat farming	50	25	-	-
Fourway cross poultry	50	25	-	-
Mass spraying of PPFM / KCl	6500	50	-	-

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)

1. Use of saline resistant TRY 3 rice variety in salt affected blocks of the district

About 35,000 ha area is affected by salinity for which KVK initiated the soil health management activities under the NADP project. To begin with, 60 farmers were selected from 5 blocks of Nagapattinam District. KVK distributed about 470 kg of saline tolerant rice varieties TRY3/ CO43 for Rabi season 2011 – 12. Farmers in Nagapattinam District produced their own seeds and spreading the new variety TRY 3 by themselves in larger area and the exact statistics on area of spread is being analyzed. The saline tolerant TRY 3 variety is high yielding, non-lodging in adition to the good cooking quality and suitable for idly making.

2. Farmer to farmer spread of PPFM spray to mitigate drought during samba season 2012-13

Under samba special package II around 7098 ha rice crop were saved by spraying of PPFM / KCl covering 6500 farmers in Nagapattinam district. Based on the effectiveness of PPFM in withstanding drought and favouring

crop growth, this technology has been spread from farmer to farmer by using about 630 litres of PPFM covering 1260 ha of rice crop directly without any intervention by KVK due to its positive impact.

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

Under Samba Special Package II scheme, all the scientists including Programme Coordinator involved in the drought mitigation work. The impact assessment on PPFM spray was carried out by Dr.G.Thangamani, AP (Microbiology) by randomly selecting 10 farmers and report submitted to University.

PART XII - LINKAGES

12.A. Functional linkage with different organizations

Name of organization	Nature of linkage
State dept. of Agriculture	1. Joint training, extension programmes and implementations of Rashtriya Sam Vikas Yojana, 2. Giving technical support and infrastructural support during monthly zonal workshop. 3.Joint field diagnostic survey for pest and disease management 4. Pre kharif and rabi training programme 5. Flood / Drought assessment 6. yield performance assessment 7. Organizing Agricultural Exhibition and seminar at block and District level
Dept. of Horticulture	1.Joint training programmes 2.Offering need based technical guidance to the extension functionaries. 4. Field diagnostic visit 5. Flood / Drought assessment 6. yield performance assessment
NABARD	Organizing Farm Science Club and exposure visits.
Local, NGOs -DHAN, MSSRF, SWEET, NAMCO, WORLD VISION, VAANGHAI	Organizing on/off campus training Programmes and exposure visits, offering need based technical guidance
ZPD, CRIDA, TANUVAS, IICPT, DEE, SCMS, CPPS, CPBG, TRRI-Aduthurai, SWMRI-Thanjavur, K VK-Thiruvarur, KVK-Trichy, KVK-Karaikal	Technical consultancy and exchange of SMS during training programmes.
AIR (Trichy, Karaikal)	Offering radio programmes on latest crop production technologies and periodical announcements of technologies on critical crop stage.
District Collectorate DRDA, Nagapattinam	Farmers 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	CRIDA, HYD	30,35,000

Salt Affected soil management in Nagapattinam district - NADP	2011-2012	GOI	4,00,000
Nutrient Manager for Rice for balanced nutrition in irrigated rice	2011-2012	IRRI & IPI	10,49,000
CMs Samba (Rabi) special package programme for drought management	13.12.2012	NADP –GOI	30,00,000

12.C. Details of linkage with ATMA

a) Is ATMA implemented in your district Yes

Coordination activities between KVK and ATMA during 2012 - 13

S. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK	Other remarks (if any)
01	**Meetings**	ATMA farmers advisory committee	**1**	**1**	
02	**Research projects**				
03	**Training programmes**	Preseason Kurvai / samba technology	**1**	**2**	-
		ICM for rice	4	1	
04	**Demonstrations**	Azolla production	**2**	**1**	
05	**Extension Programmes**				
	Kisan Mela	-	-	-	-
	Technology Week	-	-	-	-
	Exposure visit	Ultra high density planting on mango	**1**	**1**	-
	Exhibition	-	-	-	-
	Soil health camps	-	-	-	-
	Animal Health Campaigns	-	-	-	-
	Others (Pl. specify)	-	-	-	-
06	**Publications**				
	Video Films				
	Books	-	-	-	-
	Extension Literature	Azolla production technology (30 Nos.)	**2**	**1**	-
	Pamphlets	TNAU Technical Calendar 2013 distributed (50 nos)	**1**	**1**	-
	Others (Pl. specify)	-	-	-	-
07	**Other Activities** (Pl. specify)	-	-	-	-
	Watershed approach	-	-	-	-
	Integrated Farm Development	-	-	-	-
	Agri-preneurs development	-	-	-	-

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

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
1	Infrastructure development on training	Furnishing training hall	40000	40000	-

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 2012	5	78	8
May 2012	5	65	4
June 2012	5	78	2
July 2012	5	78	-
August 2012	5	78	-
September 2012	5	66	-
October 2012	5	78	1
November 2012	5	78	-
December 2012	5	78	-
January 2013	5	78	5
February 2013	5	65	-
March 2013	5	78	2

PART XIII- PERFORMANCE OF INFRASTRUCTURE IN KVK

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

Sl. No.	Demo Unit	Year of Establishment	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Produce	Qty.	Cost of inputs	Gross income	
1	Community nursery under shadenet	2011	0.25	Forest saplings, Ornamental plants	Forest saplings, Ornamental plants	80	200	800	Sold

						150	250		Planted in the borders of our KVK
2.	Low cost drip	2011	0.25	Vegetables	Maize Bhendi	74 No 49 kg	200.00	222.00 245.00	
3	Azolla Production Unit	2011	1 cent	Azolla microphilla	Azolla as seed material	570 kg	-	100	20 kg of azolla were sold and 550 kg of azolla were used in kvk farm and free distribution to the farmers

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

Name of the crop	Date of sowing	Date of harvest	Area (ac)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty. (Kg)	Cost of inputs	Gross income	
Cereals									
Paddy	18.10.2011	07.02.13	1.5	ADT 50	Seed (TFL)	1000	-	20000	
Paddy	19.10.2012	26.03.13	4.59	ADT 46	Seed (TFL)	750	-	15000	
Paddy					Grain	4160	-	56160	
Paddy	06.10.2012	04.03.13	0.71	White Ponni	Seed (TFL)	750	-	15000	
Oilseeds									
Fibers									
Spices & Plantation crops									
Floriculture									
Fruits									
Vegetables									
Green chillies					Vegetable	40	-	493	
Tomato					Vegetable	80	-	363	
Water					Consumab	390	-	3900	

melon					le				
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.,) - Nil

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) – Nil

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)**
---	Nil	--	Farmers who were coming for the training hails from local area within the district

13.F. Database management

S. No	**Database target**	**Database created**
1	-	-

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

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

				8	**Maize Bhendi**	**650**	**40**		

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 2012-13 (Rs. in lakh)

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	**Pay & Allowances**	70.00	70.00	84.80
2	**Traveling allowances**	1.00	1.00	1.00
3	**Contingencies**			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	2.00	2.00	2.00
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)	0.60	0.60	0.60
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	0.60	0.60	0.60
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	2.40	2.40	2.40
F	FLD on Special Pulses Programme	0.00	0.00	0.00
G	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	0.45	0.45	0.45
H	Training of extension functionaries	0.20	0.20	0.20
I	Maintenance of buildings	0.20	0.20	0.20
J	Extension Activities	0.25	0.25	0.25
K	Farmer's Field School	0.25	0.25	0.25
O	Library	0.05	0.05	0.05
TOTAL (A)		**8.50**	**8.50**	**8.50**
B. Non-Recurring Contingencies				
1	**Works**	-	-	-
2	**Equipments including Furniture** **Plant Health Diagnpstic**	-	-	-
3	**Vehicle** (Four wheeler/Two wheeler, please specify)	-	-	-
4	**Library** (Purchase of assets like books & journals)	-	-	-
TOTAL (B)		**0**	**0**	**0**
C. REVOLVING FUND		0	0	0
GRAND TOTAL (A+B+C)		**79.50**	**79.50**	**94.30**

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

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 1st April of each year

April 2010 to March 2011	0.80	3.19	2.62	1.37
April 2011 to March 2012	1.37	5.24	4.20	2.41
April 2012 to March 2013	2.41	3.01	1.36	4.06

15. Details of HRD activities attended by KVK staff during 2012-13

Name of the staff	Designation	Title of the training programme	Institute where attended	Dates
Dr.T.Elaiyabharathi	SMS (Agrl. Ento.)	Refreshment course on rodent control	NIPHM, Hyderabad	08.08.2012 to 14.08.2012
Dr.K.Sivakumar	SMS (SS& AC)	Preparation of Agromet Advisory services and use of weather data	CRIDA, Hyderabad	14.9.12 to 15.9.12
Dr.M.Karthikeyan	SMS (Plant Path.)	Fascination microbial bio inoculants for plant and human health	TNAU, Coimbatore	25.02.13 to 11.03.13
Dr.R.Rajendran	PC	Commodity futures Market	DoEE, TNAU, CBE	19.3.2013 to 20.3.2013
Dr.G.Thangamani	SMS (Agrl. Micro)	Efficient use of locally available natural resource	DoEE, TNAU, CBE	21.3.2013 &22.3.2013
Dr.K.Sivakumar	SMS (SS& AC)	Community Radio Service	DoEE, TNAU, CBE	25.3.2013 to 28.3.2013

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

NIL

SUMMARY FOR 2012-13

I. TECHNOLOGY ASSESSMENT

Summary of 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	Substitution of K for economic rice productivity	5	5	2.0
	-	-	-	-	-
Varietal Evaluation	Rice	Assessment of new rice varieties alternative to TKM 9 in Nagapattinam district	5	2	0.8
	Pulses	Assessment of black gram varieties suitable for rice fallow condition	10	5	2.0
Integrated Pest Management	-	-	-	-	-
	-	-	-	-	-
Integrated Crop Management	-	-	-	-	-
	-	-	-	-	-
Integrated Disease Management	-	-	-	-	-
	-	-	-	-	-
Small Scale Income Generation Enterprises	-	-	-	-	-
	-	-	-	-	-
Weed Management	Rice	Farmer friendly mechanized planting with ideal weed management (partial adoption of SRI principles)			
Resource Conservation Technology	-	-	-	-	-
	-	-	-	-	-
Farm Machineries	Rice	Evaluation of weeders for paddy cultivation	5	5	2.0
Total			**25**	**17**	**6.8**

Summary of technologies assessed under livestock

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials	No. of farmers
Feed and fodder	Cattle	Assessment of TANUVAS GRAND supplement in cross breed dairy cows	30	50
Small scale income generating enterprises	-	-	-	-
Total			**30**	**50**

Summary of technologies assessed under various enterprises

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials	No. of farmers
Total	-	-	-	-

Summary of technologies assessed under home science – Nil

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

II. TECHNOLOGY REFINEMENT

Summary of technologies refined under various crops - Nil

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

Summary of technologies assessed under refinement of various livestock - Nil

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

Summary of technologies refined under various enterprises - Nil

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

Summary of technologies refined under home science - Nil

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

III. FRONTLINE DEMONSTRATION

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										
Pulses	Management of *Spodoptera Litura* in pulses	ADT 3	-	Rice-Fallow	10	4	2.38	1.00	1.95	1:1.40	28.21	8075	8775	700	1.09	7500	7650	150	1:1.02
	Integrated Crop Management of rice fallow black gram under combine harvested rice field	ADT 3	-	Rice-Fallow	3	2	3..00	2.25	2..50	2.10	19.0	8500	12500	4000	1.48	7500	10500	3000	1:1.40
	Farm mechanization in pulses	-	-	-	-	-	Sowing was taken up and trial was failure due to severe drought												
Cereals	Assessment of eilte rice seedling production using bio – fertilizers	ADT 49	-	Irrigated	10	5	61.25	58.74	60.00	51.20	17.20	35500	78300	42800	2.21	29496	68345	38940	1:2.32
		ADT 50					59.84	53.00	56.42	48.62	16.04	35500	75690	40190	2.13	29496	65081	35586	1:2.21
	Popularization of fine grain rice variety TNAU rice ADT 49	ADT(R) 49		Irrigated	10	10	58.8	46.5	52.65	45.0	17.0	37,500	71078	33578	1.90	37,500	60,750	23,250	1:1.62
	Integrated Crop Management in saline soils with rice variety TRY 3	**TRY 3**	-	Irrigated	10	10	58.00	54.00	56.0	51.00	9.8	37,500	72,800	35300	1:1.9	37,500	66,150	28,650	1:1.70
	Integrated Weed management in rice	ADT(R) 49, CO R 50	-	Irrigated	5	5	51.25	47.75	50.50	46.40	9.0	37500	55550	18050	1.50	38000	51040	13040	1:1.34
	Sustainable live hood through introduction and marketing of vegetable cowpea PKM1 as summer irrigated vegetable	PKM1	-	Garden land	10	2	201.53	156.5	179	126	42	81500	196900	115400	2.42	76500	138600	62100	1:1.81

Commercial	Popularization of COSi7 sugarcane in Nagapattinam District (2011 – 12)	CO Si 7	-	Irrigated	10	5	46	54	50	42.22	18.43	55,000	1,10,000	55,000	2.00	55,000	92,884	37,884	1.69
	Enhancing sugarcane productivity through Sustainable Sugarcane Initiative	CO Si 8	-	Irrigated	5	2	Sowing was taken up & trials is in progress												
Plantation	Management of coconut Rhinoceros beetle	Local	-	Irrigated	10	5	16304	14000	15315	12500	22.5	16850	48000	31150	2.85	13500	35250	21750	1:2.61

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

Livestock

Type of livestock	Name of the technology demonstrated	Breed	No. of Demo	No. of Units	Yield (q/ha)				% Increase	*Economics of demonstration Rs./unit)				*Economics of check (Rs./unit)			
					Demo			Check if any		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					H	L	A										
Duckery																	
Others (pl.specify)	Demonstration IFS concept in rice based wetland system with introduction of Rodo white bird and Pangasius fish culture and mushroom unit	Rodo white bird four way cross	5	9:1Nos.	252eggs/ month	198eggs/ month	225eggs/month	-	-	607 / month	1125/ month	518 / month	1:1.8	-	--	-	--
		Pangasious Fish		20000Nos.	75	70	72.5	-	-	215000/ha	507500/ha	292500/ha	1:2.3	-	-	-	-
		Inland Fish		7500Nos.	63	58	60.5	-	-	206250/ha	400000/ha	193750/ha	1:1.9	-	-	-	-

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

Fisheries - Nil

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

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

Other enterprises - Nil

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

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

Women empowerment - Nil

Category	Name of technology	No. of KVKs	No. of demonstrations	Name of observations	Demonstration	Check
Women						
Children						

Farm implements and machinery - Nil

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

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

Other

Demonstration details on crop hybrids Type of Breed	Name of the technology demonstrated	Name of the hybrid	No. of Demo	Area (ha)	Yield (q/ha)				% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demo			Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					H	L	A										
Cereals																	
Paddy	Popularization of Co RH 4 paddy hybrid	CORH4	10	10	52.5	50.5	51.5	48.0	7.3	38,000	69,525	39,525	1:1.83	37,500	64,800	27,300	1:1.73
Total	1		10	10	-	-	-	-	-	-	-	-	-	-	-	-	-
Vegetable crops																	
Tomato	Integrated Crop Management of CO 3 tomato	CO 3 Hybrid	5	1	835	611	723	538	34.39	98900	289200	190300	2.92	88500	188300	99800	1:2.12
Total	1		5	1	--	-	-	-	-	-	-	-	-	-	-	-	-

IV. Training Programme

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production										
Cropping Systems	1	20	-	20	-	-	-	20	-	20
Integrated Crop Management	4	109	3	112	40	-	40	149	3	152
Soil and Water Conservation	1	30	-	30	-	-	-	30	-	30
Horticulture										
a) Vegetable Crops										
Production of low value and high volume crop	2	55	3	58	7	-	7	62	3	65
Livestock Production and Management										
Dairy Management	1	101	19	120	-	-	-	101	19	120
Poultry Management	1	101	19	120	-	-	-	101	19	120
Feed and Fodder technology	1	50	-	50	10	-	10	60	-	60
Plant Protection										
Integrated Pest Management	2	55	6	61	9	-	9	64	6	70
Integrated Disease Management	2	40	16	56	9	5	14	49	21	70
Fisheries										
Integrated fish farming	3	151	34	185	15	-	15	166	34	200
Production of Inputs at site										
Production of livestock feed and fodder	1	20	6	26	9	-	9	29	6	35
Others (Disaster management)	**2**	**148**	**12**	**160**	**30**	**-**	**30**	**178**	**12**	**190**
TOTAL	**21**	**880**	**118**	**998**	**129**	**5**	**134**	**1009**	**123**	**1132**

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production										
Cropping Systems	1	30	2	32	8	-	8	38	2	40
Integrated Crop Management	7	175	30	205	23	14	37	198	44	242
Soil and Water Conservation	1	35	15	50	-	-	-	35	15	50
Integrated Nutrient Management	1	34	4	38	10	-	10	44	4	48
Livestock Production and Management										
Feed and Fodder technology	1	18	20	38	6	10	16	24	30	54
Home Science/Women empowerment										
Agril. Engineering										
Farm machinery and its maintenance	6	197	20	217	47	-	47	244	20	264
Plant Protection										
Integrated Pest Management	1	28	-	28	-	-	-	28	-	28
Integrated Disease Management	1	28	-	28	-	-	-	28	-	28
Fisheries										

Capacity Building and Group Dynamics										
Leadership development	2	40	40	80	10	10	20	80	20	100
Formation and Management of SHGs (FSC)	4	120	5	125	45	-	45	165	5	170
Agro-forestry										
TOTAL	**25**	**705**	**136**	**841**	**149**	**34**	**183**	**854**	**170**	**1024**

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Any other (Integrated Farming System for wetland)	1	115	5	120	9	2	11	124	7	131
TOTAL	**1**	**115**	**5**	**120**	**9**	**2**	**11**	**124**	**7**	**131**

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
TOTAL	-	-	-	-	-	--	-	-	-	--

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops	5	141	25	166	6	-	6	147	25	172
Integrated Pest Management	2	58	8	66	-	-	-	58	8	66
Integrated Nutrient Management	1	25	5	30	-	-	-	25	5	30
Total	**8**	**224**	**38**	**262**	**6**	**-**	**6**	**230**	**38**	**268**

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
Total	-	-	-	-	-	-	-	-	-	-

Sponsored training programmes

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop production and management										
Increasing production and productivity of crops	4	124	15	139	6	-	6	130	15	145
Others (Disaster management)	1	80	10	90	-	-	-	80	10	90
Post harvest technology	-	-	-	-	-	-	-	-	-	-

and value addition										
Farm machinery	-	-	-	-	-	-	-	-	-	-
Farm machinery, tools and implements	2	182	15	197	-	-	-	182	15	197
Home Science	-	-	-	-	-	-	-	-	-	-
Economic empowerment of women	1	-	40	40	-	10	10	-	50	50
Agricultural Extension	-	-	-	-	-	-	-	-	-	-
Capacity Building and Group Dynamics	1	25	5	30	-	-	-	25	5	30
Total	**9**	**411**	**85**	**496**	**6**	**10**	**16**	**417**	**95**	**512**

Details of Vocational Training Programmes carried out for rural youth

S.No.	Area of training	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
	Grand Total	-	-	Nil						-	-

V. Extension 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	26	605	53	658	100	17	117	5	-	5
Kisan Mela	-	-	-	-	-	-	-	-	-	-
Kisan Ghosthi	-	-	-	-	-	-	-	-	-	-
Exhibition	4	650	50	700	75	25	100	-	-	-
Film Show	12	820	380	1200	30	15	45	-	-	-
Method Demonstrations	29	490	25	515	50	15	65	-	-	-
Farmers Seminar	2	65	75	140	20	-	20	-	-	-
Workshop	12	-	-	-	-	-	-	360	60	420
Group meetings	12	1300	-	1300	115	-	115	300	-	-
Lectures delivered as resource persons	-	-	-	-	-	-	-	-	-	-
Newspaper coverage	47	Mass								
Radio talks	52	Mass								
TV talks	15	Mass								
Popular articles	5	Mass								
Extension Literature	8 (2300 Nos.)	Mass								
Advisory Services	250	240	10	250	-	-	-	-	-	-
Scientific visit to farmers field	150	520	40	560	160	15	175	10	5	15
Farmers visit to KVK	-	925	45	965	400	35	435	-	-	-
Diagnostic visits	215	210	5	215	-	-	-	-	-	-
Exposure visits	6	200	30	230	-	-	-	-	-	-
Ex-trainees Sammelan	-	-	-	-	-	-	-	-	-	-
Soil health Camp	1	50	-	50	-	-	-	-	-	-
Animal Health Camp	1	50	-	50	-	-	-	-	-	-
Agri mobile clinic	-	-	-	-	-	-	-	-	-	-
Soil test campaigns	1	35	-	35	-	-	-	-	-	-
Farm Science Club Conveners meet	5	75	25	100	-	-	-	-	-	-
Women Self Help Group Conveners meetings	2	-	85	85	-	15	15	-	-	-
Total	**855**	**6235**	**1063**	**7053**	**950**	**137**	**1087**	**675**	**65**	**740**

Details of other extension programmes

Particulars	Number
Electronic Media	6
Extension Literature	2353
News Letter	100
News paper coverage	17
Technical Articles	
Technical Bulletins (Popular Article)	3
Technical Reports	
Radio Talks	52
TV Talks	15
Animal health amps (Number of animals treated)	-
Others (pl.specify)	-
Total	**2546**

VI. PRODUCTION OF SEED/PLANTING MATERIAL

Production of seeds by the KVKs

Crop category	Name of the crop	Variety	Hybrid	Quantity of seed (qtl)	Value (Rs)	Number of farmers to whom provided
Cereals (crop wise)						
	Paddy	ADT 50	-	1.56	3542	20
	Paddy	Swarna sub – 1	-	1.07	2183	15
	Paddy	TRY – 3	-	2.20	4240	30
	Paddy	ADT – 49	-	0.55	1260	10
	Paddy	ADT – 45	-	2.40	5280	30
Vegetables	Bitter Gourds	Palur 1	-	33 Nos.	825	33
Fodder crop seeds	COFS 29	-	-	0.22	8800	70
Total	**-**	**-**	**-**	**-**	**26130**	**208**

Production of planting materials by the KVKs

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	Number of farmers to whom provided
Fingerlings	Composite inland fish	16 kg	1600	10
Total		**16 kg**	**1600**	**10**

Production of Bio-Products

Bio Products	Name of the bio-product	Quantity Kg	Value (Rs.)	Number of farmers to whom provided
Bio Agents	-	-	-	-
	Coco peat	350	1400	10
	Vermi compost	500	2000	KVK farm use
	Azolla	300	1500	KVK farm use
	Azolla	20	100	40
	Azolla	250	-	Free distribution to farmers (25)
	Coco peat	350	1400	10
Total		**1420**	**5000**	

Production of livestock and related enterprise materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	Number of farmers to whom provided
Fingerlings	Composite inland fish	16 kg	1600	10
Total		**16 kg**	**1600**	**10**

VII. DETAILS OF SOIL, WATER AND PLANT ANALYSIS 2012 – 13

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)
Soil Samples	202	50	40	3030
Water Samples	34	34	28	340
Total	**236**	**84**	**68**	**3370**

VIII. SCIENTIFIC ADVISORY COMMITTEE

Number of SACs conducted
Not conducted

IX. NEWSLETTER

Number of issues of newsletter published
100

X. RESEARCH PAPER PUBLISHED

Number of research paper published
Nil

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

Activities conducted				
No. of Training programmes	**No. of Demonstrations**	**No. of plant materials produced**	**Visit by farmers (No.)**	**Visit by officials (No.)**
-	8	**Maize** **Bhendi**	**650**	**40**

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