



ANNUAL REPORT 2015-16

(FOR THE PERIOD APRIL 2015 TO MARCH 2016)

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
ICAR Krishi Vigyan Kendra Tamil Nadu Agricultural University, Sikkal-611108 Nagapattinam	04365 – 246266	04365 – 246266	kvksikkal@tnau.ac.in	www.kvknagapattinam.com

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.A.Anuratha	-	9865145075	anurakrish@yahoo.com

1.4. Year of sanction: 2004

1.5. Staff Position (as 31st March 2016)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	M /F	Discipline	Highest Qualification	Pay Scale	Date of joining KVK	Permanent /Temporary	Category
1	Programme Coordinator	Dr. A. Anuratha	Programme Coordinator	F	Soil Science	Ph.D	15600-39100+7000	30/12/2009	Permanent	OBC
2	SMS	Dr.M.Tamilselvan	Subject Matter Specialist	M	Horticulture	Ph.D	15600-39100+7000	10/04/2015	Permanent	SC
3	SMS	Dr.P.Kamaraj	Subject Matter Specialist	M	Agricultural Engineering	Ph.D	15600-39100+7000	15/06/2015	Permanent	SC
4	SMS	Dr. J. Thilagam	Subject Matter Specialist	M	Agricultural Extension	Ph.D	15600-39100+6000	19/07/2014	Permanent	OBC
5	SMS	Dr. R. Ravi	Subject Matter Specialist	M	Forestry	Ph.D	15600-39100+6000	19/07/2014	Permanent	OBC
6	SMS	Dr. M. Alagar	Subject Matter Specialist	M	Agricultural Entomology	Ph.D	15600-39100+6000	01/09/2014	Permanent	SC
7	SMS	Dr. J. Selvi	Subject Matter Specialist	F	Home Science	Ph.D	15600-39100+6000	17/09/2014	Permanent	OBC
8	Programme Assistant (Lab Tech.)/T-4	Mr.V.Gnanabharathi	Programme Assistant (Technical)	M	Agriculture	B.Sc, (Agri)	9300-34800+4400	05/06/2007	Permanent	SC
9	Programme Assistant (Computer)/ T-4	Er. R. Sakunthala	Programme Assistant (Computer)	F	Computer Science	B.E (Agri), MCA	9300-34800+4400	03/12/2008	Permanent	OBC
10	Programme Assistant/ Farm Manager T-4	Mr.R.Vedharethinam	Farm Manager	M	Agronomy	M.Sc, (Agri)	9300-34800+4400	04/06/2007	Permanent	OBC
11	Assistant	Th. E. Sivanesan	Superintendent	M	-	-	9300-34800 + 4800	20/06/2013	Permanent	OBC
12	Jr. Stenographer	S. Chitradevi	Junior Assistant cum Typist	F	-	-	5200-20200 + 2400	20/04/2015	Permanent	OBC
13	Driver	Vacant	-							
14	Driver	Mr.C.Veerakumar	Agri. Engg. Supervisor	M	-	-	9300-34800+4200	08/07/2013	Permanent	OBC
15	Supporting staff	Mr.A.Ravi	Office Assistant	M	-	-	Consolidated	01/12/2011	Temporary	SC
16	Supporting staff	Mr.K.Krishnasamy	Office Assistant	M	-	-	Consolidated	01/12/2011	Temporary	SC

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
5.	Others	0.00
Total		22.6

1.7. Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs. in Lakhs)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR	02/03/2009	548	41.65	-	-	Completed
2.	Farmers Hostel	ICAR	09/03/2009	300	26.38	-	-	Completed
3.	Staff Quarters	ICAR	19/03/2009	400	33.30	-	-	Completed
4.	Rain Water harvesting system	Others (AED)	16/03/2007	2400	0.80	-	-	-
5	Threshing floor	ICAR	21/01/2015	900	3.00	-	-	Completed
6	Fencing	ICAR	16/04/2014	-	5.00	-	-	Completed
7	SWTL	ICAR	31/03/2011	-	10.00	-	-	Completed
8	PHDF	ICAR	23/05/2012	-	10.00	-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Four Wheeler Bolero Jeep	2004	4,88,210	204933	Poor performance
Two Wheeler (TVS – star city)	2006	39,641	86232	Poor performance
Two Wheeler (Suzuki Access 125)	2009	49,651	41983	Good condition
Tractor	2005	345607	2227.1 hrs	Good condition

C) Equipments & AV aids

Name of the equipment	Cost (Rs.)	Purchased date	Present status
Desktop computer-Hp pavilion	48750	2005	Not in use
COMPAQ- Desktop computer with 17 " Sony TFT monitor, 0.6 KV Numeric UPS	93000	2007	Not in use
Digital Visible Spectrophotometer	39104	2011	Good Condition
Digital pH meter "Elico" Make	5970	2011	Good Condition
All Glass Single Distillation unit	36400	2011	Good Condition
Khan Shaker "Labline"	20800	2011	Good Condition
Hot air oven	17680	2011	Good Condition
Hot plate	7956	2011	Good Condition
Willey mill	32760	2011	Good Condition
Water Bath	7249	2011	Good Condition
UP based Flame Photometer "Elico" Make	45240	2011	Good Condition
Digital conductivity meter "Elico" Make	11326	2011	Good Condition
Electronic Top loading balance "Cyberlab"	6760	2011	Good Condition
Electronic Top loading balance "Shimadzu"	20592	2013	Good Condition
Water and Soil analysis kit	19750	2011	Good Condition
Digestion system (Kelplus)	112216	2011	Good Condition
Distillation system (Kelplus)	182936	2011	Good Condition
Instrument table	78000	2011	Good Condition
Rack,Almirah, Angle Iron rack	70000	2011	Good Condition
Soil and Plant storage cabin	100000	2011	Good Condition
Wash basin, sink and exhauster fan	70000	2011	Good Condition
Servo relay stabilizer – 2 Kva	75000	2011	Good Condition
Micropipette	3600	2011	Good Condition
Buchner funnel with flask	2000	2011	Good Condition
Titration unit	10000	2011	Good Condition
Vacuum pump	5000	2011	Good Condition
HCL Computer with printer	37600	2011	Good Condition
1 ton AC	19750	2011	Good Condition
Vertical stirrer	6500	2011	Good Condition
Electric muffal furnace	8892	2011	Good Condition
Remi model centrifuge	18946	2011	Good Condition
Laboratry incubator	16604	2011	Good Condition
Fire extinguisher	4500	2011	Good Condition
Soxhlet extraction mantle	5187	2011	Good Condition
Remi make cyclo mixer	4000	2011	Good Condition
Invertor	8650	2011	Good Condition
Battery	9850	2011	Good Condition
Executive chair netted	5800	2011	Good Condition

Computer table with cop board	4200	2011	Good Condition
Wall storage cup board	21250	2011	Good Condition
Wall side storage cabinet	5312	2011	Good Condition
Storage cabinet	44837	2011	Good Condition
Cabinet for conditioned storage of plant samples	10200	2011	Good Condition
Slotted angle iron rack	4250	2011	Good Condition
Steel Almirah	44200	2011	Good Condition
Revolving stool	7800	2011	Good Condition
Sink unit	36771	2011	Good Condition
Exhaust fan	12240	2011	Good Condition
Work table	9500	2011	Good Condition
Laboratory revolving chair	5658	2011	Good Condition
Steel senior plain cup board	36473	2011	Good Condition
Instrument table	69333	2011	Good Condition
Wall table	50825	2012	Good Condition
Sink with table	10750	2012	Good Condition
Revolving stools	6500	2012	Good Condition
Vortex mixer	6500	2012	Good Condition
Shaker	13388	2012	Good Condition
Water path	4620	2012	Good Condition
Split A/C with accessories	43300	2012	Good Condition
Vertical blinds	25500	2012	Good Condition
Separator	15500	2012	Good Condition
Electrical installation	5670	2012	Good Condition
Wall cupboard	24150	2012	Good Condition
Auto clave	28000	2012	Good Condition
Induction hot plate	3832	2012	Good Condition
Analytical balance	23100	2012	Good Condition
Magnetic stirrer	4725	2012	Good Condition
Laminar Air flow chamber	27300	2012	Good Condition
Laminar Air flow chamber	27300	2012	Good Condition
Thermo hygrometer	945	2012	Good Condition
Deep freezer	20475	2012	Good Condition
Stereo Zoom microscope	81900	2012	Good Condition
Stereo Zoom microscope	81900	2012	Good Condition
Stereo Zoom microscope	81900	2012	Good Condition
Hot air oven	18900	2012	Good Condition
Magnifer	4988	2012	Good Condition
B.O.D. Incubator	3600	2012	Good Condition

Digital pH meter	6300	2012	Good Condition
Dessicator (Table top plastic mount)	1575	2012	Good Condition
Dessicator (Table top plastic mount)	1575	2012	Good Condition
Refrigerated Centrifuge	149500	2012	Good Condition
D.O. Meter	9923	2012	Good Condition
U.V. Chamber	6825	2012	Good Condition
Display cabinet	25200	2012	Good Condition
Digital moisture meter	80950	2012	Good Condition
Cold water supplier	39950	2012	Good Condition
UPS (for Data processing system)	6700	2012	Good Condition
Refrigerator	17025	2012	Good Condition
Single glass distillation unit	45900	2012	Good Condition
Data processing system (one desktop, HP Colour printer)	90000	2012	Good Condition
Polarimeter	2999.85	2012	Good Condition
Force air circulator	11550	2012	Good Condition
Micro wave oven	5775	2012	Good Condition
Micro pipette and pipette holder	4200	2012	Good Condition
Colony counter	4935	2012	Good Condition
Portable Auto clave	4620	2012	Good Condition
SMS room partitioning	9180.5	2012	Good Condition
SWTL lab partitioning	9032.5	2012	Good Condition
Desktop computer-Hp pavilion	48750	2005	Not in use
COMPAQ- Desktop computer with 17 " Sony TFT monitor, 0.6 KV Numeric UPS	6500	2007	Not in use
COMPAQ- Desktop computer with 17 " Samsung TFT monitor, 0.6 KV Numeric UPS	46500	2007	Not in use
Apple i Mac work station	56000	2009	Good Condition
COMPAQ-Laptop	49400	2007	Good Condition
Hp laser printer-1010	8800	2007	Good Condition
TOSHIBA e studio 160- Copier cum printer	71400	2005	Not in use
Printer -HP-Colour Inkjet printer 3920	2600	2006	Good Condition
SAMSUNG Laser printer ML 1610	4925	2008	Not in use
SAMSUNG SCX4521-F fax cum printer	14400	2009	Good Condition
SAMSUNG Laser printer ML 1666	6800	2011	Not in use
Printer -HP-Laser jet 1020 plus	6450	2012	Good Condition
LCD projector SANYO- PLC XW 55	53500	2007	Good Condition
LCD projector SANYO- PLC XW 55	53500	2007	Good Condition
Scanner -UMAX ASTRA 4100	7150	2005	Good Condition

UPS numeric 1 KV extended battery	10250	2005	Not in use
UPS -1 KVA APC back BR 1000	7650	2009	Not in use
APC battery back BR	6300	2009	Not in use
UPS- numeric 1 KVA (Digital 1000 plus)	4750	2011	Not in use
GIGABYT key board with mouse	790	2008	Good Condition
Desktop Computer Compaq Hp intel core2, Monitor HP w 1707	56978	Free transfer from O/o the DEE, TNAU	Good Condition
HP 1015 printer			

1.8. Details SAC meeting conducted in 2015-16 :Nil

PART II - DETAILS OF DISTRICT

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

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

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

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

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

2.3 Soil type/s

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

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

Crop	Area (ha)	Production (MT)	Productivity (Kg/ha)
Rice	164436	506353	4031
Black gram	43030	0.2395	549
Green Gram	44299	0.2347	538
Sugarcane	2712	2.02	75000
Ground Nut	1479	0.04349	3000
Sesame	37	0.000188	500
Coconut	4001	6.01 Lakh nuts	150 Nuts/ha/year
Vegetables	506	10938	21600
Cashew	1780	840	471
Mango	3561	22220	6835
Banana	565	22600	40000
Flowers	350	3750	10700

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

2.5. Weather data

Month	Rainfall (mm)	Temp (Max)	Temp (Min)	Relative Humidity (%)
April 2015	80.5	33.6	27.0	76.0
May 2015	48.7	36.8	27.8	74.1
June 2015	64.1	36.1	26.8	63.5
July 2015	14.8	36.5	26.4	55.2
August 2015	22.7	35.8	25.8	94.0
September 2015	5.5	32.5	24.5	96.8
October 2015	228.5	31.9	24.8	72.9
November 2015	822.5	25.0	20.8	42.9
December 2015	514.4	26.5	23.8	93.7
January 2016	0	24.5	17.2	72.0
February 2016	0	30.2	22.6	88.0
March 2016	0	32	22.9	87.5

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

Category	Population (Numbers)	Production (Numbers)	Productivity
Cow -Crossbred	131910	325190	5 lit per cow milk
Cow- Indigenous	70200	89180	3 lit per cow milk
Buffalo-Crossbred	11619	31250	10 lit per buffalo milk
Sheep- Indigenous	7122	102000	12.5 kg / animal (meat)
Goats- Crossbred	95030	850700	11 kg / animal (meat)
Goats- Indigenous	322156	2728810	11 kg / animal (meat)
Pigs-Crossbred	167	5000	40 kg per animal
Pigs - Indigenous	1007	30000	30 kg per animal
Poultry-Hens- Desi Egg	203845	750000	120 eggs per year
Poultry-Hens- Desi- Meat	203845	150000	1 kg meat per bird
Poultry-Hens- Improved Meat	70212	65000	1.5 Kg per bird
Poultry -Hens- Ducks Eggs	520	1800	60 Eggs per year
Turkey and others	415	4000	10 kg per bird
Fish-Marine	-	61479 ton	-
Fish -Inland	-	7120 ton	-
Prawn		2.0 ton	

2.7 District profile has been Updated for 2015-16 - Yes

2.8.Details of Operational area / Villages

Sl.No	Taluk Name	Hobli/Block Name	Village Name	Since how long village covered	Major Crops	Major Problems	Identified Thrust Area
1	Nagapattinam	Nagapattinam	Ponveli	3 Years	Rice, Rice Fallow pulses	<ul style="list-style-type: none"> • Improper Nutrient Management in Rice and Pulses • Yield reduction due to pest and disease in major crops • Low yield of existing pulse variety 	<ul style="list-style-type: none"> • INM in Rice • ICM in pulses • IPDM in rice
2	Tranquebar	Sembanar Koil	Neduvasal	3 Years	Rice, Pulses	<ul style="list-style-type: none"> • Lack of knowledge on eco friendly management of Pest and Disease in Rice • No Other alternate to BPT 5204 • Non availability of green fodder • Low yield of existing pulse variety 	<ul style="list-style-type: none"> • Eco friendly pest Management in rice, • Varietal introduction in rice, • Fodder production, • ICM in pulses
3	Sirkazhi	Sirkazhi	Rathanallur	3 Years	Rice, Pulses, Vegetables, Banana, Casuarina, Sugarcane	<ul style="list-style-type: none"> • Lack of suitable Agro forestry system • Non availability of green fodder throughout the year • Yield reduction due to Pest and Disease 	<ul style="list-style-type: none"> • Varietal Evaluation, Agro forestry, Fodder production, IPDM in rice

4	Thirukuvalai	Keelaiyur	Thirupoondi East	2 Years	Vegetables, Ground nut, Mango, coconut and Casuarina	<ul style="list-style-type: none"> • Improper Nutrient Management in Maize & Coconut • Un awareness of salt tolerant crop • Yield reduction due to micronutrient deficiency in vegetables • Low yield of existing ground nut variety under rainfed condition 	<ul style="list-style-type: none"> • INM in Maize, Vegetables and Coconut, • Problem soil management, Varietal evaluation in groundnut
5	Mayiladuthurai	Mayiladuthurai	Maraiyur	4 Years	Rice, Pulses	<ul style="list-style-type: none"> • Improper Nutrient Management in Rice and Pulses • Yield reduction due to Pest and Disease in Rice • Non availability of green fodder throughout the year 	<ul style="list-style-type: none"> • INM in rice and pulses, • IPDM in rice, • Fodder production
6	Nagapattinam	Nagapattinam	Sangamangalam	5 Years	Rice, pulses, Vegetables and Coconut	<ul style="list-style-type: none"> • Improper Nutrient Management in Rice, Pulses, & Coconut, • No Other alternate to BPT 5204 in Samba • Un awareness of salt tolerant crop & bund tree cultivation 	<ul style="list-style-type: none"> • INM in rice and pulses, Vegetables and coconut, • Varietal evaluation in rice,
7	Kilvelur	Kilvelur	Anaimangalam	4 Years	Rice, pulses	<ul style="list-style-type: none"> • Yield reduction due to micronutrient deficiency in vegetables, • No alternate to existing composite carp culture. 	<ul style="list-style-type: none"> • Problem soil management, • Fish culture

8	Vetharanyam	Vetharanyam	Katharipulam	4 Years	Coconut, Mango, Tree crops, Vegetables, Maize	<ul style="list-style-type: none"> • Improper Nutrient Management in Maize & Coconut • Lack of suitable Agro forestry system in coastal areas and tree crops • Non availability of green fodder throughout the year • Lack of knowledge in value addition & marketing • Lack of entrepreneur activity among women 	<ul style="list-style-type: none"> • INM in Maize and coconut • Agro forestry, • Fodder production, • Value addition in Mango, Entrepreneur • development
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2.9 Priority thrust areas

S. No	Thrust Area
1.	Increasing the productivity of Rice and Pulses
2.	Maximizing the yield in vegetable crops
3.	INM and IPDM for Rice, Maize, Vegetables and Coconut
4.	Promoting saline tolerant crops in saline soils
5	Crop diversification
6	Ecological Pest management in rice
7	Agroforestry system
8	Production enhancement in coconut
9	Value addition in Millets, Vegetables and Fruits
10	Intercrop in Casuarina
11	Fish culture

PART III - TECHNICAL ACHIEVEMENTS

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

OFT				FLD			
1				2			
Number of OFTs		Number of farmers		Number of FLDs		Number of farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
4	4	18	18	16	16	150	150

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
65	50	3600	3511	1200	1233	4500	15043

Seed Production (Qtl.)		Planting materials (Nos.)	
5		6	
Target	Achievement	Target	Achievement
160	177.85	6000	7000

Livestock, poultry strains and fingerlings (No.)		Bio-products (Kg)	
7		8	
Target	Achievement	Target	Achievement
-	-	5000	5691.5

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	No of Training (farmers)	No of Training (Youths)	No of Training (extension personnel)	Extension activities (No.)	Supply of seeds (Qtl.)	Supply of planting materials (No.)	Supply of live stock (No.)	Supply of bio products
1.	IPM for rice	Paddy	<ul style="list-style-type: none"> Reduction in natural enemies population due to continuous application of pesticides. Lack of knowledge on AESA based IPM strategies in rice 	Assess the performance of Ecological Engineering IPM (EEIPM) module in Samba paddy	-	1	-	2	Demo-1	Daincha (50 g), Sunflower (100 g), Sesame (100 g), Cowpea (100 g), Marigold (20 g) Green gram (100 g) and Black gram (100 g)	-	-	<i>T. japonicum</i> & <i>T. chilonis</i> @ 1,00,000 (5 cc) / ha
2.	Varietal evaluation	Ragi	Low yield of existing variety	Assessment of Ragi varieties in Nagapattinam District	-	1	-	-	Demo-1	CO 15, ML 365 Seeds @ 5 Kg /ha	-	-	-
3	Integrated Nutrient Management	Maize	<ul style="list-style-type: none"> Indiscriminate use of fertilizers Low yield of existing varieties Low Fertilizer Use Efficiency 	Assessing the performance of Nutri seed pack for maize in Nagapattinam district	-	1	-	2	Demo-2	COMH6 Hybrid Seeds @ 20 kg/ha Nutriseed pack @55000 Nos /ha	-	-	-
4	Varietal evaluation	Ground nut	Low yield of existing ground nut variety under rainfed condition	Assessment of drought tolerant groundnut varieties under rainfed condition	-	1	-	-	Demo-1	CO 6 Seeds (kernal) @120 Kg/ha & Kadiri-9-Seeds (kernal) @120 Kg/ha	-	-	-

5	Varietal Introduction	Paddy	<ul style="list-style-type: none"> • Incidence of leaf folder and stem borer during Samba season (Rabi) • Farmers searching for other alternate to BPT 5204 during Rabi season 	-	Demonstration of newly released rice variety TKM 13	1	-	-	Field day-1, Demo-1	TKM 13 @ 40 Kg/ha	-	-	<i>Pseudomonas</i> @ 2.5kg/ha
6	seed production	Paddy	Non availability of new short duration and non lodging variety during Kuruvai (Kharif season)	-	Demonstration and farmers participatory seed production of TNAU rice TPS 5 in Kuruvai season	1	-	-	Field day-1, Demo-1	TPS 5 @ 60 Kg/Ha	-	-	-
7	Integrated Nutrient Management	Paddy	<ul style="list-style-type: none"> • Indiscriminate use of fertilizers • Non adoption of timely fertilizer application • Low fertilizer use efficiency 	-	Demonstration of Decision Supporting System for Integrated Fertilizer Recommendation (DSSIFER) software for rice	2	-	1	Field day-1, Demo-1	-	-	-	-
8	IDM	Paddy	<ul style="list-style-type: none"> • Yield reduction due to false smut disease • Poor grain quality leads to lesser market preference • Seed borne may be carry over to next season 	-	Demonstration of management on false smut disease in Samba paddy	2	-	1	Field day-1, Demo-1	-	-	-	<i>Pseudomonas fluorescens</i> @ 2.5 kg/ ha
9	IPM	Paddy	<ul style="list-style-type: none"> • Severe incidence of Brown planthopper reduced the yield up to 20 % (Rabi 2014-15) • Indiscriminate use of pesticides leads hopper resurgence 	-	Demonstration on IPM strategies for Rice Brown Planthopper	2	-	-	Field day-1, Demo-1	-	-	-	<i>Lecanicillium leccanii</i> @ 5 Kg/ha
10	Varietal Introduction	Black gram	<ul style="list-style-type: none"> • High incidence of yellow mosaic virus • Non adoption of seed treatment and Nutrient management 	-	Demonstration of ICM in TNAU Black gram variety MDU 1	1	-	1	Field day-1, Demo-1	Seeds @ 20 kg/ha	-	-	-
11	IPM	Cotton	Severe incidence of whitefly and mealybug causes poor crop establishment and yield reduction (20 %)	-	Demonstration on Eco friendly IPM modules for major sucking pest in cotton	1	-	-	Demo-2	-	-	-	<i>Lecanicillium leccanii</i> @ 2 kg/ demo, <i>Acerophagous papayae</i> @ 500 Nos/ha

12	INM	Brinjal	<ul style="list-style-type: none"> Yield reduction due to micronutrient deficiency (10-20%) Non adoption of foliar spraying of micro nutrients 	-	Demonstration of IIHR Vegetable special with ICM in Brinjal	-	-	-	Field day-1, Demo-1	-	-	-	Pseudomonas @ 10 g / kg of seed, neem cake @ 250 kg/ha
13	INM	Coconut	Low yield due to poor nutrient management and rhinoceros beetle incidence through out the year	-	Production enhancement through nutrient and rhinoceros beetle management in coconut	-	-	-	Field day-1, Demo-3	-	-	-	Metarhizium anisopilae @ 1kg/demo
14	Fodder production	Fodder	Low yield of milk due to the non availability of green fodder throughout the year	-	Demonstration of Multi-crop fodder production model for Nagapattinam District	-	-	-	Demo-1	COFS31 @ 5 kg /ha, Hedge Lucerne @ 20 kg/ha Sesbania grandiflora	CN grass CO5 cuttings @ 33333/ha	-	-
15	Fish culture	Fish	No alternate to existing composite carp culture	-	Demonstration of Pangasius fish culture under farmers participatory mode	-	-	-	Demo-1	-	-	Fingerlings @ 2 Nos/ Sq m	-
16	Agro Forestry-Varietal introduction	Malai vembu	Non availability of fast growing ply wood tree species	-	Demonstration of newly released TNAU Malai vembu MTP 1 under farmers participatory mode in Nagapattinam district	1	-	-	Demo-1	-	MTP 1 clones @ 2500 Nos / ha	-	-
17	Agro Forestry-Varietal introduction	Poplar	Lack of awareness in tree cultivation and non availability of suitable bund tree crop	-	Demonstration of newly released Poplar variety PL-4 under farmers participatory mode in Nagapattinam district	1	-	-	Demo-1	-	PL4 clones @ 2500/ha	-	-
18	Inter cropping	Groundnut + Casuarina	Low income due to non utilization of Casuarina plantations	-	Demonstration of Groundnut intercropping in Casuarina	1	-	-	Field day-1, Demo-1	Ground nut TMV-13 Seeds @120 Kg/ha	-	-	-

19	Value addition	Mango	<ul style="list-style-type: none"> Lack of knowledge on secondary processing technology Low price during peak season 	-	Entrepreneurship development through value addition in mango	2	-	-	Demo-2	-	-	-	-
20	organic nutritional garden	Vegetables	<ul style="list-style-type: none"> Demand for organic greens and vegetables Lack of knowledge in multi nutritive value 	-	Establishment of organic nutritional garden in School	2	-	-	Demo-2	Seed kit – Brinjal, Tomato, Bhendi	-	-	CCP – 20 kg Vermicompost – 100kg <i>T. viridi</i> , - 200 g, Azospirillum-200 g Phosphobacteria -200 g

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	Trainin g	Others (Specify)
1	2	3	4	5	6	7	8
1.	Assess the performance of Ecological Engineering IPM (EEIPM) module in Samba paddy	TNAU 2012, NIPHM 2013	Paddy	5	-	3	Demo-1
2.	Assessment of Ragi varieties in Nagapattinam District	TNAU 2013, UAS, Bangalore, 2013	Ragi	5	-	-	Demo-1
3	Assessing the performance of Nutri seed pack for maize in Nagapattinam district	TNAU 2012	Maize	3	-	3	Demo-1
4	Assessment of drought tolerant groundnut varieties under rainfed condition	TNAU, 2010, ANGRAU, 2010	Groundnut	5	-	1	Demo-1
5	Demonstration of newly released rice variety TKM 13	TNAU 2014	Paddy	-	20	1	Field day-1 Demo-1
6	Demonstration and farmers participatory seed production of TNAU rice TPS 5 in Kuruvai season	TNAU 2014	Paddy	-	10	1	Field day-1 Demo-1

7	Demonstration of Decision Supporting System for Integrated Fertilizer Recommendation (DSSIFER) software for rice	TNAU 2010	Paddy	-	10	2	Field day-1 Demo-1
8	Demonstration of management on false smut disease in Samba paddy	TNAU, 2012	Paddy	-	10	2	Field day-1 Demo-1
9	Demonstration on IPM strategies for Rice Brown Planthopper	TNAU, 2012	Paddy	-	10	2	Field day-1 Demo-1
10	Demonstration of ICM in TNAU Black gram variety MDU 1	TNAU , 2014	Black gram	-	10	1	Field day-1 Demo-1
11	Demonstration on Eco friendly IPM modules for major sucking pest in cotton	TNAU, 2012 CICR, 2014	Cotton	-	10	1	Demo-2
12	Demonstration of IIHR Vegetable special with ICM in Brinjal	IIHR, Bangalore 2012	Brinjal	-	10	-	Field day-1 Demo-1
13	Production enhancement through nutrient and rhinoceros beetle management in coconut	TNAU, 2012	Coconut	-	10	-	Field day-1 Demo-3
14	Demonstration of Multi-crop fodder production model for Nagapattinam District	TNAU, 2012	Fodder	-	11	-	Demo-1
15	Demonstration of Pangasius fish culture under farmers participatory mode	TNFU	Fish	-	5	-	Demo-1
16	Demonstration of newly released TNAU Malai vembu MTP 1 under farmers participatory mode in Nagapattinam district	TNAU	Malai vembu	-	5	1	Demo-1
17	Demonstration of newly released Poplar variety PL-4 under farmers participatory mode in Nagapattinam district	PAU, 2011	Poplar	-	10	1	Demo-1
18	Demonstration of Groundnut intercropping in Casuarina	TNAU 2013	Groundnut + Casuarina	-	5	1	Field day-1 Demo-1
19	Entrepreneurship development through value addition in mango	TNAU 2012	Mango	-	10	2	Demo-2
20	Establishment of organic nutritional garden in School	TNAU 2013	Vegetables	-	4	2	Demo-2

PART IV - On Farm Trial

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation	1	1	-	-	-	-	-	-	-	2
IPM	1	-	-	-	-	-	-	-	-	1
INM	1	-	-	-	-	-	-	-	-	1
Total	3	1	-	-	-	-	-	-	-	4

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

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

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

4.B. Achievements on technologies Assessed and Refined

4.B.1. Technologies Assessed under various Crops

Thematic areas	Crop	Name of the technology assessed	No. of trials	No. of farmers	Area in ha
IPM	Paddy	Assess the performance of Ecological Engineering IPM (EEIPM) module in Samba paddy	5	5	2
Varietal Evaluation	Ragi	Assessment of Ragi varieties in Nagapattinam District	5	5	4
INM	Maize	Assessing the performance of Nutri seed pack for maize in Nagapattinam district	3	3	0.6
Varietal Evaluation	Groundnut	Assessment of drought tolerant groundnut varieties under rainfed condition	5	5	2
Total			18	18	8.6

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

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

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

4.C1. Results of Technologies Assessed

OFT- 1.Assess the performance of Ecological Engineering IPM (EEIPM) module in Samba paddy

Crop/enter prise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter			Results of assessment	Feed back from the farmer	Any refine ment needed	Justifi cation for refine ment
							TO1	TO2	TO3				
1	2	3	4	5	6	7	TO1	TO2	TO3	9	10	11	12
Rice	Irrigated	Reduction in natural enemies population due to continuous application of pesticides and lack of knowledge on AESA based IPM strategies in rice	Assess the performance of Ecological Engineering IPM (EEIPM) module in Samba paddy	5	TO1: Farmers' Practice TO2: <i>T. japonicum</i> @ 1,00,000 (5 cc) / ha at weekly interval for 3 times, <i>T. chilonis</i> @ 1,00,000 (5 cc) /ha at weekly interval for 3 times, Pheromone traps @ 12/ha TO3: Ecological Engineering - Raising combination of crops like Daincha (50 g) Sunflower (100 g), Sesame (100 g), Cowpea (100 g), Marigold (20 g) Green gram (100 g) and Black gram (100 g) on the bunds	Stem borer incidence (%)	12.44	2.83	3.25	Application of <i>T japonicum</i> and <i>T chilonis</i> along with Pheromone traps reduced the pest infestation percentage and enhanced the population of natural enemies	Yield was higher, need less pesticide application	-	-
					Leaf folder incidence (%)	4.38	1.95	2.09					
					BPH incidence (%)	5.37	0.95	1.07					
					No of Spider /10 hill (Nos)	1.58	9.20	8.30					

Contd..

Technology Assessed	Source of Technology	Production	Unit	Net Return in Rs. / unit	BC Ratio
13	14	15	16	17	18
TO1:Farmers' Practice - Frequent use of pesticides	-	34.11	q/ha	6122	1.10
TO2: <i>Trichogramma japonicum</i> for stem borer @ 1,00,000 (5 cc) / ha at weekly interval for 3 times, <i>Trichogramma chilonis</i> for leaf folder @ 1,00,000 (5 cc) /ha at weekly interval for 3 times, Pheromone traps for Stem borer @ 12/ha	TNAU 2012	46.15	q/ha	26239	1.70
TO3: Ecological Engineering - Raising combination of crops like Daincha (50 g) Sunflower (100 g), Sesame (100 g), Cowpea (100 g), Marigold (20 g) Green gram (100 g) and Black gram (100 g) on the bunds to enhance the biological control agent (Pollan and Nectar)	NIPHM 2013	44.34	q/ha	24827	1.60

OFT 2. Assessment of Ragi varieties in Nagapattinam District

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter			Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
							TO1	TO2	TO3				
1	2	3	4	5	6	7	TO1	TO2	TO3	9	10	11	12
Ragi	Irrigated	Low yield of existing variety	Assessment of Ragi varieties in Nagapattinam District	5	TO 1: Farmer's practice TO 2: CO 15 Seeds @ 5 Kg/ha + Millet micronutrient mixture @ 5 kg/ha TO 3: ML 365 Seeds @ 5 Kg/ha + Millet micronutrient mixture @ 5 kg/ha	Plant Height (Cm) Number of ear head/ Plant (Nos)	70 4	73.5 6	72 5	CO15 performed better by producing higher yield with low incidence of stem borer and blast. and performed well in saline condition. It also well suited for value addition	Co15 Ragi variety produced more tiller per hill and is found to be resistant to Pest and Disease	-	-

Contd..

Technology Assessed	Source of Technology	Production	Unit	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
TO 1: Farmer's practice	Local	21.69	q/ha	11905	1.84
TO 2: CO 15 Seeds @ 5 Kg/ha + Millet micronutrient mixture @ 5 kg/ha	TNAU, 2013	25.13	q/ha	15204	2.01
TO 3: ML 365 Seeds @ 5 Kg/ha +Millet micronutrient mixture @ 5 kg/ha	UAS, Bangalore, 2013	23.27	q/ha	13065	1.89

OFT 3. Assessing the performance of Nutri seed pack for maize in Nagapattinam district

Crop/enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter			Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
							TO1	TO2	TO3				
1	2	3	4	5	6	7	TO1	TO2	TO3	9	10	11	12
Maize	Irrigated	<ul style="list-style-type: none"> Indiscriminate use of fertilizers Low yield of existing varieties Low Fertilizer Use Efficiency 	Assessing the performance of Nutri seed pack for maize in Nagapattinam district	3	TO 1: Farmer's practice TO 2: Blanket recommendation 250:75:75 COMH6 Hybrid Seeds @ 20 kg/ha, Urea @ 543kg/ha, Super @ 469 kg/ha, MOP @ 125kg/ha TO 3: Nutriseed pack @55000 Nos /ha	Plant Height (Cm) Number of cobs EC (dS/m) pH Av .N (Kg/Ha) Av.P (kg/Ha) Av.K (Kg/Ha) Organic Carbon (%)	161.7	189.3	208.3	Nutriseed pack for maize performed well in irrigated condition and gave more yield by saving the labour cost fertilizer and wastage.	Consume more water, Less labour requirement and more yield	-	-

Contd..

Technology Assessed	Source of Technology	Production	Unit	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
TO 1: Farmer's practice	Local	42.13	q/ha	16920	1.40
TO 2: Blanket recommendation 250:75:75 COMH6 Hybrid Seeds @ 20 kg/ha, Urea @ 543kg/ha, Super @ 469kg/ha, MOP @ 125 kg/ha	TNAU 2012	51.65	q/ha	26810	1.59
TO 3: Nutriseed pack @55000 Nos /ha	TNAU	67.83	q/ha	38800	1.69

OFT 4. Assessment of drought tolerant groundnut varieties under rainfed condition

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter			Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
							TO1	TO2	TO3				
1	2	3	4	5	6	7	TO1	TO2	TO3	9	10	11	12
Ground nut	Irrigated	Low yield of existing ground nut variety under rainfed condition	Assessment of drought tolerant groundnut varieties under rainfed condition	5	TO 1: Farmer's practice TO 2: CO 6 Seeds (kernal) @120 Kg/ha TO 3: Kadiri-9 Seeds (kernal) @120 Kg/ha	Yield (Q/Ha)	12.01	16.05	18.11	Kadiri 9 performed well in rainfed condition and gave more yield. Even though farmers need tikka leaf spot and rust disease resistant variety to get more yield	Farmers satisfied in the performance of Groundnut variety K 9 for its performance and pods in each plant is more	-	-

Contd..

Technology Assessed	Source of Technology	Production	Unit	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
TO 1: Farmer's practice	Local	12.01	q/ha	32500	2.06
TO 2: CO 6 Seeds (kernal) @120 Kg/ha	TNAU,2010	16.05	q/ha	52500	2.66
TO 3: Kadiri-9-Seeds (kernal) @120 Kg/ha	ANGRAU,2010	18.11	q/ha	62000	2.90

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 - Assess the performance of Ecological Engineering IPM (EEIPM) module in Samba paddy (Rabi)

1	Title of Technology Assessed	:	Assess the performance of Ecological Engineering IPM (EEIPM) module in Samba paddy (Rabi)
2	Problem Definition	:	<ul style="list-style-type: none"> • Reduction in natural enemies population due to continuous application of pesticides • Lack of knowledge on AESA based IPM strategies in rice
3	Details of technologies selected for assessment	:	<p>TO1: Farmers' Practice - Frequent use of pesticides</p> <p>TO2: <i>Trichogramma japonicum</i> for stem borer @ 1,00,000 (5 cc) / ha at weekly interval for 3 times <i>Trichogramma chilonis</i> for leaf folder @ 1,00,000 (5 cc) /ha at weekly interval for 3 times Pheromone traps for Stem borer @ 12/ha</p> <p>TO3: Ecological Engineering – Raising combination of crops like Daincha (50 g) Sunflower (100 g), Sesame (100 g), Cowpea (100 g), Marigold (20 g) Green gram (100 g) and Black gram (100 g) on the bunds to enhance the biological control agent (Pollan and Nectar)</p>
4	Source of technology	:	TNAU 2012, NIPHM 2013
5	Production system and thematic area	:	Irrigated and Integrated Nutrient Management
6	Performance of the Technology with performance indicators	:	<p>TO1: 34.11 q/ha</p> <p>TO2: 46.15 q/ha</p> <p>TO3: 44.34 q/ha</p>
7	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	:	Need less pesticide application and yield was higher in EEIPM plots
8	Final recommendation for micro level situation	:	Application of <i>Trichogramma japonicum</i> for stem borer and <i>Trichogramma chilonis</i> for leaf folder along with Pheromone traps reduced the pest infestation percentage and enhanced the population of natural enemies
9	Constraints identified and feedback for research	:	-
10	Process of farmers participation and their reaction	:	-

OFT 2. Assessment of Ragi varieties in Nagapattinam District

1.	Title of Technology Assessed	:	Assessment of Ragi varieties in Nagapattinam District
2.	Problem Definition	:	Low yield of existing varieties
3.	Details of technologies selected for assessment	:	TO 1: Farmer's practice
			TO 2: CO 15 Seeds @ 5 Kg/ha + Millet micronutrient mixture @ 5 kg/ha
			TO 3: ML 365 Seeds @ 5 Kg/ha +Millet micronutrient mixture @ 5 kg/ha
4.	Source of technology	:	TNAU 2013 and UAS, Bangalore, 2013
5.	Production system and thematic area	:	Irrigated and varietal evaluation
6.	Performance of the Technology with performance indicators	:	TO1: 21.69 q/ha TO2: 25.13 q/ha TO3: 23.27 q/ha
7.	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	:	CO 15 variety performed better by producing higher yield (25.13 q/ha) than ML 365 and local variety
8.	Final recommendation for micro level situation	:	CO15 performed better by producing higher yield (25.13q/ha) with low incidence of stem borer and blast and performed well in saline condition and also well suited for value addition.
9.	Constraints identified and feedback for research	:	-
10.	Process of farmers participation and their reaction	:	

OFT 3. Assessing the performance of Nutri seed pack for maize in Nagapattinam district

1.	Title of Technology Assessed	:	Assessing the performance of Nutri seed pack for maize in Nagapattinam district
2.	Problem Definition	:	<ul style="list-style-type: none"> • Indiscriminate use of fertilizers • Low yield of existing varieties • Low Fertilizer Use Efficiency
3.	Details of technologies selected for assessment	:	TO 1: Farmer's practice
			TO 2: Blanket recommendation 250:75:75 COMH6 Hybrid Seeds @ 20 kg/ha Urea @ 543 kg/ha Super @ 469 kg/ha MOP @ 125 kg/ha
			TO 3: Nutriseed pack @55000 Nos /ha
4.	Source of technology	:	TNAU 2012, TNAU
5.	Production system and thematic area	:	Irrigated and Integrated Nutrient Management
6.	Performance of the Technology with performance indicators	:	TO1: 42.13 q/ha TO2: 51.65 q/ha TO3: 67.83 q/ha
7.	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	:	Nutriseed pack for maize performed well in irrigated condition
8.	Final recommendation for micro level situation	:	Nutriseed pack for maize @ 55,000 nos/ha performed well in irrigated condition and gave more yield by saving the labour cost and fertilizer wastage.
9.	Constraints identified and feedback for research	:	-
10.	Process of farmers participation and their reaction	:	

OFT – 4. Assessment of drought tolerant groundnut varieties under rainfed condition

1.	Title of Technology Assessed	:	Assessment of drought tolerant groundnut varieties under rainfed condition
2.	Problem Definition	:	Low yield of existing ground nut variety under rainfed condition
3.	Details of technologies selected for assessment	:	TO 1: Farmer's practice TO 2 CO 6 Seeds (kernal) @120 Kg/ha TO 3: Kadiri-9-Seeds (kernal) @120 Kg/ha
4.	Source of technology	:	TNAU 2010, ANGRAU 2010
5.	Production system and thematic area	:	Irrigated and Varietal evaluation
6.	Performance of the Technology with performance indicators	:	TO1: 12.01 q/ha TO2: 16.05 q/ha TO3: 18.11 q/ha
7.	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	:	Farmers satisfied in the performance of Groundnut variety K 9 for its performance in giving higher yield .No. of pods (20-25 nos.)in each plant is more
8.	Final recommendation for micro level situation	:	Kadiri 9 performed well in rainfed condition and gave more yield. Even though farmers need tikka leaf spot and rust disease resistant variety to get more yield
9.	Constraints identified and feedback for research	:	-
10.	Process of farmers participation and their reaction	:	

4. D1. Results of Technologies Refined : Nil**4.D.2. Details of each On Farm Trial for refinement to be furnished in the following format separately as per the following details:-Nil**

PART V - FRONTLINE DEMONSTRATIONS

5.A. Summary of FLDs implemented during 2015-16

Sl. No	Category	Farming Situation	Season and Year	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
									Proposed	Actual	SC/ ST	Others	Total	
1	Cereals	Irrigated	Kharif	Paddy	TKM 13	-	Varietal introduction	Demonstration of newly released rice variety TKM 13	4	4	4	6	10	-
2	Cereals	Irrigated	Kharif	Paddy	TPS 5	-	Seed production/ Varietal introduction	Demonstration and farmers participatory seed production of TNAU rice TPS 5 in Kuruvai season	4	4	4	6	10	-
3	Cereals	Irrigated	Rabi	Paddy	BPT 5204	-	Integrated Nutrient Management	Demonstration of Decision Supporting System for Integrated Fertilizer Recommendation (DSSIFER) software for rice	4	4	3	7	10	-
4	Cereals	Irrigated	Rabi	Paddy	BPT 5204	-	IDM	Demonstration of management on false smut disease in Samba paddy	4	4	4	6	10	-
5	Cereals	Irrigated	Rabi	Paddy	BPT 5204, CR 1009	-	IPM	Demonstration on IPM strategies for Rice Brown Planthopper	4	4	4	6	10	-

6	Pulses	Rice Fallow	Rabi	Black gram	MDU 1	-	Varietal introduction	Demonstration of ICM in TNAU Black gram variety MDU 1	4	4	3	7	10	-
7	Fibre	Irrigated	Summer	Cotton	RCH	-	IPM	Demonstration on Eco friendly IPM modules for major sucking pest in cotton	4	4	3	7	10	
8	Vegetables	Irrigated	June-July	Brinjal	Local		ICM	Demonstration of IIHR Vegetable special with ICM in Brinjal	4	4	4	6	10	-
9	Plantations	Irrigated	Annual	Coconut	ECT	-	IPM	Production enhancement through nutrient and rhinoceros beetle management in coconut	20 trees/ demo	4 20 trees/demo	3	7	10	-
10	Fodder	Irrigated	Dec-Jan	Fodder	COFS31, Hedge Lucerne, Cumbu Napier grass CO5, <i>Sesbania grandiflora</i>	-	Fodder Production	Demonstration of Multi-crop fodder production model for Nagapattinam District	0.6	0.6	3	8	11	-
11	Fish culture	-	Oct-Nov	Fish	Pangasius	-	Fish culture	Demonstration of Pangasius fish culture under farmers participatory mode	0.05	0.05	1	4	5	-
12	Forestry	Irrigated	Jun-Jul	Malai vembu	MTP 1	-	Varietal introduction	Demonstration of newly released TNAU Malai vembu MTP 1 under farmers participatory mode in Nagapattinam district	250 Nos clones /demo	250 Nos clones/ demo	1	4	5	-

13	Forestry	Irrigated	Jun-Jul	Poplar	PL4	-	Varietal introduction	Demonstration of newly released Poplar variety PL-4 under farmers participatory mode in Nagapattinam district	250 clones /demo	250 clones/ demo	1	4	5	-
14	Oilseeds/Tree	Irrigated	Dec-Jan	Groundnut + Casuarina	Ground nut TMV-13	-	Intercropping	Demonstration of Groundnut intercropping in Casuarina	2	2	2	8	5	-
15	Vegetables	Irrigated	Jun-Jul	Mango	Local	-	Value addition	Entrepreneurship development through value addition in mango	-	-	3	7	10	-
16	Organic farming	Irrigated	August	Vegetables	Local	-	Organic nutritional garden	Establishment of organic nutritional garden in School	-	-	-	-	4	-

5.A. 1. Soil fertility status of FLDs plots during 2015-16

Sl. No.	Category	Farming Situation	Season and Year	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Status of soil			Previous crop grown
									N	P	K	
									L	M	M	
1	Cereals	Irrigated	Kharif	Paddy	TKM 13	-	Varietal introduction	Demonstration of newly released rice variety TKM 13	L	M	M	Paddy
2	Cereals	Irrigated	Kharif	Paddy	TPS 5	-	Seed production/ Varietal introduction	Demonstration and farmers participatory seed production of TNAU rice TPS 5 in Kuruvai season	L	M	M	Paddy
3	Cereals	Irrigated	Rabi	Paddy	BPT 5204	-	Integrated Nutrient Management	Demonstration of Decision Supporting System for Integrated Fertilizer Recommendation (DSSIFER) software for rice	L	H	M	Paddy
4	Cereals	Irrigated	Rabi	Paddy	BPT 5204	-	IDM	Demonstration of management on false smut disease in Samba paddy	L	M	M	Paddy
5	Cereals	Irrigated	Rabi	Paddy	BPT 5204, CR 1009	-	IPM	Demonstration on IPM strategies for Rice Brown Planthopper	L	M	H	Paddy

6	Pulses	Rice Fallow	Rabi	Black gram	MDU 1	-	Varietal introduction	Demonstration of ICM in TNAU Black gram variety MDU 1	L	M	M	Paddy
7	Fibre	Irrigated	Summer	Cotton	RCH	-	IPM	Demonstration on Eco friendly IPM modules for major sucking pest in cotton	L	M	M	Paddy
8	Vegetables	Irrigated	June-July	Brinjal	Local	-	ICM	Demonstration of IIHR Vegetable special with ICM in Brinjal	L	M	M	Vegetable
9	Plantations	Irrigated	Annual	Coconut	ECT	-	IPM	Production enhancement through nutrient and rhinoceros beetle management in coconut	L	M	M	Coconut
10	Fodder	Irrigated	Dec-Jan	Fodder	COFS31, Hedge Lucerne, CN grass CO5, <i>Sesbania grandiflora</i>	-	Fodder Production	Demonstration of Multi-crop fodder production model for Nagapattinam District	L	M	M	Fallow
11	Fish culture	-	Oct-Nov	Fish	Pangasius	-	Fish culture	Demonstration of Pangasius fish culture under farmers participatory mode	-	-	-	-
12	Forestry	Irrigated	Jun-Jul	Malai vembu	MTP 1	-	Varietal introduction	Demonstration of newly released TNAU Malai vembu MTP 1 under farmers participatory mode in Nagapattinam district	L	M	M	Fallow
13	Forestry	Irrigated	Jun-Jul	Poplar	PL4	-	Varietal introduction	Demonstration of newly released Poplar variety PL-4 under farmers participatory mode in Nagapattinam district	L	M	H	-
14	Oilseeds /Tree	Irrigated	Dec-Jan	Groundnut + Casuarina	Ground nut TMV-13	-	Intercropping	Demonstration of Groundnut intercropping in Casuarina	L	M	M	Groundnut
15	Vegetables	Irrigated	Jun-Jul	Mango	Local	-	Value addition	Entrepreneurship development through value addition in mango	L	M	M	Mango
16	Organic farming	Irrigated	August	Vegetables	Local	-	Organic nutritional garden	Establishment of organic nutritional garden in School	L	M	M	Fallow

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										
Paddy	Demonstration of newly released rice variety TKM 13	TKM 13	-	Irrigated	10	4	38	34	36	30.25	19	35000	60000	25000	1.69	30000	39625	9625	1.32
Paddy	Demonstration and farmers participatory seed production of TNAU rice TPS 5 in Kuruvai season	TPS 5	-	Irrigated	10	4	43.9.	40.5	42.2	34.0	23.7	34564	60194	25630	1.7	35467	48799	13331	1.38
Paddy	Demonstration of Decision Supporting System for Integrated Fertilizer Recommendation (DSSIFER) software for rice	BPT 5204	-	Irrigated	10	4	47.7	44.7	46.2	42.84	7.91	33950	67063	33113	1.98	34375	62137	27758	1.80
Paddy	Demonstration of management on false smut disease in Samba paddy	BPT 5204	-	Irrigated	10	4	43.36	41.5	42.4	36.75	15.44	39179	59508	20328	1.52	42895	51549	8655	1.20

Paddy	Demonstration on IPM strategies for Rice Brown Planthopper	BPT 5204, CR 1009	-	Irrigated	10	4	47.26	45.6	46.43	35.2	31.90	38476	66150	27674	1.72	42634	50161	7527	1.18
Blackgram	Demonstration of ICM in TNAU Black gram variety MDU 1	MDU 1	-	Rice Fallow	10	4	6.16	5.4	5.78	4.44	30.03	13029	33198	20169	2.55	11854	25687	138334	2.17
Brinjal	Demonstration of IIHR Vegetable special with ICM in Brinjal	Local	-	Irrigated	10	4	158.2	156.6	157.4	132.5	18.78	128264	317000	188736	2.47	108861	236292	127431	2.17
Coconut	Production enhancement through nutrient and rhinoceros beetle management in coconut	ECT	-	Irrigated	10	20 trees/demo	70	68	69	48	42.85	55250	105253	50003	1.90	44070	65736	21666	1.49
Groundnut + Casuarina	Demonstration of Groundnut intercropping in Casuarina	Ground nut TMV-13	-	Irrigated	5	2	26.16	23.2	24.68	18.91	30.51	54530	148080	93550	2.71	51960	113460	61500	2.18
Cotton	Demonstration on Eco friendly IPM modules for major sucking pest in cotton	RCH	-	Irrigated	10	4	Ongoing-Flowering stage												

Fodder	Demonstration of Multi-crop fodder production model for Nagapattinam District	COFS31, Hedge Lucerne, CN grass CO5, <i>Sesbania grandiflora</i>	-	Irrigated	11	CO5 CN Grass cuttings-750 Nos	Ongoing –All the fodder crops are in vegetative stage
Malai vembu	Demonstration of newly released TNAU Malai vembu MTP 1 under farmers participatory mode in Nagapattinam district	MTP 1	-	Irrigated	5	250 Nos clones /demo	On going- Sapling stage
Poplar	Demonstration of newly released Poplar variety PL-4 under farmers participatory mode in Nagapattinam district	PL 4	-	Irrigated	5	250 Nos clones/ demo	On going- Sapling stage

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

Demonstration and farmers participatory seed production of TNAU rice TPS 5 in Kuruvai season

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
No. of productive tillers/hill	16.2	11.5

Demonstration of newly released rice variety TKM 13

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
White ears (%)	0.9	2.7
Dead Heart (%)	3.7	5.0
Leaf folder incidence (%)	1.3	5.2

Demonstration of management on false smut disease in Samba paddy (Rabi)

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
No. of spicklets affected/sq.m (Nos)	0.38	2.55
% False smut disease reduction	84.75	0

Demonstration on IPM strategies for Rice Brown Planthopper

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
No. of planthoppers/10 hill (Nos)	1.48	8.59
% BPH damage reduction over control	83	0

Demonstration of Decision Supporting System for Integrated Fertilizer Recommendation (DSSIFER) software in rice

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
No. of panicles/m ²	354	345
No. of grains/panicle	135	126
EC (dS/m)	0.90	0.86
pH	7.92	7.32
Available Nitrogen (Kg/Ha)	162	156
Available Phosphorus (kg/Ha)	30	28
Available Potassium (Kg/Ha)	285	252
Organic Carbon (%)	0.28	0.26

Demonstration of ICM in TNAU Blackgram variety MDU 1

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
No. of plants / m ² (Nos)	33.00	28.50
No of pods/plant (Nos)	46.00	31.00
YMV Incidence (%)	8	20

Production enhancement through nutrient and rhinoceros beetle management in coconut

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
Button shedding (%)	22.00	51.00
Beetle Reduction (%)	64.00	34.00

Demonstration of Groundnut intercropping in Casuarina

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
No. of pods per plant (Nos)	25.40	19.00
100 seed weight (Gram)	47.00	38.55

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

5.B.3. Fisheries : -

Type of Breed	Name of the technology demonstrated	Breed	No. of Demo	Units/ Area (m ²)	Yield (gram)				% Increase	*Economics of demonstration Rs./unit) or (Rs./m ²)				*Economics of check Rs./unit) or (Rs./m ²)			
					Demo			Check if any		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					H	L	A										
Others-Pangasius	Demonstration of Pangasius fish culture under farmers participatory mode	-	5	0.05	951	945	948	613	54.69	23450	53015	29565	2.26	22650	47939	25289	2.12

Demonstration of Pangasius fish culture in farm pond

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
Growth rate (Gram)	657	366

5.B.4. Other enterprises

Enter prise	Name of the technology demonstrated	Variety/ species	No. of Demo	Units/ Area {m ² }	Products Yield				% Increase	*Economics of demonstration (Rs./unit) or (Rs./m ²)				*Economics of check (Rs./unit) or (Rs./m ²)			
					Demo			Check if any		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					H	L	A										
Others	Entrepreneurship development through value addition in mango	Local	10	-	52	48	50 kg/day	-	-	1980	4950	2970	2.5	-	-	-	-
Others	Establishment of organic nutritional garden in School	-	4		6400	6100	6250 Kg/ Ha/ year	-	-	98950	175500	76450	1.77	-	-	-	-

Entrepreneurship development through value addition in Mango

Data on other parameters in relation to technology demonstrated	
Parameter with unit	Demo
Consumer preference (Organoleptic score)	****
Shelf life (Days)	8

Establishment of organic nutritional garden in School

Data on other parameters in relation to technology demonstrated	
Parameter with unit	Demo
Nutritional Knowledge Test (%)	85
Health & Nutrition – Behavioural Modification	85

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

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

Sl.No.	Activity	No. of activities organized	Number of participants	Remarks
1	Field days	11	142	-
2	Farmers Training	19	545	-
3	Media coverage	1	-	-
4	Training for extension functionaries	2	90	-
5	Others (Please specify) demonstration	21	282	-

PART VI – DEMONSTRATIONS ON CROP HYBRIDS**Demonstration details on crop hybrids :Nil****Feed back of FLDs**

Sl.No	Title of FLD	Farmer feed back	Researcher feedback
1	Demonstration of newly released rice variety TKM 13	TKM 13 is fine grain type variety having good market value. Mostly preferred by the farmers	Low incidence of pest and disease
2	Demonstration and farmers participatory seed production of TNAU rice TPS 5 in Kuruvai season	TPS 5 gave more yield and non lodging	Readily accepted for seed production during Kharif season.TPS 5 variety performed better by producing higher yield (42.2 q/ ha) than ADT 43 in Kharif season. .
3	Demonstration of Decision Supporting System for Integrated Fertilizer Recommendation (DSSIFER) software for rice	Timely application of fertilizer is highly appreciated by the farmers	Fertilizer application through DSSIFER software is optimized. It also enhance the nutrient uptake and crop yield
4	Demonstration of management on false smut disease in Samba paddy	Yield and income is more.	The disease incidence was less. Reduced the number of pesticide application
5	Demonstration on IPM strategies for Rice Brown Planthopper	Awareness & knowledge about management of Rice BPH was gained	Indiscriminate application of pesticide was reduced
6	Demonstration of ICM in TNAU Black gram variety MDU 1	Application of pulse wonder reduce the flower drop and increase the yield	MDU 1 variety may be promoted in rice fallow system as well as irrigated condition in place of ADT-3

7	Demonstration of IIHR Vegetable special with ICM in Brinjal	By adopting this technology farmers earned 20 % more yield and increased income	Application of IIHR vegetable special enhanced the yield and occurrence of micro nutrient deficiency symptom in brinjal was less
8	Production enhancement through nutrient and rhinoceros beetle management in coconut	20 % button shedding in coconut was reduced by the root feeding of coconut tonic	Application of coconut tonic has the great impact on reducing the micro nutrient deficiency and resulted into less button shedding and quality nuts.
9	Demonstration of Pangasius fish culture under farmers participatory mode	Low mortality, more fish weight gain in shorter period of time in composite fish culture	Low mortality, more fish weight gain in shorter period of time in composite fish culture. Growth rate 500 g in 6 month. Market value is less – Rs 120 /kg
10	Demonstration of Groundnut intercropping in Casuarina	<ul style="list-style-type: none"> • The inter space is effectively utilized. • Additional income was gained • Tolerant to drought moderate 	It gives more number of pods/plant. Weed population is less in early stage 100 seed weight is higher than local variety. Highly suitable for sandy loam soil
11	Entrepreneurship development through value addition in mango	Income generation activity is high in value addition	Knowledge in preservation technology is improved
12	Establishment of organic nutritional garden in School	Vegetables and greens produced from organic garden is used for noon meal scheme in school	Nutritional knowledge of school students has improved

FFS- Integrated Crop Management in Cotton (2015-16)

The productivity of rice fallow cotton is hampered by poor agronomical practices and heavy incidence of pests and diseases in Nagapattinam district. The farmers usually go for indiscriminate use of pesticides to ward off the pests and diseases without knowing the ecosystem and cost of effectiveness. In order to advocate the use of Integrated Crop Management and eco-friendly form of crop protection, an FFS on 'ICM in cotton' was conducted at Sesamoolai village with 30 farmers who were really wanted to reduce cost of cultivation including the pesticides load and plant protection cost through interactive meeting.

A total of 14 classes were organized during the crop period and such as selection of good quality seeds, seed treatment, formation of ridges and furrows, seed rate and sowing, sowing of non Bt cotton and other trap crops in the border, application of biofertilizers, application of fertilizers, application of cotton plus, weed management, gap filling, thinning, water management, management of pest and disease and harvesting were taught to them in the form of field demonstrative and skill oriented classes. Finally a field day was organized on 27.05.15, in which the experiences and benefits of FFS were shared by the FFS farmers. A total 40 farmers of Sesamoolai village participated and got the information on usefulness of ICM in cotton cultivation.

Crop	Thematic area	Technology demonstrated	Season	No. of farmers		
				Male	Female	Total
Cotton	ICM	FFS on ICM in cotton	Summer irrigated	20	10	30

Details of farming situation

Crop	Season	Farming situation	Soil type	Status of soil			Previous crop	Sowing	Harvesting
				N	P	K			
Cotton	Summer	Irrigated	Clay loam	L	M	H	Rice	Jan-Feb	May-June

Performance of FFS

Technology demonstrated	Variety	Demo yield (Q/Ha)			Check yield (Q/Ha)	% Increase
		L	H	A		
<ul style="list-style-type: none"> • Selection of good quality seed • Seed treatment with bio inputs (Azospirillum 600g/ha and Phosphobacteria 600g/ha or Azophos 1200 g/ha) • Formation of ridges and furrows • Sowing of border crops like greengram, blackgram, castor, sorghum and soyabean • Application of recommended fertilizers (80:40:40) • Application of cotton plus (2.5kg/acre) • ETL based pesticides 	Angur 3034	5.5	6.5	6.0	4.5	33.33

Impact of Cotton ICM

Technological impact

The 30 farmers were thoroughly studied with their technological know-how and field level adoption.

Technology	Awareness		Adoption	
	No.	%	No.	%
Selection of good quality seed	30	100	30	100
Seed treatment with bio inputs	30	100	30	100
Formation of ridges and furrows	30	100	25	83
Sowing of border crops	30	100	26	87
Application of recommended fertilizers	30	100	25	83
Application of cotton plus	30	100	27	90
ETL based pesticides	30	100	28	93
Average	30	100	27	91

It could be observed from the table that the knowledge on ICM in cotton was 100 per cent through the FFS programme and average of 91 per cent of farmers have adopted ICM technologies. The low adoption in formation of ridges and furrows and application of recommended fertilizers was due to adoption of rice fallow cotton and strong mindset of applying more amount of fertilizers give more yield. Almost by seeing practical knowledge there will not be no gap between the knowledge and adoption of technologies in next season.

Economic Impact

Average cost of cultivation (Rs/ha)		Average gross return (Rs/ha)		Average net return (Rs/ha)		Benefit Cost ratio	
Demo	Check	Demo	Check	Demo	Check	Demo	Check
30000	32500	75000	57500	45000	25000	1:2.5	1:1.76

Extension and training activities

S. No.	Activity	No. of activities	Remarks
1.	Farmers training	13	Farmers are quite responsive to appropriate technologies which give due weightage to their traditional wisdom, local and socio economic conditions
2.	Demonstrations	4	
3.	Field day	1	
4.	Publications	1	

Technical feedback on the demonstrated technologies

Farmers reaction

- Seed treatment with fungicides protect the crop from important diseases and enhance the yield
- Adopting wider spacing with recommended fertilizer application reduces the damage of sucking pests
- Spraying of cotton plus prevent early shedding of buds and squares and increase yield
- Sowing of flower crops and non-Bt cotton in border reduce the pest attack and increase the natural enemies population

PART VII. TRAINING

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production										
Integrated Crop Management	4	254	144	398	55	34	89	309	178	487
Integrated Nutrient Management	-	-	-	-	-	-	-	-	-	-
Production of organic inputs	-	-	-	-	-	-	-	-	-	-
Others- Samba paddy cultivation techniques	-	-	-	-	-	-	-	-	-	-
Horticulture	-	-	-	-	-	-	-	-	-	-
a) Vegetable Crops	-	-	-	-	-	-	-	-	-	-
Protective cultivation	1	25	5	28	10	3	13	35	8	43
Awareness programme on Integrated Pest and Disease management in vegetables	-	-	-	-	-	-	-	-	-	-
Soil Health and Fertility Management	-	-	-	-	-	-	-	-	-	-
Soil fertility management	6	169	76	245	73	25	98	242	101	343
Home Science/Women empowerment	3	175	41	216	53	2	55	228	43	271
Value addition	-	-	-	-	-	-	-	-	-	-
Plant Protection	-	-	-	-	-	-	-	-	-	-
Integrated Pest Management	-	-	-	-	-	-	-	-	-	-
Integrated Disease Management	-	-	-	-	-	-	-	-	-	-
Production of Inputs at site	4	172	112	284	81	47	128	253	159	412
Agro-forestry	1	32	0	32	10	0	10	42	0	42
TOTAL	19	827	378	1203	282	111	393	1109	489	1598

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										
Integrated Crop Management	10	234	38	272	57	16	73	291	54	345
Integrated farming										
Production of organic inputs	1	17	0	17	4	0	4	21	0	21
a) Vegetable Crops	-	-	-	-	-	-	-	-	-	-
Protective cultivation	-	-	-	-	-	-	-	-	-	-
Hybrid vegetable cultivation techniques	-	-	-	-	-	-	-	-	-	-
Production of low value & high volume crop	2	25	40	65	10	25	35	35	65	100
Cultivation of fruits and vegetables	-	-	-	-	-	-	-	-	-	-
Home Science	-	-	-	-	-	-	-	-	-	-
Value Addition	6	254	80	334	68	32	100	322	112	434
Soil Health and Fertility Management	-	-	-	-	-	-	-	-	-	-
Integrated nutrient management	-	-	-	-	-	-	-	-	-	-
Plant Protection	-	-	-	-	-	-	-	-	-	-
Integrated Pest Management	8	196	121	317	148	47	195	344	168	512
Integrated Disease Management	8	196	121	317	148	47	195	344	168	512
Others - Bio-Control of pests and diseases	-	-	-	-	-	-	-	-	-	-
Production of Inputs at site	-	-	-	-	-	-	-	-	-	-
Livestock Production and Management	-	-	-	-	-	-	-	-	-	-
Animal Nutrition Management	-	-	-	-	-	-	-	-	-	-
TOTAL	35	922	400	1322	435	167	602	1357	567	1924

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

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	Value addition in mango	1	20	1	21	7	2	9	27	3	30
2	Vermi compost production technology	1	-	67	67	-	20	20	-	87	87
	Total	2	20	68	89	7	22	29	27	90	117

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

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	Value addition in mango	2	36	20	56	2	18	20	38	38	76
	Total	2	36	20	56	2	18	20	38	38	76

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	12	-	-	-	-	-	-	312	168	480
Integrated Pest and Disease Management	3	-	-	-	-	-	-	78	42	120
Protective cultivation	-	-	-	-	-	-	-	-	-	-
Total	15							390	210	492

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Integrated Pest Management	1	-	-	-	-	-	-	26	14	40
Integrated Nutrient management	1	-	-	-	-	-	-	26	14	40
Any other (pl.specify)										
Integrates disease Management	1	-	-	-	-	-	-	26	14	40
Total	3	-	-	-	-	-	-	78	42	120

7. G. Sponsored training programmes conducted

Sl.No	Area of training	No. of Course	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
1	Sustainable Sugarcane Initiative	2	24	11	35	-	-	-	24	11	35
2	Sustainable Sugarcane Initiative	1	25	-	25	-	-	-	25	-	25
3	value addition in pulses	1	30	18	48	12	20	32	42	38	60
4	value addition in pulses	1	35	-	35	-	-	-	35	-	35
5	value addition in pulses	1	35	-	35	5	-	5	40	-	40
6	Parasitoids and predators in pest management in rice ecosystem	1	37	2	39	20	2	22	57	4	75
7	Parasitoids and predators in rice ecosystem	1	64	5	69	36	9	45	100	14	114
8	Parasitoids and predators in pest management in rice ecosystem	1	31	4	35	19	6	25	50	10	60
9	Role bio inputs for Disease management in rice	1	47	4	51	26	3	29	73	7	174
10	ICM in Pulses	1	32	8	40	11	4	15	43	12	55
11	Integrated Crop Management in Pulses	1	19	6	25	7	3	10	22	9	31

12	Hygienic handling of harvested fish	1	35	15	50	12	7	19	47	22	86
13	IPDM in Gingelly on 22.03.2016	1	17	8	25	6	3	9	23	11	34
	Total	14	431	81	512	154	57	211	581	138	719

Details of sponsoring agencies involved

- State Dept. of Agriculture
- .NADP
- NGOs
- MSSRF.

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	Value addition in mango	3	56	21	77	9	20	29	65	41	106
2	Vermi compost production technology	1	-	67	67	-	20	20	-	87	87
	Total	4	56	88	144	9	40	49	65	128	193

PART VIII – EXTENSION ACTIVITIES**Extension Programmes (including extension activities undertaken in FLD programmes)**

Sl. No	Activities	No. of Programmes	No. of participants		No. of SC/ ST		No. of Extension personnel	
			Male	Female	Male	Female	Male	Female
1	Scientific visit to farmers field	196	851	122	257	63	58	11
2	Field day	11	86	18	20	8	6	-
3	Kisan Mela	7	1315	648	329	398	8	2
4	Exhibitions	9	1375	634	345	388	112	14
5	Film show/video shows	26	460	284	313	235	68	14
6	Campaign	4	590	90	147	92	148	22
7	Seminar	15	590	57	120	42	30	14
8	Zonal workshop	10	584	216	399	62	198	29
9	Farmer advisory service	802	552	68	184	34	120	14
10	Demonstrations	39	1170	356	288	137	132	14
11	Exposure visits	5	100	-	7		1	-
12	Radio talk/broad cast	15	Mass coverage					
13	TV coverage/telecast	6	Mass coverage					
14	News paper coverage	62	Mass coverage					
15	Extension literature published	26	-					

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	Value (Rs)	Number of farmers to whom provided
Cereals (crop wise)	Paddy	CR1009 <i>Sub-1</i>	-	1425 kg	34200	62
	Paddy	ADT 46	-	1480 kg	38480	74
Fodder crop seeds	C:N grass	CO3	-	1902 Slips	951	47
Others (specify)	Azolla		-	102 kg	510	12
	Seminar Hall Rent		-	4 days	5500	-
	Hostel room rent	SSI farmer		4 days	5500	110
	Paddy illfilled grain			750 kg	2900	3
	Paddy straw			675 kg	1350	2
	Black gram mixed grain			2	40	2
	Green gram mixed grain			9	180	4
	Gingelly grain			200 kg	8000	6
	Paddy CR1009 grain			7880 kg	111268	
	Paddy ADT 46 grain			7000 kg	106400	
	Prosofis auction cost				12500	
	Pseudomonas			543 kg	54300	123
	Coconut seedlings			108 No	4320	8
	Protray			35 No	875	7
	Fish			14 kg	1400	5
	SSI Book			55 No	2200	55
	Vermicompost			4927 kg	29562	63
	Earthworms			4 kg	1400	4
	Cocopeat			116 kg	696	4
	Boom sprayer Hire charges			12 days	2400	3
	Mobile sprinkler Hire charges			1 day	200	1
	Coconut tonic			524 pocket	6245	65
	Coconut produce auction				2000	
	Casuraina bundle			6 bundle	60	6
	Casuraina seedlings			100	400	2
	Teak seedlings			30	150	1
	Bottle gourd			2	20	1
	Plantain			900	1350	120
	Banana flower bud			5	25	5

	Vegetable seed pocket			43	2150	43
	Drumstick			4 kg	60	10
	Tender coconut			6	90	3
	Greens			8 bundle	50	8
	Vegetables			1.25 kg	23.75	3
Total					437755.75	862

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
Seedlings	Coconut seedlings	ECT	-	108	4320	8
Fodder crop saplings	C:N grass	CO3	-	1902 slips	951	47
Tree Seedlings	Casuraina seedlings	<i>C.equisetifolia</i>	-	100	400	2
	Teak seedlings		-	30	150	1
Others(specify)	Vermicompost		-	4927 kg	29562	63
	Earth worms	<i>E.foetida</i>	-	3.5 kg	1400	4
Total					36783	125

9.C.Production of Bio-Products

Bio Products	Name of the bio-product	Quantity (Kg)	Value (Rs.)	Number of farmers to whom provided
Bio-fungicide	<i>Pseudomonas</i> (Talc)	543 kg	54300	123
Bio Agents	Cocopeat	116 kg	696	4
Others (specify)	Azolla	102	510	12
	Vermicompost	4927 kg	29562	63
	Earth worms (<i>E. foetida</i>)	3.5 kg	1400	4
Total			86468	206

9.D. Production of livestock materials :Nil

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

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

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

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

(B) Literature developed/published

Item	Title	Author Name	Number	Additional Information
Research articles				
1	Popularization of Marigold cultivation in Nagapattinam District	A.Anuratha and K.Malathi	1	Published in Thottakalaiyiyal book: P.No.98 - April 2015
Books				
1	Sustainable Sugarcane Initiative	R.Ravi, A.Anuratha, J. Thilagam, J. Selvi, M. Alagar, M. Tamilselvan and P. Kamaraj.	1	Published during sugarcane training . July 2015
2	Agricultural technology book for rice cultivation	A. Anuratha, M. Tamil Selvan, P .Kamaraj J. Thilagam R. Ravi , M. Alagar, J. Selvi ,V. Gnanabharathi and R. Vedharethinam	500	Published during Pre Kharif awareness programme on 08.08.2015
3	Rabi Paruvathirkana Velan Thozhilnutpa Malar	A.Anuratha, R.Ravi, J.Thilagam, J,Selvi, M.Alagar, M.Tamilselvan, P.Kamaraj,V.Gnanabharathi, and R. Vedharathinam (2016)	500	Released by Honourable Fisheries Minister during Pre Rabi Awareness programme on 09.01.2016
Booklets				
1	Preparation of value added products from Mango	J. Selvi , A. Anuratha, J. Thilagam and R. Ravi	200	Distributed to the trainees, June 2015
2	King of trees-Teak cultivation techniques	R.Ravi, J.Thilagam, A.Anuratha and J. Selvi	100	Distributed to the trainees, June 2015
3	Sustainable Sugarcane Initiative	R.Ravi, and A.Anuratha	200	Distributed to the trainees, July 2015

Popular Article				
1	Ber- Fruit for poors	J.Selvi, J. Thilagam, R. Ravi and R. Rajendran	1	Thozhilnutpa thottakkalai - April 2015. Vol-16(9) pg.No: 20- 21.
2	Mobile sprinkler for coastal and rainfed areas	A.Anuratha, J. Selvi and R. Rajendran	100	Thozhilnutpa thottakkalai-April 2015. Vol-16(9) pg.No: 12- 13.
3	Valuable Vegetables	A.Anuratha and V.Krishnan	1	Plant Hort Tech. Vol 14 No.5, April-May 2015, P.No 25
4	Excellence of Amla	J.Selvi, J. Thilagam, R. Ravi and M. Alagar.	1	Malarum Velanmai. June 2015. Vol (14) No.7. Pg.No: 72-73
5	Counting of yield potential in Casuarina	R.Ravi, C. Buvaneshwaran, S.Saravanan and R.S.C. Jeyaraj.	1	Malarum Velanmai, Pg.No: 34-37.
6	Post harvest techniques and value addition in Ginger	J.Selvi, A.Anuratha,J. Thilagam, R. Ravi and M. Alagar	1	Thozhil Nutpa thottakalai. July 2015. Vol (16) No.12. Pg.No: 8-10
7	Importance of fenugreek	J.Selvi, J. Thilagam, A.Anuratha and R. Ravi	1	MSSRF-Namma oor seithi. July 2015. Vol (20) No.3;Pg.No. 30-31
8	Sucking pests in cotton	M. Alagar, A. Anuratha,J. Selvi, J. Thilagam and R. Ravi	1	Namma oor seithi. July 2015. Vol (3) No.20
9	Red Sandal- Assets for all tree crops	R. Ravi , A. Anuratha, J. Selvi and J. Thilagam	1	Malarum Velanmai. July 2015. Vol (14) No.5. Pg.No: 25-28
10	IPM for Cotton	M. Alagar, A. Anuratha, J. Selvi and J. Thilagam	1	Malarum Velanmai.July 2015 Vol (14) No.8. Pg.No: 35-41
11	INM for Direct sown rice in Samba season	A.Anuratha, J.Selvi,J Thilagam and R.Ravi	1	Malarum Velanmai. August 2015 - Vol-15;Page No 62-63
12	BPH management for Samba and Thaladi crops	M.Alagar,A.Anuratha, R.Ravi, J.Thilagam, M.Tamilselvan J.Selvi, and P.Kamaraj.	1	Malarum Velanmai-August 2015. Vol-15 Page No: 64-65
13	Value added products from mango	J.Selvi, J. Thilagam, A. Anuratha and R. Ravi	1	Malarum Velanmai- August 2015 Pg.No. 27-30
14	Integrated Nutrient management for kuruvai rice.	A.Anuratha, J. Selvi, J. Thilagam, R. Ravi and M.Alagar	1	Malarum Velanmai- August 2015 Pg.No-23-24.
15	Organic farming for sustainable agriculture	A.Anuratha, J. Selvi, J. Thilagam, R. Ravi and M.Alagar.	1	Malarum Velanmai- August 2015 Pg.No: 35-37
16	Balanced fertilizer application for groundnut	A.Anuratha, J. Selvi, M. Tamil selvan and P. Kamaraj	1	Tholil Nutpa Thottakalai- August 2015. Pg.No:29-30.
17	Post harvest management in off season mangoes	J.Selvi, J. Thilagam and R. Ravi	1	Plant Hort Tech. August 2015. Pg.No: 22-30-

18	Importance and uses of spirulina	J.Selvi , J. Thilagam, A. Anuratha and R. Ravi	1	Navena Velanmai- October 2015. Pg.No; 6-7.
19	Health benefits of solanum nigrum (Manathakkali keera).	J.Selvi, J. Thilagam, A. Anuratha and R. Ravi	1	MSSRF “ Namma ooru seithi- October 2015Pg.No:24.
20	Tree species suitable for clay soil	R.Ravi, A. Anuratha, J. Selvi and J. Thilagam	1	MSSRF “Namma ooru seithi- October 2015. Pg.No:25.
21	Cassia fistula (Golden Shower tree)	J.Selvi, J. Thilagam.	1	Plant Hort Tech- October 2015. Pg.No: 30.
22	Farm Machineries in rice production	P.Kamaraj & A.Anuratha	1	MSSRF - Namma ooru seithi- October 2015
23	Preservation technology and value addition in mushroom	J.Selvi, A. Anuratha, J. Thilagam, R. Ravi and M. Alagar	1	Malarum Velanmai-Pg.No: 47-50; November 2015
24	Integrated crop management for direct zone rice	A.Anuratha, J. Selvi, M. Tamilselvan, P. Kamaraj and M. Alagar	1	Malarum Velanmai- November 2015. Pg.No: 47-50.
25	Preventive methods of pest and disease in rice	M.Alagar, J. Thilagam, M. Tamilselvan, R. Ravi, J.Selvi, P. Kamaraj and A. Anuratha.	1	Malarum Velanmai- November 2015.Pg.No: 12-15.
26	TANUVAS grand supplement for increasing the milk yield of mulching animal	J.Thilagam, J. Selvi, R.Ravi, M. Alagar and A.Anuratha	1	Uzhavarin Valarum Velanmai- November 2015. Pg.No: 32-34.
27	Usage of farm machineries in sugarcane cultivation	P.Kamaraj & A.Anuratha	1	Malarum Velanmai- November 2015. Pg.No:51-53.
28	Amla cultivation - An overview	P.Hemalatha and R. Ravi	1	Malarum Velanmai- December 2015. Pg.No: 6-10.
29	Integrated Nutrient Management for semi dry rice	A.Anuratha, J. Selvi, J. Thilagam and R.Ravi	1	Malarum Velanmai- January 2016. Vol: 15 (2) -Pg.No: 62 – 63.
30	Integrated brown plant hopper management in samba/thaladi rice	M.Alagar, A. Anuratha, R. Ravi, M. Tamilselvan, P. Kamaraj, J. Selvi and J. Thilagam	1	Malarum Velanmai- January 2016. Vol: 15 (2) -Pg.No: 64-65.
31	Integrated crop management in rice.	M.Alagar, A. Anuratha, M. Tamilselvan, J. Selvi J.Thilagam and R. Ravi	1	Malarum Velanmai- January 2016. Vol: 15 (2) -Pg.No: 70-74.
32	A Potential Spice Crop for the Tropics	M.Tamil Selvan,M.Alagar and A. Anuratha.	1	Tamil Nadu Journal of Co-operation (English monthly)- February 2016 . Vol-16 (4)- Pg.No: 41-47.

33	Cultivation of Noni – A potential medicinal plant	M.Tamil Selvan, M.Alagar, A.Anuratha and J.Selvi	1	Tamil Nadu Journal of Co-operation (English monthly)- February 2016 . Vol-88 (11)- Pg.No: 56-59.
34	Medicinal uses of amla	J.Selvi, J. Thilagam and R. Ravi	1	Malarum Velanmai- February 2016. Pg.No: 54-55.

Pamphlets

1	Integrated pest and disease management in cotton	M.Alagar	1	April 2015
2	Integrated pest management in Cotton	M.Alagar	1	May 2015
3	Importance and uses of spirulina.	J.Selvi, A. Anuratha, J. Thilagam and R. Ravi	1	June 2015
4	Value addition in rice and pulses.	J.Selvi, A. Anuratha, J. Thilagam and R. Ravi	1	August 2015

Folders

1	Integrated crop management in Cotton	M.Alagar	1	May 2015
2	Value added products in mango	J.Selvi, A. Anuratha, J. Thilagam and R. Ravi	1	June 2015
3	Nutritional importance and value addition in millets.	J.Selvi, A. Anuratha, J. Thilagam and R. Ravi	1	August 2015

Seminar papers

1	Flaking of selected whole millets and developing value added product	A. Anuratha and J.Selvi	1	Page No 43-44 of IICPT -National Seminar – October 2015
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Poster papers

1	Storage stability of mixed fruit squash (guava, banana and mango) in different storage condition	J.Selvi, P. Banumathi, S. Kanchana and A. Anuratha	1	Page No 61 of IICPT - National Seminar – October 2015
2	Nutritional and health benefits of brown rice – A review	J.Selvi, J. Thilagam, A. Anuratha and R. Ravi	1	Page No 68 of IICPT - National Seminar – October 2015

Leaflet

Leaflet	Value addition in rice.	PC, KVK,Nagapattinam	500	January-2016
Leaflet	Nutrient management through Foliar application	PC, KVK, Nagapattinam	500	January-2016
Leaflet	Paddy cultivation in rainfed condition	PC, KVK, Nagapattinam	500	January-2016
Leaflet	Weed management in Paddy cultivation	PC, KVK, Nagapattinam	500	January-2016

Leaflet	Drought mitigation technologies in samba, thaladi rice crops in Nagapattinam district.	PC, KVK, Nagapattinam	500	January-2016
Leaflet	Integrated crop management technologies in Groundnut	PC, KVK, Nagapattinam & ATMA, Dept.of Agriculture, Nagapattinam	500	January-2016
Leaflet	Integrated crop management technologies in Blackgram	PC, KVK, Nagapattinam & ATMA, Dept.of Agriculture, Nagapattinam	500	January-2016
Leaflet	Cultivation techniques in Rice fallow cotton	PC, KVK, Nagapattinam & ATMA, Dept.of Agriculture, Nagapattinam	500	January-2016
Leaflet	Crop management technologies for flood affected paddy field.	PC, KVK, Nagapattinam & ATMA, Dept.of Agriculture, Nagapattinam	500	January-2016
Leaflet	Value addition in Coconut	PC, KVK, Nagapattinam & ATMA, Dept.of Agriculture, Nagapattinam	500	January-2016
Leaflet	Integrated crop management technologies in Coconut	PC, KVK, Nagapattinam & ATMA, Dept.of Agriculture, Nagapattinam	500	January-2016

10.B. Details of Electronic Media Produced :Nil

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

1. MUSHROOM MAKES A PROFITABLE ENTREPRENEUR

1. Background

Mr. M. Ashok Kumar is a 27 years old youth residing at Vadakku poigainallur, Nagapattinam. His qualification is ITI in Diesel Mechanic. He is interested in farming and involved in farming activities for the past seven years. He owned 0.5 acre of land and 2.5 acre of land was leased out 23 years before by his father. His father followed traditional method of cultivation mainly produced Vegetables and Groundnut. He marketed the produce in the local market Paravai as whole sale. He paid Rs. 3000/- as lease amount to the owner. He earned profit to run the family smoothly without any savings. Two farm ponds are available for the irrigation purpose.

Mr. Ashok Kumar took charge the farming activity 7 years before because of his father's death. He wants to upgrade farming activities in his land. So he discussed with KVK, Sikkal for new ideas. With the idea from KVK, Sikkal, he planted mango seedlings (40 nos.) which are in flowering stage at the time of our visit (February 2016). He is also cultivating greens, vegetables (Brinjal, Tomato and Chillies) and groundnut in 2.5 acres of land as rotational basis.

2. Intervention Process

He approached KVK, Sikkal for getting guidance to start mushroom unit. KVK, Sikkal arranged exposure visit and training to him in the year 2014.

3. Intervention Technology

He started mushroom unit for the production of oyster mushroom in 2014 by the advice of KVK, Sikkal. He constructed 60 m x 12 m size shed which can have the space of 1200 beds in it. He spent nearly Rs. 35,000/- for starting this enterprise. He produced 8-10 kg of oyster mushroom per day which is marketed locally to the panipoori shop and hotels. He is selling Rs.40/250 grams of mushroom.

4. Impact Horizontal Spread

Nagapattinam farmers who are interested to start mushroom unit can visit his unit and get practical exposure. Nearly 10 farmers visited his unit this year.

5. Impact Economic Gains

He earned Rs. 1,72,800/- from the mushroom unit within one year. He earned what he spent as fixed cost for the production of mushroom within a year. It is the time for slight change in his enterprise because preference for oyster mushroom is coming down and customers demanding button mushroom. He gradually reduced the production of oyster mushroom and going to attend training in KVK, Sikkal and TNAU for cultivation of button mushroom.

6. Impact on Employment Generation

He generated regular employment for 2 persons.

2. ECO FRIENDLY MANAGEMENT OF PEST IN RICE

1. Background

Mr. G. Karthikeyan S/O Gurusamy is a 49 years old Farmer residing at Sikkal, Nagapattinam. He is a carpenter. But basically he is interested in farming. He owned 7.0 acre of land. He had 25 years farm experience.

For the last 25 years he was used pesticides for the management of pests and diseases in rice. He used to spray four to five rounds of spray. He was not aware for any ecofriendly pest management methods. Because of repeated spray his cost of cultivation was more and income was low. So he was planned to switch over his farming activity to ecofriendly methods of pest management. Then he approached KVK, Sikkal.

2. Intervention Process

He approached KVK, Sikkal for new ecofriendly technology for rice pests and disease management. KVK established one OFT plot on Assess the performance of Ecological Engineering IPM (EEIPM) module in samba Paddy during 2015-16.

3. Intervention Technology

- Release of egg parasitoid *Trichogramma japonicum* for the management of stem borer @ 2 cc (40,000 No.) / trial at 30 and 37 days after planning
- Release of egg parasitoid *Trichogramma chilonis* for the management of leaf folder @ 2 cc (40,000 No.) / trial at 37, 44 and 51 days after planting
- Setting up of Pheromone traps for Stem borer @ 5/trial was proved to be effective.
- For disease management-*Pseudomonas fluorescens* as seed treatment, soil application and foliar spray.

4. Impact Horizontal Spread

Farmers are interested to adopt this technique. By following this technology the number of pesticide spray was reduced drastically. Because the pest infestation was very low. It was 1.67 per cent of pest infestation was observed compared to 7.54 in farmers practices adopted trial. The natural enemies population was more than pest. Lot of predators and parasitoids population like, spiders, dragon fly, damsel fly, ground beetles, *Cyrtorhinus Lividipennis* etc. was more.

5. Impact Economic Gains

It is evident that an amount of Rs 19460/Ha could be obtained in addition through adoption of eco friendly management during Samba season.

He got an yield of 45.15 Q/Ha compared to only 31.25 Q/Ha in farmers practices adopted trial. Besides the yield was also 44% high over than the farmers practice. The net return was Rs. 24335/Ha as compared to Rs.4875/Ha in farmers practice adopted trial.

The benefit cost ratio was 1.6 in the recommended practices adopted plot compared to 1.1 in farmers practices adopted filed.

Not only rice eco friendly management given high yield and net return but also encouraged the natural enemies population and conserved the eco system

6. Impact on Employment Generation- Nil

3.PROGRESSIVE FARMER IN VEGETABLE CULTIVATION

1. Background

Mr.R.Rajendran S/o Th.Ravuthar is a 55 years old farmer residing at Vairavankadu village, Thirupoondi East, Keelaiyur block of Nagapattinam district. His qualification is SSLC. He is involved in the farming activity for the past 35 years. Earlier, his father adopted the traditional method of cultivating vegetables. He marketed the produce in the local market and earned a handsome profit to run the family without any savings. He owned around 2.5 acres of land for the cultivation. One small pond is available for irrigation purpose.

Mr.Rajendran involved in the farming activity for last 10 years. He wants to uplift the farming activities in his own land of 2.5 acres. He discussed with the scientists from KVK, Sikkal regarding the new technologies for cultivating vegetables and other crops regularly. Based on the idea received from KVK, Sikkal he started to cultivating the vegetables like brinjal, chillies, tomato, cluster beans, snake gourd, bitter gourd etc., and other crops like Ground nut and pulses.

2. Intervention Process

He approached the KVK, Sikkal for getting guidance for the intensive cultivation of vegetables. Moreover, he attended the useful training related to modern techniques for cultivating the vegetables like Pro-tray nursery, irrigation through Rain-gun and Drip irrigation Systems. He is involved in the demonstration of IIHR vegetable special in the field.

3. Intervention Technology

He started to cultivating the vegetables with new technologies since 2010 with the advice received from the KVK, Sikkal. He raised the seedlings like brinjal, chillies and tomato through pro-tray nursery. He transplanted the pro-tray nursery seedlings in his field. In the main field, he installed a drip irrigation unit for the transplanted vegetable crops. He adopted the following recent technologies in the vegetable cultivation:

- Use of high yielding varieties/hybrids,
- Seed treatment with *Trichoderma viride* (4 g/kg) and *Pseudomonas* (10 g/kg of seed)
- Drenching the seedlings with *Pseudomonas fluorescens* @ 10 g per litre of water
- Foliar spray of *Pseudomonas fluorescens* @ 2 ml/litre of water
- Spraying of IIHR vegetable special @ 0.5% (7.5kg/ha – three times spray at 20 days interval – starting at flowering stage)
- Application of Neem Seed Kernel Extract (NSKE) @ 0.5% or Imidacloprid @ 0.5ml/litre of water based on the need to control sucking pests
- Keeping of pheromone traps (12 Nos./ha) and Yellow sticky traps (12 Nos./ha) to control the insects in his field which are eco-friendly in nature.

4. Impact on Horizontal spread

Since, he is a progressive farmer in keelaiyur block of Nagapattinam district; Nagapattinam farmers can make a visit to his farm by the adoption of latest technologies for cultivating the vegetables. So far, nearly 20 farmers from nearby areas visited his field and gained knowledge from him.

5. Impact on Economic Gains

He earned Rs.2,41,250/- as a net return from one hectare of land by cultivating a brinjal in 6 months period by investing Rs.1,51,250/- during the year 2015. By adopting the above technology he earned 25% more yield than conventional method

Sl. No.	Particulars	Conventional method	IIHR Vegetable spray and precision farming
1.	Yield (q/ha)	156.25	196.25
2.	Cost of cultivation (Rs./ha)	109375	151250
3.	Average fruit weight (g)	90	120
4.	Number of fruits /plant	40	55
5.	Average market price (Rs./kg)	16	20
6.	Gross Return (Rs./ha)	250000	392500
7.	Net Return (Rs./ha)	140625	241250
8.	BC Ratio	1:2.29	1:2.60

Additionally, he purchased around 5.0 acres of agricultural land in the recent years by getting the income only from vegetable cultivation. At present, he is established the Pro-tray nursery unit, Rain-gun unit, Drip irrigation unit, Motor with pump set and other spraying accessories which are very much essential for the intensive cultivation of vegetables. Moreover, he is having one acre of mango orchard with preferred varieties like Rumani, Alphonso, Neelam, Bangalora and Imam Pasand.

6. Impact on Employment Generation

He generated regular employment for 3 persons. He also generated employment for minimum 10 persons during season at least for 30 days.

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

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

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

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

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

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

10.G. Field activities

- Number of villages adopted : 1
- No. of farm families selected : 25
- No. of survey/PRA conducted : 3

10.H. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab : Completed

Year of establishment : 2011

List of equipments purchased with amount :

Sl. No	Name of the Equipment	Qty.	Cost
1.	Digital Visible Spectrophotometer	1	39,104
2.	Digital pH meter "Elico" Make	1	5,970
3.	All Glass Single Distillation unit	1	36,400
4.	Khan Shaker "Labline"	1	20,800
5.	Hot air oven	1	17,680
6.	Hot plate	1	7,956
7.	Willey mill	1	32,760
8.	Water Bath	1	7,249
9.	UP based Flame Photometer "Elico" Make	1	45,240
10.	Digital conductivity meter "Elico" Make	1	11,326
11.	Electronic Top loading balance "Cyberlab"	1	6,760
12.	Electronic Top loading balance "Shimadzu"	1	20,592
13.	Water and Soil analysis kit	1	19,750
14.	Digestion system (Kelplus)	1	1,12,216
15.	Distillation system (Kelplus)	1	1,82,936
16.	Instrument table	5	78,000
17.	Rack,Almirah, Angle Iron rack	-	70,000
18.	Soil and Plant storage cabin	-	1,00,000

19.	Wash basin, sink and exhaust fan		70,000
20.	Servo relay stabilizer – 2 Kva	1	7,500
21.	Micropipette	2	3,600
22.	Buchner funnel with flask	1	2,000
23.	Titration unit	2	10,000
24.	Vacuum pump	1	5,000
25.	HCL Computer with printer	1	37,600
Total			9,50,439

Details of samples analyzed so far since establishment of SWTL:

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)
Soil Samples	426	171	147	10650
Water Samples	281	263	154	2810
Total	707	434	301	13460

Details of samples analyzed during the 2015-16 :

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)
Soil Samples	295	295	46	7000.00
Water Samples	18	18	18	180.00
Total	313	313	64	7180.00

10.I. Technology Week celebration during 2015-16 - No

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

Flood Assessment and measures taken

Contingency Situation	:	Flood
No. of Taluk/Block affect	:	11
Extent of Area (ha)	:	5646
Major Crops affected (Nos)	:	<ul style="list-style-type: none"> • Rice: 5500 Ha (in all 11 blocks) • Banana: 146 Ha (in 6 blocks-Kollidam Sembanarkoil Mayiladuthurai Kuthalam Sirkali Nagapattinam)
Major Livestock affected (Nos)	:	<ul style="list-style-type: none"> • Poultry: 5990 Nos • Milch animals: 324 Nos (in 8 blocks- Nagapattinam, Kilvelur, Thirukuvalai, Vedaranyam Tharangambadi Mayiladuthurai, Sirkali Kuthalam)

Measures Taken

- Nearly 300 numbers of farmers advisory services were rendered on integrated Pest and Disease management and Integrated Nutrient Management for rice and vegetable crops through diagnostic field visit, training, phone and visiting farmers to KVK.
- A leaflet on Management technology for flood affected rice crop was sent through e- mail to JDA, DD and all ADAs of Nagapattinam district.
- Field visit on farm advisory service for pest and disease management of agricultural and horticultural crops were rendered among the farmers on 16.11.2015, 19.11.2015, 25.11.2015, 26.11.2015, 04.12.2015 at Keelaiyur, Sembanarkoil, Mayiladuthurai, Kilvelur and Nagapattinam Blocks respectively.

- ICM Technology for the management of flood affected rice crop was delivered and leaflets were distributed to the Agricultural Extension Officials in the monthly zonal meeting held at KVK, Sikkal on 18.11.2015.
- ICM Technology for the management of flood affected rice crop was delivered and leaflets were distributed to the farmers in the Farmers Grievances day meeting held at Collectorate, Nagapattinam Dt on 27.11.2015.
- Technologies on IPM and INM for rice was sent through the all daily news papers, All India Radio, Karaikal and Reliance Foundation for voice message on 16.11.2015 for wide publicity among the farmers.
- Live TV programme was given about Integrated Crop Management for rice in local channel Kamban TV on 23.11.2015.
- The flood management measures was published in the daily news papers. (Dinakaran dt.12.11.2015 and 18.11.2015;Dinamalar-01.12.2015)

11.. Introduction of alternate crops/varieties - Nil

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

C. Farmers-scientists interaction on livestock management: Nil

D. Animal health camps organized :Nil

E. Seed distribution in drought hit states: Nil

F. Large scale adoption of resource conservation technologies : Nil

G. Awareness campaign : Nil

PART XI. IMPACT

11.A. Impact of KVK activities

Establishment of Organic Nutritional garden

Village Name	Taluk Name	Skill Transfer	Adoption (%)	Impact Before	Impact After	Measures Taken
Kilvelur	Kilvelur	<ul style="list-style-type: none"> • Seed kit • Protray nursery • Application of organic inputs • Application of bio pesticides to control the pest and disease 	85	Not aware of organic nutritional garden establishment in school (Aruimigu Anjuvatta thamman High School)	The students take care of established nutritional organic garden and very eager to know the details. The vegetables and greens produced from this garden is used for noon meals scheme in school	The students are now practicing the same method in their home. The staffs are interested and now enquiring about roof top garden to utilize the space

11.B. Cases of large scale adoption :Nil

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

PART XII - LINKAGES

12.A. Functional linkage with different organizations

Name of organization	Nature of linkage
State dept. of Agriculture	<ul style="list-style-type: none"> • Jointly organized training, extension programmes • Giving technical support and infrastructural support during monthly zonal workshop. • Jointly organized field diagnostic survey for pest and disease management • Pre Kharif and Rabi training programme • Flood / Drought assessment • Yield performance assessment • Organizing Agricultural Exhibition and seminar at block and District level Soil Health day
Dept. of Horticulture	<ul style="list-style-type: none"> • Jointly organized training programmes • Offering need based technical guidance to the extension functionaries. • Field diagnostic visit • Flood / Drought assessment • Yield performance assessment • Third party Inspection on Drip irrigation unit at farmers field
NABARD	Organizing Farm Science Club and exposure visits.
Local NGOs like MSSRF, SWEET, NAMCO, WORLD VISION, DHANYA, CCD, CARE and CIKS	Organizing on/off campus training Programmes and exposure visits, offering need based technical guidance
ZPD, CRIDA, TANUVAS, IICPT, DEE, SCMS, CPPS, CPBG, TRRI-Aduthurai, SWMRI-Thanjavur, KVK-Thiruvarur, KVK-Trichy, KVK-Karaikal	Technical consultancy and exchange of SMS during training programmes.
1.AIR (Karaikal, Trichy,), 2.Kamban TV under CSR(Reliance Foundation)	<ul style="list-style-type: none"> • Offering radio programmes on latest crop production technologies and periodical announcements of technologies on critical crop stage. • Offering Live TV programme on latest crop production technologies
District Collectorate.	Farmers grievance day meeting, Organizing need based training programme and promoting agricultural entrepreneurship, Pre Kharif and Pre Rabi Programmes Preparation of District Agricultural Plan

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

12.C. Details of linkage with ATMA

a) Is ATMA implemented in your district- Yes

Role of KVK in preparation of SREP of the district:

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

Coordination activities between KVK and ATMA during 2015-16

S. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK	Other remarks
01	Meetings	-	8	-	-
02	Training programmes				
1)	Capacity building training on Agricultural and allied activities for ATMA farmers members and block technology managers at block level was given		10	3	-
2)	Integrated Crop Management in Cotton at Keelvelur on 22.04.2015		1	-	-
3)	Integrated Crop Management in Cotton at Aalathur Thirumarugal block on 23.04.2015		1	-	-
4)	Post harvest management and value addition of pulses was delivered to farmers at Vedharanyam on 22.07.2015		1	-	-
5)	Post harvest management and value addition of pulses was delivered to farmers at Panangadi on 23.07.2015		1	-	-
6)	Rat eradication programme at Nagapattinam on 14.08.2015		1	-	-
7)	Post harvest management and value addition of pulses was delivered to farmers at Sirkali on 18.08.2015		1	-	-
8)	Post harvest management and value addition of pulses was delivered to farmers at Mayiladuthurai on 19.08.2015		1	-	-
9)	Post harvest management and value addition of pulses was delivered to farmers at Kuthalam on 20.08.2015		1	-	-
10)	Rodent management training and to conduct farmers training on IPMD in Samba Thaladi rice at Mayiladuthurai, Kali and Sembanarkovil on 04.09.2015		1	-	-

11)	Rodent management training at Vedaranniyam and Thalainayaru on 21.09.2015	1	-	-
12)	Rodent management training and visit to drought affected fields at Kilvelur, Thalainayaru on 22.09.2015	1	-	-
13)	Rodent management training at Kollidam on 28.09.2015	1	-	-
14)	Rodent management training at Mayiladuthurai on 29.09.2015	1	-	-
15)	Seed village scheme on rice training and FLD field visit at Mayiladuthurai on 25.11.2015	1	-	-
16)	Seed village scheme training at Kilvelur on 26.11.2015-IPDM for rice	1	-	-
17)	IPMD training at Mayiladuthurai on 22.01.2016	1	-	-
18)	Farm Waste Management training on 18.02.2016 at KVK to Nagai block farmers	1	-	-
19)	IPDM training at Kilvelur on 26.02.2016	1	-	-
20)	ICM,IPDM,INM, Soil Health Management, Organic farming	-	7	-

03	Extension Programmes	Field diagnostic visits, interaction meeting and exposure visit were made	12	24	970 farmers were benefitted and 120 extension personal were benefitted
04	Exhibition	<ul style="list-style-type: none"> • Pre Kharif Awareness programme, • District level seminar, exhibition and training programme, • Soil Health Day and • Pre Rabi awareness programme 	-	4	1020 farmers were attended and benefitted
06	Extension Literature	INM, IPDM technologies for rice, Pulses and ICM in cotton	12	-	-

Functional linkage with different organizations 2015-16

Linkage Agency	Funds Received (Rs)	Expenditure (Rs)	Area covered	Farmers Benefited (Nos)	Remarks
District Administration	0	0	0	2065	Farmers Grievance Day meeting at Collectorate during every month
Department of Agriculture	0	0	0	420	Monthly Zonal Meeting during every month
AIR, Karaikkal	0	0	0	0	Forest Resources and suitable Tree crops for Nagapattinam District on 11.05.2015
AIR, Karaikkal	0	0	0	0	ICM in Rice on 23.05.2015
AIR, Karaikkal	0	0	0	0	IPM in Cotton on 25.05.2015

AIR, Karaikkal	0	0	0	0	Entrepreneurial Opportunities in Agriculture for rural youth on 08.06.2015
AIR, Karaikkal	0	0	0	0	New technologies in Casuraina and Teak plantation and Live programme IPDM in rice on 15.06.2015
NGO-Centre for Convention Development	0	0	0	35	Significance of biopesticides on pest management at Paravai on 22.06.2015
NHM Department of Horticulture	0	0	0	21	Third party Inspection on Drip irrigation unit at farmers field on 02.07.2015 at Vizhundamavadi & Thirupoondi
NGO-BEDROCK	0	0	0	35	ICM in groundnut at Tharangampadi on 07.07.2015
NHM - Department of Horticulture	0	0	0	16	Third party Inspection on Drip irrigation unit at farmers field at Kollidam & Sirkazhi block villages on 16.07.2015
Department of Agriculture, Karaikal	0	0	0	50	Improved cultivation practices in vegetable crops at Athipadugai on 23.07.2015
RKVY	41800	41800	0	55	Two trainings conducted on Sustainable Sugarcane Initiatives technologies to sugarcane farmers during.21.7.2015 - 22.7.2015 and 31.7.15 - 01.8.2015
Line Departments	80000	80000	0	360	Pre Kharif Awareness programme on 08.08.2015 at KVK
VANGHAI-NGO ,Sangamangalam	0	0	0	62	Uzhavar Mugam -Scientist and Farmers Interaction meet on 10.08.2015
Department of Horticulture, Nagapattinam	0	0	0	50	Farmers field School at Kollidam on 13.08.2015
Department of Agrl Marketing, Nagapattinam	0	0	0	80	Post harvest technology and value addition in pulses on 13.08.2015
Kamban TV	0	0	0	0	Soil Heath Management - Kamban TV Mayiladuthurai on 25.08.2015
ADM Women College, Nagapattinam	0	0	0	87	Demonstration on Azolla production unit and medicinal plant garden was demonstrated to ADM Women College, Nagapattinam on 28.8.2015
Veterinary University	0	0	0	55	Soil Health Management training programme on 28.08.2015
Reliance Foundation	0	0	0	32	Soil Testing Awareness programme on 01.09.2015 at Thirusangankadu
NHM- Department of Horticulture	0	0	0	19	Third party Inspection on Drip irrigation unit at farmers field Vizhundamavadi & at Thirupoondi East on 04.09.2015

NHM - Department of Horticulture	0	0	0	19	Third party Inspection on Drip irrigation unit at farmers field at Vizhundamavadi & Thirupoondi East on 04.09.2015
NGO-Avvai Village Welfare Society	0	0	0	45	Training on Organic Farming at Serunallur village on 29.09.2015
NHM - Department of Horticulture	0	0	0	8	Third party Inspection on Drip irrigation unit at farmers field at Kivelur on 06.10.2015
AIR, Karaikkal	0	0	0	0	Vegetable cultivation under Roof Top Gardening on 12.10.2015
AIR, Karaikkal	0	0	0	0	INM for rice in Samba season on 19.10.2015
AIR, Karaikkal	0	0	0	0	Live radio programme at Karaikal on 02.11.2015 –ICM rice
Line Departments	0	0	0	50	District level Exhibition and Workshop on Agricultural Technologies at KVK on 02.11.2015
NGO-CCD	0	0	0	30	Training on improved cultivation techniques in horticultural crops at Therkupoigainallur on 17.11.2015
Kamban TV	0	0	0	0	Integrated Pests and Diseases Management in Samba/Thaladi rice at Kamban TV, Mayiladuthurai on 23.11.2015
RELIANCE Foundation	0	0	0	0	Live TV programme in Kamban TV at Mayiladuthurai on 23.11.2015- ICM for rice
NGO-CCD	0	0	0	21	Off campus training on Coir pith composting technology at Kovilpathu on 24.11.2015
Department of Agriculture	0	0	0	112	Different composting techniques for enhance the soil health on 05.12.2015 at Soil health day programme
AIR, Karaikkal	0	0	0	0	Roof Top Gardening on 15.12.2015
RKVY/NADP	41250	41250	0	260	District Agricultural Plan preparation meeting on 17.12.2015, 21.12.2015
Line Departments	0	0	0	83	JAI KISAN JAI VIGYAN DIWAS PROGRAMME on 28.12.2015 at Akkarapettai- MP adopted village
NFSM -ICAR- KVK	330000	330000	44	73	Cluster Front Line Demonstration Programme on Pulses (Green gram CO 8 and Black gram VBN 6) at 6 Cluster villages. December 2015
Line Departments	80000	80000	0	334	Pre Rabi Awareness Programme was conducted on 09.01.2016 at KVK
AIR, Karaikkal	0	0	0	0	Roof Top Gardening on 19.01.2016
Reliance foundation	0	0	0	0	ICM in pulses on 20.01.2016
Reliance foundation	0	0	0	0	Kamban TV-ICM in pulses at Mayiladuthurai on 22.01.2016
Dept of Agriculture	0	0	0	45	IPDM training at Nagapattinam on 29.01.2016

Department of Horticulture, Nagapattinam	0	0	0	50	Training on improved cultivation techniques in horticultural crops on 04.02.2016 at Nagapattinam
Line Departments	0	0	0	40	Vermicompost production technology on 24.02.2016 to farmers of Kilvelur block
RKVY -TNAU	41250	41250	0	260	District Agricultural Plan preparation meeting and presentation on 11.03.2016
NGO- SWEET, Nagapattinam	0	0	0	20	Mobilization of farmers for Exposure visit to Farm Machinery Demonstration Mela held at TNAU on 18.03.2016

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

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

12.F. Details of linkage with RKVY

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks
1	Sustainable Sugarcane Initiative (SSI) technologies- Training programmes	Farmers training	103775	103775	135 nos. of sugarcane farmers were benefitted

12.G. Kisan Mobile Advisory Services

Month	No. of SMS sent	No. of farmers to which SMS was sent	No. of feedback / query on SMS sent
April	9	815	1
May	10	887	2
June	9	1478	1
July	10	1227	3
August	4	1687	1
September	6	1687	1
October	5	1625	1
November	10	2160	1
December	-	-	-
January 2016	10	512	2
February 2016	8	620	1
March 2016	7	820	1
Total	88	13518	15

PART XIII- PERFORMANCE OF INFRASTRUCTURE IN KVK

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

Sl. No.	Demo Unit	Year of Establishment	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Produce	Qty.	Cost of inputs	Gross income	
1	Vermicompost Production through Silpaulin Vermi Bag and cement tank	2013	-	African Earthworm	Vermi compost	4927 kgs.	2500	29562	Sold to the farmers
					Earth worm	3.5 kgs.	--	1400	
2	<i>Pseudomonas</i>	2013	-	<i>Pseudomonas florescence 1</i>	-	543 kg	5430	54300	Sold to the farmers
3	Coconut seedlings	2011	-	East Coast Tall	Coconut seedling	108 No	3080	4320	Sold to the farmers
4	<i>Azolla</i> Production Unit	2011	1 cent	<i>Azolla microphilla</i>	<i>Azolla</i> as seed material	102 kg	-	510	67 kg of <i>azolla</i> were sold and 35 kg were used in kvk farm

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	03.09.15	19.02.16	9.95 ac	CR 1009 Sub-1	Seed (TFL)	6550	38308	1,10,000	Under processing
Paddy	10.10.15	09.03.16	4.94 ac	ADT 46	Seed (TFL)	4850	19019	88,000	
Paddy	18.10.15	01.03.16	0.39 ac	TKM 13	Seed (TFL)	500	1502	9,000	
Nutriseed pack maize (demo)	12.01.16	-	-	-	-	-	-	-	Under maturity stage
Ragi (demo)	03.02.16	-	--	-	-	-	-	-	Under flowering stage

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

Sl. No.	Name of the Product	Qty	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	
1.	Vermicompost	4927 kg	2500	29562	Sold to the farmers
2.	Azolla	102 kg	-	510	67 kg of azolla were sold and 35 kg of azolla were used in kvk farm
3.	<i>Pseudomonas</i>	543 kg	5430	54300	Sold to the farmers

13.D. Performance of instructional farm (livestock and fisheries production) :Nil**13.E. Utilization of hostel facilities**

Accommodation available (No. of beds): 20 beds

Month	No.of trainees stayed	Trainee days	Reason for shortfall
April-July	0	0	The bathrooms are damaged and unfit for use
August	25	2	NA
September	25	2	SSI Trainees
October	10	30	Ten Students from AD&RC, Trichy for RAWE programme
November 2015-March 2016	-	-	NA

13.F. Database management

S. No	Database target	Database created
1	Farmers database	3256
2	KVK, Nagapattinam, District Inventory	Under progress

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

PART XIV - FINANCIAL PERFORMANCE

14.A. Details of KVK Bank accounts

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

14.B. Utilization of KVK funds during the year 2015-16 (Rs)

S.No.	Particulars	Budget Estimation	Revised Estimation	Budget Utilization (Rs)
A. Recurring Contingencies				
1	Pay & Allowances	8345000	9967000	9528931
2	Traveling allowances	100000	100000	99952
3. Contingencies				
a	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance	75000	85000	84989
b	POL, repair of vehicles, tractor and equipments	100000	110000	110000
c	Meals/refreshment for trainees	50000	53000	52997
d	Training material	40000	42000	41985
e	Front line demonstration	276000	276000	275865
f	On farm testing	57000	57000	53667
g	Integrated Farming System (IFS)	0	0	0
h	Training of extension functionaries	0	0	0
i	Maintenance of buildings	0	0	0
j	Extension Activities	50000	75000	74968
k	Farmers Field School	0	0	0
l	Library	5000	5000	5000
B. Non-Recurring Contingencies				
1	Works			
2	Equipments including SWTL & Furniture			
3	Vehicle (Four wheeler/Two wheeler, please specify)			
4	Library (Purchase of assets like books & journals)			
5	e-Extension	300000	300000	300000
GRAND TOTAL		9443000	11070000	1099423

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

Year	Opening balance as on 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st April of each year
April 2013 to March 2014	2.41	3.82	1.37	4.86
April 2014 to March 2015	4.86	3.94	6.43	2.37
April 2015 to March 2016	2.53	5.81	4.92	3.42

15. Details of HRD activities attended by KVK staff during 2015-16

Name of the staff	Designation	Title of the training programme	Institute where attended	Date
Dr. J. Thilagam	SMS (Ag. Extension)	Self Management Through Personal Profiling	TNAU, Coimbatore	11.05.2015-13.05.2015
Dr. A. Anuratha	Programme Coordinator	Annual review workshop-2014-15	UA&HS, Shimoga, Karnataka	20.05.2015-23.05.2015
Dr. R. Ravi	SMS (Forestry)	Social media for Effective sharing of Agricultural knowledge	TNAU, Coimbatore	08.06.2015-11.06.2015
Dr. R. Ravi	SMS (Forestry)	Syllabus review meeting and teaching seminar	FC & RI, MTP	13.07.2015
Dr. A. Anuratha	Programme Coordinator	National Conference on KVK	Patna	23.07.2015-28.07.2015
Dr. J. Thilagam	SMS (Ag. Extension)	Administrative training to the Assistant Professors	TNAU Coimbatore	24.08.2015-26.08.2015
Dr. J. Selvi	SMS(Home Science)	Administrative training to the Assistant Professors	TNAU, Coimbatore	24.08.2015-26.08.2015
Dr. M. Alagar	SMS (Ag.Entomology)	Administrative training to the Assistant Professors	TNAU, Coimbatore	24.08.2015-26.08.2015
Dr. R. Ravi	SMS (Forestry)	Administrative training to the Assistant Professors	TNAU, Coimbatore	24.08.2015-26.08.2015
Dr. A. Anuratha	Programme Coordinator	Training on Self management through personal profiling	MANAGE, Hyderabad	07.09.2015-12.09.2015
Dr.M.Tamilselvan	SMS(Horticulture)	Orientation Training Programme to newly joined KVK PCs/SMSs	TNAU,Coimbatore	14.09.2015-16.09.2015

Dr. J. Thilagam	SMS (Ag. Extension)	Orientation Training Programme to newly joined KVK PCs/SMSs	TNAU, Coimbatore	14.09.2015-16.09.2015
Dr.P.Kamaraj	SMS (Ag.Engineering)	Orientation Training Programme to newly joined KVK PCs/SMSs	TNAU, Coimbatore	14.09.2015-16.09.2015
Dr. R. Ravi	SMS (Forestry)	Orientation Training Programme to newly joined KVK PCs/SMSs	TNAU, Coimbatore	14.09.2015-16.09.2015
Dr. J. Selvi	SMS(Home Science)	Orientation Training Programme to newly joined KVK PCs/SMSs	TNAU, Coimbatore	14.09.2015-16.09.2015
Dr. M. Alagar	SMS (Ag. Entomology)	Orientation Training Programme to newly joined KVK PCs/SMSs	TNAU, Coimbatore	14.09.2015-16.09.2015
Dr.M.Tamilselvan	SMS(Horticulture)	Training programme on Agro forestry models□	IFGBT, Coimbatore	14.10.2015-16.10.2015
R. Vedharethinam	Farm Manager	Training programme on agro forestry models□	IFGBT, Coimbatore	14.10.2015-16.10.2015
Dr. J. Thilagam	SMS (Ag. Extension)	National seminar on Whole grain for Healthy life□	Indian Institute of Crop Processing Technology, Thanjavur	16.10.2015
Dr. J. Selvi	SMS(Home Science)	National seminar on Whole grain for Healthy life□	Indian Institute of Crop Processing Technology, Thanjavur	16.10.2015
Dr. M. Alagar	SMS (Ag. Entomology)	Agro Forestry Models- Establishment and Management	Institute of Forest Genetics and Tree Breeding, Coimbatore	17.11.2015-20.11.2015
Dr. J. Thilagam	SMS (Ag. Extension)	Training on Biogas Technology□	TNAU, Coimbatore	07.12.2015-10.12.2015
Dr. R. Ravi	SMS (Forestry)	Agro forestry Policy workshop	FC & RI, Mettupalayam	10.12.2015-12.12.2015
Dr. M. Alagar	SMS (Ag. Entomology)	Seminar on Stem Anatomy of rice in relation to BPH resistance	Ooty	10.12.2015-11.12.2015

Dr. R. Ravi	SMS (Forestry)	First KVK Symposium Zone-VIII under the theme of Technology Delivery Mechanisms of KVKs for Higher Productivity and Profitability in Agriculture	UAS, Dharwad	20.01.2016-23.01.2016
Dr. A. Anuratha	Programme Coordinator	Workshop-cum-training on rabi pulses under NFSM	KVK, Madurai	28.01.2016-29.01.2016
Dr.M.Tamilselvan	SMS (Horticulture)	Awareness programme on Mesta and Sunnhemp as on alternative viable fibre crop in Cauvery Delta Zone	TRRI, Aduthurai	28.01.2016
Dr. R. Ravi	SMS (Forestry)	Awareness programme on Mesta and Sunnhemp as on alternative viable fibre crop in Cauvery Delta Zone	TRRI, Aduthurai	28.01.2016
Dr.M.Tamilselvan	SMS(Horticulture)	Training on Coconut Production Technologies	CPCRI, Kasaragod	04.02.2016
Dr.P.Kamaraj	SMS (Ag.Engineering)	IAMWARM Brainstorming meeting at KVK	KVK, Needamangalam	19.02.2016
Dr. J. Thilagam	SMS (Ag. Extension)	IAMWARM Brainstorming meeting at KVK	KVK, Needamangalam	19.02.2016
Dr. A. Anuratha	Programme Coordinator	Pre Annual Action Plan Meeting for 2016-17	TNAU, Coimbatore	01.03.2016-04.03.2016
Dr.M.Tamilselvan	SMS(Horticulture)	Pre Annual Action Plan Meeting for 2016-17	TNAU, Coimbatore	01.03.2016-04.03.2016
Dr.P.Kamaraj	SMS (Ag.Engineering)	Pre Annual Action Plan Meeting for 2016-17	TNAU, Coimbatore	01.03.2016-04.03.2016
Dr. J. Thilagam	SMS (Ag. Extension)	Pre Annual Action Plan Meeting for 2016-17 for 2016-17	TNAU, Coimbatore	01.03.2016-04.03.2016

Dr. R. Ravi	SMS (Forestry)	Pre Annual Action Plan Meeting for 2016-17	TNAU, Coimbatore	01.03.2016-04.03.2016
Dr. M. Alagar	SMS (Ag. Entomology)	Pre Annual Action Plan Meeting for 2016-17	TNAU, Coimbatore	01.03.2016-04.03.2016
Dr. J. Selvi	SMS(Home Science)	Pre Annual Action Plan Meeting for 2016-17	TNAU, Coimbatore	01.03.2016-04.03.2016
V. Gnanabharathi	Programme Assistant (Lab Technician)	Refresher training on Communication techniques and Soil testing methods	TNAU,Coimbatore	09.03.2016-10.03.2016
Er. R. Sakunthala	Programme Assistant (Computer)	Refresher training on Communication techniques and Soil testing methods	TNAU, Coimbatore	09.03.2016-10.03.2016
Dr. A. Anuratha	Programme Coordinator	District Agriculture Plan Presentation meeting	Collectorate, Nagapattinam	11.03.2016
Dr.M.Tamilselvan	SMS(Horticulture)	District Agriculture Plan Presentation meeting	Collectorate, Nagapattinam	11.03.2016
Dr.P.Kamaraj	SMS (Ag.Engineering)	District Agriculture Plan Presentation meeting	Collectorate, Nagapattinam	11.03.2016
Dr. J. Thilagam	SMS (Ag. Extension)	District Agriculture Plan Presentation meeting	Collectorate, Nagapattinam	11.03.2016
Dr. R. Ravi	SMS (Forestry)	District Agriculture Plan Presentation meeting	Collectorate, Nagapattinam	11.03.2016
Dr. M. Alagar	SMS (Ag. Entomology)	District Agriculture Plan Presentation meeting	Collectorate, Nagapattinam	11.03.2016
Dr. A. Anuratha	Programme Coordinator	Annual Action Plan Meeting	TNAU, Coimbatore	14.03.2016-18.03.2016
Dr. J. Thilagam	SMS (Ag. Extension)	Annual Action Plan Meeting	TNAU, Coimbatore	14.03.2016-18.03.2016
Dr. M. Alagar	SMS (Ag. Entomology)	Annual Action Plan Meeting	TNAU, Coimbatore	14.03.2016-18.03.2016
Dr.P.Kamaraj	Subject Matter Specialist	Machinery Demo Mela	TNAU, Coimbatore	18.03.2016

Mr.V. Gnanabharathi	Programme Assistant (Lab Technician)	Machinery Demo Mela	TNAU, Coimbatore	18.03.2016
Dr. A. Anuratha	Programme Coordinator	Pulses Action Plan Meeting	TRRI, Aduthurai	19.03.2016
Mr. R. Vedharethinam	Farm Manager	Refresher training on Farm Management	TNAU, Coimbatore	23.03.2016-24.03.2016

16. Any other important and relevant information which has not been reflected above :

1. PRE KHARIF AWARENESS PROGRAMME

A District level Pre Kharif Awareness Programme was conducted at Krishi Vigyan Kendra, Sikkal on 08.08.2015 (Saturday). The aim of the programme is to expose the farmers on latest technology in Kharif season crops viz.. Rice, sugarcane, pulses, oil seeds, coconut, cashew, vegetable crops, Animal Husbandries, Fisheries and Value added Products etc., During the programme 10 exhibition stalls were arranged and exhibited the new varieties, technologies, value added products and private companies (inputs, machineries etc.,) products for the benefits of the stake holders. Honourable Tamilnadu Fisheries Minister Thiru. K. A. Jeyapaul delivered chief guest address in which he insisted farmers of Nagapattinam district to avail the services of KVK which will help them to increase their production.

The Nagapattinam District collector Thiru. S. Palanisamy I.A.S delivered his address in which he highlighted the activities of KVK and asked the farmers to utilize KVK for their growth. The Director of Tamil Nadu Rice Research Institute Dr. V. Ravi delivered special address in which he congratulated the KVK staff for arranging this mega mela for the benefit of Nagapattinam farmers. Thiru K. Mayilvaganan, Joint Director of Agriculture appreciated the effort of KVK in his special address. Apart from this Animal Husbandry Joint Director Thiru K. Nagarajan, Horticulture Deputy Director Thiru M. Chandrakasan, Fisheries Assistant Director Thiru M. Sivakumar and NABARD District Development Officer Thiru D. Ganesan participated in this programme. 360 farmers were attended and benefitted through this programme. This programme initiated through welcome address by the Programme Coordinator Dr. A. Anuratha and vote of thanks was delivered by Assistant Professor (Agricultural Extension) Dr. J. Thilagam. Programme was validated at 5.00 pm with National Anthem. During the technical session KVK scientists imparted lectures among the farmers on ICM in rice, IPM and INM in rice, importance of horticulture crops, Farm mechanization and value addition in various crops. Interaction meeting with Farmers and Scientist was conducted. Demonstration on Rice transplanter, Boom Sprayers, Mini mobile sprinkler and tractor drawn seed drill was conducted among the farmers.

- i) Exhibition (exhibited different technologies related to agriculture and allied subjects in coordination with line departments in 12 stalls)
- ii) Demonstration (demonstrated paddy transplanter, mobile sprinkler and boom sprayer)
- iii) Sale of agricultural inputs like vegetable seeds, coconut tonic, pseudomonas and vermicompost
- iv) Technical sessions (Agronomical practices in rice cultivation, Nutrient management in rice cultivation, mechanization in rice cultivation, Integrated Plant Protection, Post harvest technologies and value addition, Integrated farming system related to Nagapattinam district and Horticultural technologies related to Nagapattinam district)

2. DISTRICT LEVEL WORKSHOP ON AGRICULTURAL TECHNOLOGIES

Krishi Vigyan Kendra, Sikkal, RAWE students from Anbil Dharmalingam Agricultural College and Research Institute, Trichy and Reliance Foundation, Nagapattinam jointly organized District level Exhibition and Workshop on Agricultural Technologies on 02.11.2015 at KVK, Sikkal. Nagapattinam district Superintendent of Police Dr. Abinevkumar I.P.S. inaugurated the exhibition and delivered his chief guest address. Nagapattinam district Joint Director of Agriculture Thiru J. Sekar delivered his special address. Before that Programme Coordinator of KVK, Sikkal Dr. A. Anuratha welcomed the guest and farmers for this occasion. Reliance Foundation Programme Manager Thiru P. Mugilnilavan explained the services rendered by reliance in agriculture. During the technical session KVK scientists imparted lectures among the farmers on ICM in rice, IPDM in rice, Roof top garden, Farm machineries in Agriculture, Cultivation of agriculture based forest trees and Entrepreneurship development. The students of ADAC&RI, Trichy demonstrated different technologies related to rice cultivation. Nearly 50 farmers participated and benefitted through this programme.

3. WORLD SOIL DAY PROGRAMME

The World Soil Day Programme was organized by ICAR-KVK, Nagapattinam on 05.12.2015 in lieu of International Year of Soil 2015. In this programme, awareness on soil health management was created to the farmers, extension officials and SHG members of this district at ICAR, Krishi Vigyan Kendra, Sikkal, Nagapattinam. The Programme Coordinator, welcomed the gatherings and briefly explained about the World Soil Day programme and highlighted the importance of soil health in agriculture. The programme was chaired by Th.J.Sekar, Joint Director of Agriculture, Nagapattinam and delivered the special address on enlighten the importance of soil for sustainable and profitable Agriculture. Also he inaugurated the exhibition containing various soil health management techniques and displayed live specimen, charts on Green manures, Green leaf manures, Bio-fertilizers and Organic inputs.

Mobile Soil Testing Laboratory from Department of Agriculture, Nagapattinam demonstrated the soil testing parameters viz., pH and EC.

In this programme Th.K.Vijayakumar, Deputy Director (GOI), Department of Agriculture, Nagapattinam, Th.Shanmugam, Deputy Director, Department of Agriculture, Nagapattinam, A.Justin, Assistant Director of Agriculture (QC), Nagapattinam, Th.M.D.Kirubakaran, Assistant Director of Agriculture, Kivelur, Th.M.Udhayakumar, Assistant Director of Agriculture, Nagapattinam, Th.N.Chandrakasan, Assistant Director of Agriculture, Thalainayar were participated and delivered key notes regarding soil health management.

Th.J.Sekar, Joint Director of Agriculture, Nagapattinam and the Programme Coordinator were distributed the Soil Health Card to 75 farmers of this district.

After the inaugural session, the scientists of this Kendra in various disciplines were given lectures to the gatherings regarding Importance of soil testing and soil sampling, Role of green manures and green leaf manures to improve soil health, Vermicompost production technologies, Role of bio fertilizers in soil health management and other aspects of soil health management.

Totally 112 farmers in Nagapattinam district were participated and benefitted through this programme.

4.JAI KISAN JAI VIGYAN DIWAS PROGRAMME

The JAI KISAN JAI VIGYAN DIWAS programme was organized by KVK on 28.12.2015 at Member of Parliament adapted village Akkaraipettai. People representatives Th.G.Manoharan, Panchayat President, Akkaraipettai, Th.G.Thiruvallarchelvan, Vice Chairman, Nagapattinam, Line Department officials Th.K.Vijayakumar, Deputy Director (GOI), Department of Agriculture, Nagapattinam, Th.G.Rajesh, Assistant Professor, Tamil Nadu Fisheries University, Nagapattinam were participated in this programme. The purpose of celebration of Jai Kisan Jai Vigyan Diwas was explained by the Programme Co ordinator in the Special address. Deputy Director (GOI), explained the available schemes in Department of Agriculture. Guest lecture on fish preservation technologies was presented by Th.G.Rajesh, Assistant Professor, Tamil Nadu Fisheries University .Technical session on establishment and importance of Roof top garden and Lecture on value added products from fish were delivered by the KVK Scientists. In addition, Awareness campaign on Nutraceutical drink as a preventive measure for flood relief was also conducted. As part of the programme, Method of Nutraceutical drink preparation was also demonstrated and provided to the participants. Totally 83 Number of participants including 8 officials from Public and Private Sectors were participated.

5.PRE RABI AWARENESS PROGRAMME

A District level Pre Rabi Awareness Programme was conducted at Krishi Vigyan Kendra, Sikkal on 09.01.2016(Saturday). The aim of the programme is to expose the farmers on latest technology in Rabi season crops viz.. Rice, pulses, oil seeds, coconut, cashew, vegetable crops and Value added Products etc., During the programme 10 exhibition stalls were arranged and exhibited different technologies related to agriculture and allied subjects in coordination with line departments for the benefits of the stake holders. Honourable Tamil Nadu Fisheries Minister Thiru. K. A. Jeyapaul delivered presidential address in which he insisted farmers of Nagapattinam district to avail the services of KVK which will help them to increase their production. Thiru. S. Palanisamy I.A.S District collector, Nagapattinam delivered his chief guest address in which he highlighted the activities of KVK and asked the farmers to utilize KVK for their growth. The Director of Tamil Nadu Rice Research Institute Dr. V. Ravi delivered special address in which he congratulated the KVK staff for arranging this mega mela for the benefit of Nagapattinam farmers. Thiru J. Sekar, Joint Director of Agriculture appreciated the effort of KVK and expressed his wishes to work jointly with KVK. Apart from this, Joint Director of Animal Husbandry Thiru K. Nagarajan and Assistant Director of Fisheries Thiru M. Sivakumar participated in this programme. 334 farmers were attended and benefitted through this programme. This programme was initiated through welcome address by Dr. A. Anuratha, Programme Coordinator and vote of thanks was delivered by Dr. J. Thilagam, Assistant Professor (Agricultural Extension). During the technical session KVK scientists imparted lectures among the farmers on Integrated Crop Management in rice and pulses, Integrated Plant Protection, Integrated Cultivation Technologies in Coconut, Importance of farm machineries in agriculture, Biogas Technologies, Post harvest technologies and value addition and Entrepreneurship development in agriculture and allied field. During the programme, agricultural inputs like vermicompost, coconut tonic and pseudomonas were sold to the farmers. Interaction meeting with Farmers and Scientist was conducted. Demonstrations on root feeding of coconut tonic, seed treatment in pulses, portray vegetable cultivation and preparation methods of nutraceutical health drink were conducted among the farmers

6.AWARENESS PROGRAMME ON NUTRACEUTICAL DRINK

An awareness programme on Nutraceutical drink was conducted on 16.12.2015 at Kathiripulam village of Vedharanyam Block. Nearly 44 participants (farmers and SHG members) were attended this programme. The preparation method of nutraceutical drink was explained by AP (Home Science) to the participants through demonstration. The importance and medicinal uses of nutraceutical drink was also explained and leaflet was also distributed to the participants

In continuation, the programme was organized on 17.12.2015 at Mayiladuthurai, 21.12.2015 at KVK Sikkal in the Stakeholders meeting of DAP, 28.12.2015 at Akkaraipettai in Jai Kisan Jai Vigyan Diwas programme and 09.01.2016 at KVK in Pre Rabi programme

7.PRESENTATION OF DISTRICT AGRICULTURAL PLAN

District Agricultural Plan report for the year 2015-16 has been prepared by conducting various stakeholders meeting at various blocks of Nagapattinam District on 17.12.2015 and KVK Sikkal on 21.12.2015. The District Agriculture plan of Nagapattinam district was presented by the Programme Coordinator, KVK, Nagapattinam who is acting as District level Coordinator on 11.03.2016 at Mini Conference hall at Collectorate, Nagapattinam in the presence of District Collector. During this occasion, various line Department officials viz. Joint Director of Agriculture, Joint Director of Animal Husbandary, Executive Engineer (AED), Deputy Director of Agriculture Marketing, Deputy Director of Horticulture, Assistant Director of Fisheries, Assistant General Manager, NABARD, Technical Expert - Joint Director of Agriculture (Retd) and other department officials were presented their proposals. Block level scientists of KVK Nagapattinam and TRRI Aduthurai were contributed for the preparation of District Agriculture plan of Nagapattinam district. The District Collector has given suggestions to improve the report and approved the District Agriculture plan 2015-16.

8..PARTICIPATORY RURAL APPRAISAL

Participatory Rural Appraisal was conducted at Neduvasal and Kokkur on 25.02.2016 and Interaction meeting was conducted on 29.02.2016 at KVK , Sikkal by involving district level progressive farmers and line department officials. Focus group discussion was conducted to know the resources, needs and problems of farmers of Nagapattinam district to plan for future intervention.

9.FARMERS TRAINING PROGRAMME / FIELD DEMONSTRATION ON ORGANIC AGRICULTURE UNDER SAGY (SANSAD ADARSH GRAM YOJANA)

Training programme has been organized in the view of promoting Organic farming for the upliftment of marginal/poor farmers under SAGY (SANSAD ADARSH GRAM YOJANA) sheme with the collaboration of KVK, Sikkal at MP adopted village Akkarapettai on 11.03.2016 .During this awareness training programme a technical lecture on Hygienic handling of harvested fish to the beneficiaries by Regional centre of organic farming, Bangaluru. Totally 50 participants were benefitted by this training programme

SUMMARY FOR 2015-16

I. TECHNOLOGY ASSESSMENT

Summary of technologies assessed under various crops

Thematic areas	Crop	Name of the technology assessed	No. of trials
IPM	Paddy	Assess the performance of Ecological Engineering IPM (EEIPM) module in Samba paddy	5
Varietal Evaluation	Ragi	Assessment of Ragi varieties in Nagapattinam District	5
INM	Maize	Assessing the performance of Nutri seed pack for maize in Nagapattinam district	3
Varietal Evaluation	Ground nut	Assessment of drought tolerant groundnut varieties under rainfed condition	5
Total			18

Summary of technologies assessed under livestock : Nil
 Summary of technologies assessed under various enterprises : Nil
 Summary of technologies assessed under home science : Nil

II. TECHNOLOGY REFINEMENT

Summary of technologies refined under various crops : Nil
 Summary of technologies assessed under refinement of various livestock : Nil
 Summary of technologies refined under various enterprises : Nil
 Summary of technologies refined under home science : Nil

III. FRONTLINE DEMONSTRATION

3.B.1. Crops

Crop	Thematic area	Name of the technology demonstrated	No. of Farmers.	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
Paddy	Varietal introduction	Demonstration of newly released rice variety TKM 13	10	4	36	30.25	19	35000	60000	25000	1.69	30000	39625	9625	1.32
Paddy	Seed production/ Varietal introduction	Demonstration and farmers participatory seed production of TNAU rice TPS 5 in Kuruvai season	10	4	42.2	34.0	23.7	34564	60194	25630	1.7	35467	48799	13331	1.38
Paddy	Integrated Nutrient Management	Demonstration of Decision Supporting System for Integrated Fertilizer Recommendation (DSSIFER) software for rice	10	4	46.2	42.84	7.91	33950	67063	33113	1.98	34375	62137	27758	1.80
Paddy	IDM	Demonstration of management on false smut disease in Samba paddy	10	4	42.4	36.75	15.44	39179	59508	20328	1.52	42895	51549	8655	1.20
Paddy	IPM	Demonstration on IPM strategies for Rice Brown Planthopper	10	4	46.43	35.2	31.90	38476	66150	27674	1.72	42634	50161	7527	1.18
Blackgram	Varietal introduction	Demonstration of ICM in TNAU Black gram variety MDU 1	10	4	5.78	4.44	30.03	13029	33198	20169	2.55	11854	25687	138334	2.17
Brinjal	INM	Demonstration of IIHR Vegetable special with ICM in Brinjal	10	4	157.4	132.5	18.78	128264	317000	188736	2.47	108861	236292	127431	2.17
Coconut	IPM	Production enhancement through nutrient and rhinoceros beetle management in coconut	10	20 trees / demo	69	48	42.85	55250	105253	50003	1.90	44070	65736	21666	1.49
Groundnut + Casuarina	Intercropping	Demonstration of Groundnut intercropping in Casuarina	5	2	24.68	18.91	30.51	54530	148080	93550	2.71	51960	113460	61500	2.18

Cotton	IPM	Demonstration on Eco friendly IPM modules for major sucking pest in cotton	10	4	Ongoing-Flowering stage
Fodder	Fodder Production	Demonstration of Multi-crop fodder production model for Nagapattinam District	11	0.6	Ongoing –All the fodder crops are in vegetative stage
Malai vembu	Varietal introduction	Demonstration of newly released TNAU Malai vembu MTP 1 under farmers participatory mode in Nagapattinam district	5	250 Nos clones/demo	On going- Sapling stage
Poplar	Varietal introduction	Demonstration of newly released Poplar variety PL-4 under farmers participatory mode in Nagapattinam district	5	250 Nos clones/demo	On going- Sapling stage

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

Demonstration and farmers participatory seed production of TNAU rice TPS 5 in Kuruvai season

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
No. of productive tillers/hill	16.2	11.5

Demonstration of newly released rice variety TKM 13

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
White ears (%)	0.9	2.7
Dead Heart (%)	3.7	5.0
Leaf folder incidence (%)	1.3	5.2

Demonstration of management on false smut disease in Samba paddy (Rabi)

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
No. of spicklets affected/sq.m (Nos)	0.38	2.55
% False smut disease reduction	84.75	0

Demonstration on IPM strategies for Rice Brown Planthopper

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
No. of planthoppers/10 hill (Nos)	1.48	8.59
% BPH damage reduction over control	83	0

Demonstration of Decision Supporting System for Integrated Fertilizer Recommendation (DSSIFER) software in rice

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
No. of panicles/m ²	354	345
No. of grains/panicle	135	126
EC (dS/m)	0.90	0.86
pH	7.92	7.32
Available Nitrogen (Kg/Ha)	162	156
Available Phosphrus (kg/Ha)	30	28
Available Potassium (Kg/Ha)	285	252
Organic Carbon (%)	0.28	0.26

Demonstration of ICM in TNAU Blackgram variety MDU 1

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
No. of plants / m ² (Nos)	33.00	28.50
No of pods/plant (Nos)	46.00	31.00
YMV Incidence (%)	8	20

Production enhancement through nutrient and rhinoceros beetle management in coconut

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
Button shedding (%)	22.00	51.00
Beetle Reduction (%)	64.00	34.00

Demonstration of Groundnut intercropping in Casuarina

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
No. of pods per plant (Nos)	25.40	19.00
100 seed weight (Gram)	47.00	38.55

Livestock and related enterprises :Nil

DEMONSTRATIONS ON CROP HYBRIDS :Nil

Fisheries : -

Type of Breed	Name of the technology demonstrated	Breed	No. of Demo	Units/Area (m ²)	Yield (gram)				% Increase	*Economics of demonstration Rs./unit) or (Rs./m ²)				*Economics of check Rs./unit) or (Rs./m ²)			
					Demo			Check if any		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					H	L	A										
Others-Pangasius	Demonstration of Pangasius fish culture under farmers participatory mode	-	5	0.05	951	945	948	613	54.69	23450	53015	29565	2.26	22650	47939	25289	2.12

Demonstration of Pangasius fish culture in farm pond

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
Growth rate (Gram)	657	366

Other enterprises

Enter prise	Name of the technology demonstrated	No. of Demo	Units/ Area {m ² }	Products Yield				% Increase	*Economics of demonstration (Rs./unit) or (Rs./m ²)				*Economics of check (Rs./unit) or (Rs./m ²)			
				Demo			Check if any		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
				H	L	A										
Others	Entrepreneurship development through value addition in mango	10	-	52	48	50 kg/day	-	-	1980	4950	2970	2.5	-	-	-	-
Others	Establishment of organic nutritional garden in School	4	-	6400	6100	6250 Kg/ Ha/ year	-	-	98950	175500	76450	1.77	-	-	-	-

Entrepreneurship development through value addition in Mango

Data on other parameters in relation to technology demonstrated	
Parameter with unit	Demo
Consumer preference (Organoleptic score)	****
Shelf life (Days)	8

Establishment of organic nutritional garden in School

Data on other parameters in relation to technology demonstrated	
Parameter with unit	Demo
Nutritional Knowledge Test (%)	85
Health & Nutrition – Behavioural Modification	85

Farm implements and machinery: - Nil

IV. Training Programme

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production										
Integrated Crop Management	4	254	144	398	55	34	89	309	178	487
Integrated Nutrient Management	-	-	-	-	-	-	-	-	-	-
Production of organic inputs	-	-	-	-	-	-	-	-	-	-
Others- Samba paddy cultivation techniques	-	-	-	-	-	-	-	-	-	-
Horticulture	-	-	-	-	-	-	-	-	-	-
a) Vegetable Crops	-	-	-	-	-	-	-	-	-	-
Protective cultivation	1	25	5	28	10	3	13	35	8	43
Awareness programme on Integrated Pest and Disease management in vegetables	-	-	-	-	-	-	-	-	-	-
Soil Health and Fertility Management	-	-	-	-	-	-	-	-	-	-
Soil fertility management	6	169	76	245	73	25	98	242	101	343
Home Science/Women empowerment	3	175	41	216	53	2	55	228	43	271
Value addition	-	-	-	-	-	-	-	-	-	-
Plant Protection	-	-	-	-	-	-	-	-	-	-
Integrated Pest Management	-	-	-	-	-	-	-	-	-	-
Integrated Disease Management	-	-	-	-	-	-	-	-	-	-
Production of Inputs at site	4	172	112	284	81	47	128	253	159	412
Agro-forestry	1	32	0	32	10	0	10	42	0	42
TOTAL	19	827	378	1203	282	111	393	1109	489	1598

4.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										
Integrated Crop Management	10	234	38	272	57	16	73	291	54	345
Integrated farming										
Production of organic inputs	1	17	0	17	4	0	4	21	0	21
a) Vegetable Crops	-	-	-	-	-	-	-	-	-	-
Protective cultivation	-	-	-	-	-	-	-	-	-	-
Hybrid vegetable cultivation techniques	-	-	-	-	-	-	-	-	-	-
Production of low value & high volume crop	2	25	40	65	10	25	35	35	65	100
Cultivation of fruits and vegetables	-	-	-	-	-	-	-	-	-	-
Home Science	-	-	-	-	-	-	-	-	-	-
Value Addition	6	254	80	334	68	32	100	322	112	434
Soil Health and Fertility Management	-	-	-	-	-	-	-	-	-	-
Integrated nutrient management	-	-	-	-	-	-	-	-	-	-
Plant Protection	-	-	-	-	-	-	-	-	-	-
Integrated Pest Management	8	196	121	317	148	47	195	344	168	512
Integrated Disease Management	8	196	121	317	148	47	195	344	168	512
Others - Bio-Control of pests and diseases	-	-	-	-	-	-	-	-	-	-
Production of Inputs at site	-	-	-	-	-	-	-	-	-	-
Livestock Production and Management	-	-	-	-	-	-	-	-	-	-
Animal Nutrition Management	-	-	-	-	-	-	-	-	-	-
TOTAL	35	922	400	1322	435	167	602	1357	567	1924

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

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	Value addition in mango	1	20	1	21	7	2	9	27	3	30
2	Vermi compost production technology	1	-	67	67	-	20	20	-	87	87
	Total	2	20	68	89	7	22	29	27	90	117

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

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	Value addition in mango	2	36	20	56	2	18	20	38	38	76
	Total	2	36	20	56	2	18	20	38	38	76

4.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	12	-	-	-	-	-	-	312	168	480
Integrated Pest and Disease Management	3	-	-	-	-	-	-	78	42	120
Protective cultivation	-	-	-	-	-	-	-	-	-	-
Total	15							390	210	492

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Integrated Pest Management	1	-	-	-	-	-	-	26	14	40
Integrated Nutrient management	1	-	-	-	-	-	-	26	14	40
Any other (pl.specify)										
Integrates disease Management	1	-	-	-	-	-	-	26	14	40
Total	3	-	-	-	-	-	-	78	42	120

4.G. Sponsored training programmes conducted

Sl.No	Area of training	No. of Course	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
1	Sustainable Sugarcane Initiative	2	24	11	35	-	-	-	24	11	35
2	Sustainable Sugarcane Initiative	1	25	-	25	-	-	-	25	-	25
3	value addition in pulses	1	30	18	48	12	20	32	42	38	60
4	value addition in pulses	1	35	-	35	-	-	-	35	-	35
5	value addition in pulses	1	35	-	35	5	-	5	40	-	40
6	Parasitoids and predators in pest management in rice ecosystem	1	37	2	39	20	2	22	57	4	75
7	Parasitoids and predators in rice ecosystem	1	64	5	69	36	9	45	100	14	114
8	Parasitoids and predators in pest management in rice ecosystem	1	31	4	35	19	6	25	50	10	60
9	Role bio inputs for Disease management in rice	1	47	4	51	26	3	29	73	7	174
10	ICM in Pulses	1	32	8	40	11	4	15	43	12	55

11	Integrated Crop Management in Pulses	1	19	6	25	7	3	10	22	9	31
12	Hygienic handling of harvested fish	1	35	15	50	12	7	19	47	22	86
13	IPDM in Gingelly on 22.03.2016	1	17	8	25	6	3	9	23	11	34
	Total	14	431	81	512	154	57	211	581	138	719

Details of sponsoring agencies involved

- State Dept. of Agriculture
- .NADP
- NGOs
- MSSRF.

4.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	Value addition in mango	3	56	21	77	9	20	29	65	41	106
2	Vermi compost production technology	1	-	67	67	-	20	20	-	87	87
	Total	4	56	88	144	9	40	49	65	128	193

V. Extension Programmes

Extension Programmes (including extension activities undertaken in FLD programmes)

Sl. No	Activities	No. of Programmes	No. of participants		No. of SC/ ST		No. of Extension personnel	
			Male	Female	Male	Female	Male	Female
1	Scientific visit to farmers field	196	851	122	257	63	58	11
2	Field day	11	86	18	20	8	6	-
3	Kisan Mela	7	1315	648	329	398	8	2
4	Exhibitions	9	1375	634	345	388	112	14
5	Film show/video shows	26	460	284	313	235	68	14
6	Campaign	4	590	90	147	92	148	22
7	Seminar	15	590	57	120	42	30	14
8	Zonal workshop	10	584	216	399	62	198	29
9	Farmer advisory service	802	552	68	184	34	120	14
10	Demonstrations	39	1170	356	288	137	132	14
11	Exposure visits	5	100	-	7		1	-
12	Radio talk/broadcast	15	Mass coverage					
13	TV coverage/telecast	6	Mass coverage					
14	News paper coverage	62	Mass coverage					
15	Extension literature published	26	-					

Details of other extension programmes

Particulars	Number
Extension Literature	26
News Letter	2
News paper coverage	62
Technical Articles	15
Technical Reports	12
Radio Talks	15
TV Talks	6
Total	156

PRODUCTION OF SEED/PLANTING MATERIAL

Production of seeds by the KVKs

Crop category	Name of the crop	Variety	Hybrid	Quantity of seed	Value (Rs)	Number of farmers to whom provided
Cereals	Paddy	CR1009 <i>Sub-1</i>	-	1425 kg	34200	62
	Paddy	ADT 46	-	1480 kg	38480	74
Fodder crop	C:N grass	CO3	-	1902 Slips	951	47
Others	Azolla		-	102 kg	510	12
	Seminar Hall Rent		-	4 days	5500	-
	Hostel room rent	SSI farmer		4 days	5500	110
	Paddy illfilled grain			750 kg	2900	3
	Paddy straw			675 kg	1350	2
	Black gram mixed grain			2	40	2
	Green gram mixed grain			9	180	4
	Gingelly grain			200 kg	8000	6
	Paddy CR1009 grain			7880 kg	111268	
	Paddy ADT 46 grain			7000 kg	106400	
	Prosofis auction cost				12500	
	Pseudomonas			543 kg	54300	123
	Coconut seedlings			108 No	4320	8
	Protray			35 No	875	7
	Fish			14 kg	1400	5
	SSI Book			55 No	2200	55
	Vermicompost			4927 kg	29562	63
	Earthworms			4 kg	1400	4
	Cocopeat			116 kg	696	4
	Boom sprayer Hire charges			12 days	2400	3
	Mobile sprinkler Hire charges			1 day	200	1
	Coconut tonic			524 pocket	6245	65
	Coconut produce auction				2000	
	Casuraina bundle			6 bundle	60	6
	Casuraina seedlings			100	400	2
	Teak seedlings			30	150	1
	Bottle gourd			2	20	1
	Plantain			900	1350	120
	Banana flower bud			5	25	5
	Vegetable seed pocket			43	2150	43
	Drumstick			4 kg	60	10
	Tender coconut			6	90	3
	Greens			8 bundle	50	8
	Vegetables			1.25 kg	23.75	3
Total					437755.75	862

Production of planting materials by the KVKs

Crop category	Name of the crop	Variety	Hybrid	Number	Value (Rs.)	Number of farmers to whom provided
Seedlings	Coconut seedlings	ECT	-	108	4320	8
Fodder crop saplings	C:N grass	CO3	-	1902 slips	951	47
Tree Seedlings	Casuraina seedlings	<i>C.equisetifolia</i>	-	100	400	2
	Teak seedlings		-	30	150	1
Others(specify)	Vermicompost		-	4927 kg	29562	63
	Earth worms	<i>E.foetida</i>	-	3.5 kg	1400	4
Total					36783	125

Production of Bio-Products

Bio Products	Name of the bio-product	Quantity (Kg)	Value (Rs.)	Number of farmers to whom provided
Bio-fungicide	<i>Pseudomonas</i> (Talc)	543 kg	54300	123
Bio Agents	Cocopeat	116 kg	696	4
Others (specify)	Azolla	102	510	12
	Vermicompost	4927 kg	29562	63
	Earth worms (<i>E. foetida</i>)	3.5 kg	1400	4
Total			86468	206

Production of livestock materials :Nil**VII. DETAILS OF SOIL, WATER AND PLANT ANALYSIS 2015-16**

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)
Soil Samples	295	295	46	7000.00
Water Samples	18	18	18	180.00
Total	313	313	64	7180.00

VIII. SCIENTIFIC ADVISORY COMMITTEE :NIL**IX. NEWSLETTER**

Number of issues of newsletter published :2 Nos
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X. RESEARCH PAPER PUBLISHED

Number of research paper published :1 No

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

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