

**ANNUAL REPORT 2013-14**

**(FOR THE PERIOD APRIL 2013 TO MARCH 2014)**

**KRISHI VIGYAN KENDRA (CUDDALORE DISTRICT)**

**TAMIL NADU AGRICULTURAL UNIVERSITY  
KRISHI VIGYAN KENDRA – CUDDALORE  
TAMIL NADU, INDIA**

**ANNUAL REPORT (2013-14)**

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

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

KVK Address	Telephone		E mail	Web Address
	Office	Fax		
Krishi Vigyan Kendra Vriddhachalam - 606 001 Cuddalore District Tamil Nadu	04143-238353	04143-238353	<a href="mailto:kvkvri@tnau.ac.in">kvkvri@tnau.ac.in</a>	<a href="http://www.kvkcuddalore.com">www.kvkcuddalore.com</a> <a href="http://www.tnau.ac.in">www.tnau.ac.in</a>

**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	<a href="mailto:registrar@tnau.ac.in">registrar@tnau.ac.in</a>	<a href="http://www.tnau.ac.in">www.tnau.ac.in</a>

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. R.Arunachalam	04143-238896	09952197187	<a href="mailto:kvkvri@tnau.ac.in">kvkvri@tnau.ac.in</a>

**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 31<sup>st</sup> March 2014)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	M/F	Discipline	Highest Qualification (for PC, SMS and Prog. Asstt.)	Pay Scale	Basic pay	Date of joining KVK	Permanent /Temporary	Category (SC/ST/OBC/ Others)
1	Programme Coordinator	Dr.R.Arunachalam	Professor and Head	M	Agricultural Extension	Ph. D	37400-67000-10000 (GP)	59950	04.12.2012	Permanent	OBC
2	SMS (Home Science)	Dr.S.Kannan	Assistant Professor	M	Home Science	Ph. D	15600-39100-8000(GP)	35630	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)	29830	17.04.2013	Permanent	OBC
4	SMS (Agricultural Engineering)	Dr.T.Saravanan	Assistant Professor	M	Pl. Pathology	Ph. D	15600-39100-7000(GP)	29830	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)	27990	02.08.2010	Permanent	OBC
6	SMS (Agronomy)	Dr. K. Venkatalakshmi	Assistant Professor	F	Agronomy	Ph.D.	15600-39100-6000(GP)	27990	23.04.2013	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)	14990	28.02.2011	Permanent	SC
9	Programme Assistant (Computer)	Mr.R.Samundeeswaran	Programme Assistant (Computer)	M	Computer Science	M.C.A.	9300-34800-4400 (GP)	16980	14.11.2012	Permanent	OBC
10	Programme Assistant/ Farm Manager	Mr. R. Rajeshkannan	Farm Manager	M	Horticulture	M.Sc.(Agri)	9300-34800-4400 (GP)	17490	13.08.2010	Permanent	OBC
11	Superintendent cum Accountant	Th. P. Mohandoss	Administrative Officer	M	-	B.Sc	15600-39100-5400 (GP)	22280	14.09.2009	Permanent	SC
12	Jr. Stenographer	Mrs. T. Suganthi Rani	Superintendent	F	-	XII	9300-34800-4800 (GP)	16680	01.12.2008	Permanent	SC
13	Driver	Th. C. Jayabal	Driver	M	-	XI	9300-34800-4400 (GP)	18390	28.11.1986	Permanent	OBC
14	Driver	Th.S.Arul	Driver cum Mechanic	M	-	X	5200-20200-2400(GP)	10310	21.02.2007	Permanent	OBC
15	Supporting staff (Office Assistant)	Th. A. Deivasigamani	Office Assistant	M	-	XII	4800-10000-1300(GP)	6680	27.01.2011	Probationer	OBC
16	Supporting staff (PUSM)	Th. P. Narayanasami	PUSM	M	-		4800-10000-1300(GP)	9320	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:**

**A) Buildings**

S. No.	Name of building	Source of Funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR	1989	309.45	5,00,000	-	-	-
2.	Farmers Hostel	ICAR	1998	236.83	2,05,000	-	-	-
3.	Staff Quarters							
	1	ICAR	1991	102.02	4,92,000	-	-	-
	2	ICAR	1991	102.02	4,92,000			
4.	Demonstration Units							
	Slatted goat rearing	KVK, RF	2009	25.00	50,000	-	-	-
	Hi-Tech nursery	KVK, RF	2009	302.0	1,00,000	-	-	-
	Vermicompost unit	KVK, RF	2012	4.10	12,000	-	-	-
	Mushroom unit	KVK, RF	2013	45.0	10,000	-	-	-
	IFS model unit	KVK, RF	2013	6.00	25,000	-	-	-
	Poultry unit (2 nos) – renovated	KVK, RF	2013	25.0	5,000			
	Ornamental fish culture unit	KVK, RF	2013	6.00	3,000	-	-	-
	Herbal garden model unit	KVK, RF	2013	6.15	2,500	-	-	-
	Roof garden model unit	KVK, RF	2013	100.0	5,000	-	-	-
	Compost yard	KVK, RF	2013	7.00	1,500	-	-	-
5	Fencing	-	-	-	-	-	-	-
6	Rain Water harvesting system	-	-	-	-	-	-	-
7	Threshing floor	-	-	-	-	-	-	-
8	Farm godown	-	-	-	-	-	-	-
9	Jeep shed	ICAR	1995	47.00	58,000	-	-	-
10	Seminar hall	ICAR	1996	224.32	12,00,000	-	-	-

**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	1,41,802	Running
Tractor – MF 1035 (TN 45 A 5582)	1991	1,43,400	4490	Running
Motor cycle-Hero Honda (TN 31V 4421)	2009	48,255	17,290	Running
Tractor - (New)	2011	4,87,500	154 hours	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 2013-14**

Sl.No.	Date	Number of Participants	No. of absentees	Salient Recommendations	Action taken
1.	20.06.2013	22	--	Location specific need based interventions have to be made by the KVK especially in the major crops like ground nut, gingelly, rice and sugarcane.	This KVK laid various OFTs and FLDs on major crops like rice, groundnut, gingelly and sugarcane in the region during the year 2013-14. The interventions include newly released varieties and technologies on crop management and crop protection.
2.				Formulate an OFT on Assessment of suitable cropping pattern utilizing farm ponds both under lined and unlined ponds.	Five On Farm Trails were conducted at Athiyannallur, Thatchakadu and B.Mutlur each in 1 acre. The cropping system like Direct seeded paddy/paddy – rice fallow pulses and groundnut+ pulses (4:1 ratio) were raised for identifying the suitable cropping pattern utilizing the harvested rain water. Among the five farm pond, one pond is lined with high density polyethylene sheets to avoid the percolation, seepage and infiltration losses. Daily weather parameters (Rainfall, Evaporation and Temperature) were recorded. Direct seeded rice, rice fallow pulses and groundnut crops were harvested. The results given under OFT section.

Table 1.8 (contd..)

3.				Include marketing avenues in all the interventions made by the KVK.	This KVK giving trainings and technology advisories to the farmers along with their value addition and market preference.
4.				Involve farmer representatives from village panchayats for the SAC meeting.	The farmers' representative from each block and members from farmer's club will be invited for the SAC meeting in future.
5.				Conduct farmer, extension officials and scientists interaction meet to make issue based interventions.	This KVK conducted interaction meeting on issue based interventions with farmer, extension officials and scientists on 29.10.2013. The leading farmers have participated and given suggestions for plan of action.
6.				Develop master trainers among the farmers (farmer friends/farmer representatives) to facilitate easy dissemination of the technology.	This KVK collected ten leading progressive farmers from each blocks of the districts. Besides, the leading farmers in major crops cultivated in the districts were also collected. The farmers are being invited for the training conducted and they are the master trainers for this KVK for easy dissemination of the technology.
7.				Conduct training on pest and disease management in banana	Off Campus training on hi tech banana cultivation and pest and disease management was conducted on 19.9.2013 at Vazhisothanaipalayam, Cuddalore block. Besides, FLD on Demonstration of IHR banana mixture was also taken up in the banana growing areas in which, pest and disease in banana were demonstrated to the farmers.
8.				Conduct training on cashew HDP and cashew pruning techniques.	A training was organised at Vegakollai village of Panruti taluk on 01.10.13 by Dr.K.Venkatalakshmi, SMS (Agronomy) of this KVK in association with Dr. Anneshrani, Professor and Head, Vegetable Research Station, Palur on the importance and practices involved in HDP in cashew viz., cashew grafting methods, fertilizer application, pruning techniques, drip irrigation and ADA, Panruti explained about the schemes and subsidy pertaining to cashew About 31 farmers were participated in this training.
9.				Give information on newly released varieties and technologies, season and need based information for farm broadcast.	Quarterly schedule of topics on newly released TNAU varieties and technologies, need based crop management activities are being sent to the AIR, Puducherry regularly. This year on seven topics, the scientists of this KVK delivered AIR programmes.
10.				Provide training on value addition in millets and products packaging methods.	Two trainings on value addition and packaging methods in millets have been conducted on 25.06.13 and 14.08.13 to farmers, rural youth and farm women at this Kendra. Totally 39 farmers and SHG members benefited. The trainees were also taken to the business yards of the above entrepreneurs

## 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.	Heavy clay soils	Command areas Rice-rice-pulses; Rice-pulses/ sesame/cotton
2.	Heavy Clay soils	Tankfed areas Rice-pulses
3.	Laterite, red and black soils	Well irrigated areas Sugarcane-ratoon-rice-groundnut (3 yrs); rice-groundnut-sesame
4.	Laterite and black soils	Rainfed 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

S. No	Crop	Area (ha)	Production (Metric tons)	Productivity (kg/ha)
<b>Agricultural crops</b>				
Cereals				
1	Rice	120983	248242	2052
Millets				
1	Sorghum	31	2614	1114
2	Cumbu	1779	5252	2952
3	Maize	13347	23297	1746
4	Ragi	68	191	2809
5	Varagu	1805	4538	2514
Pulses				
1	Redgram	23	20	870
2	Blackgram	51938	29656	571
3	Greengram	3075	1760	572
Oilseeds				
1	Groundnut	9698	34607	3569
2	Gingelly	3051	1970	646
Cash crops				
1	Cotton	5784	14547	428
2	Sugarcane	31064	2948274	95000
<b>Horticultural crops</b>				
Fruits/plantation crops				
1	Cashew nut	32261	5529	171
2	Banana	4133	97421	23572
3	Jack	850	-	4930
4	Guava	611	403	659
5	Mango	513	2277	4438
Vegetables/spices				
1	Brinjal	239	2542	10638
2	Chillies	103	64	437
3	Bhendi	87	757	8700
4	Tapioca	3404	101408	29791
Flower crops				
1	Rose	22	--	--
2	Jasmine-Gundumalli	209	--	--
3	Jasmine-Mullai	394	--	--
4	Crossandra	14	--	--

\*\* Source: Season and Crop Report (2011-12), TN, Dept. of Economics and Statistics, Chennai



## 2.5. Weather data

Month	Rainfall (mm)	Temperature ° C		Relative Humidity (%)
		Maximum	Minimum	
April 2013	15.80	38.72	24.80	72.3
May 2013	3.40	39.79	26.10	73.5
June 2013	64.80	37.17	26.31	73.75
July 2013	61.00	35.68	26.15	74.68
August 2013	523.8	34.76	24.79	74.61
September 2013	117.4	34.52	24.77	79.75
October 2013	156.8	34.40	24.80	79.6
November 2013	201.6	31.06	21.97	78.63
December 2013	54.90	29.55	24.70	84.0
January 2014	0.00	30.74	20.37	81.88
February 2014	14.40	31.9	20.0	79.6
March 2014	0.00	33.2	21.4	78.2
<b>Total/Mean</b>	<b>1214/121.4</b>	<b>34.3</b>	<b>23.8</b>	<b>77.54</b>

\* Source: Regional Research Station, Vriddhachalam, Cuddalore district, Tamil Nadu

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

Category	Population	Production	Productivity
<b>Cattle</b>	384841	120.35 lakh litres	--
<i>Crossbred</i>	--	--	--
<i>Indigenous</i>	--	--	--
<b>Buffalo</b>	--	--	--
<b>Sheep</b>	60397	--	--
<i>Crossbred</i>	--	--	--
<i>Indigenous</i>	--	--	--
<b>Goats</b>	380155	--	--
<b>Pigs</b>	22453	--	--
<i>Crossbred</i>	--	--	--
<i>Indigenous</i>	--	--	--
<b>Rabbits</b>	--	--	--
<b>Poultry</b>	98632	--	--
Hens	--	--	--
<i>Desi</i>	--	--	--
<i>Improved</i>	--	--	--
Ducks	8302	--	--
Turkey and others	--	--	--

Category	Area	Production	Productivity
Fish			--
<i>Marine</i>	57.5 km	25950 MT	--
<i>Inland</i>	45 km	5823 MT	--
Prawn	--	--	--
Scampi	--	--	--
Shrimp	--	--	--

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

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

## 2.8 Details of Operational area / Villages

Sl. No.	Taluk	Name of the block	Name of the village	How long the village is covered under operational area of the KVK (specify the years)	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1.	Chidambaram	Parangipettai	Thachakkadu, Kothattai, B. Mutlur, Athiyanallur,	3 years	Rice, sorghum, blackgram, groundnut, vegetables, livestock, poultry, Inland aquaculture	Water scarcity and improper utilization of existing farm pond/surface water sources	Assessment of suitable cropping pattern utilizing farm ponds
			Ramanathankuppam	One year			Demonstration of Anna 4 paddy variety Integrated Farming System
2.	Vridhachalam	Vridhachalam	New Vennakuli, Vijayamanagaram	One year	Rice, maize, red gram, black gram, ground nut, gingelly, sugarcane, cotton, vegetables, banana, tapioca, livestock, poultry, Inland aquaculture	Soil sodicity	Assessment of the different varieties of paddy for salt affected soil
			Vijayamanagaram	Two years			Integrated Farming System
			M. Patty, Poovanur, Mathur,	Two years			Demonstration of Vegetable Cowpea PKM-1
			M. Patty, Pudukkoraipettai	Two years			Demonstration of Integrated Crop Management practices in VBN 6 blackgram
			Mangalampettai, Kuppanatham, Sathukudal, Vijayamanagaram, Vanamadevi, Sathamangalam	Three years			Demonstration of BSMR 736 Redgram through transplanting method
			Poovanur, Sathukudal, Vijayamanagaram, Co. Ponneri, Alichikudi	Three years			Demonstration of Arka Meghana hybrid Chilli
			Sathukudal, Chinna vadavadi	Three years			Assessment of different management strategies to mitigate drought in paddy
			M. Patty, Poovanur	Three years			Integrated Crop Management practices in Cassava
			Chinna vadavadi	Three years			Demonstration of micronutrient mixture (IIHR Banana Special ) among Banana growers
			Manavalanallur, Chinna vadavadi	Three years			Management of bacterial blight and bacterial streak in paddy
Manavalanallur, T.V. Puthur	Three years	Demonstration of Paddy ADT (R) 49					

Table 2.8 (Contd..)

		Kammapuram	C. Keeranur, Karmankudi	Two years	Rice, maize, red gram, black gram, ground nut, sugarcane, cotton, livestock, poultry	Pest and disease problem in the existing variety BPT 5204	Demonstration of Paddy ADT (R) 49	
			C. Keeranur, Kammapuram, V. Kumaramangalam	Two years		Pest and disease problem leads to low productivity in rice	Management of bacterial blight and bacterial streak in paddy	
			Vrithagirikuppam, Muthanai	One year		Pest and disease problem in direct sown Red gram	Demonstration of BSMR 736 Redgram through transplanting method	
3.	Kattumannarkoil	Kattumannarkoil	Sri Aathivaraganallur	Two years	Rice, red gram, black gram, green gram, ground nut, gingelly, vegetables, livestock, poultry, Inland aquaculture	Pest and disease problem in direct sown Red gram	Demonstration of BSMR 736 Redgram through transplanting method	
			Sri mushnam, Kaliyankuppam, Ambujavallipettai	Two years		Pest and disease problem leads to low productivity in rice	Management of bacterial blight and bacterial streak in paddy	
			Sri Aathivaraganallur	Two years		Low income from crops	Integrated Farming System	
			Sri puthur	One year		Low productivity in local variety and lack of awareness on high yielding hybrids	Demonstration of Arka Meghana hybrid Chilli	
		Komaratchi	Karuppur	Two years		Rice, black gram, red gram, ground nut, gingelly, sugarcane, livestock, poultry	Pest and disease problem in direct sown Red gram	Demonstration of BSMR 736 Redgram through transplanting method
			Rayanallur, Thorukuli, Sendan, Parivilagam,	Two years			Water scarcity	Assessment of different management strategies to mitigate drought in paddy
Ma. Puliyanakudi, Rayanallur, Sendan	Two years		Pest and disease problem leads to low productivity in rice	Management of bacterial blight and bacterial streak in paddy				
4.	Titakudi	Nallur	T. Agaram	Two years	Rice, maize, cumbu, ragi, blackgram, groundnut, sugarcane, livestock, poultry	Soil sodicity	Assessment of the different varieties of paddy for salt affected soil	
			Elangiyanur	One year		Pest and disease problem in the existing variety BPT 5204	Demonstration of Paddy ADT (R) 49	
		Mangalur	Perumulai, Pulivalam	Two years	Rice, maize, cumbu, ragi, varagu, black gram, red gram, ground nut, gingelly, cotton, sugarcane, livestock, poultry	Low productivity in the existing variety of blackgram	Demonstration of Integrated Crop Management practices in VBN 6 blackgram	
						Soil sodicity	Assessment of the different varieties of paddy for salt affected soil	
						Water scarcity	Demonstration of Anna 4 paddy variety	

Table 2.8 (Contd..)

5.	Panruti	Annagramam	Nathamedu, Mel Pattampakkam, Chinna Pagandai, Lakshmiapuram,	Three years	Rice, maize, cumbu, ragi, blackgram, ground nut, gingelly, sunflower, cotton,	MN deficiency leads to lower productivity in Cassava	Integrated Crop Management practices in Cassava
			Maligaimedu, Ezhumedu, Lakshmiapuram, S.K.Palayam	Three years	palm oil, sugarcane, tapioca vegetables, livestock, poultry	Lack of awareness on high yielding hybrids of bush type lablab	Assessment of Hybrid performance of bush type Lablab
6.	Kurinchipadi	Kurinchipadi	Anukkampattu	Three years	Rice, maize, cumbu, thinai, groundnut, vegetables, livestock, poultry	Introduction of new crop under new cashew plantation	Demonstration of Vegetable Cowpea PKM-1
			Anukkampattu, Varatharajanpettai	Three years		Water scarcity	Assessment of different management strategies to mitigate drought in paddy
			Varatharajanpettai	Two years		Pest and disease problem leads to low productivity in rice	Management of bacterial blight and bacterial streak in paddy
7.	Cuddalore	Cuddalore	Reddychavadi	Two years	Rice, maize, cumbu, ragi, blackgram, red gram, ground nut, gingelly, sugarcane, coconut, palm oil, tapioca banana, livestock, poultry	MN deficiency leads to lower productivity in Cassava	Integrated Crop Management practices in Cassava
			Vazhisothanai-palayam	One years		Imbalanced nutrition leads to low productivity in Banana	Demonstration of micronutrient mixture (IHR Banana Special ) among Banana growers

## 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

OFT				FLD			
1		2		2		2	
Number of OFTs		Number of farmers		Number of FLDs		Number of farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
04	04	30	30	09	09	95	105

Training				Extension Programmes			
3		4		4		4	
Number of Courses		Number of Participants		Number of Programmes		Number of participants	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
400	403	10000	10345	1200	1258	34500	34664

Seed Production (Qtl.)		Planting materials (Nos.)	
5		6	
Target	Achievement	Target	Achievement
Anna 4 TFL paddy seeds – 10	Anna 4 TFL paddy seeds – 7.5	Cashew grafts – VRI 3 (7000 nos)	Cashew grafts – VRI 3 (7400 nos)
		Redgram seedlings – BSMR 736 (750 nos)	Redgram seedlings – BSMR 736 (1000 nos)
		Chilli seedlings: Arka meghana (12000 nos)	Chilli seedlings: Arka meghana (14700 nos)
		Jack grafts – PLR 1 (50 nos)	Jack grafts – PLR 1 (50 nos)
		Coconut seedlings (50 nos)	Coconut seedlings (50 nos)
		Medicinal plant seedlings (1000 nos)	Medicinal plant seedlings (1300 nos)
		Ornamental plant seedlings (200 nos)	Ornamental plant seedlings (200 nos)

Livestock, poultry strains and fingerlings (No.)		Bio-products (Kg)	
7		8	
Target	Achievement	Target	Achievement
Telecherry goat (10 nos)	Telecherry goat (15 nos)	Coir compost (1000 kg)	Coir compost (1000 kg)
		Vermicompost (100 kg)	Vermicompost (60 kg)

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

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions										
				Title of OFT if any	Title of FLD if any	Number of Training (farmers)	Number of Training (Youths)	Number of Training (extension personnel)	Extension activities (No.)	Supply of seeds (Qtl.)	Supply of planting materials (No.)	Supply of livestock (No.)	Supply of bio products	
													No.	Kg
01.	Crop Management	Paddy	Severe moisture stress during samba season	Assessment of different management strategies to mitigate drought in paddy	--	6	--	1	5	--	--	--	--	PPFM – 2 lit & Bacterial consortia – 2 kg
02.	Varietal evaluation	Paddy	Low soil fertility leads to poor crop yield	Assessment of different varieties of paddy for salt affected soil	--	2	--	1	4	TRY 3 paddy seeds – 1 q & MTU 1010 seeds – 1.5 q	--	--	--	--
03	Varietal evaluation	Bush type lab lab	Low yield from the existing variety	Assessment of Hybrid performance of Bush type lab lab	--	2	1	1	3	Co (GB) 14 seeds – 0.25 q & Arka jai – 0.05q	--	--	--	--
04	Resource conservation Technology	Farming system analysis	Water scarcity & Improper utilization of existing farm pond/surface water sources	Assessment of suitable cropping pattern utilizing farm ponds	--	2	--	1	6	Anna 4 paddy seeds – 2.24 q; ADT 3 blackgram seeds – 0.5 q; Co 6 groundnut seeds – 0.5 q	--	--	--	--
05	Crop Management	Paddy	No suitable variety for drought condition	--	Demonstration of Anna 4 paddy variety	2	1	1	6	Anna 4 paddy seeds – 1.5 q	--	--	--	--
06	Crop Management	Paddy	Low yield of local varieties	--	Demonstration of Paddy ADT (R) 49	3	1	--	3	Paddy ADT (R) 49 seeds – 2.0 q	--	--	--	20 kg of Azospirillum & PSB 10 kg of Pseudomonas
07	Disease management	Paddy	Severe incidence of bacterial blight and bacterial leaf streak	--	Management of bacterial blight and bacterial streak in paddy	1	1	1	5	--	--	--	--	--
08	Crop Management	Red gram	Low yield of existing method of cultivation	--	Demonstration of BSMR 736 Redgram through transplanting method	5	--	--	4	BSMR 736 seeds – 1.0 q	--	--	--	--

Table 3.B1 (contd..)

09	Crop Management	Black gram	High incidence of disease and low yield from existing variety	--	Demonstration of Integrated Crop Management practices in VBN 6 blackgram	2	--	1	4	Blackgram VBN 6 seeds – 7.5 q	--	--	--	20 kg of Azospirillum & PSB 10 kg of Pseudomonas
10	Nutrient management	Banana	Low yield of banana fruits and bunch	--	Demonstration of micronutrient mixture (IIHR Banana Special ) among Banana growers	2	1	1	7	--	--	--	--	--
11	Crop Management	Chilli	Lack of high yielding variety in chilli	--	Demonstration of Arka Meghana Hybrid Chilli	2	1	--	5	--	Arka Meghana seedlings (15000 Nos)	--	--	--
12	Crop Management	Cow pea (vegetable)	No high yielding variety in the region	--	Demonstration of Vegetable Cowpea PKM-1	2	--	--	4	Vegetable cowpea PKM 1 seeds – 0.2 q	--	--	--	--
13	Nutrient management	Cassava	Low yield due to improper management	--	Integrated Crop Management practices in Cassava	3	--	--	5	--	--	--	--	--
<b>IFS</b>														
14	Integrated Farming system	Crops, Goat, Poultry and Vermi unit	Effective uses of all farm resources	--	Integrated Farming System	2	--	--	8	Co (fs) 29 Fodder sorghum seeds – 0.1 q; Co (fc) 8 fodder cowpea – 0.5 q Telecherry goats – 4 nos (2+2) Nandhanam 4 chicks – 100 nos	--	--	--	--
<b>Special Programme</b>														
15	Commodity group formation	Flower crops	Low income and low market value	--	Promotion of flower cultivation through commodity approach	7	1	--	10	--	--	--	--	--

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

S.No	Title of Technology	Source of technology	Crop/enterprise	No. of programmes conducted			
				OFT	FLD	Training	Others (Specify)
1	Different management strategies to mitigate drought in paddy	TNAU, Coimbatore	Paddy	1	-	6	Demonstration like drought mitigation strategies, time and methods of application, Pest and disease management, weed management, field visit, on-campus and off-campus training
2	Different varieties of paddy for salt affected soil	TNAU, Coimbatore	Paddy	1	-	2	Method demonstration on soil reclamation using gypsum, ZnSO <sub>4</sub> application, salt resistant varieties, ICMP, field visit, on-campus and off-campus training
3	Hybrid performance of Bush type lab lab	TNAU, Coimbatore & IIHR, Bangalore	Bush type lab lab	1	-	3	Method demonstrations on seed treatment, planting method and IPM, field visit, on-campus and off-campus training
4	Working out suitable cropping pattern utilizing farm ponds	TNAU, Coimbatore	Resource management	1	-	2	Demonstration on water storage in farm ponds, effective use of water for crop cultivation, field visits
5	Drought tolerant paddy variety ANNA 4	TNAU, Coimbatore	Paddy	-	1	3	Demonstration of seed treatment, ICMP, Field visit, on-campus and off-campus training
6	High yielding paddy variety ADT (R) 49	TNAU, Coimbatore	Paddy	-	1	4	Method demonstration on seed treatment using biofertilizers and bio control agents, ICMP, Field visit, on-campus and off-campus training
7	Management methods of bacterial blight and bacterial streak in paddy	TNAU, Coimbatore	Paddy	-	1	2	Method demonstration on seed treatment, ICMP, disease identification, field visit, on-campus and off-campus training
8	BSMR 736 Redgram through transplanting method	KVK in Bidar, Gulbarga, Karnataka	Red gram	-	1	5	Demonstration of seed treatment, seedling techniques, transplanting method, ICMP, field visit, on-campus and off-campus training
9	Integrated Crop Management practices in VBN 6 blackgram	TNAU, Coimbatore	Blackgram	-	1	2	Method demonstration of seed treatment, ICMP, field visit, on-campus and off-campus training
10	Micronutrient mixture (IIHR Banana Special ) for Banana	IIHR, Bangalore	Banana	-	1	3	Demonstration of sucker treatment, ICMP, field visit, IPM, on-campus and off-campus training
11	Arka Meghana hybrid chilli	TNAU, Coimbatore	Chilli	-	1	3	Demonstration of ICMP, field visit, on-campus and off-campus training
12	Vegetable Cowpea PKM-1	TNAU, Coimbatore	Cowpea	-	1	2	INM, IPDM, field visit, on-campus and off-campus training
13	Integrated Crop Management practices in Cassava	CTCRI, Trivandrum and TNAU, Coimbatore	Cassava	-	1	3	Demonstration of sett treatment, ICMP, field visit, on-campus and off-campus training
14	Integrated Farming System	TNAU, Coimbatore	IFS	-		2	Demonstration of IFS system, on-campus and off-campus training
15	Promotion of flower cultivation through commodity group approach	TNAU, Coimbatore	Special programme	-		8	Training on flower cultivation and commodity group formation, field visit to other districts and working out suitable modalities for profitable marketing.

### 3.B2 contd..

No. of farmers covered															
OFT				FLD				Training				Extension activities			
General		SC/ST		General		SC/ST		General		SC/ST		General		SC/ST	
M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
16	6	5	3	69	12	19	5	585	367	545	253	324	48	212	27





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

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

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

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

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

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha (Per trail covering all the Technological Options)
Integrated Nutrient Management	-	-	-	-	-
	-	-	-	-	-
Varietal Evaluation	Paddy	Assessment of the different varieties of paddy for salt affected soil	05	05	4 ha
	Bush type lablab	Assessment of Hybrid performance of Bush type lablab	10	10	2 ha
Integrated Pest Management	-	-	-	-	-
	-	-	-	-	-
Integrated Crop Management	Paddy	Assessment of different management strategies to mitigate drought in paddy	10	10	2 ha
	-	-	-	-	-
Integrated Disease Management	-	-	-	-	-
	-	-	-	-	-
Small Scale Income Generation Enterprises	-	-	-	-	-
	-	-	-	-	-
Weed Management	-	-	-	-	-
	-	-	-	-	-
Resource Conservation Technology	Paddy, Blackgram and Groundnut	Assessment of suitable cropping pattern utilizing farm ponds	05	05	2 ha
	-	-	-	-	-
Farm Machineries	-	-	-	-	-
	-	-	-	-	-
Integrated Farming System	-	-	-	-	-
	-	-	-	-	-

Seed / Plant production	-	-	-	-	-
	-	-	-	-	-
Value addition	-	-	-	-	-
	-	-	-	-	-
Drudgery Reduction	-	-	-	-	-
	-	-	-	-	-
Storage Technique	-	-	-	-	-
	-	-	-	-	-
Mushroom cultivation	-	-	-	-	-
	-	-	-	-	-
<b>Total</b>	-	-	-	-	-

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

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

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

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

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

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

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

##### Results of On Farm Trial

##### OFT 1: Assessment of drought mitigation strategies for 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
Paddy	Irrigated low land	Water scarcity during samba season	Assessment of drought mitigation strategies for paddy	10	TO <sub>1</sub> – Farmers' Practice (NIL) TO <sub>2</sub> - Spraying of PPFM@ 200ml/ac at boot leaf stage and PI TO <sub>3</sub> - Spraying of KCl @ 1% TO <sub>4</sub> - Seedling dip with Bacterial consortia (PT+B30+G12)	No. of tillers per hill 1000 grain weight (g) Grain Yield kg/ha	26.75 18.25 5275 (Results on the TO <sub>2</sub> – the best technology alone given here)	Spraying of PPFM @ 200 ml/ac at boot leaf stage and PI has increased the no of tillers, 1000 grain weight and yield.	Spraying of PPFM @ 200 ml/ac at boot leaf stage and PI was easy and observed more yield even under stress condition	No	Does not arise

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 - NIL)	--	4802	kg/ha	35335	2.16
Technology option 2: Spraying of PPFM @ 200 ml/ac at boot leaf stage and PI	TNAU	5275	kg/ha	41858	<b>2.31</b>
Technology option 3: Spraying of KCL @ 1%	TNAU	5105	kg/ha	39980	2.27
Technology option 4 : Seedling dip with Bacterial consortia (PT+B30+G12)	CRIDA	5197	kg/ha	41011	2.29

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

1.	<b>Title of Technology Assessed</b>	:	Assessment of drought mitigation strategies for paddy				
2.	<b>Problem Definition</b>	:	<ul style="list-style-type: none"> <li>• Low moisture during samba season of paddy cultivation</li> <li>• Drought and non availability of water leads to reduction in the crop yield</li> </ul>				
3.	<b>Details of technologies selected for assessment</b>	:	Technology option 1  Nil	Technology option 2  Spraying of PPFM @ 200 ml/ac at boot leaf stage and PI	Technology option 3:  Spraying of KCl @ 1%	Technology option 4:  Seedling dip with Bacterial consortia (PT+B30+G12)	
4.	<b>Source of technology</b>	:	Farmers' practice	TNAU	TNAU	CRIDA	
5.	<b>Production system and thematic area</b>	:	Irrigated and crop management				
6.	<b>Performance of the Technology with performance indicators</b>	:	The growth and yield attributes were recorded in paddy BPT 5204 following application of different mitigation strategies. Among them, <b>Spraying of PPFM @ 200 ml/ac at boot leaf stage and PI have increased the number of tillers, 1000 grain weight and grain yield per ha (9.85% increase over farmer's practice) when compared to other options</b> viz., Spraying of KCl @ 0.1% and Seedling dip with Bacterial consortia (PT+B30+G12). However, Seedling dip with Bacterial consortia (PT+B30+G12) have also increased the yield (8.22 % increase over farmer's practice) and performed better in stress condition.				
7.	<b>Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques</b>		Seed treatment / seedling dip	Agronomic practices	INM	IPM	Post harvest technology
			75 %	80 %	75%	55%	65%
8.	<b>Final recommendation for micro level situation</b>	:	Spraying of PPFM @ 200 ml/ac at boot leaf stage and PI is suitable for samba season of paddy cultivation in Cuddalore district.				
9.	<b>Constraints identified and feedback for research</b>	:	Nil				
10.	<b>Process of farmers participation and their reaction</b>	:	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 the different varieties of paddy for salt affected soil**

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
Paddy	Irrigated low land	Poor soil condition leads to low yield in rice	Assessment of the different varieties of paddy for salt affected soil	05	TO <sub>1</sub> – Farmers' practice (Ponmani)  TO <sub>2</sub> – TNAU Paddy TRY 3  TO <sub>3</sub> – MTU 1010	No. of tillers per hill  No. of grains per panicle  Grain yield (kg/ha)	14.54  133  5743  (Results on the TO <sub>2</sub> – the best technology alone given here)	Cultivation of TNAU paddy TRY 3 recorded 21 per cent higher grain yield over MTU 1010 variety and 34 per cent over local variety	<b>Performance of TNAU paddy TRY 3 under salt affected soil is very good and produced more tillers and is found to be resistant to pest and diseases.</b> The straw yield is also higher with TRY 3 than others	Not necessary	Does not arise

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 - Ponmani)	--	4294	kg/ha	25322	1.83
Technology option 2: TNAU paddy TRY 3	TNAU	5743	kg/ha	46159	<b>2.62</b>
Technology option 3: MTU 1010	ANGRAU, Hyderabad	4748	kg/ha	33224	2.17

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

1.	<b>Title of Technology Assessed</b>	:	Assessment of the different varieties of paddy for salt affected soil				
2.	<b>Problem Definition</b>	:	<ul style="list-style-type: none"> <li>Poor soil condition leads to low yield in rice</li> </ul>				
3.	<b>Details of technologies selected for assessment</b>	:	Technology option:1 Ponmani	Technology option 2: TNAU paddy TRY 3	Technology option 3: MTU 1010		
4.	<b>Source of technology</b>	:	Farmers' practice	TNAU	ANGRAU, Hyderabad		
5.	<b>Production system and thematic area</b>	:	Irrigated low land and Varietal evaluation				
6.	<b>Performance of the Technology with performance indicators</b>	:	Cultivation of TNAU paddy TRY 3 recorded 21 % higher grain yield, 18 % more number of tillers per hill and 19 % more number of grains per panicle over MTU 1010 variety.				
7.	<b>Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques</b>	:	Performance of TNAU paddy TRY 3 under salt affected soil is very good and produced more tillers per hill and is found to be resistant to pest and diseases. The straw yield is also higher with TRY 3 than others				
			Soil reclamation	Agronomic practices	INM	IPM	Post harvest technology
			65 %	75 %	65 %	70 %	60 %
8.	<b>Final recommendation for micro level situation</b>	:	TNAU paddy TRY 3 variety may be recommended for salt affected soils of Cuddalore district during samba season				
9.	<b>Constraints identified and feedback for research</b>	:	Nil				
10.	<b>Process of farmers participation and their reaction</b>	:	Farmers have actively participated in each and every activity in conducting OFT. Farmers understood that the TNAU variety TRY 3 and its efficient performance under sodic soil conditions. They also learnt the use and importance of GYPSUM application for the reclamation of sodic soil				

**OFT 3: Assessment of hybrid performance of bush type lablab**

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
Lablab	Irrigated garden land	Low yielding local varieties	Assessment of hybrid performance of bush type lablab	5	TO <sub>1</sub> : Local variety (Farmers' practice) TO <sub>2</sub> : Co(Gb)14 TO <sub>3</sub> : Arka Jay	Yield/plant (g) Yield (kg/ha)	103.2 7218 (Results on the TO <sub>2</sub> – the best technology alone given here)	CO (Gb) 14 hybrid performed better than Arka Jay hybrid and local variety	The farmers are highly impressed with CO (Gb) 14 hybrid	No	Does not arise

**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 – Local variety (Farmers' practice)	--	4752	kg/ha	56544	2.18
Technology option 2 - CO (Gb)14	TNAU, 2007	7218	kg/ha	110796	<b>3.30</b>
Technology option 3 - Arka Jay	IIHR, 2010	6973	kg/ha	105406	3.19



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

1.	<b>Title of Technology Assessed</b>	:	Assessment of the hybrid performance of bush type lablab				
2.	<b>Problem Definition</b>	:	<ul style="list-style-type: none"> <li>• .Low yielding local varieties are available</li> </ul>				
3.	<b>Details of technologies selected for assessment</b>	:	Technology option:1 Local variety	Technology option 2: CO (Gb)14	Technology option 3: Arka Jay		
4.	<b>Source of technology</b>	:	Farmers' practice	TNAU, Coimbatore	IIHR, Bangalore		
5.	<b>Production system and thematic area</b>	:	Testing of Hybrid performance for high yielding				
6.	<b>Performance of the Technology with performance indicators</b>	:	The growth and yield attributes recorded in the lablab revealed that the CO (Gb)14 performed better than Local variety and Arka Jay. The highest yield of 7228 Kg/ha recorded in CO (Gb) 14 as compared to Local Variety (4752 kg/ha) and Arka Jay (6973 kg/ha). Co (Gb)14 recorded an increased yield of 51.8 per cent and 3.51 per cent over Local variety and Arka Jay respectively. Similar trend was also observed in economics.				
7.	<b>Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques</b>	:	Seed treatment	Agronomic practices	INM	IPM	PHT
			50%	80 %	80%	50 %	45 %
8.	<b>Final recommendation for micro level situation</b>	:	CO (Gb)14 hybrid is performed better and recorded highest yield				
9.	<b>Constraints identified and feedback for research</b>	:	-				
10.	<b>Process of farmers participation and their reaction</b>	:	Farmers were realized the performance of CO (Gb)14 due to its profuse growth and yield parameters.				

**OFT 4: Assessment of suitable cropping pattern utilizing farm ponds**

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
Cropping system	Rainfed	Water scarcity and Improper utilization of existing farm pond/surface water sources	Assessment of suitable cropping pattern utilizing farm ponds	5	TO <sub>1</sub> : Single crop (Directed seeded rice - Farmers' practice)  TO <sub>2</sub> : Directed seeded rice - Rice fallow Pulses  TO <sub>3</sub> : Groundnut + pulses (4:1)	<b>Paddy</b> No.of tillers /plant  No.of grains/ panicle  1000 grain weight  <b>Black gram</b> No.of branches per plant  No.of seeds/pod  100 seed weight	11  205  25.5 g  3.0  6.0  3.4 g (Results on the TO <sub>2</sub> – the best technology alone given here)	Direct seeded rice equivalent yield is higher (6597 kg/ha) under Direct seeded rice –rice fallow black gram .The WUE is recorder 14.67 kg/ha-m <sup>3</sup> . But the direct seeded rice is the economically viable because of lowest cost of production with high returns.	Satisfied with cropping pattern. Directed seeded rice - Rice fallow blackgram	No	Does not arise

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 – Single crop (Directed seeded rice - Farmers' practice)	-	Direct seeded rice yield 4470 kg/ha and WUE is 12.16 kg/ha m <sup>3</sup>	kg/ha	47550	3.44
Technology option 2 – Directed seeded rice - Rice fallow Pulses	TNAU	Paddy equivalent yield 5597 kg/ha and WUE is 14.66 kg/ha m <sup>3</sup>	kg/ha	60455	<b>3.57</b>
Technology option 3 – Groundnut + pulses (4:1)	TNAU	Paddy equivalent yield is 5840 kg /ha or Ground nut equivalent yield 1225 kg/ha and WUE is 11.63 kg/ha m <sup>3</sup>	kg/ha	57800	2.94

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

1.	<b>Title of Technology Assessed</b>	:	Assessment of suitable cropping pattern utilizing farm ponds				
2.	<b>Problem Definition</b>	:	Water scarcity and Improper utilization of existing farm pond/surface water sources				
3.	<b>Details of technologies selected for assessment</b>	:	Technology option:1 Single crop (Directed seeded rice)	Technology option 2: Directed seeded rice - Rice fallow Pulses	Technology option 3: Groundnut + pulses (4:1)		
4.	<b>Source of technology</b>	:	Farmers' practice	TNAU, Coimbatore	TNAU, Coimbatore		
5.	<b>Production system and thematic area</b>	:	Rain fed Cropping system				
6.	<b>Performance of the Technology with performance indicators</b>	:	Among the different system assessed Paddy –rice fallow black gram performed better than that of Ground nut+ pulses and Paddy .The highest paddy equivalent yield of 6597 kg/ha recorded in Direct seeded rice – rice fallow black gram compared to Ground nut + pulses (5234 kg /ha) and Paddy (5470 kg/ha).This shows the increased in yield 26.04 and 20.60 % over Ground nut + pulses and Paddy respectively. Similar trend was also observed in WUE and net return but the direct seeded rice is the economically viable because of lowest cost of production with high returns.				
7.	<b>Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques</b>	:	<b>Seed treatment</b>	<b>Agronomic practices</b>	<b>INM</b>	<b>IPM</b>	<b>PHT</b>
			50 %	80 %	70 %	50 %	40 %
8.	<b>Final recommendation for micro level situation</b>	:	Directed seeded rice - Rice fallow blackgram is more suitable cropping system for effectively utilizing for recycling of excess runoff water through dug out farm pond				
9.	<b>Constraints identified and feedback for research</b>	:	-				
10.	<b>Process of farmers participation and their reaction</b>	:	Farmers realized the highest production and net return through run off recycling through farm ponds.				

**4.D1. Results of Technologies Refined :****-Nil-****Results of On Farm Trial**

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

**Contd..**

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

**4.D.2. Details of each On Farm Trial for refinement to be furnished in the following format separately as per the following details:****- Does not arise-**

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



Table 5.A (contd..)

12	Fodder	--	--	--	--	--	--	--	--	--	--	--	--	--	--
13	Plantation	--	--	--	--	--	--	--	--	--	--	--	--	--	--
14	Fibre	--	--	--	--	--	--	--	--	--	--	--	--	--	--
15	Dairy	--	--	--	--	--	--	--	--	--	--	--	--	--	--
16	Poultry	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17	Rabbitry	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18	Pigerry	--	--	--	--	--	--	--	--	--	--	--	--	--	--
19	Sheep and goat	--	--	--	--	--	--	--	--	--	--	--	--	--	--
20	Duckery	--	--	--	--	--	--	--	--	--	--	--	--	--	--
21	Common carps	--	--	--	--	--	--	--	--	--	--	--	--	--	--
22	Mussels	--	--	--	--	--	--	--	--	--	--	--	--	--	--
23	Ornamental fishes	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24	Oyster mushroom	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25	Button mushroom	--	--	--	--	--	--	--	--	--	--	--	--	--	--
26	Vermicompost	--	--	--	--	--	--	--	--	--	--	--	--	--	--
27	Sericulture	--	--	--	--	--	--	--	--	--	--	--	--	--	--
28	Apiculture	--	--	--	--	--	--	--	--	--	--	--	--	--	--
29	Implements	--	--	--	--	--	--	--	--	--	--	--	--	--	--
30	Others (specify) Cropping system/	Wet land and Dry land	North east monsoon (sepoct)	<b>IFS on wet land</b> – Paddy , maize, poultry, fish <b>IFS on dry land</b> – Fodder crops, goat	Nandhanum - 4 Tellicherry goat	--	Integrated Farming System	Integrated Farming System – Wet and Dry land systems	03 units (Wet land – 1 unit) Dry land – (2 units)	03 units (Wet land – 1 unit) Dry land – (2 units)	--	03	03	Nil	



## 5.B. Results of Frontline Demonstrations

## 5.B.1. Crops

Crop	Name of the technology demonstrated	Variety	Hybrid	Farming situation	No. of Demo.	Area (ha)	Yield (q/ha)				% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
							Demo			Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
							H	L	A										
Oilseeds	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pulses	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Blackgram	Demonstration of Integrated Crop Management practices in VBN 6 blackgram	VBN 6	--	Irrigated garden land	10	4 ha	9.28	7.90	8.66	6.75	28.3	15720	47630	31910	<b>3.03</b>	15460	37125	21665	2.40
Redgram	Demonstration of BSMR 736 Redgram through transplanting method	BSMR 736	--	Irrigated garden land	10	4 ha	14.26	9.40	12.33	8.70	41.70	13700	39209	25509	<b>2.86</b>	10500	27666	17166	2.63
Cereals																			
Paddy	Demonstration of Anna 4 paddy variety	Anna 4	-	Rainfed	10	4 ha	52.5	33.8	43.1	29.5	46.1	18550	56030	37480	<b>3.02</b>	18550	38350	17500	2.06
Paddy	Management of bacterial blight and leaf streak in paddy	BPT 5204	--	Irrigated low land	12	5 ha	58.63	55.48	56.75	48.99	15.84	31280	76612	45332	<b>2.45</b>	29341	63207	33886	2.15
Paddy	Demonstration of Paddy ADT (R) 49	ADT (R) 49	--	Irrigated low land	10	4 ha	64.84	62.00	63.12	52.50	20.23	30500	82056	51556	<b>2.69</b>	29350	68250	38900	2.33
Millets	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vegetables																			
Chilli	Demonstration of Arka Meghana hybrid chilli	-	Arka Meghana	Irrigated garden land	10	2	Demonstration is in progress - The seeds of Arka Meghana has been purchased during the month of December 2013 from IIHR, Bangalore and planting has been taken up during February 2014. Now the crop is in flowering stage At this stage it is observed that the flower dropping is much minimal in Arka Meghana, compared to the local check ( Priyanka hybrid)												
Vegetable cowpea	Demonstration of Vegetable Cowpea	PKM-1	--	Irrigated garden land	10	2 ha	250	160	220	160	37.5	38000	110000	72000	<b>2.89</b>	42000	112000	70000	2.67
Cassava	Integrated Crop Management practices in Cassava	Mulluvala	--	Irrigated garden land	20	4 ha	The opt season for the cassava cultivation in Cuddalore district is Nov – Dec ( Karthigai Pattam) and hence the planting operation was carried out during Nov – Dec 2013 and the crop is at vegetative stage and the trial is under progress												
Flowers	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ornamental	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fruit																			
Banana	Demonstration of banana special IIHR in banana	Poovan	--	Irrigated	10	4 ha	482.5	442.7	462.5	378.5	22.19	61125	185000	123875	<b>3.02</b>	60125	151400	91275	2.52



Table 5.B.1 (contd..)

Spices and condiment	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Commercial	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fibre crops like cotton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Medicinal and aromatic	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fodder	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Plantation	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fibre	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Others (pl.specify)																			
Special programme	Promotion of flower cultivation through commodity group approach	-	-	-	-	-													
Farming system	Integrated Farming System	-	-	Wet land	1	1 ha	Demonstration is under progress												
				Dry land	2	2 ha	Demonstration is under progress												

\* 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

### Results of FLDs conducted during (2012-13)

#### 1. A. Integrated Farming System - Wet land situation – 2012-13

Crop	Name of the technology demonstrated	Farming situation	Components included	No. of Demo.	Area (ha)	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./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 and vermicompost	3	3	1,18,438	4,79,500	<b>3,61,312</b>	4.0	32,250	1,58,300	1,26,050	4.9

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

Data on other parameters in relation to technology demonstrated				Check		
Parameter with unit	Total cost	Gross return	Net return	Total cost	Gross return	Net return
Crop(Rice-maize)	70,038	3,23,000	2,52,962	32,250	1,58,300	1,26,050
Fish	25,000	1,12,500	87,500	-	-	-
Chicks	2400	12,000	9600	-	-	-
Vermi compost	21,000	32,000	11,250	-	-	-

#### 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	32,250	1,58,300	1,26,050	1:4.9	900
IFS	1,18,438	4,79,500	3,61,312	1:4.0	1200
Additional advantage of IFS over conventional cropping	- 86,188 (Expenditure)	3,21,200	2,35,262	-	300 man days

### 1.B. Integrated Farming System - Dry land situation – 2012-13

Crop	Name of the technology demonstrated	Farming situation	Components included	No. of Demo.	Area (ha)	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
						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	24,250	57,250	33,000	2.36	11,500	21,500	10,000	1.87

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

Data on other parameters in relation to technology demonstrated				Check		
Parameter with unit	Total cost	Gross return	Net return	Total cost	Gross return	Net return
Crop (Food)	5,750	10,750	5,000	11,500	21,500	1:1.87
Crop (Fodder)	4,500	9000	4,500	-	-	-
Goat	14,000	37,500	23,500	-	-	-

#### 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	11,500	21,500	10,000	1:1.87	90
IFS	24,250	57,250	33,000	1:2.36	375
Additional advantage of IFS over conventional cropping	-12,750	35,750	23,000	-	285

## 2. FLD on Integrated Weed management practices for controlling twining weeds in sugarcane – 2012-13

Crop	Name of the technology demonstrated	Variety	Hybrid	Farming situation	No. of Demo.	Area (ha)	Yield (q/ha)				% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
							Demo			Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
							H	L	A										
Sugarcane	Integrated Weed management practices for controlling twining weeds in sugarcane	CoC 86032	-	Irrigated	5	5	1580	1100	1340	1020	31.4 %	87500	335000	247500	3.83	87500	255000	167500	2.91

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

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
No.of weeds/plot before harvest	18.0	38.0
Creeper dry weight kg/ha	35.6	193.5
Weed control efficiency (%)	82.1	-
Cane weight (kg)	1.28	1.05
Number of millable canes ( '000 ha)	87,210	64,264

### 3. FLD on Integrated Weed management practices for controlling twining weeds in sugarcane- 2012-13

Crop	Name of the technology demonstrated	Variety	Hybrid	Farming situation	No. of Demo.	Area (ha)	Yield (q/ha)				% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
							Demo			Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
							H	L	A										
Sugarcane	Sustainable Sugarcane Initiatives	CoC 86032	-	Irrigated	5	5	1950	1650	1800	1060	69.8 %	93500	450000	356500	4.81	92300	265000	172700	2.87

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

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
No.of tillers/plant	16	11
No.of millable cane /clump	9.5	4.5
Cane weight (kg)	1.41	1.16



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

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

### 5.B.3. Fisheries: Nil

Type of Breed	Name of the technology demonstrated	Breed	No. of Demo	Unit s/ Area (m <sup>2</sup> )	Yield (q/ha)				% Increase	*Economics of demonstration (Rs./unit) or (Rs./m <sup>2</sup> )				*Economics of check (Rs./unit) or (Rs./m <sup>2</sup> )			
					Demo			Check if any		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					H	L	A										
Common carps	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mussels	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ornamental fishes	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Others (pl.specify)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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

\*\* BCR= GROSS RETURN/GROSS COST

H-High L-Low, A-Average

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

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

### 5.B.4. Other enterprises: Nil

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

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

\*\* BCR= GROSS RETURN/GROSS COST

H-High L-Low, A-Average

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

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

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

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

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

\*\* BCR= GROSS RETURN/GROSS COST

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

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

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

Sl.No.	Activity	No. of activities organised	Number of participants	Remarks
1	Field days	15	312	-
2	Farmers Training	37	1295	-
3	Media coverage (Radio programme)	7	Entire district	-
4	Training for extension functionaries	3	80	-
5	Others (Please specify)			-
	a. Extension literatures prepared and distributed	15	500	
	b. News paper coverage	145 news paper clippings	Entire district	





Table VI (contd..)																	
Onion	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Potato	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Field bean	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Others (pl.specify)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Commercial crops</b>	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sugarcane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Coconut	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Others (pl.specify)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fodder crops	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Maize (Fodder)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sorghum (Fodder)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Others (pl.specify)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

H-High L-Low, A-Average

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







Table 7.A (contd..)

Pearl culture	-	-	-	-	-	-	-	-	-	-
Fish processing and value addition	-	-	-	-	-	-	-	-	-	-
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-
<b>Production of Inputs at site</b>										
Seed Production	2	15	6	21	6	8	14	21	14	35
Planting material production	1	12	7	19	5	3	8	17	10	27
Bio-agents production	1	14	8	22	8	3	11	22	11	33
Bio-pesticides production	1	21	6	27	4	2	6	25	8	33
Bio-fertilizer production	1	22	5	27	6	2	8	28	7	35
Vermi-compost production	3	32	11	43	8	2	10	40	13	53
Organic manures production	1	18	4	22	3	1	4	21	5	26
Production of fry and fingerlings	-	-	-	-	-	-	-	-	-	-
Production of Bee-colonies and wax sheets	-	-	-	-	-	-	-	-	-	-
Small tools and implements	-	-	-	-	-	-	-	-	-	-
Production of livestock feed and fodder	-	-	-	-	-	-	-	-	-	-
Production of Fish feed	-	-	-	-	-	-	-	-	-	-
Mushroom production	3	3	26	29	4	9	13	7	39	42
Apiculture	-	-	-	-	-	-	-	-	-	-
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-
<b>Capacity Building and Group Dynamics</b>										
Leadership development	-	-	-	-	-	-	-	-	-	-
Group dynamics	-	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-
Mobilization of social capital	-	-	-	-	-	-	-	-	-	-
Entrepreneurial development of farmers/youths	-	-	-	-	-	-	-	-	-	-
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-
<b>Agro-forestry</b>										
Production technologies	-	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-	-
Integrated Farming Systems	-	-	-	-	-	-	-	-	-	-
Others (Pl. specify)	-	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>99</b>	<b>1324</b>	<b>487</b>	<b>1811</b>	<b>307</b>	<b>248</b>	<b>555</b>	<b>1631</b>	<b>743</b>	<b>2366</b>

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
<b>Crop Production</b>										
Weed Management	2	18	5	23	2	-	2	20	5	25
Resource Conservation Technologies	1	12	5	17	4	2	6	16	7	23
Cropping Systems	4	56	12	68	11	7	18	67	19	86
Crop Diversification	3	31	8	39	5	4	9	36	12	48
Integrated Farming	5	85	12	97	18	9	27	103	21	124
Micro Irrigation/Irrigation	4	49	12	61	8	5	13	57	17	74
Seed production	7	76	16	92	4	11	15	80	27	107
Nursery management	1	54	18	72	9	5	14	63	23	86
Integrated Crop Management	1	12	5	17	4	2	6	16	7	23
Soil and Water Conservation	2	15	11	26	3	7	10	18	18	36
Integrated Nutrient Management	2	35	12	47	10	8	18	45	20	65
Production of organic inputs	1	45	9	54	3	7	10	48	16	64
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-
<b>Horticulture</b>	-	-	-	-	-	-	-	-	-	-
<b>a) Vegetable Crops</b>	-	-	-	-	-	-	-	-	-	-
Production of low value and high volume crop	-	-	-	-	-	-	-	-	-	-
Off-season vegetables	2	32	11	43	8	2	10	40	13	53
Nursery raising	1	58	18	76	4	6	10	62	28	86
Exotic vegetables	-	-	-	-	-	-	-	-	-	-
Export potential vegetables	-	-	-	-	-	-	-	-	-	-
Grading and standardization	-	-	-	-	-	-	-	-	-	-
Protective cultivation	1	32	15	43	8	2	10	40	17	57
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-
<b>b) Fruits</b>	-	-	-	-	-	-	-	-	-	-
Training and Pruning	1	18	4	22	4	-	4	22	4	26
Layout and Management of Orchards	-	-	-	-	-	-	-	-	-	-
Cultivation of Fruit	1	22	4	26	4	2	6	26	6	32
Management of young plants/orchards	-	-	-	-	-	-	-	-	-	-
Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-
Export potential fruits	-	-	-	-	-	-	-	-	-	-
Micro irrigation systems of orchards	2	38	8	46	3	1	4	41	9	50
Plant propagation techniques	1	32	15	43	8	2	10	40	17	57
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-
<b>c) Ornamental Plants</b>										
Nursery Management	1	18	4	22	4	-	4	22	4	26
Management of potted plants	2	32	11	43	8	2	10	40	13	53
Export potential of ornamental plants	-	-	-	-	-	-	-	-	-	-
Propagation techniques of Ornamental Plants	2	32	11	43	8	2	10	40	13	53

Table 7.B. (contd..)

Others (pl.specify)	-	-	-	-	-	-	-	-	-	-
<b>d) Plantation crops</b>										
Production and Management technology	-	-	-	-	-	-	-	-	-	-
Processing and value addition	-	-	-	-	-	-	-	-	-	-
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-
<b>e) Tuber crops</b>										
Production and Management technology	-	-	-	-	-	-	-	-	-	-
Processing and value addition	-	-	-	-	-	-	-	-	-	-
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-
<b>f) Spices</b>										
Production and Management technology	-	-	-	-	-	-	-	-	-	-
Processing and value addition	-	-	-	-	-	-	-	-	-	-
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-
<b>g) Medicinal and Aromatic Plants</b>										
Nursery management	2	86	12	98	12	4	16	98	16	114
Production and management technology	3	56	12	68	11	7	18	67	19	86
Post harvest technology and value addition	-	-	-	-	-	-	-	-	-	-
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-
<b>Soil Health and Fertility Management</b>										
Soil fertility management	1	12	5	17	4	2	6	16	7	23
Integrated water management	1	15	11	26	3	7	10	18	18	36
Integrated nutrient management	2	35	12	47	10	8	18	45	20	65
Production and use of organic inputs	2	45	9	54	3	7	10	48	16	64
Management of Problematic soils	2	32	11	43	8	2	10	40	13	53
Micro nutrient deficiency in crops	2	18	4	22	4	-	4	22	4	26
Nutrient use efficiency	4	56	12	68	11	7	18	67	19	86
Balanced use of fertilizers	2	35	12	47	10	8	18	45	20	65
Soil and water testing	8	85	12	97	18	9	27	103	21	124
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-
<b>Livestock Production and Management</b>										
Dairy Management	1	8	4	12	4	2	6	12	6	18
Poultry Management	1	6	4	10	5	5	10	11	9	20
Piggery Management	-	-	-	-	-	-	-	-	-	-
Rabbit Management	-	-	-	-	-	-	-	-	-	-
Animal Nutrition Management	1	15	2	17	2	2	4	17	4	21
Animal Disease Management	-	-	-	-	-	-	-	-	-	-
Feed and Fodder technology	-	-	-	-	-	-	-	-	-	-
Production of quality animal products	-	-	-	-	-	-	-	-	-	-
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-
<b>Home Science/Women empowerment</b>										
Household food security by kitchen gardening and nutrition gardening	2	18	4	22	5	8	13	23	12	35





Table 7.B. (contd..)

<b>Production of Inputs at site</b>										
Seed Production	8	76	14	90	22	11	33	98	25	123
Planting material production	4	47	16	63	11	8	19	58	24	82
Bio-agents production	1	15	2	17	2	2	4	17	4	21
Bio-pesticides production	1	8	4	12	4	2	6	12	6	18
Bio-fertilizer production	1	6	4	10	5	5	10	11	9	20
Vermi-compost production	5	48	152	200	25	42	67	73	194	267
Organic manures production	3	32	15	43	8	2	10	40	17	57
Production of fry and fingerlings	-	-	-	-	-	-	-	-	-	-
Production of Bee-colonies and wax sheets	-	-	-	-	-	-	-	-	-	-
Small tools and implements	-	-	-	-	-	-	-	-	-	-
Production of livestock feed and fodder	-	-	-	-	-	-	-	-	-	-
Production of Fish feed	-	-	-	-	-	-	-	-	-	-
Mushroom production	3	28	12	40	7	12	19	35	24	59
Apiculture	-	-	-	-	-	-	-	-	-	-
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-
<b>Capacity Building and Group Dynamics</b>										
Leadership development	-	-	-	-	-	-	-	-	-	-
Group dynamics	-	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-
Mobilization of social capital	1	6	4	10	5	5	10	11	9	20
Entrepreneurial development of farmers/youths	2	15	2	17	2	2	4	17	4	21
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-
<b>Agro-forestry</b>										
Production technologies	-	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-	-
Integrated Farming Systems	-	-	-	-	-	-	-	-	-	-
Others (Pl. specify)	-	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>197</b>	<b>2273</b>	<b>1048</b>	<b>3305</b>	<b>539</b>	<b>329</b>	<b>991</b>	<b>2812</b>	<b>1504</b>	<b>4312</b>

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops	2	88	21	109	15	8	23	103	29	132
Training and pruning of orchards	1	26	8	34	4	5	9	30	13	43
Protected cultivation of vegetable crops	1	32	14	46	6	7	13	38	21	59
Commercial fruit production	-	-	-	-	-	-	-	-	-	-
Integrated farming	2	45	16	61	8	5	13	53	21	74
Seed production	5	85	18	103	12	8	20	97	26	123
Production of organic inputs	2	85	32	117	12	3	15	97	35	132
Planting material production	1	32	14	46	6	7	13	38	21	59
Vermi-culture	2	48	12	60	8	5	13	56	17	73
Mushroom Production	4	84	41	125	27	18	45	111	59	170
Bee-keeping	-	-	-	-	-	-	-	-	-	-
Sericulture	-	-	-	-	-	-	-	-	-	-
Repair and maintenance of farm machinery and implements	2	45	8	53	4	6	10	49	14	63
Value addition	5	32	87	119	14	39	53	46	126	172
Small scale processing	-	-	-	-	-	-	-	-	-	-
Post Harvest Technology	2	48	12	60	8	11	19	56	23	79
Tailoring and Stitching	-	-	-	-	-	-	-	-	-	-
Rural Crafts	-	-	-	-	-	-	-	-	-	-
Production of quality animal products	-	-	-	-	-	-	-	-	-	-
Dairying	-	-	-	-	-	-	-	-	-	-
Sheep and goat rearing	2	45	18	63	12	7	19	57	25	82
Quail farming	-	-	-	-	-	-	-	-	-	-
Piggery	-	-	-	-	-	-	-	-	-	-
Rabbit farming	-	-	-	-	-	-	-	-	-	-
Poultry production	2	32	8	40	4	3	7	36	11	47
Ornamental fisheries	3	48	12	60	8	5	13	56	17	73
Composite fish culture	-	-	-	-	-	-	-	-	-	-
Freshwater prawn culture	-	-	-	-	-	-	-	-	-	-
Shrimp farming	-	-	-	-	-	-	-	-	-	-
Pearl culture	-	-	-	-	-	-	-	-	-	-
Cold water fisheries	-	-	-	-	-	-	-	-	-	-
Fish harvest and processing technology	1	45	18	63	12	7	19	57	25	82
Fry and fingerling rearing	-	-	-	-	-	-	-	-	-	-
Any other (pl.specify)	-	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>37</b>	<b>820</b>	<b>339</b>	<b>1159</b>	<b>160</b>	<b>144</b>	<b>304</b>	<b>980</b>	<b>483</b>	<b>1463</b>

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops	1	25	7	32	5	8	13	30	15	45
Training and pruning of orchards	1	22	6	28	4	3	7	26	9	35
Protected cultivation of vegetable crops	1	36	12	48	12	10	22	48	22	70
Commercial fruit production	-	-	-	-	-	-	-	-	-	-
Integrated farming	4	87	32	119	15	18	33	102	50	152
Seed production	3	42	18	60	15	8	23	57	26	83
Production of organic inputs	-	-	-	-	-	-	-	-	-	-
Planting material production	5	78	29	107	12	13	25	90	42	132
Vermi-culture	-	-	-	-	-	-	-	-	-	-
Mushroom Production	1	56	-	56	20	-	20	76	-	76
Bee-keeping	-	-	-	-	-	-	-	-	-	-
Sericulture	-	-	-	-	-	-	-	-	-	-
Repair and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-
Value addition	2	11	48	59	3	15	18	14	63	77
Small scale processing	-	-	-	-	-	-	-	-	-	-
Post Harvest Technology	2	38	2	40	11	8	19	49	10	59
Tailoring and Stitching	-	-	-	-	-	-	-	-	-	-
Rural Crafts	-	-	-	-	-	-	-	-	-	-
Production of quality animal products	-	-	-	-	-	-	-	-	-	-
Dairying	-	-	-	-	-	-	-	-	-	-
Sheep and goat rearing	1	25	5	30	4	6	10	29	11	40
Quail farming	-	-	-	-	-	-	-	-	-	-
Piggery	-	-	-	-	-	-	-	-	-	-
Rabbit farming	-	-	-	-	-	-	-	-	-	-
Poultry production	4	82	26	108	21	10	31	103	36	139
Ornamental fisheries	1	18	7	25	4	3	7	22	10	32
Composite fish culture	5	67	24	91	12	7	19	79	31	110
Freshwater prawn culture	-	-	-	-	-	-	-	-	-	-
Shrimp farming	-	-	-	-	-	-	-	-	-	-
Pearl culture	-	-	-	-	-	-	-	-	-	-
Cold water fisheries	-	-	-	-	-	-	-	-	-	-
Fish harvest and processing technology	-	-	-	-	-	-	-	-	-	-
Fry and fingerling rearing	-	-	-	-	-	-	-	-	-	-
Any other (pl.specify)	-	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>31</b>	<b>587</b>	<b>112</b>	<b>803</b>	<b>138</b>	<b>49</b>	<b>247</b>	<b>725</b>	<b>161</b>	<b>1050</b>

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops	1	18	7	25	2	3	5	20	10	30
Integrated Pest Management	2	25	8	33	3	1	4	28	9	37
Integrated Nutrient management	2	26	7	33	4	2	6	30	9	39
Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-
Protected cultivation technology	1	18	5	23	4	3	7	22	8	30
Production and use of organic inputs	1	26	6	32	4	2	6	30	8	38
Care and maintenance of farm machinery and implements	1	28	5	33	3	1	4	31	6	37
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-
Women and Child care	-	-	-	-	-	-	-	-	-	-
Low cost and nutrient efficient diet designing	-	-	-	-	-	-	-	-	-	-
Group Dynamics and farmers organization	-	-	-	-	-	-	-	-	-	-
Information networking among farmers	2	32	9	41	4	3	7	36	12	48
Capacity building for ICT application	-	-	-	-	-	-	-	-	-	-
Management in farm animals	-	-	-	-	-	-	-	-	-	-
Livestock feed and fodder production	-	-	-	-	-	-	-	-	-	-
Household food security	-	-	-	-	-	-	-	-	-	-
Any other (pl.specify)	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>10</b>	<b>173</b>	<b>47</b>	<b>220</b>	<b>24</b>	<b>15</b>	<b>39</b>	<b>197</b>	<b>62</b>	<b>259</b>





Table 7.H. (contd..)

3.e.	Poultry farming	-	-	-	-	-	-	-	-	-	-
3.f.	Others (pl.specify)	-	-	-	-	-	-	-	-	-	-
<b>4.</b>	<b>Income generation activities</b>	-	-	-	-	-	-	-	-	-	-
4.a.	Vermi-composting	1	23	18	41	11	6	17	34	24	58
4.b.	Production of bio-agents, bio-pesticides, bio-fertilizers etc.	1	15	5	20	2	2	4	17	7	24
4.c.	Repair and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-
4.d.	Rural Crafts	-	-	-	-	-	-	-	-	-	-
4.e.	Seed production	-	-	-	-	-	-	-	-	-	-
4.f.	Sericulture	-	-	-	-	-	-	-	-	-	-
4.g.	Mushroom cultivation	3	15	8	23	4	7	11	19	15	34
4.h.	Nursery, grafting etc.	2	28	12	40	8	7	15	36	19	55
4.i.	Tailoring, stitching, embroidery, dying etc.	-	-	-	-	-	-	-	-	-	-
4.j.	Agril. para-workers, para-vet training	-	-	-	-	-	-	-	-	-	-
4.k.	Others (pl.specify)	-	-	-	-	-	-	-	-	-	-
<b>5</b>	<b>Agricultural Extension</b>	-	-	-	-	-	-	-	-	-	-
5.a.	Capacity building and group dynamics	-	-	-	-	-	-	-	-	-	-
5.b.	Others (pl.specify)	-	-	-	-	-	-	-	-	-	-
	<b>Grand Total</b>	<b>11</b>	<b>139</b>	<b>74</b>	<b>213</b>	<b>47</b>	<b>36</b>	<b>83</b>	<b>186</b>	<b>110</b>	<b>296</b>

### PART VIII – EXTENSION ACTIVITIES

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

Nature of Extension Programme	No. of Programmes	No. of Participants (General)			No. of Participants SC / ST			No. of extension personnel		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	38	267	275	542	236	198	434	56	78	134
Kisan Mela	2	155	28	183	45	12	57	35	16	51
Kisan Ghosthi	-	-	-	-	-	-	-	-	-	-
Exhibition	32	512	208	720	402	280	682	18	14	32
Film Show	13	217	107	324	40	12	52	38	22	60
Method Demonstrations	112	1350	750	2100	527	422	949	182	38	220
Farmers Seminar	6	234	167	401	176	134	310	29	13	42
Workshop	22	212	165	377	76	82	158	67	54	121
Group meetings	28	1039	765	1804	497	268	765	58	44	102
Lectures delivered as resource persons	80	2140	874	3014	176	134	310	157	168	325
Newspaper coverage	157	-	-	-	-	-	-	-	-	-
Radio talks	7	-	-	-	-	-	-	-	-	-
TV talks	1	-	-	-	-	-	-	-	-	-
Popular articles	18	-	-	-	-	-	-	-	-	-
Extension Literature	4	-	-	-	-	-	-	-	-	-
Advisory Services	136	1156	765	1921	497	328	825	215	152	367
Scientific visit to farmers field	118	425	112	537	125	45	170	89	76	165



Table VIII (contd..)

Farmers visit to KVK	267	4140	2915	7055	1204	246	1450	348	216	564
Diagnostic visits	128	1145	860	2005	522	128	650	112	48	160
Exposure visits	18	678	254	932	145	113	258	38	43	81
Ex-trainees Sammelan	-	-	-	-	-	-	-	-	-	-
Soil health Camp	27	750	125	875	125	47	172	120	42	162
Animal Health Camp	1	27	3	30	2	4	6	2	2	4
Agri mobile clinic	0	0	0	0	0	0	0	0	0	0
Soil test campaigns	18	342	158	500	123	109	232	48	39	87
Farm Science Club Conveners meet	12	226	142	368	89	78	167	49	18	67
Self Help Group Conveners meetings	8	41	158	199	12	132	144	11	2	13
Mahila Mandals Conveners meetings	-	-	-	-	-	-	-	-	-	-
Celebration of important days (specify)	5									
World Environmental day	1 (05.06.13)	13	3	16	4	3	7	2	-	2
Independence day	1 (15.08.13)	6	4	10	3	2	5	0	0	0
Parthenium awareness week	1 (14-22.08.13)	32	23	55	14	6	20	3	2	5
Republic day	1 (26.01.14)	7	3	10	2	3	5	0	0	0
Women's day	1 (08.03.14)	2	6	8	1	1	2	0	0	0
Any Other (Specify)	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>1258</b>	<b>15116</b>	<b>8870</b>	<b>24070</b>	<b>5043</b>	<b>2787</b>	<b>7830</b>	<b>1677</b>	<b>1087</b>	<b>2764</b>

## **PART IX – PRODUCTION OF SEED, PLANT AND LIVESTOCK MATERIALS**

### **9.A. Production of seeds by the KVKs**

<b>Crop category</b>	<b>Name of the crop</b>	<b>Name of the variety (if hybrid pl. specify)</b>	<b>Quantity of seed (q)</b>	<b>Value (Rs)</b>	<b>Number of farmers</b>
Cereals	Paddy	Anna 4 TFL seeds	7.5	18000	Yet to be sold
Oilseeds	-	-	-	-	-
Pulses	-	-	-	-	-
Commercial crops	-	-	-	-	-
Vegetables	-	-	-	-	-
Flower crops	-	-	-	-	-
Spices	-	-	-	-	-
Fodder crop seeds	-	-	-	-	-
Fiber crops	-	-	-	-	-
Forest Species	-	-	-	-	-
Others	-	-	-	-	-
<b>Total</b>	-	-	-	-	-

**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
Commercial	-	-	-	-	-
Vegetable seedlings	Chilli	Arka Meghana	14700 Nos	22050	10
	Chilli	PLR 1	4765 Nos	3335	5
Fruits	Cashew grafts	VRI 3	7400 Nos	133200	25
	Jack grafts	PLR 1	50 Nos	2500	10
Ornamental plants			200 Nos	2000	20
Medicinal and Aromatic	Medicinal Plants		242 Nos	4840	120
Plantation	Coconut seedling	Local tall	50 Nos	1500	15
Spices	-	-	-	-	-
Tuber	-	-	-	-	-
Fodder crop saplings	-	-	-	-	-
Forest Species	-	-	-	-	-
Others (Redgram)	Redgram	BMR 736	1000 Nos	1750	10
Vegetables (Roof Garden)	Tomato	Amman sri	9 kg	108	5
	Brinjal	Ujala	11.5 Kg	230	5
	Greens	Amaranthus	1.5kg	30	3
	Lablab	Co(GB)14	8.25kg	265	10
	Mint	local	2 kg	60	15
	Coriander	Local	1.5kg	30	18
	Green chillies	Arka Meghna	1.5 kg	60	2
	Bitter gourd	Local variety	2.0 kg	75	2
<b>Total</b>				<b>170233</b>	<b>257</b>

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

Bio Products	Name of the bio-product	Quantity	Value (Rs.)	No. of Farmers
		Kg		
Bio Fertilizers	-	-	-	-
Bio-pesticide	-	-	-	-
Bio-fungicide	-	-	-	-
Bio Agents	-	-	-	-
Others	Coir Compost	1000	6000	112
	Vermicompost	60	300	14
<b>Total</b>		<b>1060</b>	<b>6300</b>	<b>126</b>

**9.D. Production of livestock materials**

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers
<b>Dairy animals</b>	-	-	-	-
Cows	-	-	-	-
Buffaloes	-	-	-	-
Calves	-	-	-	-
Others (Pl. specify) Goat	Thalacherry goat	7 Nos	41700	5
<b>Poultry</b>	-	-	-	-
Broilers	-	-	-	-
Layers	-	-	-	-
Duals (broiler and layer)	-	-	-	-
Japanese Quail	-	-	-	-

Table 9.D. (contd..)

Turkey	-	-	-	-
Emu	-	-	-	-
Ducks	-	-	-	-
Others (Pl. specify)	-	-	-	-
<b>Piggery</b>	-	-	-	-
Piglet	-	-	-	-
Others (Pl. specify)	-	-	-	-
<b>Fisheries</b>	-	-	-	-
Fingerlings	-	-	-	-
Others (Pl. specify)	-	-	-	-
<b>Total</b>		<b>7 Nos</b>	<b>41700</b>	<b>5</b>

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

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

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

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	Number
<b>Research papers (Full papers)</b>	Mochai Seed Quality Enhancement Techniques under Rainfed Conditions of Tribal Habitations of Hosur Forest Division. American International Journal of Research in Formal, Applied & Natural Sciences. AIJRFANS 13-319;pp 28-32	Vijaya Geetha.V and M.Bhaskaran	-
	Physiological Maturity Studies in Mustard. American International Journal of Research in Formal, Applied & Natural Sciences. AIJRFANS 13-326;pp 43-46	Vijaya Geetha.V, M.Bhaskaran and P.Balamurugan	-
	Evaluation of Vegetable Productivity under Rainfed Conditions of Tribal Habitations. International Journal of Emerging Technologies in Computational and Applied Sciences (IJETCAS) 13-561; pp 211-216	Vijaya Geetha.V and M.Bhaskaran	-
	Ragi Seed Quality Enhancement Techniques under Rainfed Conditions of Tribal Habitations of Hosur Forest Division. Journal of Academia and Industrial Research (JAIR) Vol. 2(1); pp 63-67	Vijaya Geetha.V and M.Bhaskaran	-
<b>Research papers (Abstracts)</b>	Vermicomposting for solid waste management. Abstract: 7 <sup>th</sup> National symposium-Ecofest at TNAU Coimbatore. Pp. 43	K.Venkatalakshmi and M.Malarkodi.2013	-
	Maximising redgram yield through integrated agronomic management practices under alkali soil. Souvenir: Innovation with global responsibility organised by ISCA at Karunya University Coimbatore Pp. 32	K.Venkatalakshmi	-

Table 10.B (contd..)

	Integrated agronomic management practices for maximizing the productivity of redgram. International conference on CNOI at Annamalai University, Chidambaram.Pp.32	K.Venkatalakshmi	-
<b>Technical reports</b>	Annual Action plan 2014-15	Scientists of this KVK	5
	18 <sup>th</sup> SAC report	Scientists of this KVK	6
	NADP – PF training report	Malarkodi, M and R.Arunachalam	3
	IAMWARM report	K.Venkatalakshmi and R.Arunachalam	2
<b>News letters</b>	Yerkalam (4 issues)	Scientists of this KVK	1200
<b>Technical bulletins</b>	-		
<b>Popular articles</b>	Mini mobile Sprinkler for drought mitigation, Thinakaran – 08.01.2013	R.Arunachalam	-
	Growing medicinal plants at home gardens, Thinathanthi -10.06.13	R.Arunachalam, and V.VijayaGeetha	-
	Low cost Mushroom production technology. Thinakaran 11.06.13	T.Saravanan and R.Arunachalam	-
	Hybrid cashew seedling, Thinathanthi -14.06.13	R.Arunachalam	-
	Inland aqua culture, Thinathanthi -26.08.13	R.Arunachalam	-
	Importance of Lazer Guided Land Leveller, Thinakaran -25.07.13	K.Venkatalakshmi, T.Saravanan and R.Arunachalam	-
	Production of hybrid redgram seedling, Thinamalar - 09.10.13	R.Arunachalam	-
	Inland aqua culture, Thinakaran -02.09.13	R.Arunachalam	-
	Roof gardening, Thinathanthi 21.11.13	V.VijayaGeetha and R.Arunachalam	-
<b>Extension literature</b>			
<b>Booklet</b>	Roof gardening	Malarkodi,M., V.Vijaya Geetha, T.Saravanan, S.Kannan, K.Venkatalakshmi and R.Arunachalam	100
	Soil Health	Malarkodi,M. and R.Arunachalam	100
	Integrated crop management in Sugarcane	Ponnusamy,A.K., R.Arunachalam, K.Venkatalakshmi, Malarkodi,M, T.Saravanan, V.VijayaGeetha and S.Kannan	50
	Organic farming and production of organic inputs	Venkatalakshmi,K., Malarkodi,M, V.VijayaGeetha, T.Saravanan, S.Kannan and R.Arunachalam	100
	Value addition in minor millets.	Kannan,S.,R.Arunachalam, V.Vijaya Geetha, Malarkodi,M, T.Saravanan and K.Venkatalakshmi	50
	Value addition in mango	Kannan,S.,R.Arunachalam, V.Vijaya Geetha, Malarkodi,M, T.Saravanan and K.Venkatalakshmi	100
	Value addition in fruits and vegetables	Kannan,S.,R.Arunachalam, V.Vijaya Geetha, Malarkodi,M, T.Saravanan and K.Venkatalakshmi	50
	Cuddalore district farmers based flower cultivation	Kannan,S.,R.Arunachalam, V.Vijaya Geetha, Malarkodi,M, T.Saravanan and K.Venkatalakshmi	50
	Mushroom cultivation and value addition	Saravanan T., S.Kannan and R.Arunachalam	200
	Pest and disease management in rice	Saravanan .T and R.Arunachalam	100
	Hitech Banana production	Saravanan T., K.Venkatalakshmi and R.Arunachalam	50
	Computer literacy	Samundeeswaran,R., T.Saravanan, R.Arunachalam and K.A. Ponnusamy	100

**Table 10.B (contd..)**


	Direct seeded paddy technologies	Venkatalakshmi.K., M.Malarkodi, V.Vijayageetha, S.Kannan and R. Arunachalam	100
	Hidensity planting in cashew	Venkatalakshmi.K., M.Malarkodi, V.Vijayageetha, S.Kannan and R. Arunachalam	100
<b>Folder/leaflets</b>	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
	Laser guided land leveller	K.Venkatalakshmi and R.Arunachalam	250
	Post hole digger in cashew	K.Venkatalakshmi and R.Arunachalam	250
<b>Others (Pl. specify)</b>	-		
<b>TOTAL</b>	<b>40</b>	<b>-</b>	<b>4466</b>

**10.B. Details of Electronic Media Produced – Nil**

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

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

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.

<b>Success story 1</b>	<b>SEED PRODUCER (RAM MAHESH)</b>	
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- Name of the Farmer** : Thiru. S.Ram Mahesh
- Address for the communication with pin code** : S/o. Sambanthamoorthy  
Vallam ,Thatchakadu  
B.Muttalur, 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 Rainfed Rice-ANNA 4.
  - He had followed all agronomic and plant protection practices for the paddy crop.
  - PPFM spray to mitigate drought


- 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**

Success story 2	<b>SEED PRODUCER (SHIVASHAKTHI SEEDS)</b>	
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- 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

Success story 3	<b>SEED PRODUCER (RAJA SEEDS)</b>	
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- Name of the Farmer** : Th. T. Subramaniam
- 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 Rajendrapattinam 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 pattinam trained from Th. T. Subramaniam and they are also producing certified seeds.




**Mr. Raja, the seed producer at his sale outlet**



**Certified seed packs of Raja Seeds**



Success story 4	<b>NURSERY GARDEN (AMMAN NURSERY)</b>	
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- 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.
- Contact Phone number** : 98652 45007
- Area of the Farm and water source** : 1 ha. with bore well.
- Technologies adopted** :
  - 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

Success story 5	<b>NURSERY GARDEN (SARADHAMBAL NURSERY)</b>	
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- Name of the Farmer** : Thiru. R.Muthukumar
- 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

Success story 6	NURSERY GARDEN (SRI MURUGAN NURSERY)	
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<b>Name of the Farmer</b>	:	A.Dhanavel
<b>Address for the communication with pin code</b>	:	Sri Murugan Nursery Cuddalore road, Pudukuraipettai Kuppanathum, Vridhachalam t.k.
<b>Contact Phone number</b>	:	98651 97550
<b>Area of the Farm</b>	:	1 acre
<b>Technologies adopted</b>	:	<ul style="list-style-type: none"> <li>• Raising of seedlings viz., Cashew,Jack,Mango,Guava,</li> <li>• Sapota,Lemon,Amla, and other Ornamental plants</li> <li>• soft wood grafting method</li> <li>• .Shade net method</li> </ul>
<b>Impact due to Technological interventions</b>	:	<ul style="list-style-type: none"> <li>• 3000 no.of seedling are being sold/month</li> <li>• Approximately Rs.15,000/month as profit.</li> </ul>
<b>Lessons learnt</b>	:	<ul style="list-style-type: none"> <li>• Viability of seedlings is more than the conventional planting.</li> <li>• Quality and true types of seedlings were produced under soft wood grafting.</li> <li>• Even growth is achieved.</li> </ul>
<b>Details of spreading success to other farmers or farmers groups</b>	:	Rasi Nursey, Amman nursery and velkkani nursery were started after getting training from Murgan nursey.



Nursery Board



Our SMS with the entrepreneur

Success story 7	<b>JEYAM HOME MADE PRODUCTS</b>	
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<b>Name of the Farmer</b>	:	R.Suganthi and K.Seetha lakshmi
<b>Address for the communication with pin code</b>	:	M/s. Jeyam home made products, 101 ,Thangam Nagar, Gandhi nagar post, Vadakuthu, Kurinjipadi T.K.
<b>Contact Phone number</b>	:	Cell: 94860 89781
<b>Area of the farm</b>	:	1200 sq.ft
<b>Technologies adopted</b>	:	<ul style="list-style-type: none"> <li>• Value added products in fruits, vegetables, pulses, cereals and millets.</li> <li>• Pickle preparation ready mix powder</li> <li>• Health food</li> <li>• Improved packaging and marketing.</li> </ul>
<b>Impact due to Technological interventions</b>	:	<ul style="list-style-type: none"> <li>• Sale of pickles/month:3000 bottles</li> <li>• Instant powder/month:200 kgs</li> <li>• Approximate profit/month :Rs.30,000/-</li> </ul>
<b>Lessons learnt</b>	:	Value added products gain more market value than raw products.
<b>Details of spreading success to other farmers or farmers groups</b>	:	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**



Success story 8	<b>AERO FOODS</b>	
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<b>Name of the Farmer</b>	: Mr.Manimozhi
<b>Address for the communication with pin code</b>	: M/s.Aero Foods, 144/1 Annasai, Periyar Nagar Vridhachalam, Cuddalore Tk.
<b>Contact Phone number</b>	: 94435 11316
<b>Area of the company</b>	: 800-900 sq.ft
<b>Technologies adopted</b>	: <ul style="list-style-type: none"> <li>• Prepared milletsbased value added products (Varagu,Samai,Theni, Ragi).</li> <li>• Prepared millet based Health mix</li> </ul>
<b>Impact due to Technological interventions</b>	: <ul style="list-style-type: none"> <li>• 1.5 tonnes of processed millets are being sold every month</li> <li>• 400-500 kgs of millet based health mix powder are being sold every month</li> <li>• Earning an approximate profit of Rs.20,000/month</li> </ul>
<b>Lessons learnt</b>	: <ul style="list-style-type: none"> <li>• Processed millets fetch more price than raw products.</li> <li>• Diabetic patient prefers millet based product rather than cereal based product and hence more market value.</li> </ul>
<b>Details of spreading success to other farmers or farmers groups</b>	: 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**

Success story 9	<b>PETALZ BOUQUET SHOP</b>	
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- Name of the Farmer** : Mrs. R. Umaraju
- Address for the communication with pin code** : W/o Rajasekar  
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. Sakhivel 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.



Success story 10	<b>VERMICOMPOST PRODUCTION</b>	
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<b>Name of the Farmer</b>	:	Mr.V.Sekar
<b>Address for the communication with pin code</b>	:	S/o.Velmurugan Kodukkur village Vridhachalam tk-606001
<b>Contact Phone number</b>	:	97863 46901
<b>Area of the farm</b>	:	3000 sq.ft with bore well
<b>Technologies adopted</b>	:	Vermi composting technologies-by utilizing agricultural waste
<b>Impact due to Technological interventions</b>	:	<ul style="list-style-type: none"> <li>• Recycled the waste effectively</li> <li>• Reduced the environmental pollution</li> <li>• 35 tonnes of vermi compost are being sold per year</li> <li>• Earning an approximate profit of Rs. 75,000 per year.</li> </ul>
<b>Lessons learnt</b>	:	<ul style="list-style-type: none"> <li>• 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.</li> <li>• Efficient way of utilizing agricultural waste.</li> </ul>
<b>Details of spreading success to other farmers or farmers groups</b>	:	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. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK
1	Paddy	<i>Vasambu (Acotus calamus)</i> 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 husbandry	Oral administration Aloe vera & Aanai nerunji leaves	To induce heat in cows
12		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
- Feed back 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	12
(ii)	Number of farm families selected	186
(iii)	Number of survey / PRA conducted	12

**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
	<b>Total</b>	<b>12</b>	<b>532157</b>

Details of samples analyzed so far since establishment of SWTL:

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)
Soil Samples	3212	3002	776	81425
Water Samples	3002	2979	959	28830
Plant samples	-	-	-	-
Manure samples	-	-	-	-
Others (specify)	-	-	-	-
<b>Total</b>	<b>6214</b>	<b>5981</b>	<b>1735</b>	<b>110255</b>

Details of samples analyzed during the 2013-14 :

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)
Soil Samples	363	338	167	9075
Water Samples	227	212	167	2270
Plant samples	-	-	-	-
Manure samples	-	-	-	-
Others (specify)	-	-	-	-
<b>Total</b>	<b>590</b>	<b>550</b>	<b>334</b>	<b>11345</b>

**10.I. Technology Week celebration during 2013-14**

We have observed Technology month during April-May 2013 and a broad outline of the activities are described here under.

**CELEBRATION OF TECHNOLOGY MONTH**

We have celebrated technology month (Uzhavar Peruvizha) in collaboration with the extension functionaries of state department of Agriculture for a period of 37 days from 14.04.13 to 20.05.13 throughout different revenue villages distributed under 13 blocks of the district.

Period of observing Technology month : From 14.04.2013 to 20.05.2013

Total number of farmers visited : 17000 to 20000 farmers

Total number of agencies involved : 15

Number of demonstrations visited by the farmers within KVK campus : 12

#### Other Details

Types of Activities	No. of Activities	Number of Farmers	Related crop/livestock technology
Gosthies	-	-	-
Lectures organized	160	9000	-
Exhibition	2	625	-
Film show	-	-	-
Fair	-	-	-
Farm Visit	-	-	-
Diagnostic Practical's	20	855	Paddy, sugarcane, pulses, oil seeds
Supply of Literature (No.)	800	800	Paddy, blackgram, groundnut and sugarcane
Supply of Seed (q)	-	-	-
Supply of Planting materials (No.)	75	75	Cashew, medicinal plants
Bio Product supply (Kg)	-	-	-
Bio Fertilizers (q)	-	-	-
Supply of fingerlings	-	-	-
Supply of Livestock specimen (No.)	-	-	-
Total number of farmers visited the technology week	-	17000 to 20000	-

#### A comprehensive report on our technology month celebration

Uzhavar Peruvizha-2013 was observed from 14.04.2013 to 20.05.2013 in Cuddalore district and 896 revenue villages were covered. The Scientists from KVK, Vridhachalam have participated in the Uzhavar Peruvizha regularly and delivered lectures on recent advances in Agriculture and Horticulture like SRI, SSI, SPI, use of Crop boosters, MN mixtures, Biofertilizers, biocontrol agents, INM, IPDM, HDP, Precision farming technologies, post harvest technologies, value addition etc. Demonstrations on soil sampling method, seed treatment with biofertilizers and bio control agents, preparation of Enriched farmyard manure, sucker treatment in Banana, SSI chip bud treatment and nursery preparation, mat nursery preparation in SRI, vermicompost preparation, mushroom cultivation, value addition of millets, amla and vegetables, use of agri portal in Agriculture were conducted by the Scientists of this KVK. Totally our KVK scientists organized 154 technical demonstrations throughout the district. Special lectures on successful interventions made by the KVK were also delivered by involving the successful farmers. Totally our KVK scientists delivered 68 such technical lectures.



HON'BLE MINISTER FOR ENVIROMENT M.C.SAMPATH  
AND DISTRICT COLLECTOR VISITED THE KVK STALL  
Place: Manjakuppam- Cuddalore Block  
Activity: KVK Exhibition Date:11.05.2013

Date: 13.05.13  
Scientist: Dr.T. Saravanan  
Place: Ottimedu  
Activity: SSI in Sugarcane



## PART XI. IMPACT

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

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
Drought mitigation in rice	625	25	Rs. 30000/ha	Rs. 35000/ha
Introduction of Anna 4 Paddy variety in drought prone areas	56	45	Rs. 34557/ha	Rs. 43485/ha
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 training	20	5	Rs. 5000/month	Rs. 7000/month
Value addition in fruits and vegetables –vocational training	22	12	Rs. 7000/month	Rs. 30000/month
Flower arrangement techniques - vocational training	15	10	Rs. 10000/month	Rs. 28000/month
Quality seedling production – Vocational training	40	25	Rs. 10000/month	Rs. 35000/month

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)

<b>CASE 1.</b>	<b>QUALITY SEEDLING PRODUCTION – NURSERY TECHNOLOGIES</b>
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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.Muthukumar, 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

<b>CASE 2.</b>	<b>ANNA 4 DROUGHT TOLERANT VARIETY</b>
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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 Vriddhachalam 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.

<b>CASE 3.</b>	<b>AREA SPECIFIC MINERAL MIXTURE</b>
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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.

<b>CASE 4.</b>	<b>INTEGRATED FARMING SYSTEM UNDER WETLAND SITUATION</b>
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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 Puliur 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

**3. 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 (Facebook 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	<ul style="list-style-type: none"> <li>◆ Assessing the training needs of farmers in areas of Crop improvement, production, protection and mechanization</li> <li>◆ Mid monthly and Monthly Zonal Workshop</li> <li>◆ FLD – Field day</li> <li>◆ Participated in the training programme</li> </ul>



	<ul style="list-style-type: none"> <li>◆ Watershed &amp; Waste land development programme</li> <li>◆ Seedling supply</li> <li>◆ District level farm improvement committee</li> <li>◆ In service training to AOs /AAOs</li> <li>◆ Off campus training programme</li> <li>◆ Farm advisory services</li> <li>◆ Seed farm- seed production meeting</li> <li>◆ ATMA implementation</li> <li>◆ Precision farming project</li> <li>◆ Uzhavar peruvizha</li> </ul>
<b>Dept. of Horticulture</b>	<ul style="list-style-type: none"> <li>◆ Assessing the training needs of farmers in areas of Crop improvement, production, protection and mechanization</li> <li>◆ Off campus training programme</li> <li>◆ Collaborative training programme</li> <li>◆ Seedlings supply</li> <li>◆ Demonstration</li> <li>◆ NHM training on cashew, mango, banana, chillies and loose flowers</li> <li>◆ Precision farming project</li> </ul>
<b>Annamalai University, Chidambaram</b>	<ul style="list-style-type: none"> <li>◆ Rural agricultural work experience programme</li> <li>◆ U.G. and P.G. students visit to KVK</li> <li>◆ Training to FSC clubs</li> </ul>
<b>TANUVAS, UTRC, Cuddalore</b>	<ul style="list-style-type: none"> <li>◆ Resource persons for training</li> </ul>
<b>Agricultural Extension Wing, Department of agriculture (TANCOF)</b>	<ul style="list-style-type: none"> <li>◆ Off campus training</li> <li>◆ Seed supply &amp; Watershed development</li> <li>◆ Training on oil seed production technology</li> <li>◆ Training on oilpalm cultivation</li> <li>◆ Training on polythene film mulching</li> </ul>
<b>Department of Animal husbandry</b>	<ul style="list-style-type: none"> <li>◆ Advisory service</li> </ul>
<b>Collectorate, Cuddalore</b>	<ul style="list-style-type: none"> <li>◆ Grievance day meeting</li> <li>◆ NLC expansion programme-alternate employment for displaced riots</li> <li>◆ Agricultural production council meeting</li> <li>◆ Special team constituted by District collector to evaluate the sugar factory effluent treatment and gravel quarry of plantations</li> <li>◆ Periodical technical / consultative meeting</li> </ul>
<b>Mahalir Thittam / DRDA Cuddalore</b>	<ul style="list-style-type: none"> <li>◆ Sponsored training</li> <li>◆ SGSY – SHG training</li> <li>◆ Skill up-gradation programme</li> <li>◆ Vazhalnthukattuvom project</li> </ul>
<b>Higher Secondary Schools</b>	<ul style="list-style-type: none"> <li>◆ Awareness campaign</li> <li>◆ NSS campaign</li> </ul>
<b>NGOs</b>	<ul style="list-style-type: none"> <li>◆ Awareness campaign</li> <li>◆ Training programme</li> <li>◆ Demonstration</li> </ul>
<b>NABARD, Cuddalore</b>	<ul style="list-style-type: none"> <li>◆ Farmers group discussion</li> <li>◆ TTC meetings</li> <li>◆ Trainings to farmers</li> </ul>

<b>Agriculture Engineering Dept. Govt. of Tamil Nadu</b>	<ul style="list-style-type: none"> <li>◆ Rain water harvesting programme</li> <li>◆ Seedlings supply</li> <li>◆ Training on agricultural implements and river basin development</li> </ul>
<b>ZRC, Coimbatore</b>	<ul style="list-style-type: none"> <li>◆ Training on power tiller operation, maintenance and its attachments</li> <li>◆ Implements supply</li> </ul>
<b>FC &amp; RI, Mettupalayam</b>	<ul style="list-style-type: none"> <li>◆ Students RAWE programme</li> </ul>
<b>Dept. of Millets, TNAU, Coimbatore</b>	<ul style="list-style-type: none"> <li>◆ FLD in kodomillet and maize</li> <li>◆ Seed supply</li> </ul>
<b>Dept. of Forage crops, TNAU, CBE</b>	<ul style="list-style-type: none"> <li>◆ FLD and OFT on forage crops</li> </ul>
<b>NGO- KVKs</b>	<ul style="list-style-type: none"> <li>◆ Training and exposure visit</li> <li>◆ Seed materials supply &amp; FLD / OFT discussion</li> </ul>
<b>WTC, Tamil Nadu Agricultural University, Coimbatore</b>	<ul style="list-style-type: none"> <li>◆ Drip and sprinkler unit supply</li> <li>◆ Technical support</li> <li>◆ Training on micro irrigation</li> </ul>
<b>Indian Bank, Vriddhachalam</b>	<ul style="list-style-type: none"> <li>◆ Training programmes</li> </ul>
<b>Government of Pondicherry</b>	<ul style="list-style-type: none"> <li>◆ Precision farming project – Consultancy</li> </ul>

**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.)
<b>NADP – PF Training</b>				
Agriculture	Conducting training to 280 beneficiary farmers in 7 batches Cuddalore – 120 Perambalur – 80 Ariyalur - 80	2012-13 (conducted during 2013-14)	NADP	2.345 lakhs

**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 2013-14**

S. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK	Other remarks (if any)
01	Meetings	1. GB meeting 2. Technology advisory meeting 3. ATMA functionaries, farmers and scientists interaction meet	15 20	- - 1	-
02	Research projects	-	-	-	-
03	Training programmes	<ul style="list-style-type: none"> <li>➤ ATMA Farm Schools</li> <li>➤ Crop advisory Trainings</li> <li>➤ Training for the block level BTM and SMS</li> </ul>	26	4	-

Table 12.C. (contd..)

04	Demonstrations	All block level demonstrations organized by ATMA functionaries	18	4	<ul style="list-style-type: none"> <li>➤ HDP in Banana</li> <li>➤ Pruning in cashew</li> <li>➤ Market based extension</li> <li>➤ Crop management techniques</li> </ul>
05	Extension Programmes				
	Kisan Mela	Farmers day	4	2	TRRI Adthurai and TNAU Coimbatore
	Technology Month	Uzhavar peruvizha programme	1	1	38 days long programme
	Exposure visit	-	-	-	-
	Exhibition	Uzhavar peruvizha exhibitions	2	2	-
	Soil health camps	Soil health camp organized by ATMA	5	2	-
	Animal Health Campaigns	Animal Health Campaign- Cuddalore	3	-	-
	Others (Pl. specify)	-	-	-	-
<b>06</b>	<b>Publications</b>	<b>Nil</b>			
	Video Films	-	-	-	-
	Books	-	-	-	-
	Extension Literature	-	-	-	-
	Pamphlets	-	-	-	-
	Others (Pl. specify)	-	-	-	-
<b>07</b>	<b>Other Activities (Pl. specify)</b>	<b>Nil</b>			
	Watershed approach	-	-	-	-
	Integrated Farm Development	-	-	-	-
	Agri-preneurs development	-	-	-	-
		-	-	-	-

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

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

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

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

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

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

### 12. G Kisan Mobile Advisory Services

Month	No. of SMS sent	No. of farmers to which SMS was sent	No. of feedback / query on SMS sent
April 2013	Nil		
May			
June			
July			
August			
September			
October			
November			
December			
January 2014			
February			
March 2014			
<b>Total for the year 2013-14</b>			

## PART XIII- PERFORMANCE OF INFRASTRUCTURE IN KVK

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

Sl. No.	Demo Unit	Year of establishment	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Produce	Qty.	Cost of inputs	Gross income	
1.	Hi-Tech Nursery	2009	-	Chilli – Arka Meghana	Protray seedlings	14700 Nos	7500	22050	Distributed to OFT/FLD (2013-14) beneficiary farmers
				Chilli – PLR 1	Protray seedlings	4765 Nos	800	3335	
				Medicinal plants cuttings	Polybag seedlings	242 Nos	1250	4840	
2.	Poultry Demo unit	2009	-	Nammakkal 4Chicks	Nammakkal 4 Chicks	100 Nos	--	--	Nammakkal 4 chicks for FLD beneficiary farmers
3.	Turkey Demo unit	2009		Nanthanam 1	Nanthanam 1	4 Nos	--	1000	Nanthanam 1 Turkey for Demo purpose only
4.	Goat shed	2009	-	Tellicherry Goat	Tellicherry Goat	7 Nos	--	41700	For Demo as well as FLD purpose
5.	Vermicom post	2012	-	Vermicompost	Vermicompost	60 Kg	-	300	For Demo purpose only
6.	Coirpith Compost	2013	-	Coirpith compost	Coirpithcompost	1000 kg	1500	6000	For Demo purpose only
7.	Roof Garden	2013	-	Tomato	Amman sri	9 kg	-	108	For Demo purpose only
				Brinjal	Ujala	11.5 Kg	-	230	
				Greens	Amaranthus	1.5kg	-	30	
				Lablab	Co (GB)14	8.25kg	-	265	
				Mint	local	2 kg	-	60	
				Coriander	Local	1.5kg	-	30	
Green chillies	Arka Meghna	1.5	-	60					
8.	IFS model unit	2013	-	Hen and Fish	Namakkal chicks and cat fish	Chicks- 2 nos Fish - 3 kg	-	750	For Demo purpose only
9.	Mushroom production unit	2013	-	Oyster mushroom	mushroom	5 kg	-	350	For Demo purpose only

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

Name of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.	Cost of inputs	Gross income	
Cereals									
Paddy	02.09.13	17.12.13	0.2	Anna 4	Seeds	7.5 qtls.	3700	18000	Yet to be sold
Pulses	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-
Oilseeds	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-
Fibers	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-
Spices & Plantation crops									
	-	-	-	-	-	-	-	-	-
Floriculture	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-
Vegetables	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-
Others (specify)									
	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-

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

Sl. No.	Name of the Product	Qty	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	
1.	Coir Compost	1000	-	6000	-
2.	Vermicompost	60	-	300	-

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

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	
1.	Goat	Thalacherry	Goat	7 nos	-	41700	-

**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 2013	-	-	-
May 2013	56	4	-
June 2013	30	3	-
July 2013	15	2	-
August 2013	36	4	-
September 2013	32	3	-
October 2013	-	-	-
November 2013	32	2	-
December 2013	68	5	-
January 2014	80	4	-
February 2014	172	10	-
March 2014	-	-	-

## 13.F. Database management

S. No	Database target	Database created
1	Resource inventory of the district <ol style="list-style-type: none"> <li>1. Nine fold classification of land</li> <li>2. Number and size of operational holdings</li> <li>3. Weather parameters of the district (for minimum 10 years)</li> <li>4. Details of soil profile</li> <li>5. Detailed cropping pattern (for minimum 10 years)</li> <li>6. Area, production and productivity of major crops</li> <li>7. Details of livestock wealth of district</li> <li>8. Production and productivity of livestock produces</li> <li>9. Area under irrigation from different sources</li> <li>10. Seasonal availability of labour</li> <li>11. Trend in wholesale price of major crop and livestock products(for minimum 10 years)</li> <li>12. Details of input agencies</li> <li>13. Details of infrastructural facilities available for production, post harvest and marketing</li> <li>14. Details of institutional credit facilities</li> <li>15. Any other relevant to district</li> </ol>	Completed
2	Farmers database Details of farmers	Completed
3	Technology inventory for the district Details of suitable technologies for a district with their details	Completed
4	Database for technologies assessed and refined Technologies taken up for assessment and refinement with their attributes	In progress
5	Frontline demonstrations database Details of crops and enterprises along with technologies identified for demonstration	In progress
6	Training database Details of training programmes across all categories and types of participants	In progress
7	Database of extension programmes Details of extension activities conducted with types of participants	In progress
8	Seeds and Planting material database Details of crops along with varieties produced and sold	In progress
9	KVK inventory of assets Details of inventions including all assets explaining year of purchase, present condition etc	Completed
10	KVK account database Various accounts along with their sanction, expenditure etc	In progress

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

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

**PART XIV - FINANCIAL PERFORMANCE**

**14.A. Details of KVK Bank accounts**

Bank account	Name of the bank	Location	Branch code	Account Name	Account Number	MICR Number	IFSC Number
With Host Institute	State Bank of India						
With KVK	State Bank of India	Vriddhachalam	00954	Main	11074361787	000240	SBIN0000954
	State Bank of India	Vriddhachalam	00954	RF-Farm	11074361743	000662	SBIN0000954
	State Bank of India	Vriddhachalam	00954	RF-Buliding	11074361754	-	SBIN0000954

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

S. No.	Particulars	Sanctioned	Released	Expenditure
<b>A. Recurring Contingencies</b>				
1	<b>Pay &amp; Allowances</b>	7300000	7300000	8483556
2	<b>Traveling allowances</b>	175000	175000	174654
3	<b>Contingencies</b>			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	185000	185000	185000
B	POL, repair of vehicles, tractor and equipments	180000	180000	180000
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	90000	90000	89994
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	75000	75000	74999
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	220000	220000	220000
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	75000	75000	74994
G	Training of extension functionaries	25000	25000	24992
H	Maintenance of buildings	30000	30000	30104
I	Extension activities	35000	35000	35000
J	Farmers Field School	10000	10000	10081
K	Library	5000	5000	5000
<b>TOTAL (A)</b>		<b>8405000</b>	<b>8405000</b>	<b>9588374</b>
<b>B. Non-Recurring Contingencies</b>				
1	Works	0.0	0.0	0.0
2	Equipments including SWTL & Furniture	0.0	0.0	0.0
3	Vehicle (Four wheeler/Two wheeler, please specify)	0.0	0.0	0.0
4	Library (Purchase of assets like books & journals)	0.0	0.0	0.0
<b>TOTAL (B)</b>		<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>C. REVOLVING FUND</b>				
		0.0	0.0	0.0
<b>GRAND TOTAL (A+B+C)</b>		<b>8405000</b>	<b>8405000</b>	<b>9588374</b>

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

Year	Opening balance as on 1 <sup>st</sup> April	Income during the year	Expenditure during the year	Net balance in hand as on 1 <sup>st</sup> April of each year
April 2011 to March 2012	160370.72	96036	142120	114286.72
April 2012 to March 2013	114286.72	245821	23734	352235.72
April 2013 to March 2014	352235.72	123220	36106	439349.72

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

Name of the staff	Designation	Title of the training programme	Institute where attended	Dates
Dr.R.Arunachalam	Programme Coordinator	Orientation programme on technology assessment, refinement and demonstration	KVK Hassan, Karnataka	01.04.13 to 06.04.13
Dr. R. Arunachalam	Programme Coordinator	Orientation day programme	TNAU, Coimbatore	27.6.2013
Dr. K. Venkata lakshmi	SMS (Agronomy)			
Dr. T. Saravanan	SMS (Plant Pathology)			
Dr.K.Venkata lakshmi	SMS (Agronomy)	International Conference on Conventional and non conventional Organic Inputs	Annamalai University, Chidambaram	16.8.13 and 17.8.13
Dr.V.Vijaya Geetha	SMS (Seed Science)	2 <sup>nd</sup> Annual Seed Workshop	TNAU, Coimbatore	22.08.13
Dr.K.Venkata lakshmi	SMS (Agronomy)	National Symposium on Ecofest-13	AEC&RI, Coimbatore	26.08.13 & 27.8.13
Dr. R. Arunachalam	Programme Coordinator	Capacity building training on Recent trends in Agricultural Marketing	TNAU, Coimbatore	09.10.13 and 10.10.13
Dr. R. Arunachalam	Programme Coordinator	8 <sup>th</sup> National KVK conference	GKVK campus, Bangalore	22.10.13 to 26.10.13
Dr. R. Arunachalam	Programme Coordinator	workshop on TNAU Mass media linkage mechanism	TNAU, Coimbatore	4.11.13 to 6.11.13
Dr. M. Malarkodi	SMS (Soil Science)	Training on Applications of Remote sensing and GIS in Natural Resource Management	NBSS&LUP, Nagpur	12.11.13 to 02.12.13
Dr. M. Malarkodi	SMS (Soil Science)	HRD training on organic farming and internal control system	TNAU, Coimbatore	16.12.13 to 20.12.13
Dr. M. Malarkodi	SMS (Soil Science)	Workshop on Transfer of Tree Cultivation Technologies	IFGTB, Coimbatore	21.03.2014
Dr. T. Saravanan	SMS (Plant Pathology)	workshop on Foot and Mouth Disease control programme- Sensitizing KVK	IVRI Regional Station, Bangalore	01.02.14



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

<b>Farmers Field School</b>	<b>INTEGRATED NUTRIENT MANAGEMENT IN SUGARCANE</b>
-----------------------------	--

- Farmers Field school has been conducted at Vijayamanagaram ,Vridhachalam block with the aim to upscale the knowledge of farmers regarding to latest technologies in sugarcane cultivation.
- This programme has been conducted during the period of 13.11.2013 to 29.1.14.
- Totally 34 nos. of farmers were registered and participated in this course.
- The various topics like suitable varieties of sugarcane, sett preparation, nursery and main field preparation, weed and fertilizer management, Integrated nutrient management practices, SSI and drip fertigation, drought management, pest and disease management, ratoon management and harvest were covered by the scientist of this KVK viz., Dr.T.Sarvanaan (PP), Dr.M.Malarkodi (SS&AC) and Dr.V.Vijayageetha (SST). Dr.K.Venkatalakshmi, SMS (Agronomy) co-ordinated the programme.
- Farmers also got exposed to the sugarcane research station to practically know the technologies and the farmers get interacted with the scientists.
- A booklet was prepared on “Sugarcane Production Technology” and distributed to the beneficiaries at the end of the course which consist of all the topics mentioned above.
- The following is the lesson schedule of the FFS programme.

<b>S.No</b>	<b>Date</b>	<b>Title</b>	<b>Name of the Scientist</b>
1	13.11.13	Season ,varieties and field preparation	V.Vijayageetha
2	20.11.13	Nursery crop ,demo-sett treatment	V.Vijayageetha
3	27.10.13	Preparation of setts for planting ,sett treatment, planting of canes, intercultivation practices	M.Malarkodi
4	04.12.13	Weed management, intercultivation practices	K.Venkata lakshmi
5	11.12.13	Soil and water testing	M.Malarkodi
6	18.12.13	Fertilizer management and Micro nutrient management	M.Malarkodi
7	26.12.13	Integrated nutrient management	K.Venkata lakshmi
8	02.01.14	Major pests in sugarcane and its control measure	T.Sarvanan
9	09.01.14	Major diseases and its control measures	T.Sarvanan
10	22.01.14	Field visit-identification of pests and diseases.	T.Sarvanan
11	29.01.14	Water management and drip fertigation, drought management in sugarcane	K.Venkata lakshmi
12	05.02.14	Sustainable sugarcane initiative practices.	K.Venkata lakshmi
13	12.02.14	Pre harvest practices and Harvest	V.Vijayageetha
14	19.02.14	Ratoon crop management and economics and Felicitation Function	V.Vijayageetha & M.Malarkodi

# SUMMARY FOR 2013-14

## I. TECHNOLOGY ASSESSMENT

### Summary of technologies assessed under various crops

Thematic areas	Crop	Name of the technology assessed	No. of trials
Integrated Nutrient Management	--	--	--
	--	--	--
Varietal Evaluation	Paddy	Assessment of the different varieties of paddy for salt affected soil	05
	Bush type lablab	Assessment of Hybrid performance of Bush type lablab	10
Integrated Pest Management	--	--	--
	--	--	--
Integrated Crop Management	Paddy	Assessment of different management strategies to mitigate drought in paddy	10
	--	--	--
Integrated Disease Management	--	--	--
	--	--	--
Small Scale Income Generation Enterprises	--	--	--
	--	--	--
Weed Management	--	--	--
	--	--	--
Resource Conservation Technology	Paddy, Blackgram and Groundnut	Assessment of suitable cropping pattern utilizing farm ponds	05
	--	--	--
Farm Machineries	--	--	--
	--	--	--
Integrated Farming System	--	--	--
	--	--	--
Seed / Plant production	--	--	--
	--	--	--
Value addition	--	--	--
	--	--	--
Drudgery Reduction	--	--	--
	--	--	--
Storage Technique	--	--	--
	--	--	--
Others (Pl. specify)	--	--	--
	--	--	--
<b>Total</b>			<b>30</b>

### Summary of technologies assessed under livestock: Nil

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



## II. TECHNOLOGY REFINEMENT

### Summary of technologies refined under various crops: Nil

Thematic areas	Crop	Name of the technology refined	No. of trials
Integrated Nutrient Management	--	--	--
	--	--	--
Varietal Evaluation	--	--	--
	--	--	--
Integrated Pest Management	--	--	--
	--	--	--
Integrated Crop Management	--	--	--
	--	--	--
Integrated Disease Management	--	--	--
	--	--	--
Small Scale Income Generation Enterprises	--	--	--
	--	--	--
Weed Management	--	--	--
	--	--	--
Resource Conservation Technology	--	--	--
	--	--	--
Farm Machineries	--	--	--
	--	--	--
Integrated Farming System	--	--	--
	--	--	--
Seed / Plant production	--	--	--
	--	--	--
Value addition	--	--	--
	--	--	--
Drudgery Reduction	--	--	--
	--	--	--
Storage Technique	--	--	--
	--	--	--
Others (Pl. specify)	--	--	--
	--	--	--
<b>Total</b>			--

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

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



### III. FRONTLINE DEMONSTRATION

#### Crops

Crop	Thematic area	Name of the technology demonstrated	No. of KVKs	No. of Farmer	Area (ha)	Yield (q/ha)		% change in yield	Other parameters		*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
						Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Cereals																		
Paddy	Crop management	Demonstration of Anna 4 paddy variety	--	10	4	43.1	29.5	46.1	No. of productive tillers/hill - 26.7 No of grains/panicle – 210	14.5 178	18550	56030	37480	3.02	18550	38350	17500	2.06
Paddy	Crop management	Management of bacterial blight and leaf streak in paddy	--	12	5	56.75	48.99	15.84	% BLB incidence – 6.21 % BLS incidence – 4.31	21.45 19.20	31280	76612	45332	2.45	29341	63207	33886	2.15
Paddy	Crop management	Demonstration of Paddy ADT (R) 49	--	10	4	63.12	52.50	20.23	No. of productive tillers/hill – 17.04 No of grains/panicle – 146	13.8 122	30500	82056	51556	2.69	29350	68250	38900	2.33
Millets	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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Oilseeds	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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Pulses																		
Blackgram	Crop management	Demonstration of Integrated Crop Management practices in VBN 6 blackgram	--	10	4	8.66	6.75	28.3	No. of pods/plant – 27.4	21.5	15720	47630	31910	3.03	15460	37125	21665	2.40
Redgram	Crop management	Demonstration of BSMR 736 Redgram through transplanting method	--	10	4	1233	8.70	41.70	No.of branches /plant – 9.0 No.of pods/plant - 220.4	7.0 190.6	13700	39209	25509	2.86	10500	27666	17166	2.63
<b>Vegetables</b>	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chilli	Crop management	Demonstration of Arka Meghana hybrid chilli	--	10	2	Demonstration is in progress - The seeds of Arka Meghana has been purchased during the month of December 2013 from IIHR, Bangalore and planting has been taken up during February 2014. Now the crop is in flowering stage At this stage it is observed that the flower dropping is much minimal in Arka Meghana, compared to the local check ( Priyanka hybrid)												
Vegetable cowpea	Crop management	Demonstration of Vegetable Cowpea	--	10	2	220	160	37.5	No. of pods/plant – 51.8	38.0	38000	110000	72000	2.89	42000	112000	70000	2.67



Table III (contd..)

Others (pl.specify)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Special programme	-	Promotion of flower cultivation through commodity group approach	-	-	-	<ul style="list-style-type: none"> <li>No of trainings conducted: 8 nos</li> <li>Exposure visit within the district : 4 nos (Flower cultivation areas of Thevanampattinam, Theerthampalayam, Mutlur, Chidambaram)</li> <li>Exposure visit to other districts: 4 Nos</li> <li>Head office of the Tamil Nadu Flowers Growers Association at Sathiyamangalam of Erode district</li> <li>Erode district Precision farming farmers association at Sivagiri, Erode district</li> <li>HC &amp; RI, Coimbatore</li> <li>Horticultural Research Station, Yercaud</li> <li>No. of groups formed and registered:                             <ul style="list-style-type: none"> <li>One – Cuddalore district commercial flower growers welfare association (Registration No. 12/2014 under the Govt. of Tamil Nadu) – Copy enclosed</li> <li>One group ( Registration under progress)</li> </ul> </li> </ul>												
Farming system	Farming system	Integrated Farming System	-	Wet land – 1 Dry land - 2	1 ha 2 ha	Demonstration is under progress												
<b>Total</b>			-	<b>105</b>	<b>36</b>													

\* 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**

Category	Thematic area	Name of the technology demonstrated	No. of KVKs	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
						Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Dairy	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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Poultry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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Rabbitry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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Piggery	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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Sheep and goat	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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Duckery	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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Others (pl.specify)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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

\*\* BCR= GROSS RETURN/GROSS COST



## Fisheries: Nil

Category	Thematic area	Name of the technology demonstrated	No. of KVKs	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
						Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Common carps	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mussels	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ornamental fishes	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Others (pl. specify)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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

\*\* BCR= GROSS RETURN/GROSS COST

## Other enterprises: Nil

Category	Name of the technology demonstrated	No. of KVKs	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.) or Rs./unit				*Economics of check (Rs.) or Rs./unit				
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR	
Oyster mushroom	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Button mushroom	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vermicompost	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sericulture	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Apiculture	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Others (pl. specify)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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

\*\* BCR= GROSS RETURN/GROSS COST

## Women empowerment - Nil

Category	Name of technology	No. of KVKs	No. of demonstrations	Name of observations	Demonstration	Check
<b>Women</b>	--	--	--	--	--	--
Pregnant women	--	--	--	--	--	--
Adolescent Girl	--	--	--	--	--	--
Other women	--	--	--	--	--	--
<b>Children</b>	--	--	--	--	--	--
Neonats	--	--	--	--	--	--
Infants	--	--	--	--	--	--
Children	--	--	--	--	--	--

## Farm implements and machinery: Nil

Name of the implement	Crop	Name of the technology demonstrated	No. of KVKs	No. of Farmer	Area (ha)	Filed observation (output/man hour)		% change in major parameter	Labor reduction (man days)				Cost reduction (Rs./ha or Rs./Unit ect.)				
						Demonstration	Check										
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\* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.

\*\* BCR= GROSS RETURN/GROSS COST

## Other enterprises: Nil



Capsicum	--	--	--	--	--	--	--	--	--	--
<b>Others (Specify)</b>	--	--	--	--	--	--	--	--	--	--
Chilli	Arka Meghana	10	2	Demonstration is in progress - The seeds of Arka Meghana has been purchased during the month of December 2013 from IIHR, Bangalore and planting has been taken up during February 2014. Now the crop is in flowering stage At this stage it is observed that the flower dropping is much minimal in Arka Meghana, compared to the local check ( Priyanka hybrid)						
	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	--	--	--	--	--	--	--	--	--	--
Cucumber	--	--	--	--	--	--	--	--	--	--
Tomato	--	--	--	--	--	--	--	--	--	--
Brinjal	--	--	--	--	--	--	--	--	--	--
Okra	--	--	--	--	--	--	--	--	--	--
Onion	--	--	--	--	--	--	--	--	--	--
Potato	--	--	--	--	--	--	--	--	--	--
Field bean	--	--	--	--	--	--	--	--	--	--
Others (pl.specify)	--	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	--	--	--	--	--	--	--	--	--	--
<b>Commercial crops</b>	--	--	--	--	--	--	--	--	--	--
Sugarcane	--	--	--	--	--	--	--	--	--	--
Coconut	--	--	--	--	--	--	--	--	--	--
Others (pl.specify)	--	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	--	--	--	--	--	--	--	--	--	--
Fodder crops	--	--	--	--	--	--	--	--	--	--
Maize (Fodder)	--	--	--	--	--	--	--	--	--	--
Sorghum (Fodder)	--	--	--	--	--	--	--	--	--	--
Others (pl.specify)	--	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	--	<b>10</b>	<b>2</b>	--	--	--	--	--	--	--







Contd..

Pearl culture	-	-	-	-	-	-	-	-	-	-
Fish processing and value addition	-	-	-	-	-	-	-	-	-	-
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-
<b>Production of Inputs at site</b>										
Seed Production	2	15	6	21	6	8	14	21	14	35
Planting material production	1	12	7	19	5	3	8	17	10	27
Bio-agents production	1	14	8	22	8	3	11	22	11	33
Bio-pesticides production	1	21	6	27	4	2	6	25	8	33
Bio-fertilizer production	1	22	5	27	6	2	8	28	7	35
Vermi-compost production	3	32	11	43	8	2	10	40	13	53
Organic manures production	1	18	4	22	3	1	4	21	5	26
Production of fry and fingerlings	-	-	-	-	-	-	-	-	-	-
Production of Bee-colonies and wax sheets	-	-	-	-	-	-	-	-	-	-
Small tools and implements	-	-	-	-	-	-	-	-	-	-
Production of livestock feed and fodder	-	-	-	-	-	-	-	-	-	-
Production of Fish feed	-	-	-	-	-	-	-	-	-	-
Mushroom production	3	3	26	29	4	9	13	7	39	42
Apiculture	-	-	-	-	-	-	-	-	-	-
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-
<b>Capacity Building and Group Dynamics</b>										
Leadership development	-	-	-	-	-	-	-	-	-	-
Group dynamics	-	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-
Mobilization of social capital	-	-	-	-	-	-	-	-	-	-
Entrepreneurial development of farmers/youths	-	-	-	-	-	-	-	-	-	-
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-
<b>Agro-forestry</b>										
Production technologies	-	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-	-
Integrated Farming Systems	-	-	-	-	-	-	-	-	-	-
Others (Pl. specify)	-	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>99</b>	<b>1324</b>	<b>487</b>	<b>1811</b>	<b>307</b>	<b>248</b>	<b>555</b>	<b>1631</b>	<b>743</b>	<b>2366</b>

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
<b>Crop Production</b>										
Weed Management	2	18	5	23	2	-	2	20	5	25
Resource Conservation Technologies	1	12	5	17	4	2	6	16	7	23
Cropping Systems	4	56	12	68	11	7	18	67	19	86
Crop Diversification	3	31	8	39	5	4	9	36	12	48
Integrated Farming	5	85	12	97	18	9	27	103	21	124
Micro Irrigation/Irrigation	4	49	12	61	8	5	13	57	17	74
Seed production	7	76	16	92	4	11	15	80	27	107
Nursery management	1	54	18	72	9	5	14	63	23	86
Integrated Crop Management	1	12	5	17	4	2	6	16	7	23
Soil and Water Conservation	2	15	11	26	3	7	10	18	18	36
Integrated Nutrient Management	2	35	12	47	10	8	18	45	20	65
Production of organic inputs	1	45	9	54	3	7	10	48	16	64
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-
<b>Horticulture</b>	-	-	-	-	-	-	-	-	-	-
<b>a) Vegetable Crops</b>	-	-	-	-	-	-	-	-	-	-
Production of low value and high volume crop	-	-	-	-	-	-	-	-	-	-
Off-season vegetables	2	32	11	43	8	2	10	40	13	53
Nursery raising	1	58	18	76	4	6	10	62	28	86
Exotic vegetables	-	-	-	-	-	-	-	-	-	-
Export potential vegetables	-	-	-	-	-	-	-	-	-	-
Grading and standardization	-	-	-	-	-	-	-	-	-	-
Protective cultivation	1	32	15	43	8	2	10	40	17	57
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-
<b>b) Fruits</b>	-	-	-	-	-	-	-	-	-	-
Training and Pruning	1	18	4	22	4	-	4	22	4	26
Layout and Management of Orchards	-	-	-	-	-	-	-	-	-	-
Cultivation of Fruit	1	22	4	26	4	2	6	26	6	32
Management of young plants/orchards	-	-	-	-	-	-	-	-	-	-
Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-
Export potential fruits	-	-	-	-	-	-	-	-	-	-
Micro irrigation systems of orchards	2	38	8	46	3	1	4	41	9	50
Plant propagation techniques	1	32	15	43	8	2	10	40	17	57
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-
<b>c) Ornamental Plants</b>										
Nursery Management	1	18	4	22	4	-	4	22	4	26
Management of potted plants	2	32	11	43	8	2	10	40	13	53
Export potential of ornamental plants	-	-	-	-	-	-	-	-	-	-
Propagation techniques of Ornamental Plants	2	32	11	43	8	2	10	40	13	53







Pearl culture	-	-	-	-	-	-	-	-	-	-
Fish processing and value addition	-	-	-	-	-	-	-	-	-	-
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-
<b>Production of Inputs at site</b>										
Seed Production	8	76	14	90	22	11	33	98	25	123
Planting material production	4	47	16	63	11	8	19	58	24	82
Bio-agents production	1	15	2	17	2	2	4	17	4	21
Bio-pesticides production	1	8	4	12	4	2	6	12	6	18
Bio-fertilizer production	1	6	4	10	5	5	10	11	9	20
Vermi-compost production	5	48	152	200	25	42	67	73	194	267
Organic manures production	3	32	15	43	8	2	10	40	17	57
Production of fry and fingerlings	-	-	-	-	-	-	-	-	-	-
Production of Bee-colonies and wax sheets	-	-	-	-	-	-	-	-	-	-
Small tools and implements	-	-	-	-	-	-	-	-	-	-
Production of livestock feed and fodder	-	-	-	-	-	-	-	-	-	-
Production of Fish feed	-	-	-	-	-	-	-	-	-	-
Mushroom production	3	28	12	40	7	12	19	35	24	59
Apiculture	-	-	-	-	-	-	-	-	-	-
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-
<b>Capacity Building and Group Dynamics</b>										
Leadership development	-	-	-	-	-	-	-	-	-	-
Group dynamics	-	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-
Mobilization of social capital	1	6	4	10	5	5	10	11	9	20
Entrepreneurial development of farmers/youths	2	15	2	17	2	2	4	17	4	21
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-
<b>Agro-forestry</b>										
Production technologies	-	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-	-
Integrated Farming Systems	-	-	-	-	-	-	-	-	-	-
Others (Pl. specify)	-	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>197</b>	<b>2273</b>	<b>1048</b>	<b>3305</b>	<b>539</b>	<b>329</b>	<b>991</b>	<b>2812</b>	<b>1504</b>	<b>4312</b>

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops	2	88	21	109	15	8	23	103	29	132
Training and pruning of orchards	1	26	8	34	4	5	9	30	13	43
Protected cultivation of vegetable crops	1	32	14	46	6	7	13	38	21	59
Commercial fruit production	-	-	-	-	-	-	-	-	-	-
Integrated farming	2	45	16	61	8	5	13	53	21	74
Seed production	5	85	18	103	12	8	20	97	26	123
Production of organic inputs	2	85	32	117	12	3	15	97	35	132
Planting material production	1	32	14	46	6	7	13	38	21	59
Vermi-culture	2	48	12	60	8	5	13	56	17	73
Mushroom Production	4	84	41	125	27	18	45	111	59	170
Bee-keeping	-	-	-	-	-	-	-	-	-	-
Sericulture	-	-	-	-	-	-	-	-	-	-
Repair and maintenance of farm machinery and implements	2	45	8	53	4	6	10	49	14	63
Value addition	5	32	87	119	14	39	53	46	126	172
Small scale processing	-	-	-	-	-	-	-	-	-	-
Post Harvest Technology	2	48	12	60	8	11	19	56	23	79
Tailoring and Stitching	-	-	-	-	-	-	-	-	-	-
Rural Crafts	-	-	-	-	-	-	-	-	-	-
Production of quality animal products	-	-	-	-	-	-	-	-	-	-
Dairying	-	-	-	-	-	-	-	-	-	-
Sheep and goat rearing	2	45	18	63	12	7	19	57	25	82
Quail farming	-	-	-	-	-	-	-	-	-	-
Piggery	-	-	-	-	-	-	-	-	-	-
Rabbit farming	-	-	-	-	-	-	-	-	-	-
Poultry production	2	32	8	40	4	3	7	36	11	47
Ornamental fisheries	3	48	12	60	8	5	13	56	17	73
Composite fish culture	-	-	-	-	-	-	-	-	-	-
Freshwater prawn culture	-	-	-	-	-	-	-	-	-	-
Shrimp farming	-	-	-	-	-	-	-	-	-	-
Pearl culture	-	-	-	-	-	-	-	-	-	-
Cold water fisheries	-	-	-	-	-	-	-	-	-	-
Fish harvest and processing technology	1	45	18	63	12	7	19	57	25	82
Fry and fingerling rearing	-	-	-	-	-	-	-	-	-	-
Any other (pl.specify)	-	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>37</b>	<b>820</b>	<b>339</b>	<b>1159</b>	<b>160</b>	<b>144</b>	<b>304</b>	<b>980</b>	<b>483</b>	<b>1463</b>

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops	1	25	7	32	5	8	13	30	15	45
Training and pruning of orchards	1	22	6	28	4	3	7	26	9	35
Protected cultivation of vegetable crops	1	36	12	48	12	10	22	48	22	70
Commercial fruit production	-	-	-	-	-	-	-	-	-	-
Integrated farming	4	87	32	119	15	18	33	102	50	152
Seed production	3	42	18	60	15	8	23	57	26	83
Production of organic inputs	-	-	-	-	-	-	-	-	-	-
Planting material production	5	78	29	107	12	13	25	90	42	132
Vermi-culture	-	-	-	-	-	-	-	-	-	-
Mushroom Production	1	56	-	56	20	-	20	76	-	76
Bee-keeping	-	-	-	-	-	-	-	-	-	-
Sericulture	-	-	-	-	-	-	-	-	-	-
Repair and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-
Value addition	2	11	48	59	3	15	18	14	63	77
Small scale processing	-	-	-	-	-	-	-	-	-	-
Post Harvest Technology	2	38	2	40	11	8	19	49	10	59
Tailoring and Stitching	-	-	-	-	-	-	-	-	-	-
Rural Crafts	-	-	-	-	-	-	-	-	-	-
Production of quality animal products	-	-	-	-	-	-	-	-	-	-
Dairying	-	-	-	-	-	-	-	-	-	-
Sheep and goat rearing	1	25	5	30	4	6	10	29	11	40
Quail farming	-	-	-	-	-	-	-	-	-	-
Piggery	-	-	-	-	-	-	-	-	-	-
Rabbit farming	-	-	-	-	-	-	-	-	-	-
Poultry production	4	82	26	108	21	10	31	103	36	139
Ornamental fisheries	1	18	7	25	4	3	7	22	10	32
Composite fish culture	5	67	24	91	12	7	19	79	31	110
Freshwater prawn culture	-	-	-	-	-	-	-	-	-	-
Shrimp farming	-	-	-	-	-	-	-	-	-	-
Pearl culture	-	-	-	-	-	-	-	-	-	-
Cold water fisheries	-	-	-	-	-	-	-	-	-	-
Fish harvest and processing technology	-	-	-	-	-	-	-	-	-	-
Fry and fingerling rearing	-	-	-	-	-	-	-	-	-	-
Any other (pl.specify)	-	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>31</b>	<b>587</b>	<b>112</b>	<b>803</b>	<b>138</b>	<b>49</b>	<b>247</b>	<b>725</b>	<b>161</b>	<b>1050</b>

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops	1	18	7	25	2	3	5	20	10	30
Integrated Pest Management	2	25	8	33	3	1	4	28	9	37
Integrated Nutrient management	2	26	7	33	4	2	6	30	9	39
Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-
Protected cultivation technology	1	18	5	23	4	3	7	22	8	30
Production and use of organic inputs	1	26	6	32	4	2	6	30	8	38
Care and maintenance of farm machinery and implements	1	28	5	33	3	1	4	31	6	37
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-
Women and Child care	-	-	-	-	-	-	-	-	-	-
Low cost and nutrient efficient diet designing	-	-	-	-	-	-	-	-	-	-
Group Dynamics and farmers organization	-	-	-	-	-	-	-	-	-	-
Information networking among farmers	2	32	9	41	4	3	7	36	12	48
Capacity building for ICT application	-	-	-	-	-	-	-	-	-	-
Management in farm animals	-	-	-	-	-	-	-	-	-	-
Livestock feed and fodder production	-	-	-	-	-	-	-	-	-	-
Household food security	-	-	-	-	-	-	-	-	-	-
Any other (pl.specify)	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>10</b>	<b>173</b>	<b>47</b>	<b>220</b>	<b>24</b>	<b>15</b>	<b>39</b>	<b>197</b>	<b>62</b>	<b>259</b>

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops	2	34	11	45	4	2	6	38	13	51
Integrated Pest Management	2	40	8	48	2	5	7	42	13	55
Integrated Nutrient management	1	16	4	20	5	2	7	21	6	27
Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-
Protected cultivation technology	1	18	4	22	2	2	4	20	6	26
Production and use of organic inputs	-	-	-	-	-	-	-	-	-	-
Care and maintenance of farm machinery and implements	1	23	3	26	1	4	5	24	7	31
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-
Women and Child care	-	-	-	-	-	-	-	-	-	-
Low cost and nutrient efficient diet designing	-	-	-	-	-	-	-	-	-	-
Group Dynamics and farmers organization	-	-	-	-	-	-	-	-	-	-
Information networking among farmers	-	-	-	-	-	-	-	-	-	-
Capacity building for ICT application	-	-	-	-	-	-	-	-	-	-
Management in farm animals	1	10	4	14	1	1	2	11	5	16
Livestock feed and fodder production	-	-	-	-	-	-	-	-	-	-
Household food security	-	-	-	-	-	-	-	-	-	-
Any other (pl.specify)	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>8</b>	<b>141</b>	<b>34</b>	<b>175</b>	<b>15</b>	<b>16</b>	<b>31</b>	<b>156</b>	<b>50</b>	<b>206</b>

## Sponsored training programmes

S.No.	Area of training	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
<b>1</b>	<b>Crop production and management</b>										
1.a.	Increasing production and productivity of crops	7	185	54	239	22	19	41	207	73	280
1.b.	Commercial production of vegetables	-	-	-	-	-	-	-	-	-	-
<b>2</b>	<b>Production and value addition</b>	-	-	-	-	-	-	-	-	-	-
2.a.	Fruit Plants	-	-	-	-	-	-	-	-	-	-
2.b.	Ornamental plants	-	-	-	-	-	-	-	-	-	-
2.c.	Spices crops	-	-	-	-	-	-	-	-	-	-
<b>3.</b>	<b>Soil health and fertility management</b>	-	-	-	-	-	-	-	-	-	-
<b>4</b>	<b>Production of Inputs at site</b>	-	-	-	-	-	-	-	-	-	-
<b>5</b>	<b>Methods of protective cultivation</b>	-	-	-	-	-	-	-	-	-	-
<b>6</b>	<b>Others (pl.specify) - IPM (Central IPM centre)</b>	1	38	6	44	9	-	9	47	6	53
<b>7</b>	<b>Post harvest technology and value addition</b>	-	-	-	-	-	-	-	-	-	-
7.a.	Processing and value addition	-	-	-	-	-	-	-	-	-	-
7.b.	Others (pl.specify)	-	-	-	-	-	-	-	-	-	-
<b>8</b>	<b>Farm machinery</b>	-	-	-	-	-	-	-	-	-	-
8.a.	Farm machinery, tools and implements	-	-	-	-	-	-	-	-	-	-
8.b.	Others (pl.specify)	-	-	-	-	-	-	-	-	-	-
<b>9.</b>	<b>Livestock and fisheries</b>	-	-	-	-	-	-	-	-	-	-
<b>10</b>	<b>Livestock production and management</b>	-	-	-	-	-	-	-	-	-	-
10.a.	Animal Nutrition Management	-	-	-	-	-	-	-	-	-	-
10.b.	Animal Disease Management	-	-	-	-	-	-	-	-	-	-
10.c.	Fisheries Nutrition	-	-	-	-	-	-	-	-	-	-
10.d.	Fisheries Management	-	-	-	-	-	-	-	-	-	-
10.e.	Others (pl.specify)	-	-	-	-	-	-	-	-	-	-
<b>11.</b>	<b>Home Science</b>	-	-	-	-	-	-	-	-	-	-
11.a.	Household nutritional security	-	-	-	-	-	-	-	-	-	-
11.b.	Economic empowerment of women	-	-	-	-	-	-	-	-	-	-
11.c.	Drudgery reduction of women	-	-	-	-	-	-	-	-	-	-
11.d.	Others (pl.specify)	-	-	-	-	-	-	-	-	-	-
<b>12</b>	<b>Agricultural Extension</b>	-	-	-	-	-	-	-	-	-	-
12.a.	Capacity Building and Group Dynamics	2	30	10	40	14	6	20	44	16	60
12.b.	Others (pl.specify)	-	-	-	-	-	-	-	-	-	-
	<b>Total</b>	<b>10</b>	<b>253</b>	<b>70</b>	<b>323</b>	<b>45</b>	<b>25</b>	<b>70</b>	<b>298</b>	<b>95</b>	<b>393</b>



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

S.No.	Area of training	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
<b>1</b>	<b>Crop production and management</b>										
1.a.	Commercial floriculture	-	-	-	-	-	-	-	-	-	-
1.b.	Commercial fruit production	-	-	-	-	-	-	-	-	-	-
1.c.	Commercial vegetable production	-	-	-	-	-	-	-	-	-	-
1.d.	Integrated crop management	1	11	8	19	4	2	6	15	10	25
1.e.	Organic farming	1	15	5	20	2	2	4	17	7	24
1.f.	Others (pl.specify)	-	-	-	-	-	-	-	-	-	-
<b>2</b>	<b>Post harvest technology and value addition</b>	-	-	-	-	-	-	-	-	-	-
2.a.	Value addition	2	32	18	50	16	10	26	48	28	76
2.b.	Others (pl.specify)	-	-	-	-	-	-	-	-	-	-
<b>3.</b>	<b>Livestock and fisheries</b>	-	-	-	-	-	-	-	-	-	-
3.a.	Dairy farming	-	-	-	-	-	-	-	-	-	-
3.b.	Composite fish culture	-	-	-	-	-	-	-	-	-	-
3.c.	Sheep and goat rearing	-	-	-	-	-	-	-	-	-	-
3.d.	Piggery	-	-	-	-	-	-	-	-	-	-
3.e.	Poultry farming	-	-	-	-	-	-	-	-	-	-
3.f.	Others (pl.specify)	-	-	-	-	-	-	-	-	-	-
<b>4.</b>	<b>Income generation activities</b>	-	-	-	-	-	-	-	-	-	-
4.a.	Vermi-composting	1	23	18	41	11	6	17	34	24	58
4.b.	Production of bio-agents, bio-pesticides, bio-fertilizers etc.	1	15	5	20	2	2	4	17	7	24
4.c.	Repair and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-
4.d.	Rural Crafts	-	-	-	-	-	-	-	-	-	-
4.e.	Seed production	-	-	-	-	-	-	-	-	-	-
4.f.	Sericulture	-	-	-	-	-	-	-	-	-	-
4.g.	Mushroom cultivation	3	15	8	23	4	7	11	19	15	34
4.h.	Nursery, grafting etc.	2	28	12	40	8	7	15	36	19	55
4.i.	Tailoring, stitching, embroidery, dying etc.	-	-	-	-	-	-	-	-	-	-
4.j.	Agril. para-workers, para-vet training	-	-	-	-	-	-	-	-	-	-
4.k.	Others (pl.specify)	-	-	-	-	-	-	-	-	-	-
<b>5</b>	<b>Agricultural Extension</b>	-	-	-	-	-	-	-	-	-	-
5.a.	Capacity building and group dynamics	-	-	-	-	-	-	-	-	-	-
5.b.	Others (pl.specify)	-	-	-	-	-	-	-	-	-	-
	<b>Grand Total</b>	<b>11</b>	<b>139</b>	<b>74</b>	<b>213</b>	<b>47</b>	<b>36</b>	<b>83</b>	<b>186</b>	<b>110</b>	<b>296</b>

### V. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	Total
Advisory Services	136	2746	367	3113
Diagnostic visits	128	2655	160	2815
Field Day	38	976	134	1110
Group discussions	28	2569	102	2671
Kisan Ghosthi	-	-	-	-
Film Show	13	376	60	436
Self -help groups	8	343	13	356
Kisan Mela	2	240	51	291
Exhibition	32	1402	32	1434
Scientists' visit to farmers field	118	707	165	872
Plant/animal health camps	129	2691	164	2855
Farm Science Club	12	535	67	602
Ex-trainees Sammelan	-	-	-	-
Farmers' seminar/workshop	6	711	42	753
Method Demonstrations	112	3049	220	3269
Celebration of important days	5	138	5	143
Special day celebration	-	-	-	-
Exposure visits	18	1190	81	1271
Others (pl.specify)	-	-	-	-
<b>Total</b>	<b>785</b>	<b>20328</b>	<b>1663</b>	<b>21991</b>

#### Details of other extension programmes

Particulars	Number
Electronic Media	-
Extension Literature	19
News Letter	3 issues
News paper coverage	157
Technical Articles	4
Technical Bulletins	-
Technical Reports	4
Radio Talks	7
TV Talks	1
Animal health camps (Number of animals treated)	03 (180)
Others (pl.specify)	-
<b>Total</b>	<b>196</b>

## VI. PRODUCTION OF SEED/PLANTING MATERIAL

### Production of seeds by the KVKs

Crop category	Name of the crop	Name of the variety (if hybrid pl. specify)	Quantity of seed (q)	Value (Rs)	Number of farmers
Cereals	Paddy	ANNA 4	7.5	18000	Yet to be sold
Oilseeds	-	-	-	-	-
Pulses	-	-	-	-	-
Commercial crops	-	-	-	-	-
Vegetables	-	-	-	-	-
Flower crops	-	-	-	-	-
Spices	-	-	-	-	-
Fodder crop seeds	-	-	-	-	-
Fiber crops	-	-	-	-	-
Forest Species	-	-	-	-	-
Others	-	-	-	-	-
<b>Total</b>	-	-	-	-	-

### Production of planting materials by the KVKs

Crop category	Name of the crop	Name of the variety (if hybrid pl. specify)	Number	Value (Rs.)	Number of farmers
Commercial	-	-	-	-	-
Vegetable seedlings	Chilli	Arka meghana	14700 Nos	22050	10
	Chilli	PLR 1	4765 Nos	3335	5
Fruits	Cashew grafts	VRI 3	7400 Nos	133200	25
	Jack grafts	PLR 1	50 Nos	2500	10
Ornamental plants			200 Nos	2000	20
Medicinal and Aromatic	Medicinal Plants		242 Nos	4840	120
Plantation	Coconut seedling	-	50 Nos	1500	15
Spices	-	-	-	-	-
Tuber	-	-	-	-	-
Fodder crop saplings	-	-	-	-	-
Forest Species	-	-	-	-	-
Others (Redgram)	Redgram	BSMR 736	1000 Nos	1750	10
Vegetables (Roof Garden)	Tomato	Amman sri	9 kg	108	5
	Brinjal	Ujala	11.5 Kg	230	5
	Greens	Amaranthus	1.5kg	30	3
	Lablab	Co (GB)14	8.25kg	265	10
	Mint	local	2 kg	60	15
	Coriander	Local	1.5kg	30	18
	Green chillies	Arka Meghana	1.5	60	2
	Bitter gourd	Local variety	2.0 kg	75	2
<b>Total</b>				<b>172033</b>	<b>275</b>

### Production of Bio-Products

Bio Products	Name of the bio-product	Quantity	Value (Rs.)	No. of Farmers
		Kg		
Bio Fertilizers	-	-	-	-
Bio-pesticide	-	-	-	-
Bio-fungicide	-	-	-	-
Bio Agents	-	-	-	-
Others	Coir Compost	1000	6000	112
	Vermicompost	60	300	14
<b>Total</b>		<b>1060</b>	<b>6300</b>	<b>126</b>

**Production of livestock and related enterprise materials**

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers
<b>Dairy animals</b>	-	-	-	-
Cows	-	-	-	-
Buffaloes	-	-	-	-
Calves	-	-	-	-
Others (Pl. specify) Goat	Thalacherry goat	7 Nos	41700	5
<b>Poultry</b>	-	-	-	-
Broilers	-	-	-	-
Layers	-	-	-	-
Duals (broiler and layer)	-	-	-	-
Japanese Quail	-	-	-	-
Turkey	-	-	-	-
Emu	-	-	-	-
Ducks	-	-	-	-
Others (Pl. specify)	-	-	-	-
<b>Piggery</b>	-	-	-	-
Piglet	-	-	-	-
Others (Pl. specify)	-	-	-	-
<b>Fisheries</b>	-	-	-	-
Fingerlings	-	-	-	-
Others (Pl. specify)	-	-	-	-
<b>Total</b>		<b>7 Nos</b>	<b>41700</b>	<b>5</b>

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

Samples	No. of Samples	No. of Farmers	No. of Villages	Amount realized (Rs.)
Soil	363	338	167	9075
Water	227	212	167	2270
Plant	-	-	-	-
Manure	-	-	-	-
Others (pl. specify)	-	-	-	-
<b>Total</b>	<b>590</b>	<b>550</b>	<b>334</b>	<b>11345</b>

**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 - 3 Nos (Quarterly issue)
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## X. RESEARCH PAPER PUBLISHED

Number of research paper published - 7
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1. Vijaya Geetha.V and M.Bhaskaran .2013. Mochai Seed Quality Enhancement Techniques under Rainfed Conditions of Tribal Habitations of Hosur Forest Division. *American International Journal of Research in Formal, Applied & Natural Sciences*. AIJRFANS 13-319;pp 28-32.
2. Vijaya Geetha.V, M.Bhaskaran and P.Balamurugan. 2013. Physiological Maturity Studies in Mustard. *American International Journal of Research in Formal, Applied & Natural Sciences*. AIJRFANS 13-326;pp 43-46.
3. Vijaya Geetha.V and M.Bhaskaran .2013. Evaluation of Vegetable Productivity under Rainfed Conditions of Tribal Habitations. *International Journal of Emerging Technologies in Computational and Applied Sciences (IJETCAS)* 13-561; pp 211-216.
4. Vijaya Geetha.V and M.Bhaskaran .2013. Ragi Seed Quality Enhancement Techniques under Rainfed Conditions of Tribal Habitations of Hosur Forest Division. *Journal of Academia and Industrial Research (JAIR)* Vol. 2(1); pp 63-67.
5. Venkatalakshmi. K and M.Malarkodi.2013. Vermicomposting for solid waste management. Abstract: 7<sup>th</sup> National symposium-Ecofest at TNAU Coimbatore. Pp. 43
6. Venkatalakshmi. K. 2013. Maximising redgram yield through integrated agronomic management practices under alkali soil. Souvenir: Innovation with global responsibility organised by ISCA at Karunya University Coimbatore Pp. 32
7. Venkatalakshmi. K. 2013.Integrated agronomic management practices for maximizing the productivity of redgram. International conference on CNOI at Annamalai University, Chidambaram.Pp.32

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

Activities conducted				
No. of Training programmes	No. of Demonstration s	No. of plant materials produced	Visit by farmers (No.)	Visit by officials (No.)

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