# **ANNUAL REPORT 2014-15**

(FOR THE PERIOD APRIL 2014 TO MARCH 2015)

KRISHI VIGYAN KENDRA (CUDDALORE DISTRICT)

# TAMIL NADU AGRICULTURAL UNIVERSITY KRISHI VIGYAN KENDRA – CUDDALORE TAMIL NADU, INDIA ANNUAL REPORT (2014-15)

#### PART I - GENERAL INFORMATION ABOUT THE KVK

#### 1.1. Name and address of KVK with phone, fax and e-mail

KVK Address	Tele	ephone	E mail	Web Address
	Office	Fax		
Krishi Vigyan Kendra Vriddhachalam - 606 001 Cuddalore District Tamil Nadu	04143-238353	04143-238353	kvkvri@tnau.ac.in	www.kvkcuddalore.com www.tnau.ac.in

#### 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 Lawley Road, Coimbatore - 641 003 Tamil Nadu	0422-2431222	0422 - 2431672	registrar@tnau.ac.in	www.tnau.ac.in

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

Name	Telephone / Contact				
	Residence	Mobile	Email		
Dr. R.Arunachalam	04143-238896	09952197187	kvkvri@tnau.ac.in		

**1.4. Year of sanction:** ICAR - F. No. 22 (17)/83–KVK dt 29.03.1985 of the Deputy Director General (AE), ICAR, New Delhi

# 1.5. Staff Position (as 31st March 2015)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	M/F	Discipline	Highest Qualification (for PC, SMS and Prog. Asstt.)	Pay Scale	Basic pay	Date of joining KVK	Permanent /Temporary	Category (SC/ST/ OBC/ Others)
1	Programme Coordinator	Dr.R.Arunachalam	Professor and Head	M	Agricultural Extension	Ph. D	37400- 67000- 10000 (GP)	61750	04.12.2012	Permanent	OBC
2	SMS (Home Science)	Dr.S.Kannan	Assistant Professor	M	Home Science	Ph. D	15600- 39100- 8000(GP)	36700	06.08.2009	Permanent	SC
3	SMS (Animal Husbandry)	Dr. M. Malarkodi	Assistant Professor	F	Soil Science & Agrl.Chemistry	Ph.D.	15600- 39100- 7000 (GP)	30730	17.04.2013	Permanent	OBC
4	SMS (Agricultural Engineering)	Dr.T.Saravanan	Assistant Professor	M	Pl. Pathology	Ph. D	15600- 39100- 7000(GP)	30730	18.03.2013	Permanent	OBC
5	SMS (Plant Protection/ Agro Forestry)	Dr.V.Vijaya geetha	Assistant Professor	F	Seed Science & Technology	Ph. D	15600- 39100- 6000(GP)	30730	02.08.2010	Permanent	OBC
6	SMS (Agronomy)	Dr. K. Venkatalakshmi	Assistant Professor	F	Agronomy	Ph.D.	15600- 39100- 7000(GP)	30730	16.04.2013	Permanent	OBC
7	SMS (Horticulture)					Vacant					
8	Programme Assistant ( Lab Tech.)	Mrs.G.Meenalakshmi	Programme Assistant (Lab Tech.)	F	Horticulture	B.Sc. (Agri)	9300- 34800- 4400 (GP)	15440	28.02.2011	Permanent	SC
9	Programme Assistant (Computer)	Mr.R.Samundeeswaran	Programme Assistant (Computer)	М	Computer Science	M.C.A.	9300- 34800- 4400 (GP)	17490	14.11.2012	Permanent	OBC
10	Programme Assistant/ Farm Manager	Mr. R. Rajeshkannan	Farm Manager	M	Horticulture	M.Sc.(Agri)	9300- 34800- 4400 (GP)	18020	13.08.2010	Permanent	OBC
11	Superintendent cum Accountant	Th. P. Mohandoss	Administrative Officer	M	-	B.Sc	15600- 39100- 5400 (GP)	22950	14.09.2009	Permanent	SC

12	Jr. Stenographer	Mrs. T. Suganthi Rani	Superintendent	F	-	XII	9300- 34800-	17180	01.12.2008	Permanent	SC
							4800 (GP)				
13	Driver	Th. C. Jayabal	Driver	M	-	XI	9300- 34800- 4400 (GP)	19520	28.11.1986	Permanent	OBC
14	Driver	Th.S.Arul	Driver cum Mechanic	M	-	X	5200- 20200- 2400(GP)	10620	21.02.2007	Permanent	OBC
15	Supporting staff (Office Assistant)	Th. A. Deivasigamani	Office Assistant	M	-	XII	4800- 10000- 1300(GP)	6880	27.01.2011	Probationer	OBC
16	Supporting staff (PUSM)	Th. P. Narayanasami	PUSM	M	-		4800- 10000- 1300(GP)	9600	08.08.1988	Permanent	OBC

# 1.6. Total land with KVK (in ha) : 20 ha

S. No.	Item	Area (ha)	
1	Under Buildings	872.62 m <sup>2</sup>	
2. Under Demonstration Units		208.66 m <sup>2</sup>	
3.	Under Crops	16.1 ha	
4. Orchard/Agro-forestry		3.8 ha	
5.	Others	Nil	

# 1.7. Infrastructural Development (2014-15):Nil

# A) Buildings

			Stage					
S.		Source of		Complete	e	Incomplete		
No.	Nomo of huilding		Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building					-	-	-
2.	Farmers Hostel					-	-	-
3.	Staff Quarters							
	1					-	-	-
	2							
4.	Demonstration Units							
5	Fencing					-	-	-
6	Rain Water harvesting system					-	-	-
7	Threshing floor					-	-	-
8	Farm godown					-	-	-
9	Jeep shed					-	-	-
10	Seminar hall					-	-	-

# B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Motor cycle- Bajaj M80 (TN 31 V 4421)	1995	20,448	7714	Under repair
Mahindra Jeep (TN 31 L 7571)	2004	4,48,196	1,79,298 km	Running
Motor cycle-Hero Honda (TN 31V 4421)	7009		33,950 km	Running
Tractor - (New)	2011	4,87,500	950 hrs	Running

# C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Pentax camera	1988	7,572	Condemned
Over head projector	2004	25,488	Condemned
Slide projector	2004	14,588	Condemned
Digital camera	2006	19,900	Good
LCD projector with accessories (2 nos)	2007	1,10,000	Good
Public address system	2008	68,941	Good
Projection screen (Manual)	2009	2,500	Good
Projection screen (Electrical)	2009	28860	Good

# 1.8. Details SAC meeting conducted in 2014-15

Sl.No.	Date	Number of Participants	No. of absentees	Salient Recommendations	Action taken
1.	05.09.2014	22	-	More number of interventions has to be made on the major crops like ground nut, rice and cashew	More number of OFT and FLD were proposed with respect to ground nut and rice 2015-16.
2				Vegetable commodity group is needed for Cuddalore district.	Vegetable commodity group has been started and got registered at Gunamanagalam village,vridhachalam tk.
3				Conduct farmer, extension officials and scientists interaction meet to make issue based interventions.	Interaction meeting has been conducted on issue based interventions with farmer, extension officials and scientists on 18.3.2015. The leading farmers have participated and given suggestions for plan of action.
4				Much emphasis should be given to Ragi cultivation	OFT on assessment of different ragi varieties for salt affected soil has been conducted on 2014-15
5				Demonstration on the machineries has to be done.	Training on farm machineries has conducted on 11.02.2015

### PART II - DETAILS OF THE DISTRICT

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

S. No	Farming system/enterprise
1	Command areas
2	Irrigated agricultural systems
3	Rainfed agricultural systems
4	Livestock production
5	Sericulture
6	Inland aquaculture
7	Cashew Processing unit, Cashew nurseries
8	Value addition

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

S. No	Agro-climatic Zone	Characteristics
1	1. Heavy clay soils	Command areas
1.		Rice-rice-pulses; Rice-pulses/sesame/cotton
2	2. Heavy Clay soils	Tankfed areas
۷.		Rice-pulses
2	I starite and and block sails	Well irrigated areas
3.	3. Laterite, red and black soils	Sugarcane-ratoon-rice-groundnut (3 yrs); rice-groundnut-sesame
4	Laterite and block soils	Rainfed
4.	Laterite and black soils	Groundnut-sesame

S. No	Agro ecological situation	Characteristics
AES-I	Sandy Clay loam, Medium texture, Normal Rainfall, Well irrigated area	Diversified agriculture
AES-II	Clay loam, Heavy texture, Normal Rainfall, Delta area	Paddy areas
AES-III	Sandy clay loam, Medium to light texture, Rainfed area.	Rainfed agriculture

# 2.3 Soil type/s

S. No	Soil type	Characteristics	Area in ha
1.	Sandy loam	Slightly acidic to alkaline in pH Poor in water holding capacity, low in Nitrogen medium in P and K	91679
2.	Sandy	Neutral to Saline pH, poor in water holding capacity, low in Nitrogen medium in P and K.	31974
3.	Clay loam	Neutral to alkaline pH, poorly drained soil, medium in N and P and high in K.	115565
4.	Sandy Clay loam	Neutral to Saline pH, low in Nitrogen medium in P and K	128573
	Total		367791

# 2.4. Area, Production and Productivity of major crops cultivated in the district (2014-15)

S. No	Стор	Area (ha)	Productivity (Kg/ha)	Production (Metric tons)
Agricultural crops				
Cereals				
1	Rice	133936	Paddy 7411 Rice 2039	6.70 (Rice)
Millets				
1	Sorghum	44	2100	0.001
2	Cumbu	2918	4635	0.14
3	Maize	23157	8166	1.82
4	Varagu	1059	2420	003
Pulses				
1	Redgram	815	1140	0.01
2	Blackgram	52366	846	0.45
3	Greengram	11781	710	0.09
Oilseeds				
1	Groundnut	10523	2741	0.29
2	Gingelly	4737	479	0.23
Cash crops				
1	Cotton	6905	1860	0.13
2	Sugarcane	25773	110 (Mt)	28.35
Horticultural crops	s (2011-12)		1	1
Fruits/plantation cro	pps			
1	Cashew nut	32261	552.9	178371
2	Banana	4250.83	97421	23571.6
3	Jack	664.91	-	4930
4	Guava	570.405	403	658.86
5	Mango	494.935	2277	4438.09
Vegetables/spices				
1	Brinjal	172.385	2542	16637.73
2	Chillies	128.170	45	436.55
3	Bhendi	153.12	757	8699.58
4	Tapioca	3252.010	101408	29790.82
Flower crops				
1	Rose	35.140		
2	Jasmine-Gundumalli	143.590		
3	Jasmine-Mullai	250.315		
4	Crossandra	43.200		

<sup>\* \*</sup> Source: O/o. Joint Director of Agriculture, Cuddalore and Hand book of statistics, 2013

#### 2.5. Weather data

Month	Rainfall (mm)	Temper	rature <sup>0</sup> C	Relative Humidity (%)
		Maximum	Minimum	-
April 2014	0	37.3	24.3	74.5
May 2014	157.6	36.7	26.5	77.0
June 2014	61.0	37.6	27.2	74.6
July 2014	54.6	36.3	26.5	76.8
August 2014	164.2	35.1	25.7	81.4
September 2014	134.8	35.7	25.2	79.2
October 2014	162.8	32.6	24.6	86.0
November 2014	148.7	29.9	23.5	88.7
December 2014	83.2	29.9	23.2	86.8
January 2015	4.4	31.3	20.8	85.6
February 2015	0	33.0	20.6	87.3
March 2015	0	36.5	23.2	77.5
Total/Mean	971.3	34.3	24.3	81.3

<sup>\*</sup> Source: Regional Research Station, Vriddhachalam, Cuddalore district, Tamil Nadu

2.6. Production and productivity of livestock, Poultry, Fisheries etc. in the district (2012-13)

Category	Population	Production('000 tonnes)	Productivity
Cattle	337451	174 lakh litres	
Crossbred	150.976	5412	
Indigenous	23.562	777	
Buffalo	19784	15.106	
Sheep	59255	6968	
Crossbred			
Indigenous			
Goats	305366		
Pigs	17827		
Crossbred			
Indigenous			
Rabbits			
Poultry	3805549	165.121 lakh nos.	
Hens			
Desi			
Improved			
Ducks	11614		
Turkey and others			

Category	Area	Production	Productivity
Fish			
Marine	57.5 km	426735	477943.69
Inland	45 km	184753.44	103122.52
Prawn			
Scampi			
Shrimp			

<sup>\*</sup> Source: Handbook of Cuddalore district, O/o the Deputy Director, Statistics, Cuddalore

2.8 Details of Operational area / Villages

Sl. No.	Taluk	Name of the block	Name of the village	How long the village is covered under operational area of the KVK (specify the years)	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1.	Chidamba ram	Parangipettai	B. Mutlur	3 years	Rice, sorghum, blackgram, groundnut,	The productivity is less in cropping system alone and income is also low	Integrated Farming System
			B.Mutlur, Keezhamungiladi	Three years	vegetables, livestock, poultry, Inland	Weed problem causes the yield loss up to 60% in direct sown paddy	Assessment of effective weed control measures in direct seeded paddy
			Vallampadugai, Thatchukadu	Two years	aquaculture	Water scarcity during growth period and Lack of knowledge about moisture mitigation practices in samba paddy	Assessment of drought mitigation technology in pulses
			Kotthatai	Kotthatai Three years		Lack of awareness about the new rice variety for late samba as well as direct seeded rice varieties	Demonstration and farmers participatory seed production of paddy variety ANNA 4 for rain fed areas of Cuddalore district
		Thatchukadu Three years		Labour scarcity and lack of knowledge about use of post emergence herbicides in pulses	Demonstration of post emergence herbicide for black gram		
2.	Vridhacha lam	Vridhachala m	Perumulai	One year	Rice, maize, red gram, black gram, ground nut, gingelly, sugarcane, cotton, vegetables, banana,	Soil sodicity. Poor soil physical condition and lower nutrient availability in sodic soil and lack of awareness about the tolerant varieties leads to lower yield in Ragi	Assessment of different Ragi varieties for salt affected soil
			Perumulai Sathiyavadi	Three years	tapioca, livestock,	Lack of awareness about the multi cut fodder sorghum	Demonstration of Fodder Sorghum CO31

Chinnavadavadi	Three years	poultry, Inland aquaculture	Hard pan formation in sub- surface layer of alfisols leads poor yield in groundnut	Demonstration of chiseling in ground nut under alfisols
Alichikudi	Three years		The productivity is less in cropping system alone and income is also low	Integrated Farming System
Palayapattinum, Vijayamanagaram, Aladi, Sathukudal, T.Pavazhankudi, M.Patti, Puliyur,	Two years		local varieties prone to shoot and fruit borer and lack of awareness about high yielding varieties in brinjal	Assessment of suitable brinjal hybrid for Cuddalore district
M. Patty, Parur, Pudukuraipettai	Three years		Low yield from existing method of planting in banana	Demonstration of high density planting method in banana
T.Pavazhankudi,	Two years		Soil sodicity. Poor soil physical condition and lower nutrient availability in sodic soil leads to lower yield in paddy	Demonstration of TNAU rice TRY3 in salt affected soils.
Sathiyavadi	Three years		Low milk yield. No enriched feed materials for livestock. Effective use of sugarcane tops.	Demonstration of enriching and ensiling of sugarcane tops for higher milk yield in cows
Sathamangalam	Two years		Samba paddy is frequently affected by moisture stress Lack of knowledge about moisture mitigation practices	Demonstration of drought management technology packages in direct sown paddy
Kuppanatham, Puliyur, Vridhachalam	Two years		Lack awareness about newly released high yielding varieties in blackgram	Demonstration of Black gram MDU1
Manavalanallur, Palayapattinum, Muthanakuppam	Two years		Non availability of well decomposed coco peat for seedling production under shade net	Assessment of cocopeat bioconversion techniques and its performanace under protray nursery

			Sathiyam,Kuppan atham,,Vridhachal am,Palayapattina m	Three years		Labour scarcity and lack of knowledge about use of post emergence herbicides in pulses	Demonstration of post emergence herbicide for black gram	
			Palyapattinum,Pul iyur,Vijayamanag aram,Natham, Co.Kothanur,Sath ukudal,Sathiyam,P udukurai pettai	Two years		Lack of awareness about high yielding varieties in vegetables	Demonstration of bush type lablab CO (GB)14	
			Sri Aathivaraganallur	Two years		The productivity is less in cropping system alone and income is also low	IFS as a special programme	
			Sriputhur, Esanur, Nagarapadi	Two years	Rice, red gram, black gram, green gram,	Soil sodicity. Poor soil physical condition and lower nutrient availability in sodic soil leads to lower yield in paddy	Demonstration of TNAU rice TRY3 in salt affected soils.	
3.	Kattuman nar koil		Sri Aathivaraganallur	Two years	ground nut, gingelly, vegetables, livestock, poultry, Inland aquaculture	gingelly, cropping vegetables, livestock, poultry, Inland aquaculture cropping income aquaculture cropping income	The productivity is less in cropping system alone and income is also low	Integrated Farming System
			Sri Neduncherry, Sri puthur, Ambujavalli pettai	Two years			Samba paddy is frequently affected by moisture stress Lack of knowledge about moisture mitigation practices	Demonstration of drought management technology packages in direct sown paddy
			Sri Puthur	One year		local varieties prone to shoot and fruit borer lack of awareness about high yielding varieties	Assessment of suitable brinjal hybrid for Cuddalore district	
		Nallur	Veppur	Two year	Rice, maize, cumbu, ragi, blackgram,	Severe incidence of rhizome rot and low yield in turmeric	Demonstration of IDM for Rhizome rot in turmeric	
4. Thitakuc	Thitakudi		Illangiyanur, vijayamanagaram, Pellandurai	Three years	groundnut, sugarcane, livestock, poultry	local varieties prone to shoot and fruit borer lack of awareness about high yielding varieties in brinjal	Assessment of suitable brinjal hybrid for Cuddalore district	

		Illangiyanur, Sathiyam	Two years		Weed problem causes the yield losses up to 60%	Assessment of effective weed control measures in direct seeded paddy
	Mangalur	T. Agaram	Two years		Lack of awareness about the promising quality rice variety for Kuruvai season	Demonstration of Rice CO 51
		T. Agaram, Perumulai	One year		Soil sodicity. Poor soil physical condition and lower nutrient availability in sodic soil and lack of awareness about the tolerant varieties leads to lower yield in Ragi	Assessment of different Ragi varieties for salt affected soil
		Perumulai	One year		Water scarcity during growth period. Lack of awareness about the drought tolerant varieties	Assessment of drought tolerant ground nut varieties
		Perumulai	One year		The productivity is less in cropping system alone and income is also low	IFS as a special programme
		Perumulai, Chinna parur	Two year		Low productivity and lack of knowledge on hybrid in Bhendi	Assessment of suitable Co (hy) 1 bhendi hybrid for Cuddalore district
	Mangalur	Reddakurchi, Kolavai, Mangulam	Two years	Rice, maize, cumbu, ragi, varagu, black gram, red gram, ground	Severe incidence of rhizome rot and low yield in turmeric	Demonstration of IDM for rhizome rot in turmeric
		T.Agaram	Two years	nut, gingelly, cotton, sugarcane, livestock, poultry	Soil sodicity. Poor soil physical condition and lower nutrient availability in sodic soil leads to lower yield in paddy	Demonstration of TNAU rice TRY3 in salt affected soils
		V.Puthur	One year		Weed problem causes the yield loss up to 60%	Assessment of effective weed control measures in direct seeded paddy

		Karupanchavadi, Paikaranatham Three years	Lack of awareness about the promising quality rice variety for Kuruvai season	Demonstration of Rice CO 51			
6.	Kurinchip adi	Kurinchipadi	Krishnakuppam	One year	Rice, maize, cumbu, thinai, groundnut, vegetables, livestock, poultry	Lack of awareness about the new rice variety for late samba as well as direct seeded rice varieties	Demonstration and farmers participatory seed production of paddy variety ANNA 4 for rain fed areas of Cuddalore district
			Anukampattu	Two years		Non availability of well decomposed coco peat for seedling production under shade net	Assessment of cocopeat bioconversion techniques and its performanace under protray nursery
7.	Cuddalore	Cuddalore	Vazhisothanai- palayam	One year	Rice, maize, cumbu, ragi, blackgram, red gram, ground nut, gingelly, sugarcane, coconut, palm oil, tapioca banana, livestock, poultry	Low yield from existing method of planting in banana	Demonstration of high density planting method in banana

# 2.9 Priority thrust areas

S. No	Thrust area
1	Evaluation and demonstration of new high yielding varieties and hybrids
2	Introduction of alternate cropping system and crop management practices
3	Integrated nutrient management for improving crop productivity and soil health
4	Improving the productivity of horticultural crops
5	Integrated pest and disease management
6	Farm mechanization for major oil seeds, cereals and horticultural crops
7	Self employment and entrepreneur development programmes
8	Problem soil management
9	Production and supply of quality seed / seedling materials
10	Water stress mitigation and water resource conservation
11	Integrated Farming System

# PART III - TECHNICAL ACHIEVEMENTS

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

	as of the get there is							
	0	FT			Fl	LD		
		1			,	2		
Num	ber of OFTs	Numbe	er of farmers	Numl	per of FLDs	Number of farmers		
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement	
7	7	43	43	13	12*	106	101	

<sup>\*</sup>One FLD on Demonstration of Nandhanam II Turkey was withheld due to budget constraint.

	Trai	ining			Extension P	rogrammes	5	
		3			4	1		
Number	of Courses	Number	of Participants	Number	of Programmes	Number of participants		
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement	
55	64	4000	4724	500	610	3000	3852	

Seed Produ	ction (Qtl.)	Planting ma	terials (Nos.)
5	5		6
Target	Achievement	Target	Achievement
-	-	Cashew grafts – VRI 3 (9803 nos.)	Cashew grafts – VRI 3 (9803 nos.)
		Jack grafts – PLR 1 (50 nos.)	Jack grafts – PLR 1 (50 nos.)
		Medicinal plant seedlings (1350 nos.)	Medicinal plant seedlings (1350 nos.)
		Ornamental plant seedlings (56 nos.)	Ornamental plant seedlings (56 nos)

Livestock, poultry strai	ns and fingerlings (No.)	Bio-prod	ucts (Kg)						
,	7	8							
Target	Achievement	Target	Achievement						
Telecherry goat (4 nos.)	Telecherry goat (4 nos.)	Vermi compost (1090 kgs)	Vermi compost (1090 kgs )						

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

								Inter	ventions					
S. N o	Thrust area	Crop/ Enterpr ise	Identified Problem	Title of OFT if any	Title of FLD if any	Numbe r of Traini ng (farme rs)	Numbe r of Traini ng (Youth s)	Numbe r of Trainin g (extensi on personn el)	Extensi on activitie s (No.)	Supply of seeds (Qtl.)	Suppl y of planti ng mater ials (No.)	Suppl y of livest ock (No.)		oply of bio roducts
													No	Kg
01	Crop Managem ent	Direct seeded paddy	Weed problem causes the yield losses up to 60%	Assessment of effective weed control measures in direct seeded paddy		-	-	2	25	Anna 4 seeds- 150 kgs Daincha seeds -20kgs			<u>.                                    </u>	
02	Varietal evaluation	Ground nut	Water scarcity during growth period. Lack of awareness about the drought tolerant varieties	Assessment of drought tolerant Ground nut varieties		1	1	1	25	Ground nut Seeds CO 7- 50 kgs Kadiri 9- 75 kgs GJG 17- 75 kgs		1	-	

03	Varietal evaluation	Ragi	Soil sodicity. Poor soil physical condition and lower nutrient availability in sodic soil and lack of awareness about the tolerant varieties leads to lower yield in Ragi	Assessment of different Ragi varieties for salt affected soil		2	2		15	Ragi seeds ML365 -10kgs CO (Ra)-15 kgs TRY 1- 5 kgs	 	 
04	Varietal evaluation	Bhendi	Low productivity and lack of knowledge on hybrid	Assessment of suitable CO (hy) 1 Bhendi hybrid for Cuddalore district	ł	2	2	-	5	CO (Hy) 1- 2.5 kgs	 	 
05	Varietal evaluation	Brinjal	local varieties prone to shoot and fruit borer lack of awareness about high yielding varieties	Assessment of suitable brinjal hybrid for Cuddalore district	-	2	2	-	5	Brinjal hybrid (Neelima) - 1.150kgs	 	 

06	Crop Managem ent	Rice fallow pulses	Water scarcity during growth period and Lack of knowledge about moisture mitigation practices	Assessment of different management strategies to mitigate drought in rice fallow pulses	-	1	1	2	10		 		PPFM-5 1 Bacterial consortia- 10 kgs
07	Others	Coco peat bio conversi on	Non availability of well decomposed coco peat for seedling production under shade net	Assessment of cocopeat bioconversio n techniques and its performance under protray nursery	-	1	1	1	10		 		Arka microbial consortiu m decompos er-25 kg Coir pith- 820 kgs Pleurotus spawn-50 packets.
08	Variety demonstra tion	Paddy	Lack of awareness about the promising quality rice variety for Kuruvai season	-	Demonstrat ion of rice CO 51	2	2	2	15	CO 51 seeds- 150 Kgs	-	-	-

09	Variety demonstra tion	Paddy	Soil sodicity. Poor soil physical condition and lower nutrient availability in sodic soil leads to lower yield in paddy	-	Demonstrat ion of TNAU rice TRY 3 in salt affected soils.	-	-	1	12	TRY 3 paddy seeds – 200 Kgs		 	
10	Crop Managem ent	Direct sown Paddy	Samba paddy is frequently affected by moisture stress Lack of knowledge about moisture mitigation practices	-	Demonstrat ion of drought manageme nt technology packages in direct sown paddy	1	1	2	20	Anna 4 paddy seeds -210 kgs	-	 	
11	Crop Managem ent	Direct sown Paddy	Lack of awareness about the new rice variety for late samba as well as direct seeded rice varieties		Demonstrat ion and farmers participator y seed production of paddy variety ANNA 4 for rain fed areas of Cuddalore district	1	1	2	13	Anna 4 paddy seeds -150 kgs	1	 1	

12	Crop Managem ent	Ground nut	Hard pan formation in sub- surface layer of alfisols	-	Demonstrat ion of chiseling in ground nut under alfisols	1	1	1	25	-	-			
13	Crop Managem ent	Black gram	Labour scarcity and lack of knowledge about use of post emergence herbicides	-	Demonstrat ion of post emergence herbicide for black gram	1	1	1	20					
14	Crop Managem ent	Banana	Low yield from existing method of planting	-	Demonstrat ion of high density planting method in banana	-	-	ı	8	-	ŀ	1		Pseudomo nas -5 kgs <i>Trichoder</i> ma viride- 5 kgs
15	Crop managem ent	Turmeric	Severe incidence of rhizome rot and low yield	-	Demonstrat ion of IDM for rhizome rot in turmeric	-	-	-	6	-	1	-	-	Azospirill um- 40 kgs  Phosphob acteria- 41 kgs  Trichoder ma viride- 12.5kgs  Pseudomo nas- 22.5kgs

16	Variety demonstra tion	Black gram	Lack awareness about newly released high yielding varieties in blackgram	-	Demonstrat ion of Blackgram MDU 1	1	1	1	10	Black gram- seeds (MDU 1)-4 kgs	-	-	-	-
17	Variety demonstra tion	Lablab	Lack of awareness about high yielding varieties	-	Demonstrat ion of Bush type lablab CO (GB)	2	2	-	6	Bush type lablab CO (GB) 14 -80 kgs	-	-	-	-
18	Variety demonstra tion	Fodder sorghum	Lack of awareness about the multi cut fodder sorghum	-	Demonstrat ion of Fodder sorghum CO 31	-	-	-	12	Fodder sorghum CO 31 seeds -8 kgs	-	-	-	-
19	Nutrient managem ent	Sugarcan e tops	Low milk yield No enriched feed materials for livestock Effective use of sugarcane tops	-	Demonstrat ion of enriching and ensiling of sugarcane tops for higher milk yield in cows	1	1	-	5	-	-	-	-	-

	IFS											
20	Farming system	Wet land,dry land	The productivit y is less in cropping system alone and income is also low	-	Integrated Farming system-wet land and dry land	2	2	1	7	-	 Goats - 4 Chick s -150 nos.	 chick feed- 34kgs

# 3.B2. Details of technology used during reporting period

C M-	Title of	Source of	C			No.of progr	rammes conducted
S.No	Technology	technology	Crop/enterprise	OFT	FLD	Training	Others (Specify)
1	2	3	4	5	6	7	8
1	Assessment of effective weed control measures in direct seeded paddy	CRRI, Cuttack	Direct seeded paddy	1	-	2	Demonstration of herbicide spray and co culture of Sesbania
2	Assessment of drought tolerant Ground nut varieties	TNAU, Coimbatore	Ground nut	1	-	2	Demonstration of line sowing and gypsum application and foliar spray of micro nutrient
3	Assessment of different Ragi varieties for salt affected soil	GKVK, UAS, Bangalore	Ragi	1	-	3	Method demonstration on soil reclamation using gypsum, ZnSO <sub>4</sub> application, salt resistant varieties, ICMP, field visit, oncampus and off-campus training
4	Assessment of suitable CO (hy) 1 Bhendi hybrid for Cuddalore district	TNAU, Coimbatore	Bhendi	1	-	2	Method demonstrations on seed treatment, planting method and IPM, field visit, on-campus and off-campus training
5	Assessment of suitable brinjal hybrid for Cuddalore district	TNAU, IIHR, KAU	Brinjal	1	-	2	Method demonstrations on seed treatment, planting method and IPM, and field visit
6	Assessment of different management strategies to mitigate drought in rice fallow pulses	TNAU and CRIDA	Rice fallow pulses	1	-	2	Demonstration like drought mitigation strategies, time and methods of application of KCL
7	Assessment of coco peat bioconversion techniques and its performance under protray nursery	IIHR and TNAU	Media preparation for vegetables	1	-	2	Demonstration on bed formation and inoculation of microbial consortia.
8	Demonstration of rice CO 51	TNAU, Coimbatore	Paddy	-	1	2	Method demonstrations on seed treatment, planting method and IPM and field visit
9	Demonstration of TNAU rice TRY 3 in salt affected soils.	TNAU, Coimbatore	Paddy	-	1	2	Method demonstrations on seed treatment, planting method and IPM and field visit

10	Demonstration of drought	TNAU,	Direct seeded				Demonstration like drought
	of drought management technology	Coimbatore	paddy	_	1	3	mitigation strategies, time and methods of application PPFM and KCL
	packages in direct sown paddy						
11	Demonstration and farmers participatory	TNAU, 2009	Paddy				Demonstration of sowing A, B and R lines, rouging, removal of off type's removal, INM,
	seed production of paddy variety ANNA 4 for rain fed areas			-	1	2	IPM.
	of Cuddalore district						
12	Demonstration of chiseling in ground nut under alfisols	CPG,2012	Ground nut	-	1	2	Method demonstration of land preparation, gypsum application, micro nutrient application
13	Demonstration of post emergence herbicide for black gram	CPG,2012	Black gram	-	1	2	Method demonstrations on seed treatment, planting method and IPM, DAP foliar spray and field visit
14	Demonstration of high density planting method in banana	CPG,2011	Banana		1	2	Demonstration of sucker treatment, ICMP, field visit, IPM, on-campus and off- campus training
15	Demonstration of IDM for rhizome rot in turmeric	TNAU, 2011	Turmeric	-	1	2	Demonstration of rhizome treatment, ICMP, field visit, IPM, on-campus and off- campus training
16	Demonstration of Blackgram MDU 1	TNAU, 2014	Black gram	-	1	2	Method demonstrations on seed treatment, planting method and IPM, DAP foliar spray and field visit
17	Demonstration of Bush type lablab CO (GB) 14	TNAU, 2007	lablab	-	1	2	Method demonstrations on seed treatment, planting method and IPM, field visit, on-campus and off-campus training
18	Demonstration of Fodder sorghum CO 31	TNAU	Fodder sorghum	-	1	1	Method demonstrations planting method, field visit
19	Demonstration of enriching and ensiling of sugarcane tops for higher milk yield in cows	TANUVAS	Livestock	-	1	2	Demonstration of ensiling sugarcane tops with urea and molasses and formation of heap and field visit

20	Integrated	TNAU	Farming system	-	1	4	Demonstration of IFS system,
	Farming						on-campus and off-campus
	system-wet						training
	land and dry						
	land						

#### 3.B2 contd..

	No. of farmers covered														
	OFT FLD Training Extension activities											ies			
Gen	eral	SC	/ST			/ST	Gen	General SC/ST			General		SC/ST		
M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
27	3	4	-	64	3	7	-	2422	820	983	499	3232	873	553	198

#### **PART IV - ON FARM TRIAL**

#### 3. 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	1	1			2					4
Evaluation	1	1	_	-	2	_	-	-	-	4
Integrated										
Crop	1		1	-	-	-	-	-	-	2
Management										
Resource										
Conservation	-	-	-	-	-	-	-	-	-	-
Technology										
Others					1					1
Total	2	1	1	-	3	-	-	-	-	7

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	Сгор	Name of the technology assessed	No. of trials	Number of farmers	Area in ha (Per trial covering all the Technological Options)
Varietal Evaluation	Ragi	Assessment of different Ragi varieties for salt affected soil	5	5	2 ha
	Ground nut	Assessment of drought tolerant Ground nut variety	3	3	1.2 ha
	Bhendi	Assessment of suitable CO (hy) 1 Bhendi hybrid for Cuddalore district	5	5	2 ha
	Brinjal	Assessment of suitable brinjal hybrid for Cuddalore district	10	10	2.5 ha

Integrated Crop Management		Assessment of effective weed control measures in direct seeded paddy	5	5	2.0 ha
	pulses	Assessment of different management strategies to mitigate drought in rice fallow pulses	10	10	2.0 ha
	-	Assessment of cocopeat bioconversion techniques and its performance under protray nursery	5	5	-
Total	7		43	43	16.1

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

### **Results of On Farm Trial**

OFT 1: Assessment of drought mitigation strategies for rice fallow pulses

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trial s	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinem ent needed	Justifica tion for refineme nt
1	2	3	4	5	6	7	8	9	10	11	12
Blackgram	Rice fallow	Water scarcity and less care	Assessment of different management strategies to mitigate drought in rice fallow pulses	10	TO <sub>1</sub> – Farmers' practice (Spraying of KCl @ 1%)  TO <sub>2</sub> - Spraying of PPFM@ 200ml/ac at boot leaf stage and PI  TO <sub>3</sub> - Spraying of Bacterial consortia (PT+B30+G12)	No. of Pods/plant No. of seeds/pod Seed Yield kg/ha	6  454.2 (Results on the TO <sub>2</sub> – the best technology alone given here)	Spraying of PPFM @ 200 ml/ac at Flowering stage increased the no of pods/plant, Seeds/pod and seed yield.	Spraying of PPFM @ 200 ml/ac at flowering was easy and observed more yield even under stress condition	No	Does not arise

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option: 1 (Farmers' practice - Spraying of KCL @ 1%)	TNAU	364.0	kg/ha	5520	1.38
Technology option 2: Spraying of PPFM @ 200 ml/ac at boot leaf stage and PI	TNAU	454.2	kg/ha	10,481	1.72
Technology option 3: Spraying of Bacterial consortia (PT+B30+G12) at 30 DAS	CRIDA	409.4	kg/ha	8,017	1.55

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

1.	Title of Technology Assessed	:	Assessment of differice fallow pulses	rent manag	ement strategi	es to mitigat	e drought in				
2.	Problem Definition	:	<ul><li>Low moisture</li><li>Drought and r crop yield</li></ul>	_	_		ection in the				
3.	Details of technologies selected for assessment	:	Technology option 1 Spraying of KCl @ 1%	1 option 2 Spraying of Bacterial Spraying of KCl Spraying of PPFM @ consortia							
4.	Source of technology	:	Farmers' practice TNAU								
5.	Production system and thematic area	:	Crop management	Crop management							
6.	Performance of the Technology with performance indicators	:	The growth and yie following applications Spraying of PPFN number of pods/pl (19.8 % increases options viz., Spray consortia (PT+B30+G12) has farmer's practice) a	on of differ  1 @ 200 m  ant, number  d yield over  ving of KC  +G12). However also increases	rent mitigation onl/ac at flower of seeds/poer control)w 1 @ 0.1% an ovever, spraying reased the yields	n strategies.  ering have  od and grain  hen compa  d spraying  g with Bact  eld (11.1 %	Among them, increased the in yield per ha ared to other with Bacterial erial consortia increase over				
7.	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques		Spraying of DAP  85 %	Spraying KCl 55 %	Agronomic practices 75%	Seed treatment 55%	Post harvest technology 65%				
8.	Final recommendation for micro level situation	:	Spraying of PPFM @ 200 ml/ac flowering is suitable for rice fallow pulses cultivation in Cuddalore district.								
9.	Constraints identified and feedback for research	:	Nil								
10.	Process of farmers participation and their reaction	:	The farmers have realized the use and effect of mitigation practices on crop growth and yield. The farmers were fully aware about benefits of the mitigation strategies tested in the OFT.								

**OFT 2:** Assessment of drought tolerant ground nut varieties

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Ground nut	Rain fed	Water scarcity and lack of awareness about the drought tolerant varieties	Assessment of drought tolerant ground nut varieties	3	TO <sub>1</sub> – Farmers' practice (VRI-2)  TO <sub>2</sub> – Ground nut variety CO7  TO <sub>3</sub> – Ground nut variety Kadiri 9  TO <sub>3</sub> . Ground nut variety GJG-17	1.No.of pods/plant (Nos.) 2.100 seed weight (g) 3.Yield (kg/ha)	21 48.9 2350	Ground nut variety CO 7 performed better than farmers practice, which is 24.6 per cent higher than the farmers practice of VRI 2.	Farmers were satisfied with the CO7 ground nut performance. It withstand early drought well when compared to other varieties.	Nil	Doesn't arise

Technology Assessed	Source of Technology Production Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)		Net Return (Profit) in Rs. / unit	BC Ratio	
13	14	15	16	17	18
Technology option 1 – Farmers' practice (VRI 2)	-	1770	kg/ha	88,117	2.7
Technology option 2 - CO7	TNAU	2350	kg/ha	1,14,366	3.5
Technology option 3 - Kadiri 9	ANGRAU	2085	kg/ha	97,817	3.0
Technology option 4 - GJG 17	JAU	1950	kg/ha	89,383	2.7

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

1.	Title of Technology Assessed	:	Assessment of	of drought tolerant g	round nut varie	ties					
2.	Problem Definition	:	Water scarci varieties	ty and lack of aware	eness about the c	drought to	lerant				
3.	Details of technologies selected for assessment	:	Farmers practice	Technology option	Technolog option 2	•	echnology option 3				
			VRI 2	CO-7	Kadiri 9	Kadiri 9 GJ0					
4.	Source of technology	:	TNAU	TNAU TNAU ANGRAU JAU							
5.	Production system and thematic area	:	Rain fed and	Rain fed and varietal evaluation							
6.	Performance of the Technology with performance indicators	:	Ground nut ( (1950 kg /ha	The highest yield under rain fed situation was obtained in CO-7 Ground nut (2350 kg/ha) variety than Kadiri 9 (2085 kg/ha), GJG-17 (1950 kg /ha) and farmers practice of VRI 2.CO7 ground nut variety recorded 24.6 % higher yield than farmers practice (VRI 2)							
7.	Feedback, matrix scoring of various technology parameters done through farmer's		Seed treatme / seedling di	U	INM	IPM	Post harvest technology				
	participation / other scoring techniques		45%	80%	70%	65%	60%				
8.	Final recommendation for micro level situation	:		Ground nut variety CO 7 performs better under rain fed situation of Cuddalore district.							
9.	Constraints identified and feedback for research	:	Constraints identified were nil and use of micro sprinkler under drought through harvested water has to be studied.								
10	Process of farmers participation and their reaction	:	Demonstration of gypsum application in ground nut was produced higher yield and farmers were satisfied with the increased pod yield.								

OFT 3: Assessment of effective weed control measures in direct seeded paddy

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Direct seeded paddy	Irrigated	Weeds causes the yield loss up to 60 % and farmers are not known about the suitable method of weed control	Assessment of effective weed control measures in direct seeded paddy	5	TO <sub>1</sub> – Hand weeding thrice (15,30 & 45 DAS)  TO <sub>2</sub> – Pretilachlor - 0.45 kg /ha-3DAS, Azimsulfuron 50 DF35 g/ha-20 DAS, Hand weeding -45 DAS  TO <sub>3</sub> – Co culture of Sesbania aculata & Killing the sesbania at 25-30 DAS using 2,4 D ester 0.4 - 0.5 kg/ha  TO <sub>3</sub> . Bispyribac (25 gai/ha) + azimsulfuron (17.5 g ai/ha)-15-25 DAS	Total no.of weeds (Grasses, BLW and sedges)/ m <sup>2</sup> No. of tillers/hill  1000 seed weight (g)  Yield (kg/ha)	25 14 25.8 4914	The application of Bispyribac (25 g ai/ha) + azimsulfuron (17.5 g ai/ha) on 15-25 DAS recorded 31.2 per cent higher income than the hand weeding. But with regard to yield (5049 kg/ha) and no.of weed (17/m2) hand weeding recorded better than other treatments	(17.5 g ai/ha)	-	Doesn't arise

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 – Hand weeding thrice (15,30 & 45 DAS)	-	5049	kg/ha	17,729	1.47
Technology option 2 – Pretilachlor -0.45 kg /ha-3DAS,Azimsulfuron 50 DF35 g/ha-20 DAS, Hand weeding -45 DAS	TNAU CPG (2012)	4996	kg/ha	19,242	1.78
Technology option 3 – Co-culture of <i>Sesbania aculata</i> & Killing of Sesbania at 25-30 DAS using 2,4 D ester 0.40-0.5 kg/ha	NAIP Recommendation, ICAR, New Delhi, (2010)	4838	kg/ha	24,849	1.87
Technology option 4– Bispyribac (25 gai/ha) + azimsulfuron (17.5 g ai/ha)-15-25 DAS	CRRI, Cuttack (2009)	4914	Kg/ha	25,779	1.91

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

1.	Title of Technology Assessed	:	Assessment of effective weed control measures in direct seeded paddy							
2.	Problem Definition	:		Weeds causes the yield loss up to 60 % and farmers are not known about the suitable method of weed control						
3.	Details of technologies selected for assessment	:	Farmers practice			Technology option 2		Technology option 2		Technology option 3
			Hand weeding thrice 15,30 &45 DAS	Pretilachlor - 0.45 kg /ha- 3DAS,Azimsulf uron 50 DF35 g/ha-20 DAS, Hand weeding - 45 DAS		Co-culture of Sesbania acula & Killing the Sesbania at 25 DAS using 2,4 ester 0.40-0.5 kg/ha		ata ga az -30 (1		pyribac (25 /ha) + msulfuron .5 g ai/ha)-15- DAS
4.	Source of technology	••	- TNAU CPG (2012)			NAIP Recommendation, ICAR, New Delhi, (2010)			CR	RI, Cuttack (2009)
5.	Production system and thematic area	••	Irrigated and crop management							
6.	Performance of the Technology with performance indicators	••	on 15-25 D. weeding .Bu	AS re	ecorded 31.2 regard to yie	per eld	cent higher	inco and	ome	n (17.5 g ai/ha) than the hand f weed (17/m²)
7.	Feedback, matrix scoring of various technology parameters done through farmer's		Seed treatme seedling d				INM	IP	M	Post harvest technology
	participation / other scoring techniques		50%		75%	70%		60	%	60%
8.	Final recommendation for micro level situation	:	The highest net return was obtained in the application of Bispyribac (25 g ai/ha) + azimsulfuron (17.5 g ai/ha) on 15-25 DAS. But with respect to yield and no.of weeds/m2 area, farmers practice (hand weeding) was recorded better than remaining treatment.							
9.	Constraints identified and feedback for research	:	Constraints identified is nil and Machine has to be provided to the farmer at subsidized, price to encourage co culture							
10	Process of farmers participation and their reaction	:		_	_		oicide applica			co -culture of easures.

# 4. D1. Results of Technologies Refined:

OFT 4: Assessment of Ragi varieties for salt affected soils

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Ragi	Irrigated	Poor soil properties and cultivation of local variety leads to lower productivity in sodic soil	Assessment of Ragi varieties for salt affected soils	5	TO <sub>1</sub> Local variety TO <sub>2</sub> - TRY 1 TO <sub>3</sub> - Co (Ra) 15 TO <sub>4</sub> - ML 365	Finger length (cm) No. of tillers/hill (Nos) Yield (kg/ha)	11 10.00 3492	ML 365 Ragi variety may be recommended for salt affected soils of Cuddalore district during samba season for getting higher return.	ML 365 ragi variety performed well under salt affected soil		Doesn't Arise

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 – Farmers' practice (VRI2)	FR	2386	kg/ha	18,948	1.8
Technology option 2 - TRY 1	TNAU	2606	kg/ha	22,908	1.95
Technology option 3 - Co (Ra) 15	TNAU	3132	kg/ha	32,376	2.4
Technology option 4 - ML 365	GKVK, UAS, Bengaluru	3492	kg/ha	38,856	2.6

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

1.	Title of Technology Assessed	:	Assessment of	of Ragi varieti	es for salt	affected s	oils				
2.	Problem Definition	:	Poor soil properties and cultivation of local variety leads to lower productivity in sodic soil								
3.	Details of technologies selected for assessment	:	Local variety	TRY 1	Co (	Ra) 15	ML 365				
4.	Source of technology	:	FR	TNAU	TN	NAU	GKVK, UAS, Bengaluru				
5.	Production system and thematic area	:	Irrigated; Va	rietal evaluation	on						
6.	Performance of the Technology with performance indicators	:	Cultivation of ML 365 Ragi variety recorded 31.6 % higher grain yield over local variety. ML 365 also recorded more number of tillers and higher finger length than others								
7.	Feedback, matrix scoring of various technology parameters done through farmer's	:	is very good	Performance of ML 365 Ragi variety under salt affected soil is very good and produced more tillers per hill and is found to be resistant to pest and diseases.							
	participation / other scoring techniques		Soil reclamation	Agronomic practices	INM	IPM	Post harvest technology				
			45 %	75 %	65 %	50 %	65 %				
8.	Final recommendation for micro level situation	:		dalore district			or salt affected on for getting				
9.	Constraints identified and feedback for research	:	Nil								
10.	Process of farmers participation and their reaction	:	Farmers have actively participated in each and every activity in conducting OFT. The performance of ML 365 Ragi variety and its efficiency under sodic soil conditions were well understood by the farmers. One of the farmers followed the system of Ragi cultivation technique and recorded higher yield.								

OFT 5: Assessment of suitable Co (hy) 1 Bhendi hybrid for Cuddalore 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
1	2	3	4	5	6	7	8	9	10	11	12
Bhendi	Irrigated	Low yield from private hybrid High incidence of yellow vein mosaic disease	Assessment of suitable bhendi hybrid in cuddalore district	5	TO <sub>1</sub> – Farmers' Practice (Private hybrid)  TO <sub>2</sub> – Co Bh (Hy)- 1  TO <sub>3</sub> – Kasi bairav (IIVR, 2002)	Yield (kg/ha)  Net return  Yellow vein mosaic disease (%)	11827 kg/ha  Rs 53616  3.15 % (Results on the TO <sub>2</sub> – the best technology alone given here)	Co (Bh) Hy-1 is performed better and yielded high fruit yield.	The yellow vein mosaic disease is low in the Co (Bh) Hy-1	No	Does not arise

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option :1 (Farmers' practice – Private hybrid)		9844	kg/ha	37752	1.92
Technology option 2: Co Bh (Hy)-1	TNAU	11827	kg/ha	53616	2.30
Technology option 3: Kasi bairav	IIVR	10075	kg/ha	39600	1.97

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

1.	Title of Technology Assessed	:	Assessment of suitab	ole bhendi hybri	d in cudda	lore dis	trict							
2.	Problem Definition	:		n private hybrid ness on high yie		id								
3.	Details of technologies selected for assessment	:	Technology option  Private Hybrid	1 Technolog	•		hnology option 3: Kasi bairav							
4.	Source of technology	:	Farmers' practice	TNA	AU		IIVR							
5.	Production system and thematic area	:	Irrigated and crop m	anagement		•								
6.	Performance of the Technology with performance indicators	:	The Co (Bh) Hy- 1 h yield of 11827 kg/ha The private hybrid return is also more for to other hybrid.	a when compare yielded only 98	ed to Kasi 344 kg of	bairav fruits 1	(10,075 kg/ha). per ha. The net							
7.	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring		Seed treatment /	Agronomic practices	INM 75%	IPM 45%	Post harvest technology							
	techniques scoring		3370	0070	7570	1570	3370							
8.	Final recommendation for micro level situation	:	Co (Bh) Hy- 1 hybryellow vein mosaic district.											
9.	Constraints identified and feedback for research	:												
10.	Process of farmers participation and their reaction	:	The farmers have re by means of high yie											

OFT 6: Assessment of suitable brinjal hybrid for Cuddalore 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
1	2	3	4	5	6	7	8	9	10	11	12
Brinjal	Irrigated	local varieties prone to shoot and fruit borer lack of awareness about high yielding varieties	Assessment of suitable brinjal hybrid for Cuddalore district	10	TO <sub>1</sub> .Farmers practice (local Hybrid) TO <sub>2</sub> . Arka keshav TO <sub>3</sub> .Neelima	No.of fruits/plant Single fruit weight (g) Fruit yield /ha Net return(Rs.)		Trial	is under prog	gress.	

## Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 – Farmers' practice -(local Hybrid)	-				
Technology option 2 - Arka keshav hybrid	IIHR, Bangalore	Nursery raised in Jar	a, 2015 and transplanted in Feb. The trial is in pro	ogress. The crop is in har	evesting stage.
Technology option 3 - Neelima hybrid	KAU-ARS, Manuuthy				

OFT 7: Assessment of coco peat bioconversion techniques and its performance under protray nursery

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trial s	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessmen t	Feedback from the farmer	Any refinement needed	Justificatio n for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Enterprise	Irrigated	Non availability of well matured coco peat and long duration for bioconversion of coco pith	Assessment of coco peat bioconversion techniques and its performance under protray nursery	5	TO 1 – Farmers' practice (VRI2) TO 2 - Raw coco pith + urea + Pleurotus Layering method - 3 months TO 3 - Raw coco pith+ urea+ fungal consortium + enrichment with Arka microbial consortium as - Layering method (1 month)	C: N ratio Time taken to maturity Seed germination Seedling shoot and root length	using the c	nverted cocop ocopeat will b ratio is assess coco	e taken in Ju ed from the b	ne and July,	Doesn't Arise

### Contd..

Technology Assessed	Source of Technology	C: N ratio (After conversion)	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 – Farmers' practice (VRI2)	-	60:1			
Technology option 2 - Raw coco pith + urea + <i>Pleurotus</i> Layering method - 3 months	TNAU, Coimbatore	23:1			
Technology option 3 - Raw coco pith+ urea+ fungal consortium + enrichment with Arka microbial consortium as - Layering method (1 month)	IIHR, Bangalore	22:1			

## PART. V - FRONTLINE DEMONSTRATIONS

# 5. A. Summary of FLDs implemented during 2014-15

Sl. No.	Category	Farming Situation	Season and Year	Crop	Variety/ breed	Hy bri d	Thematic area	Technology Demonstrated	Area	ı (ha)		of farme nonstratio		Reaso ns for shortfa Il in achiev ement
									Propos ed	Actual	SC/ST	Other s	Tota l	
1	Pulses	Irrigated	Rabi, 2014	Black gram	MDU-1	-	Variety demonstration	Demonstration of Blackgram MDU 1	4	4.0	-	10	10	
2		Irrigated	Rabi, 2014	Black gram	VBN 4	-	Variety demonstration	Demonstration of post emergence herbicide for black gram	2.4	4.8	2	4	6	-
3	Cereals	Irrigated	Kurvai, 2014	Paddy	CO-51	-	Variety demonstration	Demonstration of rice CO 51	4	2.4	-	10	10	
4		Irrigated	Samba season, 2014	Paddy	TRY-3	-	Variety demonstration	Demonstration of TNAU rice TRY 3 in salt affected soils	4	4	-	10	10	-
5		Irrigated	Samba, 2014	Paddy	Anna-4	-	Crop management	Demonstration of drought management technology packages in direct sown paddy	4	4	-	10	10	-
6		Irrigated	Samba, 2014	Paddy	Anna-4	-	Seed production	Demonstration and farmers participatory seed production of paddy variety ANNA 4 for rain fed areas of Cuddalore district	4	4	-	10	10	-
7	Oil seeds	Rain fed	Late Kharif	Ground nut	JL24	-	Crop management	Demonstration of chiseling in ground nut under alfisols	4	4	2	8	10	-
8	Vegetables	Irrigated	Throughout the year	Bush type Lablab	CO (GB)14	-	Varietal demonstration	Demonstration of Bush type lablab CO (GB) 14	4	4	4	6	10	-
9		Irrigated	May-June	Turmeric	Erode local	-	Crop management	Demonstration of IDM for rhizome rot in turmeric	2	2	2	3	5	-
10	Fruit	Garden land	Jan-feb	Banana	Poovan	-	Crop management	Demonstration of high density planting method in banana	2	2	-	5	5	-
11	Others Fodder	Irrigated	Through out the year	Fodder sorghum	CO 31	-	Crop management	Demonstration of Fodder sorghum CO 31	4	4	3	7	10	-
12	Livestock	-	Throughout the year	Sugarcane tops	-	-	Nutrient management	Demonstration of enriching and ensiling of sugarcane tops for higher milk yield in cows	2	2	-	5	5	-
13	Special programme on Integrated Farming system	Wet land and dry land	NEM season	Paddy, maize, black gram & Fodder crops	Vanaraja- 150 chicks Tellicherry goat-4 nos.	-	Farming system	IFS as a special programme wet land  Dry land	2 (units) 2 (units)	2 (units) 2 (units)	1	3	4	-

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

Sl. No.	Category	Farming Situation	Season and Year	Сгор	Variety/ breed	Hybrid	Thematic area	Technology Demonstrate d	Season and year	S	tatus soil		Previous crop grown
										N	P	K	
1	Pulses	Irrigated	Rabi, 2014	Black gram	MDU-1	-	Variety demonstration	Demonstratio n of Blackgram MDU 1	Rabi 2014	L	M	Н	Paddy
2		Irrigated	Rabi, 2014	Black gram	VBN- 4	-	Variety demonstratio n	Demonstratio n of post emergence herbicide for black gram	Rabi 2014	L	M	Н	Paddy
3	Cereals	Irrigated	Kurvai, 2014	Paddy	CO-51	-	Variety demonstration	Demonstratio n of rice CO 51	Kurvai, 2014	L	L	Н	Black gram
4		Irrigated	Samba season, 2014	Paddy	TRY-3	-	Variety demonstration	Demonstratio n of TNAU rice TRY 3 in salt affected soils	Samba season, 2014	L	M	Н	Black gram
5		Irrigated	Samba, 2014	Paddy	Anna-4	-	Crop management	Demonstratio n of drought management technology packages in direct sown paddy	Samba, 2014	L	M	M	Black gram
6		Irrigated	Samba,2014	Paddy	Anna-4	-	Seed production	Demonstratio n and farmers participatory seed production of paddy variety ANNA 4 for rain fed areas of Cuddalore district	Samba,2014	L	M	Н	Black gram

7	Oil seeds	Rain fed	Adi pattama	Ground nut	JL24	-	Crop management	Demonstratio n of chiseling in ground nut under alfisols	Adi pattam	-	L	M	Н	Black gram
8	Vegetables	Irrigated	Throughout the year	Bush type Lablab	CO (GB)14	-	Varietal demonstration	Demonstratio n of Bush type lablab CO (GB) 14	Throughout t year	ne	L	M	Н	Vegetabl es
9		Irrigated	May-June	Turmeric	Erode local	-	Crop management	Demonstratio n of IDM for rhizome rot in turmeric	May-June	]		L	Н	Banana
10	Fruit	Garden land	Jan-feb	Banana	Poovan	-	Crop management	Demonstratio n of high density planting method in banana	Jan-Feb		L	M	Н	Vegetabl es
11	Others Fodder	Irrigated	Throughout the year	Fodder sorghum	CO 31	-	Crop management	Demonstratio n of Fodder sorghum CO 31	Throughout t year	ne :	L	M	Н	Maize
12	Livestock	-	Throughout the year	Sugarcane tops	-	-	Nutrient management	Demonstratio n of enriching and ensiling of sugarcane tops for higher milk yield in cows	Throughout t year	ne -			-	-
13	Integrated Farming system	Wet land and dry land	NEM season	Paddy, maize, black gram & Fodder crops	Vanaraja -150 chicks Tellicher ry goat-4 nos	-	Farming system	IFS as a special programme wet land Dry land	NEM season		L	M	Н	Paddy

# **5.B.** Results of Frontline Demonstrations

## **5.B.1.** Crops

	Name of the		Н	Farmi	No.			Yield	(q/ha)		%		Econon enstration		ha)	*Ec	onomics (Rs./		eck
Crop	technology demonstrate d	Variety	y b ri d	ng situati on	of De mo.	Area (ha)		Demo		Chec k	Incr ease	Gross Cost	Gros s Retu rn	Net Retu rn	** BC R	Gros s Cost	Gros s Retu rn	Net Retu rn	** BC R
							H	L	A										
Pulses	Demonstratio n of Black gram MDU 1	MDU-1	-	Irrigat ed	10	2	8.40	6.80	7.60	6.25	21.6	19500	4750 0	2800	2.4 4	1950 0	3906 3	1956 3	2.0
	Demonstratio n of post emergence herbicide for black gram	VBN-	-	Irrigat ed	12	4.8	9.26	6.43	7.72	6.90	11.8	30392	6075	3035 8	1.9	2394	5565 0	2725 8	1.9
Cereals	Demonstratio n of rice CO 51	CO-51	-	Irrigat ed	10	2.4	58.6 3	49.7 5	54.7 3	49.7 5	10.0	33,680	82,09 5	48,4 15	2.4	33,6 80	73,1 25	39,4 45	2.1
	Demonstratio n of TNAU rice TRY 3 in salt affected soils	TRY-3	-	Irrigat ed	10	4	65.6	54.3 8	57.6 4	47.2 5	22.0	35,120	86,46 0	51,3 40	2.4 6	33,4 50	70,8 75	37,4 25	2.1
	Demonstratio n of drought management technology packages in direct sown paddy	Anna 4	-	Rainfe d	10	4 ha	46.3	38.1	40.7	37.5	8.74	36,550	81,42 8	44,8 78	2.2	37,9 50	77,3 45	39,3 95	2.0

	Demonstratio n and farmers participatory seed production of paddy variety ANNA 4 for rain fed areas of Cuddalore district	Anna-4	-	Irrigat ed	10	2	44.2	46.5	43.3	36.8 0	17.6 6	35,500	58,63 0	4244 0	2.1	36,2 00	6624	3074	1.8
Oil seeds	Demonstratio n of chiseling in ground nut under alfisols	JL24	-	Rain fed	10	4	23.5	18.0	21.5	18.1 4	16.9 0	32,500	1,18, 305	85,8 05	2.6 4	31,5 00	99,7 70	68,2 70	2.1
Vegetabl es	Demonstratio n of Bush type lablab CO (GB) 14	CO (Gb)14	-	Irrigat ed	24	4	88.9 0	68.4	74.5 0	52.1 0	42.9 9	28,000	1458 20	1178 20	5.2	2546 0	8145 2	5599 2	3.1
Spices and Condime nts	Demonstratio n of IDM for rhizome rot management in turmeric	Erode local		Irrigat ed	5	2.5 ha	87.8 8	81.4	85.6 2	75.5 0	13.4	41750	1,858 86	1541 36	4.4 5	30,1 52	1,66, 052	1259 00	4.1
	Demonstratio n of high density planting in banana	Poovan		Irrigat ed	5	2.5 ha	472. 5	412. 7	452. 0	348. 0	29.8	58,750	1,953 06	1,36 556	3.3	56,7 45	15,3 462	1,47 817	2.7
Others Fodder	Demonstratio n of Fodder sorghum CO 31	Co 31	-	Irrigat ed	10	4	147 5 tonn e	115 2 tonn e	132 3 tonn e	1	-	25,000	1,120 00	7700 0	4.1	1.The farmer cultiva only sorghum CO 31 a used for fodder purpose  2. The farmers have use their own paddy stravailable nearby place. check value is calculated			and e used straw

Livestoc k	Demonstratio n of enriching and ensiling of sugarcane tops for higher milk yield in cows	-	-	-	5	2	14	9	12	10	16	15,120	40,52 0	2540 0	2.6 7	16,0 00	36,0 00	20,0	2.2
Poultry	Demonstratio n of Nandhanam II Turkey	Nandhan am II turkey	1						The de	emonstra	ation wi	thheld du	e to budį	get cons	traint.				
Special program me on Integrate d Farming	IFS as a special programme - Wet land	Vanaraja -150 chicks	1	Wet land	2	2 (units )	61.2	50.5	55.8 5	48.3	15.6	1,21,4 48	42,01 53	2 98,7 05	3.4 5	78,5 20	2,84, 560	2,06, 040	3.6
system		Tellicher ry goat-4 nos	ı	Dry land	2	2 (units )	5.6	4.5	5.05	4.2	20.4	24,270	56,16 0	32,0 90	2.3	1,12, 50	20,1 57	89,0 7	1.7 9
FLD conducte d during 2013-14	Demonstratio n of Arka meghana chilli hybrid in cuddalore district	Arka meghana chilli seed		Irrigat ed	10	2	302	275	282. 00	324. 00	12.9 6	42450	1452 80	1028 30	3.4	4275 4	1678 52	1250 98	3.9

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

\*\* BCR= GROSS RETURN/GROSS COST

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

### 1. A. Integrated Farming System - Wet land situation – 2014-15

	Name of the	Farming	Components	No. of	Area	*Econom	ics of demo	nstration (I	Rs./ha)	:	*Economics (Rs./		
Стор	technology demonstrated	situation	included	Demo.	(ha)	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Farming system	Integrated Farming System	Wet land	Crop ,Fish, poultry	2	3	1,21,448	4,20,153	2,98,705	3.45	78,520	2,84,560	2,06,040	3.62

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

Data on othe	r parameters	in relation to technology	demonstrated	Check					
Parameter with unit	Total cost	Gross return	Net return	Total cost	Gross return	Net return			
Crop(Rice-rice)	81,245	3,12,450	2,31,205	78,520	2,84,560	2,06,040			
Fish	37,003	85,753	48,750	-	-	-			
Chicks	3200	21,950	18,750	-	-	-			

## Comparison of conventional cropping system and integrated cropping system

Components	Cost of cultivation	Gross return	Net return	B:C ratio	Employment generation (man days/year)
Conventional cropping	78,520	2,84,560	2,06,040	1:32	785
IFS	1,21,448	4,20,153	2,98,705	1:35	912
Additional advantage of IFS over conventional cropping	- 86188 (additional expenditure)	135593	92665	-	127 man days

1.B. Integrated Farming System - Dry land situation – 2014-15

~	Name of the	Harming	ing Components	No. of	No. of Area *Economics of demonstration (Rs./ha)						*Economic (Rs./				
Стор	technology demonstrated	situation	included	Demo.		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR		
Farming system	Integrated Farming System	Dry land	Crop, fodder and goat	2	2	24,270	56,160	32,090	2.31	11,250	20,157	8907	1:1.79		

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

Data on other	er parameters	s in relation to technology	demonstrated	Check					
Parameter with unit	Total cost	Gross return	Net return	Total cost	Gross return	Net return			
Crop (Food)	7245	19,090	11,845	11,250	20,157	8907			
Crop (Fodder)	4275	9520	5245	-	-	-			
Goat	12,750	27,550	15,000	-	-	-			

### Comparison of conventional cropping system and integrated cropping system

Components	Cost of cultivation	Gross return	Net return	B:C ratio	Employment generation (man days /year)
Conventional cropping	11,250	20,157	8907	1:1.79	96
IFS	24,270	56,160	32090	1:2.31	365
Additional advantage of IFS over conventional cropping	13,020	3600	23183	-	269

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

Data on o	other parameters in relation to technology dem	onstrated
Parameter with unit	Demo	Check
FLD 1. Demonstration of Black gram	MDU 1	l
No.of pods/plant	30	26
No.of seeds /pod	7.4	6.2
FLD 2. Demonstration of post emerge	nce herbicide for black gram	
No.of pods/plant	22.2	18.4
100 seed weight	82	75
FLD 3. Demonstration of rice CO 51		
No.of productive tillers /hill	22.5	20.0
No.of grains/panicle	184.5	165
FLD 4. Demonstration of TNAU rice	TRY 3 in salt affected soils	
No.of productive tillers /hill	25.7	21.2
No.of grains/panicle	139.9	118.5
FLD. 5. Demonstration of drought ma	nagement technology packages in direct sown p	paddy
No.of productive tillers /hill	17	11
No.of grains/ panicle	198	174
FLD 6. Demonstration and farmers pa Cuddalore district	articipatory seed production of paddy variety A	NNA 4 for rain fed areas of
No.of productive tillers /hill	16	10
No.of grains/panicle	205	187
FLD 7. Demonstration of chiseling in	ground nut under alfisols	1
No. of pods/plant	15	12
100 seed weight	38	35
FLD 8. Demonstration of Bush type la	ıblab CO (Gb) 14	1
No.of pods/plant	18	12
FLD 9. Demonstration of IDM for rhizo	me rot in turmeric	
Rhizome rot incidence	4.10	19.15
No.Of Fingers /Plant	8.75	6.05
FLD 10. Demonstration of high densit	y planting method in banana	1
No. of hands /bunch	15.45	13.75
No. of fingers/bunch	262	240
FLD 12 Demonstration of enriching a	nd ensiling of sugarcane tops for higher milk yi	eld in cows
Palatability	Palatability is good	Not palatable
Intake /day	2.3 kg/day	1.5 kg/day
FLD 13 Demonstration of Fodder sorg	ghum CO 31	1
No. of 4:11-no/olou4	17	
No.of tillers/plant	17	15

5.B.2. Livestock and related enterprises : Nil
5.B.3. Fisheries : Nil
5.B.4. Other enterprises : Nil
5.B.5. Farm implements and machinery : Nil

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

Sl.No.	Activity	No. of activities organized	Number of participants	Remarks
1	Field days	5	250	-
2	Farmers Training	20	4724	-
3	Media coverage (Radio programme)	9	Entire district	-
4	Training for extension functionaries	2	120	-
5	Others (Please specify)  a. Extension literatures prepared and distributed	10	100	-
	b. News paper coverage	37	Entire district	

### PART VI – DEMONSTRATIONS ON CROP HYBRIDS

Demonstration details on crop hybrids: Demonstration of Arka meghana chilli hybrid in cuddalore district (FLD conducted during 2013-14)

Crop	Name of the Hybrid	No. of farmers	Area (ha)	-	ramet	er	Economics (Rs./ha)					
				Demonst- ration	Local check	% change	Gross Cost	Gross Return	Net Return	BCR		
Chilli	Arka meghana	10	2.5	282.0	324.0	-12.96	42450	145280	102830	3.42		
Others (Specify)												

H-High L-Low, A-Average

<sup>\*</sup>Please ensure that the name of the hybrid is correct pertaining to the crop specified

## PART VII. TRAINING

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

	1							No. of Participants													
	No of				No.	of Partic	ipants														
Area of training	Cours		General			SC/ST			Frand To	tal											
9	es	Mal	Femal	Tota l	Mal	Femal	Tota l	Mal	Femal	Total											
Crop Production		e	e	l I	e	е	1	е	e												
Weed Management	_	_	_	_		_	_		_												
Resource Conservation			_	_	_	_	_	_		_											
Technologies	-	-	-	-	-	-	-	-	-	-											
Cropping Systems	3	62	1	63	8	4	12	71	4	75											
Crop Diversification	-	-	-	-	-	-	-	-	-	-											
Integrated Farming	-	-	-	-	-	-	-	-	-	-											
Micro Irrigation/Irrigation	-	-	-	-	-	-	-	-	-	-											
Seed production	-	-	-	-	-	-	-	-	-	-											
Nursery management	-	-	-	-	-	-	-	-	-	-											
Integrated Crop Management	1	23	8	31	11	3	14	34	11	45											
Soil and Water Conservation	-	-	-	-	-	-	-	-	-	-											
Integrated Nutrient Management	-	-	-	-	-	-	-	-	-	-											
Production of organic inputs	-	-	-	-	-	-	-	-	-	_											
Horticulture						l .															
a) Vegetable Crops																					
Nursery raising	_	_	_	_	_	_	_	_	_	_											
Protective cultivation	_	_	_	-	_	_	_	-	_	_											
b) Fruits	.1					l .															
Micro irrigation systems of orchards	_	_	_	_	_	_	_	_	_	_											
Plant propagation techniques	_	_	_	_	_	_	_	_	_	_											
c) Ornamental Plants		<u> </u>				l															
Nursery Management	_									l _											
d) Plantation crops																					
Production and Management	1	1.5	2	47	2	0	2	50													
technology	1	45	2	47	3	0	3	50		50											
e)Tuber crops			1	1	1	T	ı	1													
Production and Management	_									_											
technology f) Spices																					
g) Medicinal and Aromatic Plants																					
Nursery management	_	_	_	_	_	_	_	_	_	_											
Soil Health and Fertility Manageme																					
Soil fertility management	_	_	_	_	_	_	_	_	_	_											
Integrated water management	1	17	12	29	_	_	_	17	12	29											
Integrated nutrient management	_	-	-	-	_	_	_	-	-												
Production and use of organic inputs		_	_	_	_	_	_	_	_	_											
Management of Problematic soils																					
Tranagement of Fronting Solls	-	-	-	-	-	-	-	-	-	-											

Micro nutrient deficiency in crops	-	-	-	-	-	-	-	-	-	-
Nutrient use efficiency	-	-	-	-	-	-	-	-	-	-
Soil and water testing	-	-	-	-	-	-	-	-	-	-

<b>Livestock Production and Managen</b>	nent									
Poultry Management	-	-	-	-	-	-	-	-	-	-
Feed and Fodder technology	-	-	-	-	-	-	-	-	-	-
Home Science/Women empowermen	nt			I.				l .		
Value addition	4	64	19	83	16	2	18	80	21	101
Location specific drudgery production	-	-	-	-	ı	-	ı	-	-	ı
Agril. Engineering										
Farm machinery and its maintenance	1	14	13	27	-	-	-	14	13	27
Integrated Pest Management	5	121	25	146	50	29	79	171	54	225
Integrated Disease Management	-	-	-	-	-	-	-	-	-	-
Bio-control of pests and diseases	-	-	-	-	-	-	-	-	-	-
Production of bio control agents and bio pesticides	-	-	-	-	-	-	-	-	-	-
Fisheries										
Integrated fish farming	-	-	-	-	-	-	-	-	-	-
Composite fish culture	-	-	-	-	-	-	-	-	-	-
<b>Production of Inputs at site</b>										
Seed Production	-	-	-	-	-	-	-	-	-	-
Planting material production	-	-	-	-	-	-	-	-	-	-
Bio-agents production	-	-	-	-	-	-	-	-	-	-
Bio-pesticides production	-	-	-	-	-	-	-	-	-	-
Bio-fertilizer production	-	-	-	-	-	-	-	-	-	-
Vermi-compost production	-	-	-	-	-	-	-	-	-	-
Organic manures production	-	-	-	-	-	-	-	-	-	-
Mushroom production	-	-	-	-	-	-	-	-	-	-
Others	5	223	21	134	23	1	16	246	22	268

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

	No. of				No.	of Partic	ipants			
Area of training	Course		General			SC/ST		(	Grand Tot	tal
	S	Male	Femal e	Total	Male	Femal e	Total	Male	Femal e	Total
<b>Crop Production</b>		•						•		
Weed Management	-	-	-	-	-	-	-	-	-	-
Resource Conservation Technologies	-	-	-	-	-	-	-	-	-	-
Cropping Systems	-	-	-	-	-	-	-	-	-	-
Crop Diversification	-	-	-	-	-	-	-	-	-	-
Integrated Farming	-	-	-	-	-	-	-	-	-	-
Micro Irrigation/Irrigation	-	-	-	-	-	-	-	-	-	-
Seed production	-	-	-	-	-	-	-	-	-	-
Nursery management	1	20	-	20	8	-	8	28	-	28
Integrated Crop Management	1	320	115	435	105	60	165	425	175	600
Soil and Water Conservation	-	-	-	-	-	-	-	-	-	-
Integrated Nutrient Management	-	-	-	-	-	-	-	-	-	-
Production of organic inputs	-	-	-	-	-	-	-	-	-	-
Horticulture	l	ı	l .	ı					l .	
a) Vegetable Crops										
Off-season vegetables	-	-	-	-	-	-	-	-	-	-
Nursery raising	-	-	-	-	-	-	-	-	-	-
Protective cultivation	-	-	-	-	-	-	-	-	-	-
b) Fruits	-	-	-	-	-	-	-	-	-	-
Training and Pruning	-	-	-	-	-	-	-	-	-	-
Cultivation of Fruit	-	-	-	-	-	-	-	-	-	-
Micro irrigation systems of orchards	-	-	-	-	-	-	-	-	-	-
Plant propagation techniques	-	-	-	-	-	-	-	-	-	-
		1	Į.					I	l .	
Nursery Management	-	-	-	-	-	-	-	-	-	-
Management of potted plants	-	-	-	-	-	-	-	-	-	-
Propagation techniques of Ornamental Plants	-	-	-	-	-	-	-	-	-	-
g) Medicinal and Aromatic Plants		ı	<u> </u>	ı					<u> </u>	<u> </u>
Nursery management	-	_	-	_	_	-	_	_	-	-
Production and management technology	-	-	-	-	-	-	-	-	-	-
Soil fertility management	-	-	-	-	-	-	-	-	-	-
Integrated water management	-	-	-	-	-	-	-	-	-	-
Integrated nutrient management	-	-	-	-	=	-	-	-	-	-
Production and use of organic inputs	-	-	-	-	-	ı	-	-	-	-
Management of Problematic soils	-	-	-	-	-	-	-	-	-	-
Micro nutrient deficiency in crops	-	-	-	-	-	-	-	-	-	-
Nutrient use efficiency	-	-	-	-	-	-	-	-	-	-

Balanced use of fertilizers	<u> </u>					<u> </u>				T
Soil and water testing	-	-	-	-	-	-	-	-	-	-
Son and water testing	-	-	-	-	-	-	-	-	-	-
Dairy Management	<u> </u>									1
Poultry Management	-	-	-	-	-	-	-	-	-	-
Animal Nutrition Management	-	-	-	-	-	-	-	-	-	-
Allillar Nutrition Wanagement	-	-	-	-	-	-	-	-	-	-
Household food security by kitchen	I				1	1	1	1		<del></del>
gardening and nutrition gardening	-	-	-	-	-	-	-	-	-	-
Value addition	5	72	14	86	48	19	67	120	33	153
Location specific drudgery production	-	-	-	-	-	-	-	-	-	-
		•			•		•	•		
Farm machinery and its maintenance	-	-	-	-	-	-	-	-	-	-
Installation and maintenance of micro	_	_	_	_	_	_	_	_	_	_
irrigation systems Production of small tools and										+
implements	-	-	-	-	-	-	-	-	-	-
Repair and maintenance of farm machinery and implements	-	-	-	-	_	-	-	-	-	-
Post Harvest Technology	_	-	_	_	_	_	_	_	_	_
Integrated Pest Management	1	35	12	47	21	7	28	56	19	75
Integrated Disease Management	_	-	_	_	_	_	_	_	_	_
Bio-control of pests and diseases	_	_	_	_	_	_	_	_	_	_
Production of bio control agents and										
bio pesticides	-	-	=	-	=	_	-	=	-	-
Fisheries	T	1	Т		1	1	1	1	Γ	т
Integrated fish farming	-	-	-	-	-	-	-	-	-	-
	Т		Т		1	1	1	1	Τ	т
Seed Production	-	-	-	-	-	-	-	-	-	-
Planting material production	-	-	-	-	-	-	-	-	-	-
Bio-agents production	-	-	-	-	-	-	-	-	-	-
Bio-pesticides production	-	-	-	-	-	-	-	-	-	-
Bio-fertilizer production	-	-	-	-	-	-	-	-	-	-
Vermi-compost production	-	-	-	-	-	-	-	-	-	-
Organic manures production	-	-	-	-	-	-	-	-	-	-
Mushroom production	-	-	-	-	-	-	-	-	-	-
Mobilization of social capital	-	-	-	-	-	-	-	-	-	-
Entrepreneurial development of	-	-	-	-	=	_	-	-	-	-
farmers/youths Others	1	18	7	25	_	_	_	18	7	25
Total										
	9	465	148	613	182	86	268	647	234	881

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

	No. of				No. of	Particip	ants			
Area of training	Cours		General			SC/ST	ı	G	rand To	tal
Tites of training	es	Male	Femal e	Total	Mal e	Femal e	Total	Mal e	Fem ale	Tota l
Nursery Management of Horticulture crops	-	-	-	-	-	-	-	-	-	-
Training and pruning of orchards	-	-	-	-	-	-	-	-	-	-
Protected cultivation of vegetable crops	-	-	-	-	-	-	-	-	-	-
Integrated farming	1	17	12	29	-	-	-	17	12	29
Seed production	-	-	-	-	-	-	-	-	-	-
Production of organic inputs	-	-	-	-	-	-	-	-	-	-
Planting material production	ı	-	-	-	-	-	ı	-	-	-
Vermi-culture	-	-	-	-	-	-	-	-	-	-
Mushroom Production	-	-	-	-	-	-	-	-	-	-
Repair and maintenance of farm machinery and implements	1	14	3	17	-	-	-	14	3	17
Value addition	1	18	9	27	2	4	6	20	13	33
Post Harvest Technology	-	-	-	-	-	-	-	-	-	-
Sheep and goat rearing	-	-	-	-	-	-	-	-	-	-
Poultry production	-	-	-	-	-	-	-	-	-	-
Ornamental fisheries	-	-	-	-	-	-	-	-	-	-
Fish harvest and processing technology	-	-	-	-	-	-	-	-	-	-
TOTAL	3	49	24	73	2	4	6	51	28	<b>79</b>

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

	No. of				No. of	Particip	ants			
Area of training	Cours	(	General		SC/ST			Grand Total		
Tires of training	es	Male	Fema le	Total	Male	Fema le	Total	Mal e	Fema le	Tota l
Nursery Management of Horticulture crops	1	20	-	20	8	-	8	28	-	28
Training and pruning of orchards	-	-	-	-	-	-	-	-	-	-
Protected cultivation of vegetable crops	-	-	-	-	-	-	-	-	-	-
Integrated farming	-	-	-	-	-	-	-	-	-	-
Seed production	-	-	-	-	-	-	-	-	-	-
Planting material production	-	-	-	-	-	-	-	-	-	-
Mushroom Production	-	-	-	-	-	-	-	-	-	-
Value addition	5	62	70	132	9	12	21	71	82	153

Post Harvest Technology	-	-	-	-	-	-	-	-	-	-
Sheep and goat rearing	-	-	-	-	-	-	-	-	-	-
Poultry production	-	-	-	-	-	-	-	-	-	-
Ornamental fisheries	-	-	-	-	-	-	-	-	-	-
Composite fish culture	-	-	-	-	-	-	-	-	-	-
TOTAL	6	82	70	152	17	12	29	99	82	181

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

	No. of	No. of Participants										
Area of training	Cours	Conorol			SC/ST			Grand Total				
Tire of training	es	Ma	Fem	Tot	Ma	Fem	Tot	Ma	Fem	Tot		
	•	le	ale	al	le	ale	al	le	ale	al		
Productivity enhancement in field crops	1	10	2	12	8	4	12	18	6	24		
Integrated Pest Management	2	20	4	24	7	4	11	27	8	35		
Integrated Nutrient management	1	18	1	19	2	4	6	20	5	25		
Protected cultivation technology	1	-	12	12	7	3	10	7	15	22		
Production and use of organic inputs	1	8	6	14	8	1	9	16	7	23		
Care and maintenance of farm machinery and implements	1	11	6	17	2	5	7	13	11	24		
Information networking among farmers												
Total	7	67	31	98	34	21	55	101	52	153		

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

	No. of	No. of Participants										
Area of training	Cour	Conorol			SC/ST			Grand Total				
Tirea of training	ses	Ma	Fema	Tot	Ma	Fem	Tot	Ma	Fem	Tot		
		le	le	al	le	ale	al	le	ale	al		
Productivity enhancement in field crops	1	44	12	56	22	11	33	66	23	89		
Integrated Pest Management	2	63	14	77	16	14	30	79	28	107		
Integrated Nutrient management	1	35	9	44	14	9	23	49	18	67		
Protected cultivation technology	2	41	19	60	20	16	26	61	35	96		
Care and maintenance of farm machinery and implements	2	74	16	90	21	-	21	95	16	111		
Management in farm animals	1	23	4	27	3	29	32	26	33	59		
Total	9	280	74	354	96	79	165	376	153	529		

#### 7.G. Sponsored training programmes conducted

		No. of				No. o	of Partici	pants				
S.No.	Area of training	Courses		General		SC/ST			Grand Total			
		Courses	Male	Female	Total	Male	Female	Total	Male	Female	Total	
1	Crop production and	d managen	nent									
1.a.	Others (pl. specify)	1	250	150	400	145	55	200	395	205	600	
	IPM in vegetables	1	65	10	75	18	7	25	83	17	100	
	PPVR&RI	1	45	15	60	27	13	40	72	28	100	
	PPVR&RI	1	75	8	83	10	7	17	85	15	100	
	ATMA	5	324	173	497	168	85	253	492	258	750	
	NABARD	2	101	43	144	86	44	130	187	87	274	
3	Agricultural Extension											
3.a.	Others	2	82	37	119	74	33	107	156	70	226	
	Total	13	942	436	1378	528	244	772	1470	680	2150	

#### Details of sponsoring agencies involved

- 1. NADP-SSI
- 2. PPVR&RI,-Government of India
- 3. Market led extension activity, GOI scheme
- 4. Awareness program on IPM in Vegetables sponsored by Collaborative Research support program for IPM under International development aid by United States and Dept.of Plant Molecular Biology, TNAU, Coimbatore.

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

		No. of				No. o	f Partici	ipants			
S.N	Area of training	Cours		General			SC/ST		Grand Total		
0.	Tire of truining	es	Mal	Fema	Tot	Mal	Fema	Tot	Mal	Fema	Tot
			e	le	al	e	le	al	e	le	al
1	Crop production and managem	ent									
1.a.	Integrated crop management(IFS)	1	26	2	28	5	0	5	31	2	33
1.b.	Organic farming	1	41	7	48	12	5	15	53	12	65
2		<u> </u>	1	1		1	1		1		1
2.a.	Value addition	1	8	15	23	3	14	17	11	29	40
3.											
3.a.	Vermi-composting	-	-	-	-	-	-	-	-	-	-
3.b.	Production of bio-agents, bio- pesticides,	-	-	-	-	-	-	-	-	-	-
	bio-fertilizers etc.										
3.c.	Mushroom cultivation	1	10	2	12	4	4	8	14	8	20
3.d.	Nursery, grafting etc.	1	14	4	18	8	7	15	22	11	33
	<b>Grand Total</b>	5	99	30	129	32	30	60	131	62	191

## PART VIII – EXTENSION ACTIVITIES

## **Extension Programmes (including extension activities undertaken in FLD programmes)**

Nature of Extension	No. of	No.	of Particip (General)	ants	No. of Participants SC / ST			No.of extension personnel		
Programme	Programmes	Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	10	198	52	250	40	5	45	11	4	15
Kisan Mela	1	350	12	362	42	8	50	8	7	12
Exhibition	2	412	38	450	50	13	63	15	5	20
Film Show	10	104	44	150	38	4	42	6	6	12
Method Demonstrations	15	183	27	210	27	7	34	8	7	15
Farmers Seminar	3	60	25	85	10	4	14	2	1	3
Workshop	4	55	25	75	12	6	18	7	-	7
Group meetings	11	124	26	150	22	3	25	9	7	16
Lectures delivered as resource persons	15	286	164	450	22	13	35	12	9	21
Newspaper coverage	37	-	-	-	-	-	-	-	-	-
Radio talks	09	-	-	-	-	-	-	-	-	-
TV talks	-	-	-	-	-	-	-	-	-	-
Popular articles	-	-	-	-	-	-	-	-	-	-
Extension Literature	10	-	-	-	-	-	-	-	-	-
Advisory Services	500	321	104	425	51	24	75	15	10	25

Total	704	3232	873	4102	553	198	751	135	75	215
Women's day(08.03.15)	1	2	6	8	1	1	2	0	0	0
Republic day(26.01.15)	1	7	3	10	2	3	5	0	0	0
Independence day(15.08.14)	1	6	4	10	3	2	5	0	0	0
World Environmental day (05.06.14)	1	13	3	16	4	3	7	2	-	2
Celebration of important days (specify)	4	-	-	-	-	-	-	-	-	-
Self Help Group Conveners meetings	2	30	11	41	8	7	15	-	-	-
Farm Science Club Conveners meet	-	-	-	-	-	-	-	-	-	-
Soil test campaigns	5	33	17	50	32	10	42	20	4	24
Animal Health Camp	2	50	12	62	5	4	9	-	-	-
Soil health Camp	1	30	3	33	7	-	7	-	=	-
Exposure visits	6	450	100	550	41	9	50	-	-	-
Diagnostic visits	12	84	6	90	22	10	32	5	2	15
Farmers visit to KVK	20	330	170	500	80	44	124	10	8	18
Scientific visit to farmers field	25	104	21	125	34	18	52	5	5	10

### <u>PART IX – PRODUCTION OF SEED, PLANT AND LIVESTOCK MATERIALS</u>

# 9.A. Production of seeds by the KVKs: Nil

Crop category	Name of the crop	Name of the variety (if hybrid pl. specify)	Quantity of seed (q)	Value (Rs)	Number of farmers
-	-	-	-	-	-
Total					-

# 9.B. Production of planting materials by the KVKs

Crop category	Name of the crop	Name of the variety (if hybrid pl. specify)	Number	Value (Rs.)	Number of farmers
Fruits	Cashew grafts	VRI 3	9803	235272	300
	Jack grafts	PLR 1	50	2500	25
	Insulin and Aloe	-			10
Ornamental plants	vera		56	1120	
Medicinal and Aromatic	Medicinal Plants	-	1350	27000	300
Total			11259	265892	635

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

Bio Products	Name of the bio-product	Quantity	Value (Rs.)	No. of Farmers	
Dio i roducis		Kg	value (RS.)		
	Vermicompost	1090	10	6540	
Total	Vermicompost	1090	10	6540	

#### 9.D. Production of livestock materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers
Dairy animals				
Others (Pl. specify) Goat	Telicherry goat	4	25300	2
Total		4	25300	2

# 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.)

KVK News letter : YERKALAM Date of start : April, 2005

Periodicity : Quarterly (Jan.-Mar., Apr. –Jun., Jul.-Sep. and Oct.-Dec.)

No. of copies distributed: 1200

#### (B) Literature developed/published

Item	Title	Authors name	Num ber
Research	Standardization of vigour test for measuring the	V.Vijayageetha,P.Balamurugan and	-
papers	vigour status of mustard genotypes-Research	M.Bhaskaran, 2014,7(3)	
(Full papers)	journal of seed science.		
	Standardization of Polymer seed film coating	V.Vijayageetha,P.Balamurugan and	-
	technique- Inter.Journal of Emerging	M.Bhaskaran, 2014,8(6)	
	Technologies In Computational and Applied		
	Sciences.		
	Maximising red gram yield through integrated	K.Venkatalakshmi,2014,2(3)	-
	agronomic management practices under alkali		
	soil- Research Journal of Forestry and		
	Agricultural Sciences.		
Research	Surfactant producing PGPR for management of	Sarvanan,T., T.Meganathan and	-
papers	rhizome rot of ginger and Turmeric –	K.Nageswari,2015	
(Abstracts)	Symposium on Challenges and management		
	approaches for crop diseases of national		
	importance –status and prospects		
	Fungicides and time of application for	Sarvanan,T and R.Arulmozhiyan,2015	-
	management of leaf rust disease in coffee		
	Symposium on Challenges and management		
	approaches for crop diseases of national		
	importance –status and prospects		
		Scientists of this KVK	5
Technical	Annual Action plan 2015-16	Scientists of this KVK	6
reports	19 <sup>th</sup> SAC report	Malarkodi, M and R.Arunachalam	3
	NADP – PF training report	K.Venkatalakshmi and R.Arunachalam	2
	EEC report	Malarkodi, M	
	PPV & FR report	Scientists of this KVK	5
News letters	Yerkalam (4 issues)	Scientists of this KVK	6
Technical bulletins	-	-	-
Popular articles	Control of rat in Paddy field- Dinamalar13.12.2014	Professor and Head, KVK	-

	Cashew mosquito bug control measures- Dinamalar-28.12.2014	Professor and Head,KVK	-
	Control of plant hoppers in paddy-Dinamalar- 13.12.14	Professor and Head,KVK	-
	Mushroom cultivation practices –Dinamalar- 14.11.14	Sarvanan,T,	-
Extension litera	ture		
Booklet			100
	Tree cultivation	M.Malarkodi ,V.Vijayageetha, T.Sarvanan S.Kannan, K.Venkatalakshmi,S.Jeeva and R.Arunachalam	100
	Production and use of organic inputs in agriculture	M.Malarkodi, V.Vijayageetha, T.Sarvanan S.Kannan, K.Venkatalakshmi,S.Jeeva and R.Arunachalam	50
	Protection of plant varieties and Farmers right act	V.Vijayageetha, M.Malarkodi, T.Sarvanan S.Kannan, K.Venkatalakshmi,S.Jeeva and R.Arunachalam	100
	Kurvai and samba paddy	V.Vijayageetha ,K.Venkatalakshmi,T.Sarvanan,M.Mal arkodi and R.Arunachalam	50
	Quality seedling and production technologies in vegetables	V.Vijayageetha, T.Sarvanan, M.Malarkodi,S.Kannan, K.Venkatalakshmi,S.Jeeva and R.Arunachalam	100
	Market related information	V.Vijayageetha, T.Sarvanan, M.Malarkodi,S.Kannan, K.Venkatalakshmi,S.Jeeva and R.Arunachalam	50
	Integrated farming system	K.Venkatalakshmi, M.Malarkodi, V.Vijayageetha, T.Sarvanan, S.Kannan,	200
	Coconut cultivation and Marketing	K.Venkatalakshmi, M.Malarkodi, V.Vijayageetha, T.Sarvanan, S.Kannan	100
	Black gram and ground nut cultivation technique	K.Venkatalakshmi, M.Malarkodi, V.Vijayageetha, T.Sarvanan, S.Kannan	50
	Value added products from mango fruit	S.Kannan, V. Vijayageetha ,K. Venkatalakshmi, T. Sarvanan, M. Mal arkodi and R. Arunachalam	
	Value added products from cashew apple	S.Kannan ,V.Vijayageetha ,K.Venkatalakshmi,T.Sarvanan,M.Mal arkodi and R.Arunachalam	
	Preparation of value added products and its marketing techniques of fruits and vegetables	S.Kannan ,V.Vijayageetha ,K.Venkatalakshmi,T.Sarvanan,M.Mal arkodi and R.Arunachalam	
	Value addition in minor millets	S.Kannan ,V.Vijayageetha ,K.Venkatalakshmi,T.Sarvanan,M.Mal arkodi and R.Arunachalam	
Folder/leaflets	SSI and their benefits in sugarcane	K.Venkatalakshmi and R.Arunachalam	500
	Mushroom production	T.Saravanan and R.Arunachalam	500
	Methods of soil and water sample collection	Malarkodi, M and R.Arunachalam	1000
Others (Pl. specify)	-	-	
TOTAL	40	-	4466

#### 10.B. Details of Electronic Media Produced

Item	Title	Authors name	Number
CD	Protection of plant varieties and Farmers right	KVK,Vridhachalam	100
	act.		
CD/DVD	KVK activities and achievements	KVK,Vridhachalam	-

# 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).

This KVK has developed ten successful entrepreneurs on seed production/ nursery technologies/ food processing/ flower arrangements. Brief outlines of their success story are presented here under.

**Success story 1** 

#### **SEED PRODUCER (RAM MAHESH)**



Name of the Farmer : Thiru. S.Ram Mahesh

Address for the communication with

pin code

S/o. Sambanthamoorthy Vallam ,Thatchakadu

B.Muttlur, ChidambaramT.K.

Contact Phone number : 98844 01114

**Area of the Farm and water source** : He owns an area of 20 ha of rain fed land.

Technologies adopted : • He adopted improved Production Technologies for

• He had followed all agronomic and plant protection practices for the paddy crop.

• PPFM spray to mitigate drought

Rainfed Rice-ANNA 4.

Impact due to Technological interventions

• In samba season, he cultivated ANNA 4 rice variety (under OFT) and achieved a good yield of 5880 kg/ha even though the entire Cauvery delta zone suffered out of severe water scarcity during this samba season.

• The farmers have realized a increase of 23.81% yield over ruling Kar variety. The net return from the ANNA 4 variety given Rs 11485 per ha than of Rs 7557/- from Kar rice variety.

• He won state level Best farmer award from TNAU during February, 2013.

Lessons learnt : • The Cuddalore district has considerable area under rainfed rice especially at Nallur, Mangalore blocks and also part

of Bhuvanagiri and Vriddhchalam block during samba season. Generally, the farmers get very low yield mainly under rainfed situation owing to local varieties and poor maintenance. The locally available kar (Red) rice variety fetches low market value.

• Cultivation of ANNA -4 proved excellent yield performance in his field (5880 kg/ha) even though the entire Cauvery delta zone suffered out of severe water scarcity during this samba season.

**Details of spreading success to other** farmers or farmers groups

Out of his yield, 2500 kgs of seed was procured from him as TFL seed with the approval of TNAU and distributed to the other farmers of Cuddalore district for further spread.



Field assessment by the DEE and KVK scientists



Mr. Ram Magesh receiving Best Farmer award from TN Agri Minister on 28.02.2013

#### SEED PRODUCER (SHIVASHAKTHI SEEDS)



Name of the Farmer : Th. A. Ramesh

Address for the communication with

pin code

S/o Adivaragan pillai

Main road, Gunamangalam &Post

Srimushnam 608703

Contact Phone number : 9942515469

Area of the Farm and water

resourced

15 acres with bore well

Technologies adopted

 Improved seed production technologies viz., such as land selection, sources of seed, isolation distance, rouging, foliar nutrition, harvesting and post harvest handling of seeds in three stages under seed village training programme.

Impact due to Technological interventions

- Before 2007 he was an ordinary farmer cultivating paddy in his own land and surviving with average minimum income which was sufficient to meet out his family daily needs.
- Now he is running seed production unit successfully with the capacity of 55t of ADT 43, 90t of CR1009, 15t of ADT38 35 t of BPT5204, 7t of ADT 39 and 3t of IW Ponni as his contribution to the farmers of Cuddalore District
- He is earning approximately Rs. 3 lakhs /annum and generating employment of 192 man days per year.

Lessons learnt :

- The seed production is a successful venture for farmers as it gives remuneration income to the farmer.
- The need for good quality seed material is growing day by day and hence there is a great scope for a profitable agribusiness in seed venture.

Details of spreading success to other farmers or farmers groups

The farmers of Gunamangalam village are being trained by the Th. A. Ramesh.



The Vice-Chancellor, TNAU, and the ZPD interacting with the entrepreneur at this KVK



Seed processing unit of the entrepreneur Mr.A.Ramesh

#### SEED PRODUCER (RAJA SEEDS)



Name of the Farmer : Th. T. Subramaniyam

Address for the communication with

pin code

: S/o Thirugnanasambantham

North street, Rajendrapattinam-608703

Contact Phone number :

**Area of the farm and water source** : 35 acres of wet land with good irrigation sources.

**Technologies adopted** : Krishi Vigyan Kendra intervened and trained the farmers of Rajendrapattinum about the production of quality seeds under

seed village training programme

Impact due to Technological

interventions

• He is producing 12 ha of paddy seeds and 12 ha of blackgram seeds and supplying the same to the farmers and to the department of agriculture.

Lessons learnt :

• Before the Training programme the farmer purchased the seeds from private seed companies, government outlets and also used their own farm saved seeds.

• After the training undergone by the farmer he himself produced the quality seeds and supplying it to the farmers in and around Cuddalore district and now he become an entrepreneur.

• The profit achieved of this entrepreneur showed that the seed production is a profitable agribusiness venture and the scope is enlarging day by day as there is growing demand for quality seed material in the agricultural industry.

Details of spreading success to other farmers or farmers groups

The farmers of the Rajendra pattinum trained from Th. T. Subramaniyam and they are also producing certified seeds.



Mr. Raja, the seed producer at his sale outlet



Certified seed packs of Raja Seeds

#### **NURSERY GARDEN (AMMAN NURSERY)**



Name of the Farmer S.VIJAYALAKSHMI

Address for the communication with pin code

M/s.Amman nursery, Cuddalore Main Road, V.Sathamangalam, Vridhachalam t.k.

98652 45007 **Contact Phone number** 

Area of the Farm and water source

**Technologies adopted** 

1 ha. with bore well.

Cashew seedlings were raised under soft wood grafting method under shade net.

Jack seedlings were also raised by grafting technology by the Amman nursery.

Impact due to Technological interventions

A total no.of 2,10,000 Cashew seedlings were sold in the year of 2012 with a high viability rate (more than 95 %).

Earned a profit of 30,000/- per month.

Lessons learnt

Seedlings recovery rate is higher in this grafting technology when compared to conventional method.

Seedling production is also a very good commercial venture for the farmers,rural youth and farm women to get a remunerative monthly income.

Details of spreading success to other farmers or farmers groups

This nursery is approved by the directorate of cashew and cocoa Development board, Cochin. So more numbers of farmers visited this nursery and learnt the technology.



**Amman Nursery name board** 



Mr.Sivakumar Explaining his client

#### NURSERY GARDEN (SARADHAMBAL NURSERY)



Name of the Farmer Thiru. R.Muthukumaran

Address for the communication with pin code

Sarathambal nursery, 361, Kullanchavadi salai,

Vegakollai and Post, Panrutti taluk,

Cuddalore district.

**Contact Phone number** 97904 15127

Area of the Farm and water source

Total area is 12 acres with assured irrigation source.

One acre is being used for nursery.

Among the total area, 5 acres have been planted with cashew, 2 acres with jack and remaining 3 acres has been utilized for crossandra cultivation and one acre for jasmine in which the mother plant stock materials are collected for making cuttings

**Technologies adopted** 

Nursery production technologies-Grafting technique.

Mist chamber construction.

Use of growth regulators and

Nursery mixture preparation.

Impact due to Technological interventions

At present in and around Vegakollai village there are 20 nurseries and the production capacity is 3-5 lakhs per unit with initial cost of Rs.50,000.

On an average 15-20 lakh plants has been produced every year from crossandra nurseries in Vegakollai village.

Lessons learnt

The nursery unit is providing employment to the rural youth for 750-800 man days per unit per year.

Seedling production is also a very good commercial venture for the farmers, rural youth and farm women to get a remunerative monthly income

Details of spreading success to other farmers or farmers groups

- He generated rural employment to about 50 people in vegakollai.
  - Nursery garden is profitable agribusiness and it provides employment oppurtunities to rural youth and farm women.
  - The advent of hi tech methods will further boost up the production of quality seedling and higher returns.



Workers active in preparation of pot mixture



Workers active in seedling preparation

#### NURSERY GARDEN (SRI MURUGAN NURSERY)



Name of the Farmer : A.Dhanavel

Address for the communication with pin

code

: Sri Murugan Nursery

Cuddalore road, Pudukuraipettai Kuppanathum, Vridhachalam t.k.

**Contact Phone number** : 98651 97550

**Area of the Farm** : 1 acre

**Technologies adopted** : • Raising of seedlings viz., Cashew, Jack, Mango, Guava,

• Sapota, Lemon, Amla, and other Ornamental plants

soft wood grafting method

• .Shade net method

Impact due to Technological

interventions

• 3000 no.of seedling are being sold/month

• Approximately Rs.15,000/month as profit.

Lessons learnt

• Viability of seedlings is more than the conventional planting.

• Quality and true types of seedlings were produced under

soft wood grafting.

• Even growth is achieved.

Details of spreading success to other farmers or farmers groups

Rasi Nursey, Amman nursery and velkkani nursery were started after getting training from Murgan nursey.



**Nursery Board** 



Our SMS with the entrepreneur

#### JEYAM HOME MADE PRODUCTS



Name of the Farmer : R.Suganthi

and

K.Seetha lakshmi

Address for the communication with pin

code

M/s. Jeyam home made products,

101 ,Thangam Nagar, Gandhi nagar post,

Vadakuthu, Kurinjipadi T.K.

Contact Phone number : Cell: 94860 89781

**Area of the farm** : 1200 sq.ft

**Technologies adopted** : • Value added products in fruits, vegetables, pulses,

cereals and millets.

• Pickle preparation ready mix powder

• Health food

• Improved packaging and marketing.

Impact due to Technological : • Sale of pickles/month:3000 bottles

• Instant powder/month:200 kgs

• Approximate profit/month

:Rs.30,000/-

Lessons learnt : Value added products gain more market value than raw

products.

**Details of spreading success to other** 

farmers or farmers groups

interventions

More no. of self help groups visited and learnt the technology

from them .



Vice Chancellor, TNAU visiting the Stall of Mrs. Suganthi ( Jeyam Food Products)



Mrs. N. Suganthi receiving "Velanmai Chemmal" award during the farmers day celebration on 11.01.14 at TNAU

#### **AERO FOODS**



Name of the Farmer : Mr.Manimozhi

Address for the communication with pin

code

: M/s.Aero Foods,

144/1 Annasalai, Periyar Nagar Vridhachalam, Cuddalore Tk.

**Contact Phone number** : 94435 11316

**Area of the company** : 800-900 sq.ft

Technologies adopted : • Prepared milletsbased value added products

(Varagu, Samai, Theni, Ragi).

• Prepared millet based Health mix

Impact due to Technological

interventions

• 1.5 tonnes of processed millets are being sold every month

• 400-500 kgs of millet based health mix powder are being

sold every month

• Earning an approximate profit of Rs.20,000/month

Lessons learnt : • Processed millets fetch more price than raw products.

• Diabetic patient prefers millet based product rather than

cereal based product and hence more market value.

**Details of spreading success to other** farmers or farmers groups

More no. of farmers were attracted towards this company and become member of this society.



**AERO Foods - Production Unit** 



Display of Food products - AERO Foods Team

#### PETALZ BOUQUET SHOP



Name of the Farmer : Mrs. R. Umaraju

**Address for the communication with pin** : W/o Rajasekar

code

42, Ranganathan Street, Pathirikuppam Post, Arisiperiyankuppam Via, Cuddalore -607002

Contact Phone number : 99651 21620

**Area of the shop** : Petals shop with a area of 700 sq.ft.

**Technologies adopted** : • Florist - Flower Bouquet arrangement

• Floral stage decoration on commercial basis

• Dry flower preparation and arrangement

Impact due to Technological interventions

Effectively utilized flower raw materials available in the
area.

• One of the income generation activities for the farm woman, rural youth and earned Rs 40,000 per month.

Lessons learnt :

• Flower Bouquet arrangement is a very good commercial venture for the women and youth to get a remunerative monthly income.

**Details of spreading success to other** farmers or farmers groups

Mr. R. Kovathanan of Mangalampettai has specialized in floral stage decorations and he has completed more than 300 floral stage decorations in and around Namakkal, Trichy, Villupuram, Neyveli and Vridhachalam ranging from Rs 6000 to Rs One lakh per decoration.

Further Mr. K. Sakthivel of Chidambaram has been selling flower bouquet and basket bouquet during his leisure time from home on order basis

➤ Mrs.Punithavathi from Bhuvanagiri also doing dry flower business on new basis.



**Vocational Training on Flower arrangements** 



Vice Chancellor, TNAU visiting the Stall of Mrs. Umaraju. (Petalz Bouquet Shop)

#### VERMICOMPOST PRODUCTION



Name of the Farmer : Mr.V.Sekar

Address for the communication with pin

code

: S/o.Velmurugan Kodukkur village

Vridhachalam tk-606001

**Contact Phone number** : 97863 46901

**Area of the farm** : 3000 sq.ft with bore well

**Technologies adopted** : Vermi composting technologies-by utilizing agricultural waste

Impact due to Technological

interventions

• Recycled the waste effectively

• Reduced the environmental pollution

• 35 tonnes of vermi compost are being sold per year

• Earning an approximate profit of Rs. 75,000 per year.

Lessons learnt : • Application of vermi compost enhances growth and yield

of the crop rather than normal compost because of its growth hormone content and fetches huge margin.

• Efficient way of utilizing agricultural waste.

Details of spreading success to other

farmers or farmers groups

More no. of farmers were visited his farm and learnt the

technology.



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

Nil

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

S.	Crop /	ITK Practiced	Purpose of ITK
No.	Enterprise		
1	Paddy	Vasambu (Acotus calamus) powder and cow urine are mixed in the water that has been boiled and cooled over night and the seeds are soaked in the solution. The floating seeds are removed. The remaining seeds are used for sowing.	This serves the dual purpose of seed selection and treatment of seed borne disease
2		The place with higher elevation in the field is selected for raising paddy nursery	Water flooding is avoided
3		Ash is dusted on the germinated paddy nursery before the occurrence of heavy rain.	This practice prevents toppling of seedlings and also accumulation of seedlings on one side
4		Farm waste and trash are burnt on the nursery beds. The heat that is generated by burning, sterilizes the soil and some nutrients like potash is added	For effective nutrient management
5		A mixture of coconut water and buttermilk is used to increase the number of flowers in paddy. A mixture of 5 liters of coconut water and 5 liters of buttermilk is kept in a mud pot. This pot is buried in the soil for 5-7 days, after that one liter of solution is mixed with 10 liters water to spray on the crop,	For increase number of flowers in the crop.
6		Nochi leafs along with stored paddy grain. News paper clippings and herbal leaf mixture.	To repel stored product pests
7	Pulses	Use of neem oil / red earth	To repel stored product pests in Pulses
8		Coating the pulse seeds with arappu leaf powder	To protect the seeds from ants and birds
9		Drying of blackgram seeds during new moon time	To protect from pulse beetle infestation
10	Vegetables	Neem extract/ Pungam Oil/ Panchaghavya	To control sucking pests and borers in vegetables
11	Animal	Oral administration Aloe vera & Aanai nerunji leaves	To induce heat in cows
12	husbandry	Oral administration of Betelvines, omam	To solve indigestion problem in goats
13		Equal quantity of Napthalene balls and camphor were mixed with water into paste and apply on the body of cattles for 2 hours	To control parasites
14		Application of fat of pigs/henna leaf paste	To control foot and mouth disease in cattles

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

#### Identification of courses for farmers / farm women

- > Participatory exercises
- Farm science club conveners meeting
- Monthly zonal work shop
- > SAC meetings
- Questionnaire method / Contact letter
- Village meetings
- Personal contact / Field visits
- > Discussion with farmers and farm advisory visit
- > Feed back analysis obtained at the end of every meeting
- > Training needs registered by the youths (Training needs register)
- Farmers scientist- extension workers quarterly interaction meetings

#### Rural youth

- Personal contact
- Participatory rural exercises
- ➤ KVK direct contact programmes/interactive meetings
- Feedback analysis obtained at the end of every meeting
- > Training needs registered by the youths (Training needs register)

#### In service personnel

- ➤ Collaborative meeting with line departments
- > Discussion with extension functionaries during the monthly zonal workshop
- ➤ Collaborative meeting with line departments
- Farmers scientist- extension workers quarterly interaction meetings

#### 10.G. Field activities

(i)	Number of villages adopted	14
(ii)	Number of farm families selected	110
(iii)	Number of survey / PRA conducted	14

#### 10.H. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab : Yes

1. Year of establishment : 17.06.2005

## 2. List of equipments purchased with amount :

S. No.	Name of the Equipment	Qty.	Cost (Rs.)
1.	Spectrophotometer	1	75,072
2.	Flame Photometer	1	36,720
3.	P <sup>H</sup> Meter	1	7,344
4.	EC Meter	1	7,344
5.	Physical balance	1	28,080
6.	Chemical balance	1	1,01,770
7.	Water distillation still	1	26,118
8.	Nitrogen digestion and distillation	1 set	1,72,675
9.	Shaker	1 set	44,077
10.	Refrigerator	1	19,500
11.	Hot plate	1	1,875
12.	Grinder	1	11,582
	Total	12	532157

#### Details of samples analyzed so far since establishment of SWTL:

Details	No. of Samples analyzed	- I NO OF VI		Amount realized (Rs.)
Soil Samples	3330	3102	826	84375
Water Samples	3077	3049	999	29580
Total	6407	6151	1825	113955

## 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	3212	3002	776	81425
Water Samples	3002	2979	959	28830
Total	6214	5981	1735	110255

#### 10.I. Technology Week celebration during 2014-15 :Nil

#### **CELEBRATION OF TECHNOLOGY MONTH**

Period of observing Technology month : Does not arise
Total number of agencies involved : Does not arise

Total number of agencies involved : Does not arise

Number of demonstrations visited by the farmers within KVK campus: Does not arise

#### Other Details

Types of Activities	No. of Activities	Number of Farmers	Related crop/livestock technology
Lectures organized	-	1	-
Exhibition	-	-	-
Diagnostic Practical's	-	-	-
Supply of Literature (No.)	-	-	-
Supply of Planting materials (No.)	-	-	-
Total number of farmers visited			
the technology week	_	-	-

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

Our KVK was not included under this special programme and hence the following details could not be provided.

A. Introduction of alternate crops/varieties - Does not arise

B. Major area coverage under alternate crops/varieties - Does not arise

C. Farmers-scientists interaction on livestock management - Does not arise

D. Animal health camps organized - Does not arise

E. Seed distribution in drought hit states - Does not arise

F. Large scale adoption of resource conservation technologies - Does not arise

G. Awareness campaign - Does not arise

#### PART XI. IMPACT

#### 11.A. Impact of KVK activities (Not to be restricted for reporting period)

Name of specific technology/skill	No. of	% of	Change in i	ncome (Rs.)
transferred	participants	adoption	Before (Rs./Unit)	After (Rs./Unit)
Drought mitigation in rice	625	25	Rs. 30000/ha	Rs. 35000/ha
Introduction of Anna 4 Paddy variety in	56	45	Rs. 34557/ha	Rs. 43485/ha
drought prone areas				
Precision farming technology (Sugarcane)	500	40	Rs. 127000/ha	Rs. 155000/ha
Introduction of ADT (R) 49 paddy	48	35	Rs. 40000/ha	Rs. 47000/ha
Transplanted redgram-FLD	20	10	Rs.17000/ha	Rs.25000/ha
Value addition in millets –vocational	20	5	Rs. 5000/month	Rs. 7000/month
training				
Value addition in fruits and vegetables –	22	12	Rs. 7000/month	Rs. 30000/month
vocational training				
Flower arrangement techniques - vocational	15	10	Rs. 10000/month	Rs. 28000/month
training during 2012-13				
Quality seedling production –Vocational	40	25	Rs. 10000/month	Rs. 35000/month
training				
Integrated Farming system-wet land –FLD	100	30	Rs.1,26,050/ha	Rs.3,61,312
& Training			K5.1,20,030/11a	
Integrated Farming system –dry land – FLD	100	25	Rs.10,000/ha	Rs.33,000/ha
& Training			1X5.10,000/11a	

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

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

(Please furnish detailed information for each case)

## CASE 1. QUALITY SEEDLING PRODUCTION – NURSERY TECHNOLOGIES

In Cuddalore district apart from Paddy, Sugarcane and Oilseed crops, the tree crops like Cashew, Jack, Mango are other important crops fetches commercial value to the farmers. In addition to this, the vegetable cultivation is also being carried out in about 700 ha. The quality seedling production is an important profitable venture in this district. Before the KVK interventions, farmers bought the seedlings from the nurseries of nearby districts, for which they had to pay a huge amount.

#### Interventions of this KVK

Realising the commercial value behind the production of quality seedling production on the above crops, this KVK arranged for series of trainings for the rural youths of this district. The quality seedling production techniques like shade net nursery establishment and maintenance, different commercial grafting methods in cashew, mango, jack and ornamental plants like, crossandra, rose, jasmine, and crotons were taught to the trainees. Besides, the rural youths were also given skill training on the production of quality seedlings on vegetable crops like brinjal, tomato, chilli, etc through portray method.

#### After KVK intervention

There were about 22 rural youths attended this vocational training during Jan 2010. They were also guided properly during our follow up visits. Few elite youths like, Mr.R.Muthukumaran, Mr. Murugan have first started this commercial production of quality seedlings. On seeing their success now in the Vegakollai village itself there are about 12 shade net nurseries producing the quality seedlings of the above crops. More over on our continuous and intensive efforts, there are about 15 new nursery establishments in the villages around our KVK and as of now in Cuddalore district there are about 500 shade net nurseries involved in the production of quality seedlings on commercial basis and our KVK scientists are offering valuable technology advisories to them

These nurseries are selling the seedlings to the farmers of neighbouring districts and neighbouring states like, Andhra, Karnataka and Orissa. A cashew seedling which costs around Rs. 24 at Tamil Nadu fetches higher market value of about Rs. 48 in the neighbouring states. On an average, farmers get annual average income of Rs. 200000 to Rs. 700000 depending upon the size of the shade net nurseries and the volume of the business

#### CASE 2. ANNA 4 DROUGHT TOLERANT VARIETY

Anna 4 paddy was released during 2009 and is a semi dwarf, erect and non-lodging drought tolerant variety. The Cuddalore district has considerable area under rainfed rice especially in Nallur, Mangalore and also part of Bhuvanagiri and Vriddhchalam blocks during samba season. Generally, farmers get very low yield mainly under rainfed situation due to use of local varieties and moisture stress.

#### Interventions of KVK, Vridhachalam

During Samba 2012-13, this KVK has introduced this drought tolerant variety ANNA 4 to the above rainfed area under OFT programme. The farmers were trained well on improved production technologies for this rainfed rice and also they were explained about the performance of ANNA 4 paddy variety. The OFT programme was conducted in Sathiyam, Vaiyankudi and Thatchukadu areas. The farmers have realized a increase of 23.81% yield over ruling Kar variety. The net return from the ANNA 4 variety was Rs. 43485/- per ha than of Rs. 34557/- from local rice variety. Besides, the farmers were also impressed with the performance of ANNA 4 in terms of establishment, tiller production and non lodging characteristic until harvest. ANNA 4 variety has slender white rice compared local kar (red bold) and fetches more market value than local kar (red bold).

#### **Impact of intervention**

A farmer named Mr. Ram Jegathesh from Thatchukadu village of Parangipettai block cultivated ANNA 4 rice variety in his field at OFT trial in 2 ha. He had followed all agronomic and plant protection practices as recommended. He showed excellent yield performance in his field even though the entire cauvery delta zone suffered out of severe water scarcity during this samba season. More over as the crop stand was good in his field, during a field assessment made by the Director of Extension Education and the Programme Co-ordinator of this KVK it has been decided to procure TFL seed from this farmer for distribution to the local farmers. Accordingly we procured 1535 kg of TFL seed from this farmer with the approval of the honourable Vice Chancellor of Tamil Nadu Agricultural University. The farmer received "Best farmer" Award from the Honourable Minister for Agriculture, Tamil Nadu for the year 2013. The farmer has produced more than 3 tons of TFL seed during 2013 for further horizontal spread. This year 52 farmers adopted this variety in about 500 acres.

#### CASE 3. AREA SPECIFIC MINERAL MIXTURE

TANUVAS evolved area specific mineral mixture "TANUVAS – SMART" mineral mixture and which is much than the conventional mineral mixture. About 50 g of TANUVAS – SMART mineral mixture should be supplemented to cows daily, which means that a farmer having five cows would be able to save about Rs 1000 / year.

#### Intervention of KVK, Vridhachalam

On farm trial on the assessment of mineral mixture "TANUVAS – SMART has been conducted during the period 2012- 13 at Sathiyavadi village, Vridhachalam Taluk. Totally 40 cows were taken for assessment (20 for control and 20 for treatment) with the following technological options.

Technology option-1 (Farmer's practice) – No mineral mixture

Technology option -2 (TANUVAS Mineral mixture)

Technology option -3 (Area specific mineral mixture)

Finally it was found that Area specific mineral mixture fed cows produced more milk (3-4 liters/day) compared to ordinary mineral mixture (2-3 liters/day) and control (1-2 liters/day).

**Before intervention:** Poor milk yield, unhealthy and poor consumption rate of dairy cows.

**After intervention**: After intervention, dairy cows gave more milk and the external appearance was also good and healthy. On seeing the success of this trial and on our subsequent intensive trainings now more than 200 farmers are using this mineral mixture for their dairy cows.

#### CASE 4. INTEGRATED FARMING SYSTEM UNDER WETLAND SITUATION

Integrated farming system is a holistic approach which is nothing but integration of agriculturally allied enterprises along with the cropping with the objectives of increasing income and recycling of farm wastes and by products to sustain the soil productivity. The allied enterprises were selected based on the resource availability and agro ecological situation. The efficiency of the component linkages was evaluated predominately on the basis and employment generation with the possibility of recycling the organic wastes.

Earlier the small farmers followed cropping system alone (Rice-rice fallow pulses) in their farm. They earned low yield and income from the crop due to aberrant weather situations like drought, flood and cyclone etc. and also they faced unemployment combined with no income during the off season.

#### **KVK, Vridhachalam intervention**:

The integrated farming system experiments were conducted at wetland since 2012 onwards at this Kendra. Integration of crop along with fish, poultry and vermi compost unit in the wet land system under 1 ha of land. The crop (Rice-Maize/cotton-) is cultivated in 0.9 ha of land. The density of fingerlings stockings 1000 is nos. The poultry shed is erected over the fish pond with 50 nos. poultry breed of Vanaraja and Giriraja. The product from the crop like broken rice, maize grains and oil cakes were fed to poultry. The poultry droppings and rice bran, oil cakes were supplied as a feed to the fish. The byproducts were efficiently recycled in IFS through this the cost of production is greatly reduced simultaneously net income generated (Rs.3,61,312) is increased and more employment opportunity is created (1200 man days /year) is increased. During 2012-13 three nos. of wet land FLDs were conducted in Alichikudi, Gopurapuram and Puliyur villages .Subsequently IFS based intensive trainings were arranged for the local farmers and extension functionaries.

#### **After intervention:**

After the technological backstopping provided by the KVK, Vridhachalam many farmers realized the benefits of IFS (wetland). They have shifted their cropping pattern and farming system from conventional to integrated farming system in order to attain the sustainable livelihood. The farmers have obtained higher production and income throughout the year. The economic and society status of the farmer is certainly by this intervention. In one hectare of wet land systems a farmer could get a net additional income of Rs.1,08,350/- from the allied enterprises apart from his crop component.

#### Feedback from the farmers:

Integration of crop cultivation along with fish and poultry rearing is the profitable, sustainable and employment generating technology. The financial status of the farmer is improved by this intervention. The farmers were satisfied with this intervention.

#### Horizontal spread

Within a short period of 2012-14, now through interactive efforts in collaborative with local extension functionaries now about 25 Nos. farmers have established their own wetland IFS system in their farms, especially in Karveppilankurchi and Chinnakanadi areas.

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

#### 1. Analyzing the effectiveness of the on and off campus training programmes

The following methods were employed to assess the effectiveness of the on and off campus training programmes.

- a. Obtaining formal feed back at the end of each training programme in the prescribed format. This revealed the effectiveness of Subject Matter Specialist, delivery of subject and the content of the training. For each and every training such analyses were carried out and based on the feedback necessary corrections were done in the training methodologies
- b. Informal discussion at the end of the training period to assess the impact of the programme
- c. For certain very important vocational trainings we assessed the pre and post training knowledge level of the trainees by employing participatory methods.
- d. Regular follow up / mobile contacts etc.,

#### 2. Demonstrations and diagnostic field visits

- a. Participatory appraisal techniques
- b. Informal discussion
- c. Personal contacts (Farm and Home visits/telephone calls/SMS communications
- d. By assessing the percentage of adoption through casual discussion and questionnaire methods

#### 4. Other extension activities (Exhibitions /Newsletter/KVK literature/Media activities/FFS/Field days etc.,)

- a. Feed back register
- b. Informal discussion
- c. Responses through our social media activities (Face book activities)

## **PART XII - LINKAGES**

## 12.A. Functional linkage with different organizations

This Kendra has developed a strong functional linkage with Govt. and Non-Govt. organizations for conducting training programmes, demonstrations, seminar, campaigns, farm advisory service, farmers study tour and other extension activities to achieve the Krishi Vigyan Kendra mandates. The details of the collaborative activities carried out are furnished below.

Name of Organization	Nature of linkage
Dept. of Agriculture	◆ Assessing the training needs of farmers in areas of Crop improvement, production, protection and mechanization
	♦ Mid monthly and Monthly Zonal Workshop
	♦ FLD – Field day
	◆ Participated in the training programme
	◆ Watershed & Waste land development programme
	◆ Seedling supply
	♦ District level farm improvement committee
	♦ In service training to AOs /AAOs
	♦ Off campus training programme
	♦ Farm advisory services
	◆ Seed farm- seed production meeting
	♦ ATMA implementation
	◆ Precision farming project
Dept. of Horticulture	◆ Assessing the training needs of farmers in areas of Crop improvement, production, protection and mechanization
	♦ Off campus training programme
	♦ Collaborative training programme
	◆ Seedlings supply
	♦ Demonstration
	♦ NHM training on cashew, mango, banana, chillies and loose flowers
	◆ Precision farming project
Annamalai University,	♦ Rural agricultural work experience programme
Chidambaram	♦ U.G. and P.G. students visit to KVK
	♦ Training to FSC clubs
TANUVAS, UTRC, Cuddalore	♦ Resource persons for training
Agricultural Extension Wing,	♦ Off campus training
Department of agriculture (TANCOF)	◆ Seed supply & Watershed development
	◆ Training on oil seed production technology
	, o
Department of Animal husbandry	♦ Advisory service
Collectorate, Cuddalore	♦ Grievance day meeting
	◆ NLC expansion programme-alternate employment for displaced riots
	♦ Agricultural production council meeting
	◆ Periodical technical / consultative meeting

## Table 12. A contd..

	Table 12. A Contu
Mahalir Thittam / DRDA Cuddalore	◆ Sponsored training
	♦ SGSY – SHG training
	◆ Skill up-gradation programme
	◆ Vazhalnthukattuvom project
Higher Secondary Schools	♦ Awareness campaign
	◆ NSS campaign
NGOs	♦ Awareness campaign
	◆ Training programme
	◆ Demonstration
NABARD, Cuddalore	◆ Farmers group discussion
	◆ TTC meetings
	◆ Trainings to farmers
Agriculture Engineering Dept.	◆ Rain water harvesting programme
Govt. of Tamil Nadu	◆ Training on agricultural implements and river basin development
	◆ Resource person for department training programmes
ZRC, Coimbatore	◆ Training on power tiller operation, maintenance and its attachments
	◆ Implements supply
Dept. of Millets, TNAU, Coimbatore	◆ FLD in kodomillet and maize
	◆ Seed supply
Dept. of Forage crops, TNAU, CBE	◆ FLD and OFT on forage crops
NGO- KVKs	◆ Training and exposure visit
	◆ Seed materials supply & FLD / OFT discussion
WTC, Tamil Nadu Agricultural	◆ Drip and sprinkler unit supply
University, Coimbatore	◆ Technical support
	◆ Training on micro irrigation
Indian Bank, Vriddhachalam	◆ Training programmes
AIR,Puducherry	◆ Helps to popularize the latest technology
	•

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

Name of the scheme	Role of KVK	Date/ Month of initiation	Funding agency	Amount (Rs.)
NADP – SSI				
Training				
Agriculture	Conducting training to 600 Nos.of beneficiary farmers in 30 batches in the following blocks Cuddalore, Annagramam, Panruti, Nallur, Kurinchipadi Kattumanarkoil, Vridhachalam block	2013-14 (conducted during 2014-15)	NADP	4,56,000

## 12.C. Details of linkage with ATMA

a) Is ATMA implemented in your district

Yes

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

Coordination activities between KVK and ATMA during 2014-15

		etween KVK and ATMA	No. of	No. of			
S. No.	Programme	Particulars	programmes attended by KVK staff	programmes Organized by KVK	Other remarks (if any)		
01 Meetings		<ol> <li>GB meeting</li> <li>Technology         advisory meeting</li> <li>ATMA         functionaries,         farmers and</li> </ol>	10 8	1	-		
02	Research	scientists interaction meet -	-	-	-		
02	projects						
		<ul><li>ATMA Farm Schools</li><li>Crop advisory</li></ul>	5				
03 Training programmes		Trainings Training for the block level BTM and SMS	5 10	4	-		
04	All block level		15	5	<ul> <li>Panchakavya preparation</li> <li>Market based extension</li> <li>Crop management techniques</li> </ul>		
05	Extension Progra	mmes			•		
	Kisan Mela	Farmers day	1	1	TRRI Adthurai and TNAU Coimbatore		
	Exposure visit	-	-	-	-		
	Exhibition	-	2	2	-		
	Soil health camps	Soil health camp organized by ATMA	5	2	-		
Animal Health Campaigns		Animal Health Campaign- Cuddalore	3	-	-		
	Others (Pl. specify)	-	-	-	-		
06	Publications		Ni	l			
07	Other Activities (Pl. specify)	Nil					

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

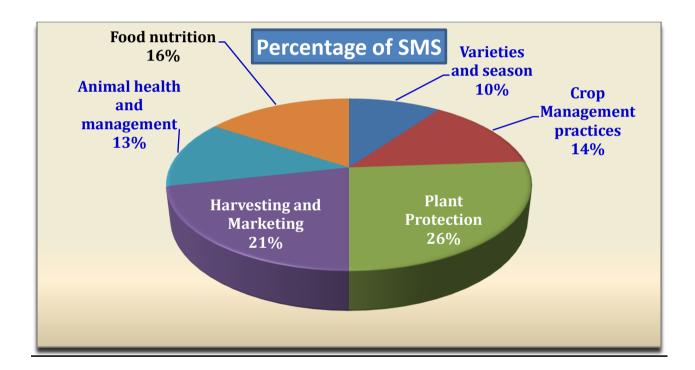
12.E. Nature of linkage with National Fisheries Development Board : Nil

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

One project on Sustainable sugarcane Initiatives to farmers were conducted under NADP- RKVY during 2013-14 at KVK, Cuddalore. There are 600 farmers were benefited from the training. Training on single chip bud making, drip irrigation, protray seedlings and management, planting of seedlings and management in main field were demonstrated to the trainees.

#### 12. G Kisan Mobile Advisory Services

A mobile advisory account has been created at the farmers' portal (KMAS) during 2014-15. Through Kisan advisory services KVK, Cuddalore has given advisory services to farmers like crop management practices based on climate, selection of suitable season and varieties and other management practices like fertilizer and weed management. Based on pest and disease outbreak we have also given advisory services to the farmers. So far 534 no. of farmers were registered and benefitted by this service in the Cuddalore district and 172 SMS was sent to the beneficiaries through the portal.



## PART XIII- PERFORMANCE OF INFRASTRUCTURE IN KVK

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

		Year		Detail	s of production		Amou	nt (Rs.)	
Sl. N o.	Demo Unit	of establi shmen t	Are a (ha)	Variety	Produce	Qty.	Cost of inputs	Gross income	Remarks
1.	Hi-Tech Nursery	2009	-	Vegetable seedling	Chilli,brinjal	-	-	-	For Demo purpose only
2.	Poultry Demo unit	2009	-	Vanaraja Chicks	Vanaraja Chicks	100	Rs.15 0/chic k	3000	Vanaraja chicks for FLD beneficiar y farmers
3.	Goat shed	2009	-	Tellicherry Goat	Tellicherry Goat	4 nos.	Rs.24 0/kg of live weigh t	25,300	For Demo as well as FLD purpose
4.	Vermicom post	2012	-	Vermicompo st	Vermicompost	1090 kgs	Rs.6/k	-	For Demo purpose only
5.	Coirpith Compost	2013	-	Coirpith compost	Coirpith compost	-	-	-	For Demo purpose only
6.	Roof	2013	-	Tomato	Amman sri	-	-	-	
	Garden			Brinjal	Ujala	-	-	-	
				Greens	Amaranthus	-	-	-	For Demo
				Lablab	Co (GB)14	-	-	-	purpose
				Mint	local	-	-	-	only
				Coriander	Local	-	-	-	
				Green chillies	Arka Meghna	-	-	-	
7.	IFS model unit	2013	-	Hen and Fish	Namakkal chicks and cat fish	-	-	-	For Demo purpose only
8.	Mushroom production unit	2013	-	Oyster mushroom	mushroom	-	-		For Demo purpose only
9	Medicinal plant garden	2013		Medicinal plant	Insulin ,aloe vera,etc.	1350 no.of seedling	Rs.20/ seedli ng	27,000	For Demo purpose and for sale.

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

Name	Date of Date	Date of \$ 7	å 🦳	<b>□</b> Details of production			Amount (Rs.)			
of the crop	Date of sowing	harvest	Are (ha	Type of		Qty.	Cost of inputs	Gross income	Remarks	

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

Sl.	Sl. Name of the		Amou		
No.	Product	Qty	Cost of inputs	Gross income	Remarks
2.	Vermicompost	1090kgs	Rs.6/kg	Rs.6540/-	-

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

Sl.	Name of the animal	Details of production			Amour		
No	/ bird / aquatics	Breed	Type of Otro		Cost of	Gross	Remarks
	/ Diffu / aquatics	Breeu	Produce	Qty.	inputs	income	
1.	Goat	Tellicherry	Goat	4 nos	Rs.240/kg	Rs.25,300	-
					of live		
					weight		

## **13.E.** Utilization of hostel facilities: Accommodation available (No. of beds)

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
April 2014	5	13	-
May 2014	5	10	-
June 2014	3	9	-
July 2014	5	12	-
August 2014	3	9	-
September 2014	2	8	-
October 2014	1	4	-
November 2014	10	26	-
December 2014	12	19	-
January 2015	4	12	-
February 2015	1	4	-
March 2015	1	9	-

## 13.F. Database management

S. No	Database target	Database created
1	Resource inventory of the district	Completed
	1. Nine fold classification of land	
	2. Number and size of operational holdings	
	3. Weather parameters of the district (for minimum 10 years)	
	4. Details of soil profile	
	5. Detailed cropping pattern (for minimum 10 years)	
	6. Area, production and productivity of major crops	
	7. Details of livestock wealth of district	
	8. Production and productivity of livestock produces	
	9. Area under irrigation from different sources	
	10. Seasonal availability of labour	
	11. Trend in wholesale price of major crop and livestock products(for minimum 10 years)	
	12. Details of input agencies	
	13. Details of infrastructural facilities available for production, post harvest and marketing	
	14. Details of institutional credit facilities	
	15. Any other relevant to district	

2	Farmers database	Completed
	Details of farmers	
3	Technology inventory for the district	Completed
	Details of suitable technologies for a district with their details	
4	Database for technologies assessed and refined Technologies taken up for assessment	Completed
	and refinement with their attributes	
5	Frontline demonstrations database	Completed
	Details of crops and enterprises along with technologies identified for demonstration	
6	Training database	Completed
	Details of training programmes across all categories and types of participants	
7	Database of extension programmes	Completed
	Details of extension activities conducted with types of participants	
8	Seeds and Planting material database	Completed
	Details of crops along with varieties produced and sold	
9	KVK inventory of assets	Completed
	Details of inventions including all assets explaining year of purchase, present condition	
	etc	
10	KVK account database	Completed
	Various accounts along with their sanction, expenditure etc	

## 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	State Bank of						
Institute	India						
	State Bank of India	Vriddhachalam	00954	Main	11074361787	000240	SBIN0000954
With KVK	State Bank of India	Vriddhachalam	00954	RF-Farm	11074361743	000662	SBIN0000954
	State Bank of	Vriddhachalam	00954	RF-	11074361754	-	SBIN0000954
	India			Buliding			

#### 14.B. Utilization of KVK funds during the year 2014-15 (Rs. in lakh)

17.D.	14.D. Cuitzauon of KVK funds during the year 2014-13 (Ks. in lakii)								
S. No.	Particulars	Sanctioned	Released	Expenditure					
A. Re	curring Contingencies		•						
1	Pay & Allowances	9500000	0	9930782					
2	Traveling allowances	111000		151057					
		-	9960633	-					
3	Contingencies								
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	50000	-	228325					
В	POL, repair of vehicles, tractor and equipments	50000	-	144831					
С	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	20000	-	74866					
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	20000	-	76193					

E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	100000	-	100000
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	60000	-	59958
	Integrated Farming system	10000	-	45585
G	Training of extension functionaries	10000	-	24890
Н	Maintenance of buildings	10000	-	49001
I	Extension activities	10000	-	47387
J	Farmers Field School	10000	-	30000
K	Library	0	-	3503
TOTA	aL (A)	9961000	9960633	10966378
B. No	n-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)	-	-	-
TOTA	AL (B)	-	-	=
C. RE	VOLVING FUND	-	-	-
GRAN	ND TOTAL (A+B+C)	9961000	9960633	10966378

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

Year	Opening balance as on 1 <sup>st</sup> April	Income during the year	Expenditure during the year	Net balance in hand as on 1 <sup>st</sup> April of each year
April 2012 to March 2013	352235.72	123220	36106	439349.72
April 2013 to March 2014	439349.72	138650	379229	198770.72
April 2014 to March 2015	198770.72	120615	115619	203316.72

Status of revolving farm (Rs. in lakh) for the three years

Year	Opening balance as on 1 <sup>st</sup> April	Income during the year	Expenditure during the year	Net balance in hand as on 1 <sup>st</sup> April of each year
April 2012 to March 2013	446711	458279	410440	494550.0
April 2013 to March 2014	494550	348210	477056	365704.01
April 2014 to March 2015	365704.01	383644	510586	238762.01

## 15. Details of HRD activities attended by KVK staff during 2014-15 $\,$

Name of the staff	Designation	Title of the training programme	Institute where attended	Dates
Dr.V.Vijayageetha	SMS (Seed science and	ATMA-Strategic planning	JDA, Tirunelveli	2.6.14-
	technology)	training		06.06.14
Dr. T. Saravanan	SMS (Plant Pathology)	IPM in important crops of		10.09.2014-
		Puducherry, Tamil Nadu and Kerala "	KVK, Puducherry	12.09.2014
Dr.M.Malarkodi	SMS (Soil science)	Organic certification and	NCOF, Bangalaore	13.10.14-
		internal control system		18.10.14

Dr.S.Kannan	SMS(FS&N)	Food and nutritional security of the rural house holds-role of women	MANAGE	18.10.14
Dr.K.Venkata lakshmi	SMS (Agronomy)	Integrated farming system	DEE, TNAU, Coimbatore	27.10.14
Dr.S.Kannan	SMS(FS&N)	Frontier home science technologies for knowledge and economic empowerment	ZPD zone VIII, BANGALORE	28.10.14- 30.10.14
Dr.K.Venkata lakshmi	SMS (Agronomy)	Mandated activities of KVK	KVK, Thrissur	18.11.14 25.11.14
Dr.V.Vijayageetha	SMS (Seed science and technology)	PIMA (Participatory impact arepalayam, Erode)	MYRADA, KVK, Erode	18.11.14- 25.11.14
Dr.T.Saravanan	SMS (Plant pathology)	Farmers Field school	TNAU, Coimbatore	20.11.14 - 21.11.14
Dr.T.Saravanan	SMS (Plant pathology)	Commodity futuristic market	CARDS, TNAU	25.11.14 - 26.11.14
Dr.V.Vijayageetha	SMS (Seed science and technology)	Pre and post harvest seed crop management techniques for improving productivity of agricultural and horticultural crops and their marketability	TNAU, Coimbatore	2.12.14- 24.12.14
Dr.S.Kannan	SMS (FS&N)	Promoting the market potential of livestockand poultry products	DEE, TANUVAS	29.12.14- 30.12.14
Dr.M.Malarkodi	SMS (Soil science)	Soil Resilience	AC&RI, Madurai	21.01.15- 22.01.15
Dr.K.Venkata lakshmi	SMS (Agronomy)	Oil palm production technologies	ARS, Pattukottai	24.2.15
Dr.K.Venkata lakshmi	SMS (Agronomy)	Bamboos its importance, utilization and conservation	IFGTB, Coimbatore	2.3.15

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

Farmers Field School	QUALITY SEEDLING PRODUCTION TECHNIQUES IN HORTICULTURAL CROPS

- Farmers Field school has been conducted at Gunamangalam, Kattumannarkoil block with the aim to upscale the knowledge of farmers regarding to latest technologies in seedling production in horticultural crops.
- ➤ This programme has been conducted during the period of 20.11.2014 to 6.3.15.
- ➤ Totally 25 nos. of farmers were registered and participated in this course.
- The various topics like quality seedling production for gourds, small onion and flower crops, organic farming in vegetable seedling production ,identification and management of pest and disease in nursery were covered by the scientist of this KVK *viz.*, Dr.V.Vijayageetha (SST), Dr.T.Sarvanaan (PP), Dr.M.Malarkodi (SS&AC)). Dr.K.Venkatalakshmi, SMS (Agronomy) and Dr.S.Kannan has co-ordinated the programme.

#### The following is the lesion schedule of the FFS programme.

S.No	Date	Title	Name of the Scientist
1	18.11.14	*Introduction about farmers field school	Dr.S.Kannan&
		*Importance of production of quality seedling in	Dr.V.Vijayageetha
		horticultural crops	

2	28.11.14	Quality seedling production in small onion,annual moringa	Dr.V.Vijayageetha
		and cluster bean	
3	04.12.14	Quality seedling production in all types of gourds	Dr.V.Vijayageetha
4	12.12.14	Quality seedling production in jasmine, tuberose and	Dr.V.Vijayageetha
		marigold etc	
5	19.12.14	Coir compost (coco peat)production technology	Dr.M.Malarkodi
6	02.01.15	Nutrient management in nursery	Dr.M.Malarkodi
7	09.01.15	Protray method of seedling production	Dr.K.Venkatalakshmi
8	23.01.15	Organic farming in vegetable seedling production	Dr.K.Venkatalakshmi
9	31.01.15	Identification of pest and diseases in nursery	Dr.T.Sarvanaan
10	06.02.15	Management of pest and diseases in nursery	Dr.T.Sarvanaan
11	13.02.15	Biological control of the diseases in quality seedling	Dr.T.Sarvanaan
		production	
12	20.02.15	Introduction to shade nets and poly houses, construction	Dr.M.Malarkodi
		and uses	
13	27.02.15	Post harvest technology of vegetables and flowers	Dr.S.Kannan
14	06.03.15	Marketing strategies successful cases and importance of	Dr.S.Kannan
		group formation	

#### **SUMMARY FOR 2014-15**

#### I. TECHNOLOGY ASSESSMENT

#### Summary of technologies assessed under various crops

Thematic areas	Crop	Name of the technology assessed	No. of trials
Varietal Evaluation	Ragi	Assessment of different Ragi varieties for salt affected soil	6
	Ground nut	Assessment of drought tolerant Ground nut variety	3
	Bhendi	Assessment of suitable Co (hy) 1 Bhendi hybrid for Cuddalore district	5
	Brinjal	Assessment of suitable brinjal hybrid for Cuddalore district	10
Integrated Crop Management	Direct seeded paddy	Assessment of effective weed control measures in direct seeded paddy	5
	Rice fallow pulses	Assessment of different management strategies to mitigate drought in rice fallow pulses	5
Others	Coco peat bio conversion	Assessment of coco peat bioconversion techniques and its performance under portray nursery	5
Total	7		39

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

Crop	Thematic	Name of the technolog	No. of	No. of	Area	Yield (	(q/ha)	% chan ge in yield	Other parameters *Economics of demonstration (Rs./ha)					ration	*Economics of check (Rs./ha)				
Стор	area	y demonstr ated	KV Ks	Farm er	(ha)	Demo ns ratio n	Che ck		Demonstrati on	Check	Gross Cost	Gross Retur n	Net Retur n	** BCR	Gros s Cost	Gross Retur n	Net Retur n	** BCR	
Black gram	Varietal demonstra tion	Demonstrat ion of Black gram MDU 1	-	10	2	7.60	6.25	21.6	No.of pods/plant – 30 No.of seeds/plant - 7.4	No.of pods/plant -26 No.of seeds/plan t -6.2	19500	47500	28000	2.44	1950 0	39063	19563	2.00	
Black gram	Varietal demonstra tion	Demonstrat ion of post emergence herbicide for black gram	-	12	4.8	7.72	6.90	11.9	No.of pods/plant- 22.2 100 seed- weight 82	No.of pods/plant -18.4 100 seed- weight -75	30392	60750	30358	1.99	2394	55650	27258	1.96	
Paddy	Varietal demonstra tion	Demonstrat ion of rice CO 51	-	10	2.4	54.73	49.7	10.0	No.of productive tillers/hill - 22.5 No.of grains/panicle -184.5	No.of productive tillers/hill -20.0 No.of grains/pan icle -165	33,68 0	82,09 5	48,41	2.44	33,6 80	73,12	39,44 5	2.17	
Paddy	Varietal demonstra tion	Demonstrat ion of TNAU rice TRY 3 in salt affected soils	-	10	4	57.64	47.2 5	22.0	No.of productive tillers/hill - 25.7 No.of grains/panicle 139.9	No.of productive tillers/hill -21.1 No.of grains/pan icle-118.5	35,12 0	86,46 0	51,34 0	2.46	33,4 50	70,87 5	37,42 5	2.12	

Direct seeded paddy	Crop manageme nt	Demonstra tion of drought manageme nt technology packages in direct sown paddy	-	10	4 ha	40.79	37.5 1	8.74	No.of productive tillers/hill -17 No.of grains/panicle -198	No.of productive tillers/hill -11 No.of grains/pan icle-174	36,55 0	81,42 8	44,87 8	2.22	37,9 50	77,34 5	39,39 5	2.03
Paddy	Crop manageme nt	Demonstrat ion and farmers participator y seed production of paddy variety ANNA 4 for rain fed areas of Cuddalore district		10	2	43.30	36.8	43.3	No.of productive tillers/hill-16 No.of grains/panicle 205	No.of productive tillers/hill -10 No.of grains/pan icle-187	35,50 0	58,63 0	42440	2.19	36,2 00	66240	30740	1.86
Groun d nut	Crop manageme nt	Demonstra tion of chiseling in ground nut under alfisols	-	10	4	21.51	18.1	21.5	No.of pods/plant-15 100 seed weight-38	No.of pods/plant -12 100 seed weight-35	32,50	1,18,3 05	85,80 5	2.64	31,5 00	99,77 0	68,27 0	2.18
Lab lab	Varietal demonstra tion	Demonstra tion of Bush type lablab CO (GB) 14	-	10	4	74.50	52.1	42.9	No.of pods/plant-18	No.of pods/plant -12	28,00	14582 0	11782 0	5.20	2546 0	81452	55992	3.19
Turmer ic	Disease manageme nt	Demonstrat ion of IDM for rhizome rot manageme nt in turmeric	-	5	2.5 ha	85.62	75.5 0	13.4	Rhizome rot incidence - 4.10 No.of fingers/plant - 8.75	Rhizome rot incidence -19.15 No.of fingers/pla nt -6.05	41750	1,858 86	15413 6	4.45	30,1 52	1,66,0 52	12590 0	4.13

Banana	Crop manageme nt	Demonstrat ion of high density planting in banana	-	5	2.5 ha	452.0	348. 0	29.8	No.of hands/bunch No.of fingers/bunch	No.of hands/bun ch No.of fingers/bu nch	58,75 0	1,953 06	1,365 56	3.32	56,7 45	15,34 62	1,478 17	2.70
Fodder sorghu m	Varietal demonstra tion	Demonstrat ion of Fodder sorghum CO 31	-	10	4	1323 tonne	-	-	No.of tillers/plant- 15.45 No.of leaves/plant - 262	No.of tillers/plan t-13.75 No.of leaves/pla nt -240	25,00 0	1,120 00	77000	4.1	sorghu fodder 2.The own pa	purpose farmers addy strate. So ch	cultivated 1 and us have use w availab eck value	ed for d their le near
Livesto ck	Nutrient manageme nt	Demonstrat ion of enriching and ensiling of sugarcane tops for higher milk yield in cows	-	5	2	12	10	16	Palatability- good Daily Intake- 2.3 kg/day	Palatabilit y-not good Daily Intake-1.5 kg/day	15,12	40,52	25400	2.67	16,0 00	36,00 0	20,00	2.25
Poultry	Demonstr ation of Nandhana m II Turkey	Nandhana m II turkey					l	Th	e demonstration	l was withheld	due to bu	dget cons	straint		l			
	Farming system	IFS in wet land	-	2	2(uni ts)	55.85	48.3	15.6	Employmetn generation- 785man days	Employm etn generation - 912 man days	1,21,4 48	4,20,1 53	2,98,7 05	3.45	78,5 20	2,84,5 60	2,06,0 40	3.62
		Dry land	-	2	2(uni ts)	5.05	4.2	20.4	Employment generation-96 man days	Employm ent generation -365 man days	24,27 0	56,16 0	32,09 0	2.31	11,2, 50	20,15	89,07	1.79

FLD conduc ted during 2013- 14	Demonstr ation of Arka meghana chilli hybrid in cuddalore district	Arka meghana chilli seed	I	Irrigat ed	10	2	302	275	282.00	324.00	12.96	42450	14528 0	1028 30	3.42	42754	16785 2	1250 98	
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<sup>\*</sup> Economics to be worked out based total cost of production per unit area and not on critical inputs alone.

\*\* BCR= GROSS RETURN/GROSS COST

Livestock : Nil
Fisheries : Nil
Other enterprises : Nil
Women empowerment : Nil
Farm implements and machinery : Nil
Other enterprises : Nil

Demonstration details on crop hybrids: Demonstration of Arka meghana chilli hybrid in cuddalore district (FLD conducted during 2013-14)

Crop	Name of the Hybrid	No. of farmers	Area (ha)	pa	parameter Economics (Rs./ha)					
				Demonst- ration	Local check	% change	Gross Cost	Gross Return	Net Return	BCR
Chilli	Arka meghana	10	2.5	282.0	324.0	-12.96	42450	145280	102830	3.42
Others (Specify)										

## IV. Training Programme

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

	No. of				No. o	of Partic	ipants			
Area of training	Cours		General			SC/ST			Frand To	tal
	es	Mal	Femal	Tota	Mal	Femal	Tota	Mal	Femal	Total
		e	e	l	e	e	l	e	e	10441
Crop Production										
Weed Management	-	-	-	-	-	-	1	-	-	ı
Resource Conservation	_	_	_	_	_	_	-	_	_	1
Technologies	_	_	_	_	_	_		_	_	
Cropping Systems	3	62	1	63	8	4	12	70	5	75
Crop Diversification	-	-	-	-	-	-	-	-	-	-
Integrated Farming	-	-	-	-	-	-	-	-	-	-
Micro Irrigation/Irrigation	-	-	-	-	-	-	-	-	-	-
Seed production	-	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-	-
Integrated Crop Management	1	23	8	31	11	3	14	34	11	45
Soil and Water Conservation	-	-	-	-	-	-	-	-	-	-
Integrated Nutrient Management	-	-	-	-	-	-	-	-	-	-
Production of organic inputs	-	-	-	-	-	-	-	-	-	-
Horticulture										
a) Vegetable Crops										
Nursery raising	-	-	-	-	-	-	-	-	-	-
Protective cultivation	-	-	-	-	-	-	-	-	-	-
b) Fruits	•									
Micro irrigation systems of orchards	_	-	-	-	-	-	-	-	-	-

Plant propagation techniques									<u> </u>	<u> </u>
c) Ornamental Plants		-	-	-	-	-	-	-	-	-
Nursery Management				<u> </u>					<u> </u>	
d) Plantation crops	-									-
		1		I			I	1	I	<u> </u>
Production and Management technology	1	45	2	47	3	0	3	50	-	50
e)Tuber crops				<u> </u>			l		l	l .
Production and Management										
technology										-
f) Spices										
g) Medicinal and Aromatic Plants				1	Т	T	Т	1	1	1
Nursery management	-	-	-	-	-	-	-	-	-	-
Soil Health and Fertility Manageme	nt	_					_			
Soil fertility management	-	-	-	-	-	-	-	-	-	-
Integrated water management	1	17	12	29	-	-	-	17	12	29
Integrated nutrient management	-	-	-	-	-	-	-	-	-	-
Production and use of organic inputs	-	1	-	-	-	-	-	-	-	-
Management of Problematic soils	-	ı	-	-	-	-	-	-	-	-
Micro nutrient deficiency in crops	-	-	-	-	-	-	-	-	-	-
Nutrient use efficiency	-	-	-	-	-	-	-	-	-	-
Soil and water testing	-	-	-	-	-	-	-	-	-	-
				•	•		•	•		•
<b>Livestock Production and Managen</b>	nent	_			r			1		
Poultry Management	-	-	-	-	-	-	-	-	-	-
Feed and Fodder technology	-	-	-	-	-	-	-	-	-	-
Home Science/Women empowermen	nt									
Value addition	4	64	19	26	16	2	18	82	25	107
Location specific drudgery production	-	-	-	-	-	-	-	-	-	-
Agril. Engineering										
Farm machinery and its maintenance	1	14	13	27	-	-	-	14	13	27
Integrated Pest Management	5	121	25	146	50	29	79	171	54	225
Integrated Disease Management	-	-	-	-	-	-	-	-	-	-
Bio-control of pests and diseases	-	-	-	-	-	-	-	-	-	-
Production of bio control agents		_	-	-	_	_	-	_	_	-
and bio pesticides  Fisheries							<u> </u>			
Integrated fish farming				<u> </u>				1		
Composite fish culture		-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Production of Inputs at site Seed Production				Ī			I	1	<u> </u>	<u> </u>
	-	-	-	-	-	-	-	-	-	-
Planting material production	-	-	-	-	-	-	-	-	-	-
Bio-agents production	-	-	-	-	-	-	-	-	-	-

Bio-pesticides production	-	-	-	-	-	-	-	-	-	-
Bio-fertilizer production	-	-	-	-	-	-	-	-	-	-
Vermi-compost production	-	-	-	-	-	-	-	1	-	-
Organic manures production	-	-	-	-	-	-	-	-	-	-
Mushroom production	-	-	-	-	-	-	-	-	-	-
Others	5	223	21	134	23	1	16	246	22	268
Total	13	284	79	306	80	34	114	368	115	483
Total	13	207	1)	300	00	34	117	300	113	705

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

	No of	No. of Participants										
Area of training	Course		General			SC/ST		(	Grand To	tal		
<u> </u>	s	Male	Femal e	Total	Male	Femal e	Total	Male	Femal e	Total		
Crop Production		1		1			l	l				
Weed Management	-	-	-	-	-	-	-	-	-	-		
Resource Conservation Technologies	-	-	-	-	-	-	-	-	-	-		
Cropping Systems	-	-	-	-	-	-	-	-	-	-		
Crop Diversification	-	-	-	-	-	-	-	-	-	-		
Integrated Farming	-	-	-	-	-	-	-	-	-	-		
Micro Irrigation/Irrigation	-	-	-	-	-	-	-	-	-	-		
Seed production	-	-	-	-	-	-	-	-	-	-		
Nursery management	1	20	-	20	8	-	8	28	-	28		
Integrated Crop Management	1	320	115	435	105	60	165	425	175	600		
Soil and Water Conservation	-	_	-	_	_	-	_	_	-	-		
Integrated Nutrient Management	-	_	-	-	-	-	_	-	-	-		
Production of organic inputs	-	_	-	-	-	-	_	-	-	-		
Horticulture			l				1		l	<u>I</u>		
a) Vegetable Crops												
Off-season vegetables	-	-	-	-	-	-	-	-	-	-		
Nursery raising	-	-	-	-	-	-	-	-	-	-		
Protective cultivation	-	_	-	-	-	-	-	-	-	-		
b) Fruits	-	-	-	-	-	-	-	-	-	-		
Training and Pruning	_	-	-	-	-	-	-	-	-	-		
Cultivation of Fruit	-	-	-	-	-	-	-	-	-	-		
Micro irrigation systems of orchards	-	-	-	-	-	-	-	-	-	-		
Plant propagation techniques	-	-	-	-	-	-	-	-	-	-		
			Į.					I	l .			
Nursery Management	-	-	-	-	-	-	-	-	-	-		
Management of potted plants	-	-	-	-	-	-	-	-	-	-		
Propagation techniques of Ornamental Plants	-	-	-	-	-	-	-	-	-	-		
g) Medicinal and Aromatic Plants	· L	1	ı	1			1		ı			
Nursery management	_	-	_	-	-	-	-	-	_	-		

Dreduction and management technology				1	1	1	I	1	<u> </u>	
Production and management technology	-	-	-	-	-	-	-	-	-	-
a u c u				1	1	T	T	1	T	T
Soil fertility management	-	-	-	-	-	-	-	-	-	-
Integrated water management	-	-	-	-	=	-	-	-	-	-
Integrated nutrient management	-	-	1	-	-	-	-	-	-	-
Production and use of organic inputs	-	-	-	-	-	-	-	-	-	-
Management of Problematic soils	-	-	-	-	-	-	-	-	-	-
Micro nutrient deficiency in crops	-	-	-	=,	-	-	-	-	-	-
Nutrient use efficiency	-	-	-	-	-	-	-	-	-	-
Balanced use of fertilizers	-	-	-	-	-	-	-	-	-	-
Soil and water testing	-	-	-	-	-	-	-	-	-	-
		1		T	1	1	1	1	T	_
Dairy Management	-	-	-	-	-	-	-	-	-	-
Poultry Management	-	-	-	-	-	-	-	-	-	-
Animal Nutrition Management	-	-	-	-	-	-	-	-	-	-
<u></u>		1		1	П	T	T	П	Ι	T
Household food security by kitchen gardening and nutrition gardening	-	-	-	-	-	-	-	-	-	-
Value addition	5	72	14	86	48	19	67	120	33	153
Location specific drudgery production	-	-	-	-	-	-	-	-	-	-
Farm machinery and its maintenance	-	-	=	-	-	-	-	-	-	-
Installation and maintenance of micro irrigation systems	-	-	-	-	-	-	-	-	-	-
Production of small tools and implements	-	-	-	-	-	-	-	-	-	-
Repair and maintenance of farm machinery and implements	-	-	ı	-	-	-	-	-	-	-
Post Harvest Technology	-	-	-	-	-	-	-	-	-	-
Transcription of the second					1	1	I	1	1	1
Integrated Pest Management	1	35	12	47	21	7	28	56	19	75
Integrated Disease Management	-	-	-	-	-	-	-	-	-	-
Bio-control of pests and diseases		-	-	-	-	-	-	-	-	-
Production of bio control agents and bio pesticides	-	-	-	-	-	-	-	-	-	-
Fisheries				I	I		I	I	l.	,
Integrated fish farming	-	-	-	-	-	-	-	-	-	-
		1		Т	ı	T	1	ı	T	1
Seed Production	-	-	-	-	-	-	-	-	-	-
Planting material production	-	-	-	-	-	-	-	-	-	-
Bio-agents production			1	_	-	-	-	-	-	-
	-	-								
Bio-pesticides production	-	-	-	-	-	-	-	-	-	-
					-	-	-	-	-	-
Bio-pesticides production	-	-	-	-				-		

Mushroom production	-	-	-	-	-	-	-	-	-	-
Mobilization of social capital	-	-	-	-	-	-	-	-	-	-
Entrepreneurial development of farmers/youths	-	-	-	-	-	-	-	-	-	-
Others	1	18	7	25	-	-	-	18	7	25
Total	9	465	148	613	182	86	268	647	234	881

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

	No. of				No. of	Particip	ants			
Area of training	Cours		General			SC/ST		G	rand To	tal
Area of training	es	Male	Femal e	Total	Mal e	Femal e	Total	Mal e	Fem ale	Tota l
Nursery Management of Horticulture crops	1	ı	-	-	-	-	ı	-	1	-
Training and pruning of orchards	-	-	-	-	-	-	-	-	-	-
Protected cultivation of vegetable crops	-	-	-	-	-	-	-	-	-	-
Integrated farming	1	17	12	29	-	-	-	17	12	29
Seed production	-	-	-	-	-	-	-	-	-	-
Production of organic inputs	-	-	-	-	-	-	ı	-	1	-
Planting material production	1	-	-	-	-	-	ı	-	1	-
Vermi-culture	-	-	-	-	-	-	-	-	-	-
Mushroom Production	-	-	-	-	-	-	-	-	-	-
Repair and maintenance of farm machinery and implements	1	14	3	17	-	-	-	14	3	17
Value addition	1	18	9	27	2	4	6	20	13	33
Post Harvest Technology	-	-	-	-	-	-	-	-	-	-
Sheep and goat rearing	-	-	-	-	-	-	-	-	-	-
Poultry production	-	-	-	-	-	-	-	-	-	-
Ornamental fisheries	-	-	-	-	-	-	-	-	-	-
Fish harvest and processing technology	-	-	-	-	-	-	-	-	-	-
TOTAL	3	49	24	73	2	4	6	51	28	79

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

	No. of				No. of	Particip	ants			
Area of training	Cours	(	General			SC/ST		G	rand To	tal
Area of training	es	Male	Fema le	Total	Male	Fema le	Total	Mal e	Fema le	Tota l
Nursery Management of Horticulture crops	1	20	-	20	8	-	8	28	-	28
Training and pruning of orchards	-	-	-	-	-	-	-	-	-	-
Protected cultivation of vegetable crops	-	-	-	-	-	-	-	-	-	-
Integrated farming	-	-	-	-	-	-	-	-	-	-
Seed production	-	-	-	-	-	-	-	-	-	-
Planting material production	-	-	-	-	-	-	-	-	-	-
Mushroom Production	-	-	-	-	-	-	-	-	-	-
Value addition	5	62	70	132	9	12	21	71	82	153
Post Harvest Technology	-	-	-	-	-	-	-	-	-	-
Sheep and goat rearing	-	-	-	-	-	-	-	-	-	-
Poultry production	-	-	-	-	-	-	-	-	-	-
Ornamental fisheries	-	-	-	-	-	-	-	-	-	-
Composite fish culture	-	-	-	-	-	-	-	-	-	-
TOTAL	6	82	70	152	17	12	29	99	82	181

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

	No. of				No. of	Particip	pants			
Area of training	Cours		General			SC/ST		G	rand To	tal
Area of training	es	Male	Fema le	Total	Male	Fema le	Total	Mal e	Fema le	Tota l
Productivity enhancement in field crops	1	10	2	12	8	4	12	18	6	24
Integrated Pest Management	2	20	4	24	7	4	11	27	8	35
Integrated Nutrient management	1	18	1	19	2	4	6	20	5	25
Protected cultivation technology	1	-	12	12	7	3	10	7	15	22
Production and use of organic inputs	1	8	6	14	8	1	9	16	7	23
Care and maintenance of farm machinery and implements	1	11	6	17	2	5	7	13	11	24
Information networking among farmers	-	-	-	-	-	-	-	-	-	-
Total	7	67	31	98	34	21	55	101	52	153

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

	No. of				No. of	Particip	ants			
Area of training	Cours		General			SC/ST		G	rand To	tal
The of training	es	Male	Fema le	Total	Male	Fema le	Total	Mal e	Fema le	Tota l
Productivity enhancement in field crops	1	44	12	56	22	11	33	66	23	89
Integrated Pest Management	2	63	14	77	16	14	30	79	28	107
Integrated Nutrient management	1	35	9	44	14	9	23	49	18	67
Protected cultivation technology	2	41	19	60	20	16	26	61	35	96
Care and maintenance of farm machinery and implements	2	74	16	90	21	-	21	95	16	111
Management in farm animals	1	23	4	27	3	29	32	26	33	59
Total	9	280	74	354	96	79	165	376	153	529

## **Sponsored training programmes**

		No. of				No. o	of Partici	pants			
S.No.	Area of training	Courses		General			SC/ST		Grand Total		
		Courses	Male	Female	Total	Male	Female	Total	Male	Female	Total
1	Crop production and	d managen	nent								
1.a.	Others (pl.specify)	1	250	150	400	145	55	200	395	205	600
	IPM on vegetables	1	65	10	75	18	7	25	83	17	100
	PPVR&RI	1	45	15	60	27	13	40	72	28	100
	PPVR&RI	1	75	8	83	10	7	17	85	15	100
	ATMA	5	324	173	497	168	85	253	492	258	750
	NABARD	2	101	43	144	86	44	130	187	87	274
3	Agricultural Extens	ion									
3.a.	Others	2	82	37	119	74	33	107	156	70	226
	Total	13	942	436	1378	528	244	772	1470	680	2150

## **Details of Vocational Training Programmes carried out for rural youth**

		No. of				No. o	f Partici	ipants			
S.N	Area of training	Cours		General			SC/ST		G	rand To	tal
0.	Tire of truining	es	Mal	Fema	Tot	Mal	Fema	Tot	Mal	Fema	Tot
			e	le	al	e	le	al	e	le	al
1	Crop production and managem	ent									
1.a.	Integrated crop management(IFS)	1	26	2	28	5	0	5	31	2	33
1.b.	Organic farming	1	41	7	48	12	5	15	53	12	65
2		1	1	1		1	1		1	1	
2.a.	Value addition	1	8	15	23	3	14	17	11	29	40
3.											
3.a.	Vermi-composting	-	-	-	-	-	-	-	-	-	-
3.b.	Production of bio-agents, bio- pesticides,	-	-	-	-	-	-	-	-	-	-
	bio-fertilizers etc.										
3.c.	Mushroom cultivation	1	10	2	12	4	4	8	14	8	20
3.d.	Nursery, grafting etc.	1	14	4	18	8	7	15	22	11	33
	<b>Grand Total</b>	5	99	30	129	32	30	60	131	62	191

## V. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	Total
Advisory Services	500	500	25	525
Diagnostic visits	12	122	15	137
Field Day	10	295	15	310
Group discussions	11	175	16	191
Film Show	10	192	12	204
Self -help groups	4	100	4	104
Kisan Mela	1	412	12	424
Exhibition	2	513	20	533
Scientists' visit to farmers field	25	177	10	187
Plant/animal health camps	3	111	-	111
Farm Science Club	-	-	-	-
Farmers' seminar/workshop	7	192	10	202
Method Demonstrations	15	244	15	259
Celebration of important days	4	63	2	65
Exposure visits	6	600	-	600
Total	610	3696	156	3852

## **Details of other extension programmes**

Particulars	Number
Extension Literature	13
News Letter	4
News paper coverage	37
Technical Articles	4
Technical Reports	5
Radio Talks	9
TV Talks	-
Animal health camps (Number of animals treated)	2
Total	74

#### VI. PRODUCTION OF SEED/PLANTING MATERIAL

## Production of seeds by the KVKs: Nil

Crop category	Name of the crop	Name of the variety (if hybrid pl. specify)	Quantity of seed (q)	Value (Rs)	Number of farmers

## Production of planting materials by the KVKs

Crop category	Name of the crop	Name of the variety (if hybrid pl. specify)	Number	Value (Rs.)	Number of farmers
Fruits	Cashew grafts	VRI 3	9803	235272	300
	Jack grafts	PLR 1	50	2500	25
Medicinal and Aromatic	Insulin,Aloe vera	-	1350	27000	300
Ornamental plants	Crotons	-	56	10	1120
Total			11,259	2,64,782	1745

#### **Production of Bio-Products**

Die Duedwete	Name of the his musdust	Quantity	Volue (Da)	No of Formore	
Bio Products	Name of the bio-product	Kg	Value (Rs.)	No. of Farmers	
	Vermicompost	1090	6540	10	
Total		1090	6540	10	

## Production of livestock and related enterprise materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers	
Dairy animals					
Others (Pl. specify) Goat	Tellicherry goat	4	25300	2	
Total					

## VII. DETAILS OF SOIL, WATER AND PLANT ANALYSIS 2014-15

Samples	No. of Samples	No. of Farmers	No. of Villages	Amount realized (Rs.)
Soil	3212	3002	776	81425
Water	3002	2979	959	28830
Total	6214	5981	1735	110255

#### VIII. SCIENTIFIC ADVISORY COMMITTEE

Number	of SACs	conducted	- 1 Nos.	(20.06.2013
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#### IX. NEWSLETTER

Number of issues of newsletter published - 4 Nos. (Quarterly issue)

#### X. RESEARCH PAPER PUBLISHED

Number of research paper published - 5 (3 nos.of full paper+2 nos. of abstracts)

Surfactant producing PGPR for management of rhizome rot of ginger	Sarvanan,T., T.Meganathan and
and Turmeric –Symposium on Challenges and management	K.Nageswari,2015
approaches for crop diseases of national importance –status and	
prospects	
Fungicides and time of application for management of leaf rust	Sarvanan,T and R.Arulmozhiyan,2015
disease in coffee Symposium on Challenges and management	
approaches for crop diseases of national importance –status and	
prospects	
Standardization of vigour test for measuring the vigour status of	V.Vijayageetha,P.Balamurugan and
mustard genotypes-Research Journal of Seed Science.	M.Bhaskaran, 2014,7(3)
Standardization of Polymer seed film coating technique- Inter.	V.Vijayageetha, P.Balamurugan and
Journal of Emerging Technologies In Computational and Applied	M.Bhaskaran, 2014,8(6)
Sciences.	
Maximising red gram yield through integrated agronomic	K.Venkatalakshmi,2014,2(3)
management practices under alkali soil-Research Journal of Forestry	
and Agricultural Sciences.	

XI. DETAILS ON RAIN WATER HARVESTING STRUCTURE AND MICRO-IRRIGATION SYSTEM-Nile of the property of the pro
XXXXXXX

## ON FARM TRIALS



Assessment of effective weed control measures in direct seeded paddy



Assessment of different Ragi varieties for salt affected soil



Assessment of drought tolerant ground nut varieties



Assessment of different management strategies to mitigate drought in rice fallow pulses



Assessment of a suitable Bhendi hybrid for Cuddalore district



Assessment of cocopeat bioconversion techniques and its performance under protray nursery

# Frontline Demonstration conducted at KVK-Cuddalore 2014-15





**Demonstration of Rice CO 51** 

Demonstration of TNAU Rice TRY3 in salt affected soils



Demonstration of drought management technology packages in direct sown paddy



Demonstration and farmers participatory seed production of paddy variety ANNA4 for rain fed areas of Cuddalore district



Demonstration of chiseling in ground nut under alfisols



Demonstration of post emergence herbicide for black gram





Demonstration of enriching and ensiling of sugarcane tops

Demonstration of fodder sorghum CO31

# **ON CAMPUS TRAINING**



Training on Hitech coconut production



Training on Pest and disease management in paddy



Training on value addition in vegetables and fruits



Training on Mechanization in paddy cultivation



Training on use of computer and TNAU agriportal



Training on ICM in groundnut and black gram cultivation

## **OFF CAMPUS TRAINING**



Training on value addition in minor millets at karupanchavadi village



Training on Rat eradication at Kumaramanagalam village



Training on value addition in minor millets at Gunamangalam village



Livestock management in Sathakudal village



Organic input production and uses in Agriculture



Market led Extension training at Karuppanchavadi Village

# **VOCATIONAL TRAINING**





SPONSORED TRAININGS





**Awareness Programme on IPM in Vegetables** 





NADP- Training on sustainable sugarcane initiatives (SSI) to the farmers

# Training to extension functionaries





**DEMO UNIT BASED EXTENSION ACTIVITIES** 





**Hi-Tech Nursery** 

Herbal Garden





**Azolla Production Unit** 

**Mush Room Production Unit** 

# Diagnostic Field Visit



Cotton - Boll shedding at Mangalore



Nutrient management in Groundnut -Kurinchipadi



Watermelon- Low yield at Sri mushnam



Watermelon -Viral disease at Kothattai



Pest and disease in samba paddy- Karupanchavadi



Soil problems -M Parur













**Our Activities in Local News Paper**