ANNUAL REPORT 2014-15

(FOR THE PERIOD APRIL 2014 TO MARCH 2015)

ICAR - KRISHI VIGYAN KENDRA

THIRUVANNAMALAI

(Tamil Nadu Board of Rural Development)
Kilnelli village, Chithathur post, Cheyyar taluk
Thiruvannamalai district

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
Programme Coordinator Krishi Vigyan Kendra Kilnelli village, Chithathur post, Cheyyar Taluk, Thiruvannamalai Dist. Tamil Nadu. Pin code : 604 410.	04182 - 293484	04182 - 201525	kvktvmalai91@gmail.com	**www.kvkthiruvannamalai.com**

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

Address	Telephone		E mail	Web Address
	Office	FAX		
The President, TamilNadu Board of Rural Development, No.24, Crescent park street, T.Nagar, Chennai-17. Tamil Nadu.	044 – 24360234	044 - 24360234	tnbrd1978@gmail.com	-

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr.R.Marimuthu	-	9443729789	-

1.4. Year of sanction : May **-** 1991 (No.5(108)/90-KVK Dt. 28.03.1991

1.5. Staff Position (as 31st March 2015)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	M/F	Discipline	Highest Qualification (for PC, SMS and Prog. Asstt.)	Pay Scale with present basic	Date of joining	Permanent /Temporary	Category (SC/ST/ OBC/ Others)
1	Programme Coordinator	Dr.R.Marimuthu	Programme Coordinator	M	Agronomy	Ph.D.,	37400/-	23.04.2014	Permanent	OBC
Pay scale : 15600 – 39100 + GP 5400/-										
2	Subject Matter Specialist	Mr.N.Rameshraja	SMS	M	Horticulture	***M.Sc(Ag.) Hort..***	*22430/-*	04.07.2003	Permanent	OBC
3	Subject Matter Specialist	Mrs.T.Margaret	SMS	F	Home Science	***M.Sc, M.phil***	*22430/-*	04.07.2003	Permanent	OBC
4	Subject Matter Specialist	Mr.P.Narayanan	SMS	M	Plant protection	***M.Sc(Plant protection)***	*15600/-*	08.01.2014	Permanent	OBC
5	Subject Matter Specialist	Dr.A.Elamaran	SMS	M	Animal Science	***M.V.Sc.,***	*15600/-*	17.01.2014	Permanent	OBC
6	Subject Matter Specialist	Mr.V.Suresh	SMS	M	Agrl. Extension	***M.Sc(Agrl. Extn.)***	*15600/-*	20.01.2014	Permanent	OBC
7	Subject Matter Specialist	Mr.P.Rajesh	SMS	M	Agronomy	***M.Sc(Ag.)***	*15600/-*	20.01.2014	Permanent	OBC
Pay scale : 9300-34800 + GP 4200/-										
8	Programme Assistant – T4	Mr.O.Sekar	Comp. programmer	M	-	***B.Sc, PGDCA***	*18490/-*	01.09.1997	Permanent	OBC
9	Farm manager	Vacant	Vacant	-	-	**-**	-	-	-	-
10	Programme Assistant – T4	Mr.M.Vijayrajan	Lab Technician	M	Horticulture	***B.Sc (Horticulture)***	*9300/-*	01.08.1995	Permanent	OBC
11	Assistant	Mrs.M.Viji	Assistant/ Accountant	F	-	M.Com.,	*19350/-*	01.02.1993	Permanent	OBC

Pay scale : 5200-20200 + GP 2400/-										
12	Jr. Stenographer Grade - III	Mrs.A.K.Geetha	Stenographer	F	-	B.Com, DCA	*11930/-*	01.10.1997	Permanent	OBC
Pay scale : 5200-20200 + GP 2000/-										
13	Driver	Mr.S.Janarthanan	Jeep Driver	M	-	***8th***	*9860/-*	01.09.1993	Permanent	OBC
14	Driver	Mr.T.Selvaraj	Tractor Driver	M	-	***9th***	*9700/-*	01.01.1996	Permanent	OBC
Pay scale : 5200-20200 + GP 1800/-										
15	Supporting staff	Mr.T.Varadhan	Animal Attender	M	-	***5th***	*8500/-*	01.02.1994	Permanent	OBC
16	Supporting staff	Mr.G.Selvam	Horticulture Attender	M	-	***5th***	*8500/-*	01.07.1995	Permanent	OBC

1.6. Total land with KVK (in ha)

S.No	Item	Area (ha)
a.	Under building	2.0
b.	Orchard/Agro-forestry	1.6
c.	Under Crops	9.0
d.	Under Demonstration Units	3.2
e.	Others	4.2
Total		**20.0**

1.7. Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Year	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR	1997	696	25,34,244.00	Not applicable		
2.	Farmers Hostel	ICAR	1998	305	14,96,643.00			
3.	**Staff Quarters**							
	1. SMS quarters	ICAR	1997	390	13,42,350.00			
	2. Assistant Quarters	ICAR	1998	300	9,00,000.00			
4.	**Demonstration Units**							
	1.Animal shed	ICAR	1997	145.0	173384.05			
	2.Poultry shed	ICAR		29.2	88793.75			
	3.Goat shed	ICAR		22.1	88793.75			
	4. Mushroom shed	ICAR		24.7	96797.35			
	5. Workshop	ICAR		65.79	181236.25			
5	Fencing	ICAR		6407.3 Meter	5,58,765.00			
6	Threshing floor	ICAR		270.8	2,92,757.00			

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms./hrs Run	Present status
Jeep : TN-09 AF – 0775	2004	4,82,356/-	201313	Need to be replaced
MF Tractor & Trailer : TN-25 AX 1058	2012	5,70,000/-	743.0	Good
Hero Honda : TN–09 AP 4662	2006	36,890/-	70303	Need to be replaced
Hero Honda passion plus : TN–25 S 0563	2009	49,476/-	50054	Good

C) Equipments & AV aids

Equipments

Sl.No	Name of Equipments	Year of purchase	Cost (Rs.)	Present Status
1	Overhead projector	1994	51,440.00	Good
2	White board	1995		Good
3	Glass board	1995	9,340.00	Good
4	Screen 8 x 8	1995	6,500.00	Damaged
5	Xerox machine IR-1600-Canon	2004	74,000.00	Poor
6	LCD-Panasonic – LB-50 SEA	2007	55,000.00	Good
7	Samsung SCX 4521 F - Fax	2009	15000.00	Need to be replaced
8	Generator – Birla 3 KV with Usha inverter – 1400 W	2010	1,05,020.00	Poor
9	Rotovater – 36/32	2010	60320.00	Good
10	Pruning equipments – Shears, Garden tools, Garden rake, Secateurs, Saw, Knife, Trowel	2010	12,485.20	Good
11	VST SHAKTI Power tiller Power tiller - CT 85 Model with 180 D.I	2010	148190.00	Good
12	**Furnishing for hostel** – Vessels, Cooker, Water heater, Bed, Mixture grinder, Wet grinder and window curtains	2011	2,00,032.00	Good
13	EPABX-BPL-SMS 1606 CLI-16 port	2011	50044.00	Good
14	Ahuja Powered Amplifier speaker - PSX 1200	2011	29910.00	Good
	Ahuja Dual wireless mike - AWM490 VHL			
	Ahuja sound box - SRX 50 XT			
	LCD monitor-Dell – 20” and Sony DVD player			
15	DVD Player-Sony-SR700H	2011	4050	Good

1.8. Details SAC meeting conducted in 2014-15 : -

Sl. No.	Date	Number of Participants	No. of absentees	Salient Recommendations	Action taken
1.	-	-	-	-	-

PART II - DETAILS OF DISTRICT

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

S.No.	Farming system/Enterprises
1.	Paddy – Paddy (Irrigated)
2.	Paddy-Groundnut – vegetables (Irrigated)
3.	Groundnut-Pulses (Rainfed)
4.	Vegetable-Vegetables (Irrigated)

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

S.No.	Agro-climatic Zone	Characteristics
1.	North Eastern Zone, Viruthachalam	The Mean average temperature is 28.62°C. Hot during summer (35 – 37°C. Cool during winder periods (24 – 26°C. The temperature regime is hyper thermic.
S.No.	**Agro-ecological situation**	**Characteristics**
1.	Comes under Eastern ghats (TN uplands) and Deccan plateau.	Hot semi arid eco region with red loamy soils.

2.3 Soil types

Four soil groups viz., deep red soil, thin red soil, clayey soil and gravelly soil are in the district. The predominant soil type in the district is red. Red series loam is found in all the taluks with concentration in Polur taluk, Red series sand is also found in all the taluks but predominantly in Thiruvannamalai, Chengam and Vandavasi taluks. Different types of soil like ferrogenous loamy and sandy are seen throughout the district. Black series of loam is found in tank and river bed areas of Vandavasi and Cheyyar taluks.

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

S.No.	Crop	Area (ha)	Production (Tonnes.)	Productivity (Kg/ha)
Cereals				
1.	Paddy	103924	356196	3427
2.	Cumbu	590	689	1168
4	Maize	1053	6458	6133
5.	Ragi	1828	4716	2580
6.	Sugarcane	37794	4411273	116719
Oilseeds				
7.	Groundnut	56281	154136	2739
8.	Gingelly	1456	867	595
9.	Sunflower	6129	12258	2000
10.	Cotton	761	2132	2802
Pulses				
11.	Redgram	3213	2567	799

12.	Blackgram	17713	6943	392
13.	Greengram	2354	1883	800
Vegetables				
14.	Brinjal	284	3021	10637
15.	Tomato	124	1496	12065
16.	Bhendi	308	2679	8698
Spices and Condiments				
17.	Chillies	481	210	437
18.	Turmeric	1246	6826	5478
Fruits				
19.	Banana	3205	140041	43695
20.	Mango	631	168	266

Source : Department of economics and statistics, Chennai-6

2.5. Weather data

Month	Rainfall(mm)	Temperature ^{o}C		Relative Humidity (%)
		Maximum	Minimum	
April'14	-	32.3 – 36.7	24.7 – 26.6	70-78
May'14	96.77			
June'14	93.60			
July'14	42.68			
August'14	139.17			
September'14	160.64			
October'14	125.39			
November'14	66.18			
December'14	59.24			
January'15	--			
February'15	--			
March'15	1.83			

Source : Statistical Department, Thiruvannamalai

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

Category	Population	Production	Productivity/ Animal
Cattle			
Cross breed/Exotic	480704	357.009 (in '000 tonnes)	4.86 lits/day
Indigenous	236632	37.776 (in '000 tonnes)	6.86 lits/day
Buffaloes	22,686	11.532 (in '000 tonnes)	4.30 lits/day
Sheep	366752	424.14 (in '000 kgs)	-
Goats	272823	341.44 (in '000 kgs)	-
Pigs	5979	17.20 (in '000 kgs)	-
Poultry	501552	88.34 in lakhs	-

Source : Department of Animal husbandry, TamilNadu.

2.7 District profile has been prepared and submitted 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	Arni	Arni	Ariyapadi	2 Years	Paddy, Millets, Brinjal and Chillies	Imbalanced nutrition, Low yield	INM
2	Arni	Arni	Panaiyur	2 Years	Poultry	Ranikhet disease	IDM
3	Arni	Arni	Sathuperipalayam	1 Year	Paddy, Flowers and Fruit crop	Inadequate knowledge on IFS	IFS
4	Arni	Arni	Ariyapadi	2 Years	Paddy, Groundnut, Vegetables	Improper plant protection methods, Low yield	IPM
5	Arni	Arni	Panaiyur	2 Years	Paddy, Banana, Turmeric, Vegetables	Improper cultivation aspects, Poor yield, Quality Seed rhizome	ICM
6	Arni	West Arni	Ammapalayam	1 Year	Paddy, Banana, Turmeric, Vegetables	Improper cultivation aspects, Poor yield, Quality Seed rhizome	ICM
7	Arni	West Arni	Ramanathapuram	2 Years	Banana, Paddy, Sugarcane, Vegetables	Poor control of disease, Low yield, Improper cultivation practices	ICM
8	Chengam	Chengam	Periyakolapadi	1 Year	Groundnut, Tomato, Jasmine	Improper cultivation practices, Low yield, High expenditure, Poor quality seedlings	ICM
9	Chengam	Chengam	Veppurchekkadi	1 Year	Tomato, Blackgram, Groundnut, Paddy, Watermelon	Poor yield, Improper cultivation practices, Problem of severe pest and diseases	ICM
10	Chengam	Chengam	Periyakolapadi	1 Year	Banana, Paddy, Sugarcane, Vegetables	Poor control of disease, Low yield, Improper cultivation practices	ICM

11	Polur	Plour	Kattukkanallur	2 Years	Paddy, Banana, Turmeric, Brinjal	Shortage of quality seed rhizome, Low yield, Improper nutrition	ICM
12	Polur	Polur	Reddithoppu	2 Years	Paddy, Sugarcane, Banana, Turmeric	Imbalanced nutrition, Low yield	INM
13	Polur	Polur	Pallakollai	2 Years	Paddy, Banana, Sugarcane	Imbalanced nutritional practices, Low yield	INM
14	Polur	Plour	Kattukkanallur	2 Years	Vegetables, Paddy, Blackgram	Poor yield, Inadequate knowledge on IPM practices	ICM
15	Polur	Polur	Reddithoppu	2 Years	Paddy, Millets, Brinjal and Chillies	Imbalanced nutrition, Low yield	INM
16	Polur	Polur	Pallakollai	2 Years	Groundnut, Tomato, Jasmine	Improper cultivation practices, Low yield, High expenditure, Poor quality seedlings	ICM
17	Vandavasi	Thellar	Desur	3 Years	Paddy, Sugarcane, Blackgram, Bittergourd, Snake gourd	Improper cultivation practices, Nutrient deficiency, Low yield	ICM
18	Vandavasi	Thellar	Achamangalam	3 Years	Paddy, Groundnut, Blackgram, Chillies	Insufficient planting materials, Poor yield, Improper cultivation practices	ICM
19	Vandavasi	Thellar	Mettukudisai	2 Years	Paddy, Groundnut, Vegetables	Improper plant protection methods, Low yield	IPM
20	Vandavasi	Thellar	Kondayankuppam	2 Years	Vegetables, Paddy, Blackgram	Poor yield, Inadequate knowledge on IPM practices	ICM
21	Vandavasi	Thellar	Desur	3 Years	Tomato, Blackgram, Groundnut, Paddy, Watermelon	Poor yield, Improper cultivation practices, Problem of severe pest and diseases	ICM
22	Vandavasi	Thellar	Achamangalam	3 Years	Poultry	Ranikhet disease	IDM

2.8.1 Priority thrust areas

- Improved crop management practices.
- Integrated Nutrient and weed Management.
- Organic Farming
- Farm Mechanization
- Demonstration of high yielding vegetable hybrids/varieties
- Growth regulators application in Vegetable crops.
- Precision farming in vegetable crops.
- Scientific nursery management in vegetable crops.
- Integrated Pest and disease management.
- Value addition, Drudgery reduction.
- Income generation
- Household nutritional security
- Integrated Farming System.
- Scientific livestock farming

PART III - TECHNICAL ACHIEVEMENTS

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

OFT				FLD			
1				2			
Number of OFTs		Number of farmers		Number of FLDs		Number of farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
4	3	20	15	18	16	225	200

Training				Extension Programmes			
3				4			
Number of Courses		Number of Participants		Number of Programmes		Number of participants	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
125	103	2200	1846	900	685	25000	20172

Seed Production (Qtl.)		Planting materials (Nos.)	
5		6	
Target	Achievement	Target	Achievement
75.0	60.486	4200	3950

Livestock, poultry strains and fingerlings (No.)		Bio-products (Kg)	
7		8	
Target	Achievement	Target	Achievement
1100	838	12000	7923.4

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

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions										
				Title of OFT if any	Title of FLD if any	Number of Training (farmers)	Number of Training (Youths)	Number of Training (extension personnel)	Extension activities (No.)	Supply of seeds (Qtl.)	Supply of planting materials (No.)	Supply of livestock (No.)	Supply of bio products	
													No.	Kg
1	ICM	Paddy	Poor nursery management, high seed rate, poor knowledge on biofertilizer & seed treatment	-	-	3	-	2	1	-	-	-	-	-
		Groundnut	Using imbalanced dose of fertilizer, less usage of micronutrient, lack of awareness on high yielding varieties	Assessment of groundnut varieties under rainfed condition	Demo on TMV 13	4	-	-	4	CO6-150kg ICGV91114-134 kg K6-150kg TMV13-250 kg	-	-	-	-

		Blackgram, Greengram	Cultivation of local varieties, lack of knowledge on crop management, imbalanced nutrition	-	Demo on VBN6	1	-	-	1	VBN6-80 kg	-	-	-	Rhizobium-1kg
2	Mechanization	Paddy	High seed rate, labour cost, non availability of farm labours, less knowledge on farm mechanization	-	Demo on CO(R)51 under direct sown condition	1	-	-	0	CO51-140 kg	-	-	-	Azospirillum-1kg
		Groundnut		-	-	1	-	-	-	-	-	-	-	-
3	IWM	Paddy	High weed infestation, poor plant growth, low economic yield, improper weed management practices	-	-	1	-	-	-	-	-	-	-	-
		Maize		-	-	-	-	-	1	-	-	-	-	-
		Blackgram		-	-	-	-	-	1	-	-	-	-	-
		Groundnut		-	-	1	-	-	-	-	-	-	-	-

3	INM	Groundnut	Imbalanced fertilization, less use of micro nutrients, organic manures, less awareness of foliar nutrition	-	-	1	-	1	-	-	-	-	-	-
5	Soil and water conservation	Paddy	Decreasing soil nutrient status, poor microbial population in soil, water scarcity, less awareness of soil conservation practices	Assessment of different water mgt. methods	-	1	1	-	-	-	-	-	-	-
		Groundnut			-	1	-	-	1	-	-	-	-	-
		Sugarcane			-	-	1	-	-	-	-	-	-	-	-
6	Organic farming	Paddy	Less awareness on organic farming, higher usage of fertilizer & fungicides, high soil pollution, depletion of soil nutrient status	-	-	2	-	-	-	-	-	-	-	-

7	IPDM	Paddy	Lack of awareness on pest and disease management practices	-	IDM in paddy	8	-	1	3	-	-	-	-	Liquid Pseudomonas – 15 lit
8	IPDM	Blackgram	Lack of knowledge on storage pests management	-	-	1	-	-	-	-	-	-	-	-
9	IPDM	Groundnut	Sever incidence of root rot, rust and tikka diseases	-	IDM in Ground nut	3	-	-	3	-	-	-	-	Trichoderma viride – 11 kg
10	IPDM	Sugarcane	Yield loss due to sever incidence of borer	-	IPM for internode borer in sugarcane	4	-	-	3	-	-	-	-	Trchogramma chilonies – 180 cc
11	Nursery management	Brinjal, chillies, Tomato	Poor quality seedlings and field establishment	-	-	3	-	-	1	-	-	-	-	-
12	ICM, Varietal demonstration	Brinjal, chillies, Tomato, Bhendi	Lack of adoption of improved production technologies	Assessment of chilli hybrids	Demo of VRM (BR) 1 spiny brinjal, Demo of CO(TH) 3 tomato	3	-	-	1	0.012	-	-	-	-
13	INM		Imbalanced nutrition	-	-	2	-	-	1	-	-	-	-	Vermicompost-10qtl

14	IPDM		Severe incidence of pest and diseases	-	-	4	-	-	1	-	-	-	-	-
15	ICM	Bittergourd, Snakegourd	Low fruit set, Maleness	-	ICM in snake gourd	2	-	-	2	-	-	-	-	Azospirillum-1kg, Pheromone trap-30 Nos, Yellow sticky trap-56 Nos.
16	INM		Imbalanced nutrition	-	-	2	-	-	1	-	-	-	-	Vermicompost-20qtl
17	IPDM	Snakegourd	Fruit fly, Sucking pests	-	-	0	-	-	1	-	-	-	-	-
18	Precision farming	Banana	Low bunch grade and weight	-	-	1	-	-	1	-	-	-	-	-
19	High density planting	Banana	Lack of knowledge on improved planting methods	-	-	1	-	-	-	-	-	-	-	-
20	INM	Banana	Imbalanced nutrition	-	-	1	-	-	-	-	-	-	-	-
21	IPDM	Banana	sever yield loss due to wilt, rot, sigatokka leaf spot and pests	-	IDM in panama wilt	1	-	-	-	-	-	-	-	Liquid Pseudomonas – 40 lit

22	ICM	Turmeric	Low yield, Shortage of quality seed rhizome	-	ICM in turmeric	1	-	-	2	-	-	-	-	Azospirillum-40kg, Phosphobaceria -40 kg, Pseudomonas-10 kg
23	INM	Turmeric	Imbalanced nutrition	-	-	1	-	-	-	-	-	-	-	-
24	IPDM	Turmeric	Leaf spot and rhizome rot	-	-	3	-	-	1	-	-	-	-	-
25	INM	Jasmine	Imbalanced nutrition	-	-	1	-	-	-	-	-	-	-	-
26	Scientific livestock farming	Dairy	Mastitis, Lack of awareness on newly released technologies	-	Mgt. of mastitis with EVM & Low cost supplement package for cows	8	-	-	4	-	-	-	-	-
27	Scientific livestock farming	Small ruminants	Enteritis, Lack of awareness on scientific management	-	Herbal remedies for treating enteritis	5	-	-	2	-	-	-	-	-
28	Scientific livestock farming	Poultry	Lack of awareness on scientific poultry mgt. and alternative farming	-	Oral pellet vaccine for treating RD in desi chicken	5	-	-	1	-	-	-	-	-

29	Scientific livestock farming	Fodder	Lack of quality fodder production	-	-	-	-	1	-	-	-	-	-	-
30	Scientific livestock farming	Livestock	Poor adoption of scientific mgt.	-	-	-	-	2	2	-	-	-	-	-
31	Value addition	Field crops	Low market price	-	-	5	2	2	-	-	-	-	-	-
			Lack of farmer friendly equipments	-		1	-	-	-	-	-	-	-	-
		Fruits and vegetables	Low market price	-	Value addition of fruits and vegetables for enhancing profitability and marketability	-	2	-	-	-	-	-	-	-
32	Income generation	Mushroom	Lack of knowledge on mushroom production method	-	-	1	2	-	-	-	-	-	-	-
33	House hold nutritional security	Kitchen garden	Low intake of fruits and vegetable in daily diet. Poor utilization of waste water.	-	-	2	-	-	-	-	-	-	-	-

3.B2. Details of technology used during reporting period

S.No	Title of Technology	Source of technology	Crop/ enterprise	No. of programmes conducted			
				OFT	FLD	Training	Others – Extension Activities
1	2	3	4	5	6	7	8
1	Integrated Crop Management	TNAU	Paddy	0	0	5	1
2		TNAU	Groundnut	1	1	4	4
3		TNAU	Blackgram, Greengram	0	1	1	1
4	Mechanization	TNAU	Paddy	0	1	1	0
5		TNAU	Groundnut	0	0	1	0
6	Integrated Weed Management	TNAU	Paddy	0	0	1	0
7		TNAU	Maize	0	0	0	1
8		TNAU	Groundnut	0	0	1	0
9		TNAU	Blackgram	0	0	0	1
10	Integrated Nutrient Management	TNAU	Groundnut	0	0	2	0
11	Soil and water conservation	TNAU	Paddy	1	0	2	0
12		TNAU	Groundnut	0	0	1	1
13		TNAU	Sugarcane	0	0	1	0
14	Organic farming	TNAU	Paddy	0	0	2	0
15	Integrated Crop Management	TNAU	Brinjal, Chillies, Tomato	1	2	3	1
16	Integrated Nutrient Management	TNAU, IIHR		0	0	2	1
17	Integrated Crop Management	TNAU	Bittergourd, Snakegourd	0	1	2	2
18	Integrated Nutrient Management	TNAU, IIHR		0	0	2	1

19	Integrated Crop Management	TNAU	Turmeric	0	1	1	2
20	Integrated Nutrient Management			0	0	1	0
21	Precision farming	TNAU	Banana	0	0	1	1
22	Integrated Nutrient Management	TNAU	Jasmine	0	0	1	1
23	Integrated Nutrient Management	TNAU	Banana	0	0	1	0
24	Improved nursery management	TNAU	Tomato, Brinjal, Chillies	0	0	3	1
25	High density planting	TNAU, NRCB	Banana	0	0	1	0
26	Integrated Pest and Disease Management	TNAU	Paddy	0	1	9	3
27		TNAU	Blackgram	0	0	1	0
28		TNAU	Groundnut	0	1	3	3
29		TNAU	Sugarcane	0	1	4	3
30		TNAU	Brinjal, Chillies	0	0	4	1
31		TNAU	Snakegourd	0	0	0	1
32		TNAU	Banana	0	1	1	0
33		TNAU	Turmeric	0	0	3	1
34	Scientific dairy management	TANUVAS	Dairy	0	2	8	4
35	Scientific small ruminant management	TANUVAS	Small ruminants	0	1	5	2
36	Scientific poultry management	TANUVAS	Poultry	0	1	5	1
37	Fodder production techniques	TANUVAS & TNAU	Fodder	0	0	1	1
38	Scientific livestock management	TANUVAS & IVRI	Livestock	0	0	2	4
39	Value addition in field crops, fruits and vegetables	TNAU	Field crops, Fruits and Vegetables	0	1	10	1
40	Drudgery reduction	CIAE, TNAU	Field crops	0	0	2	3
41	Income generation	TNAU	Mushroom	0	0	3	0
42	House hold nutritional security	TNAU & UAS	Kitchen garden	0	0	2	0
				3	16	103	47

3.B2 contd…

S. No	No. of farmers covered															
	OFT				FLD				Training				Others –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		14	15	16	17	18	19	20	21	22	23	24
1	0	0	0	0	0	0	0	0	104	2	5	0	16	2	3	0
2	5	0	0	0	10	0	0	0	35	3	7	2	55	11	17	7
3	0	0	0	0	10	0	0	0	12	5	0	0	16	0	0	0
4	0	0	0	0	10	0	0	0	15	0	5	0	0	0	0	0
5	0	0	0	0	0	0	0	0	10	3	2	0	0	0	0	0
6	0	0	0	0	0	0	0	0	14	4	5	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	14	0	4	0
8	0	0	0	0	0	0	0	0	19	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	11	0	0	0
10	0	0	0	0	0	0	0	0	26	0	5	0	0	0	0	0
11	5	0	0	0	0	0	0	0	47	3	12	2	0	0	0	0
12	0	0	0	0	0	0	0	0	14	2	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	9	1	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	15	16	4	0	0	0	0	0
15	5	0	0	0	20	0	0	0	25	0	0	0	96	24	0	0
16	0	0	0	0	0	0	0	0	28	1	0	0	35	3	2	0
17	0	0	0	0	10	0	0	0	25	0	0	0	33	4	2	0
18	0	0	0	0	0	0	0	0	31	0	0	0	2	2	4	0
19	0	0	0	0	9	1	0	0	9	1	0	0	35	5	6	0

20	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	15	0	0	0	16	4	0	0
22	0	0	0	0	0	0	0	0	13	1	0	0	17	0	2	0
23	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	50	2	0	0	13	0	0	0
25	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0
26	0	0	0	0	10	0	0	0	147	3	16	10	51	0	6	4
27	0	0	0	0	0	0	0	0	10	5	2	0	0	0	0	0
28	0	0	0	0	7	3	0	0	31	20	0	0	44	7	2	0
29	0	0	0	0	14	1	0	0	51	7	7	4	48	6	0	0
30	0	0	0	0	0	0	0	0	48	14	0	6	21	3	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	18	0	0	0
32	0	0	0	0	9	1	0	0	16	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	47	5	0	4	25	5	0	0
34	0	0	0	0	40	10	0	0	154	25	4	2	86	15	15	5
35	0	0	0	0	9	1	0	0	88	7	4	1	10	0	6	0
36	0	0	0	0	6	4	0	0	71	10	6	2	16	2	5	2
37	0	0	0	0	0	0	0	0	15	2	17	6	19	3	2	0
38	0	0	0	0	0	0	0	0	36	0	0	0	35	0	1	0
39	**0**	**0**	**0**	**0**	**7**	**8**	**0**	**0**	**89**	**108**	**4**	**4**	**0**	**15**	**0**	**0**
40	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**13**	**2**	**0**	**0**	**36**	**23**	**19**	**15**
41	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**20**	**4**	**1**	**0**	**0**	**0**	**0**	**0**
42	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**36**	**0**	**6**	**0**	**0**	**0**	**0**
	15	**0**	**0**	**0**	**171**	**29**	**0**	**0**	**1399**	**292**	**106**	**49**	**768**	**134**	**96**	**33**

PART IV - On Farm Trial

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
INM	-	-	-	-	-	-	-	-	-	**-**
Varietal Evaluation	-	1	-	-	1	-	-	-	-	**2**
Resource Conservation Technology	1	-	-	-	-	-	-	-	-	**1**
Total	**1**	**1**	**-**	**-**	**1**	**-**	**-**	**-**	**-**	**3**

4.A2. Abstract on the number of technologies refined in respect of crops : Nil

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

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

4.B. Achievements on technologies Assessed and Refined

4.B.1. Technologies Assessed under various Crops

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha (Per trail covering all the Technological Options)
Varietal Evaluation	Chillies	Varietal Assessment for higher productivity in chillies	5	5	0.2
	Groundnut	Assessment of Groundnut varieties under rainfed condition	5	5	0.2
Resource Conservation technology	Paddy	Assessment of water management methods in paddy	5	5	0.2
Total	**-**	**-**	**15**	**15**	-

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

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

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

4.C1. Results of Technologies Assessed

Results of On Farm Trial

A. Agronomy

1. Assessment of water management methods in 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	Water scarcity-Low ground water-Drought	Assessment of water management methods in paddy	5	**TO1:** Regular irrigation - No alternate wetting and drying	▪ No. of irrigation ▪ Interval of Irrigation (Days) ▪ Water use efficiency (Kgha mm^{-1})	58 2 5.41	TO 3 resulted in 10.02 % increase in yield.	* TO 3 recorded less water consumption and higher yield compared to TO1 & TO2	No	-
					TO2: Maintaining 2.5cm depth of water (AWD)		35 3 5.98				
					TO3: Irrigation based on Field water tube level		26 5 6.24				

Contd…

Technology Assessed	Source of Technology	Production	Unit	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
TO1: Regular irrigation - No alternate wetting and drying	-	54.48	Q/ha	41950.00	1.93
TO2: Maintaining 2.5cm depth of water (AWD)	TNAU	57.31	Q/ha	45512.00	1.99
TO3: Irrigation based on Field water tube level	IRRI	59.94	Q/ha	49336.00	2.07

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

1 Title of Technology Assessed : Assessment of water management methods in paddy

2. Problem Definition : Water scarcity-Low ground water-Drought

3 Details of technologies selected for assessment

TO1: Regular irrigation - No alternate wetting and drying
TO2: Maintaining 2.5cm depth of water (AWD)
TO3: Irrigation based on Field water tube level4

4. Source of technology : **TO2 : TNAU**, **TO3 :** IRRI

5 Production system and thematic area : Irrigated - Resource Conservation technology

6 Performance of the Technology with performance indicators :

Sl.No.	Performance Indicators	Technological options		
		TO1	TO2	TO3
1	No. of tillers/hill	32	40	46
2	Yield : Qtl/ha	54.48	57.31	59.94

7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques

Performance Indicators	Technological options		
	TO1	TO2	TO3
No. of tillers/hill	1	2	3
Yield	1	2	3
Net return	1	2	3
BCR	1	2	3

(High – 3, Moderate – 2, Low – 1, Very low – 0)

8 Final recommendation for micro level situation :

Field water tube irrigation technology can be very well adopted water saving in water scarcity areas for better yield, net returns to farmers.

9 Constraints identified and feedback for research :

In improperly leveled farmer fields, it is difficult to maintain the proper water level at paddy root zone.

10 Process of farmers participation and their reaction :

Farmers actively participated.

2. Assessment of Groundnut varieties in under rainfed condition

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Ground nut	Rainfed	Low yield, Poor variety replacement	Assessment of Groundnut varieties under rainfed condition	5	**TO1:** Cultivation of groundnut variety– VRI 2	▪ Pod yield- Q/ha. ▪ Branches/ plant ▪ Pods plant- Nos.	18.86 6.49 14.20	TO 3 resulted in 40.0 % increase in yield.	* TO 3 is economically viable. * TO 3 is better in net income compared to TO1, TO2 & TO4	No	-
					TO2: Cultivation of Groundnut variety- CO 6		19.63 6.32 16.64				
					TO3: Cultivation of Groundnut variety ICGV91114		26.42 6.60 34.32				
					TO4: Cultivation of Groundnut variety Khadiri6		25.39 6.16 24.04				

Contd…

Technology Assessed	Source of Technology	Production	Unit	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
TO1: Cultivation of groundnut variety – VRI 2	TNAU	24.31	Q/ha	12407.00	1.96
TO2: Cultivation of Groundnut variety CO-6	TNAU	27.17	Q/ha	42153.00	2.02
TO3: Cultivation of Groundnut variety ICGV91114	ICRISAT	34.29	Q/ha	48986.00	2.18
TO4: Cultivation of Groundnut variety Khadiri-6	ANGRAU	31.04	Q/ha	50445.00	2.15

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

1 Title of Technology Assessed : Assessment of Groundnut varieties under rainfed condition

2. Problem Definition : Cultivation of Low yielding groundnut variety

3 Details of technologies selected for assessment

TO1: Cultivation of groundnut variety – VRI 2
TO2: Cultivation of Groundnut variety - CO-6
TO3: Cultivation of Groundnut variety-ICGV91114
TO4: Cultivation of Groundnut variety Khadiri-6

4 Source of technology : **TO2 : TNAU**, **TO3: ICGV91114, TO4 :** ANGRAU

5 Production system and thematic area : Rainfed- Varietal Evaluation

6 Performance of the Technology with performance indicators :

Sl.No.	Performance Indicators	Technological options			
		TO1	TO2	TO3	TO4
1	No. of branches/plant	6.49	6.32	6.60	6.16
2	No. of pods per plant	14.20	14.20	14.20	14.20
3	Yield : Qtl/ha (haulm)	18.86	18.86	18.86	18.86

7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques

Performance Indicators	Technological options			
	TO1	TO2	TO3	TO4
No. of pods per plant	1	2	3	2
Yield : Qtl/ha (haulm)	1	2	3	2
Net return	1	2	3	2
BCR	1	2	3	2

(High – 3, Moderate – 2, Low – 1, Very low – 0)

8 Final recommendation for micro level situation :

ICGV91114 found better in terms of yield and net returns under drought condition and best suitable variety for rainfed areas of Thiruvannamalai district.

9 Constraints identified and feedback for research :

Optimum time for gypsum application and earthing up need to be standardized for increased pod yield.

10 Process of farmers participation and their reaction :

Farmers actively participated.

3. Varietal Assessment for higher productivity in chillies

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
Chillies	Irrigated	Low yield and lack of cultivation of location specific hybrids	Varietal Assessment for higher productivity in chillies	5	**TO1:** Cultivation of private hybrids **TO2:** Cultivation of CO(CH)-1 Chilli **TO3:** Cultivation of Arka harita chilli	▪ Yield (Q/ha) ▪ Dry recovery (%)	In progress				

Contd…

Technology Assessed	Source of Technology	Production	Unit	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
TO1: Cultivation of private hybrids	-	In progress			
TO2: Cultivation of CO(CH)-1 Chilli	TNAU				
TO3: Cultivation Arka harita chilli	IIHR				

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

1	Title of Technology Assessed	:	Varietal Assessment for higher productivity in chillies
2	Problem Definition	:	Cultivation of private hybrids
3	Details of technologies selected for assessment TO1: Cultivation of private hybrids TO2: Cultivation of CO(CH)-1 Chilli seeds TO3: Arka harita chilli seed		
4	Source of technology	:	**TO2 :** TNAU, **TO3 :** IIHR
5	Production system and thematic area	:	Irrigated-Varietal assessment
6	Performance of the Technology with performance indicators	:	-
7	Feedback, matrix scoring of various technology parameters done through Farmer's participation / other scoring techniques	:	-
8	Final recommendation for micro level situation	:	-
9	Constraints identified and feedback for research	:	-
10	Process of farmers participation and their reaction	:	-

PART V - FRONTLINE DEMONSTRATIONS

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

Sl. No.	Category	Farming Situation	Season and Year	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated
1	Oilseeds	Irrigated	Rabi	Groundnut	TMV 13	-	Integrated Crop Management	**Demonstration of Groundnut –TMV-13** ▪ Groundnut (TMV 13) sowing with seed drill. ▪ Seed treatment for 3 packets (600 g)/ha of Rhizobialculture TNAU14. ▪ Pre emergence application of Metolachlor 2 kg ai/ha ▪ Application of Gypsum 200 kg/ha as top dressing at45th day increased the groundnut yield. ▪ Zinc deficiency correction application of $ZnSO_4$ 50 kg/ha ▪ Spraying of Chlorothalonil 1 kg/ha early and late leaf Spot disease. ▪ Spraying of Chlorpyrifos 1125 ml/ha leaf Webber and leaf minor incidence

	Oil seeds	-	-	-	-	-	Not implemented due to fund reduced.	**Mechanization in Groundnut** ▪ Direct sowing through bullock drawn seed planter ▪ TNAU Improved dryland weeder ▪ Profenophos 500 ml/ha for pest control. ▪ Chlorothalonil 500 ml/ha for disease incidence. ▪ Groundnut pod stripper for separation of pods. ▪ Rain gun irrigation during drought
	Oil seeds	Rainfed	Kharif	Groundnut	TMV 13	-	Integrated Disease Management	**IDM module for the management of groundnut diseases** ▪ Seed treatment of Mancozeb 2g/ kg ▪ Soil application of *Trichoderma viride* 2.5 kg/ha – Management of soil borne disease ▪ Foliar spraying of Hexaconazole 0.1% (60 and 75 DAS) 1g/1lit – Management of late leaf spot, Rust
2	Pulses	Irrigated	Rabi	Blackgram	VBN 6	-	Integrated Crop Management	**Demonstration of VBN-6 Blackgram** ▪ Seed – VBN-6 ▪ Seed treatment with Rhizobium ▪ Imazethapyr for broad leaf weeds ▪ Quizalofop ethyl for grass weeds ▪ Foliar spraying of TNAU Pulse wonder ▪ Pest control with monocrotophos ▪ Disease control with wettable sulphur

3.	Cereals	Irrigated	Rabi	Paddy	CO(R) 51	-	Integrated Crop Management	**Demonstration of Co-51 paddy in direct sown condition** ▪ Direct sowing through paddy drum seeder ▪ Improved Rice variety CO -51 ▪ Application of herbicide for weed control ▪ Cono weeder for weeding ▪ Chlorpyriphos 1250 ml/ha during the pest incidence. ▪ Propiconozole @ 500 ml/ha during the disease incidence.
	Cereals	Irrigated	Rabi	Paddy	CO(R) 51	-	Integrated Disease management	**IDM in paddy** ▪ Soil application of Neem cake 150 kg / ha – Soil borne pathogen. ▪ Seed treatment with *Pseudomonas fluorescence* liquid formulation 10 ml / kg – Blast and Sheath blight. ▪ Seedling root dip with *Pseudomonas fluorescens* liquid formulation 150 ml / ha – Blast and Sheath blight. ▪ Soil application of *Pseudomonas fluorescens* liquid formulation – 1lit/ha – Blast and Sheath blight. ▪ Foliar spraying of *Pseudomonas fluorescens* liquid formulation - 1ml / 1lit. – Blast and Sheath blight. ▪ Foliar spraying of Hexaconazole 1ml/1lit – False Smut ▪ Foliar spraying of Metominostrobin 1ml/1lit – Blast, Sheath blight and brown spot

4	Vegetables	Irrigated	Rabi	Tomato	-	CO(TH) 3	Varietal evaluation	**Demonstration of CO(TH)-3 Tomato hybrid** ▪ Improved tomato hybrid – CO(TH)-3 ▪ Vegetable special – 3 sprays @ 0.5 % ▪ Soil application of biofertilizers@2kg/ha, Neem cake @ 250kg/ha. ▪ Soil application of *P. fluorescens@2.5kg/ha*. ▪ Installation of Pheromone traps @ 12/ha. ▪ Spraying of Flubendiamide @ 50 gm ai/ha. ▪ Installation of yellow sticky traps @ 8/ha. ▪ Value addition-Pickle, Ketchup
		Irrigated	Rabi	Brinjal	VRM(BR)1	-	Varietal evaluation	**Demonstration of improved spiny brinjal VRM(BR)1** ▪ Improved Spiny brinjal– VRM(BR)-1 ▪ Vegetable special – 3 sprays @ 0.5 % ▪ Soil application of biofertilizers@2kg/ha, Neem cake @ 250kg/ha. ▪ Soil application of *P. fluorescens@2.5kg/ha*. ▪ Installation of Pheromone traps @ 12/ha. ▪ Spraying of Flubendiamide @ 75 gm ai/ha. ▪ Installation of yellow sticky traps @ 8/ha.

		Irrigated	Kharif	Snakegourd	-	Mahyco 1	Integrated Crop Management	**ICM in Snake gourd** ▪ NPK application based on soil test ▪ Vegetable special – 3 sprays @ 0.2 % ▪ Soil application of neem cake – 250 kg/ha. ▪ Spraying of Ethrel @ 100 ppm. ▪ Spraying of metalaxyl + Mancozeb @ 0.1% ▪ Installation of Pheromone traps @ 12/ha. ▪ Installation of yellow sticky traps @ 25/ha.
5	Fruits	Irrigated	Rabi	Banana	Karpuravalli	-	Integrated Pest Management	**Management of panama wilt (fungal nematode complex) in banana** ▪ Pairing and prolinage ▪ Grow sun hemp in and around the basin and incorporate one month later. ▪ Corm injection of 2% Carbendazim 2nd, 4th, 6th Month after planting. ▪ Application of *Pseudomonas fluorescens* (Pf1) liquid formulation 2nd, 4th, 6th Month after planting. ▪ Apply lime at 1-2 kg in the pits after removal of the affected plants.
6	Spices and condiments	Irrigated	Kharif	Turmeric	Erode local	-	Integrated Crop Management	**ICM in Turmeric** ▪ FYM @ 10 t/ha. ▪ Neem cake @ 200 kg/ha as basal. ▪ Soil application of $FeSO_4$ 30 kg and $ZnSO_4$ 15 kg/ha. ▪ Azospirillum and phosphobacteria each @ 10 kg/ha. ▪ Soil test based NPK application.

								▪ Foliar application of $FeSO_4$, $ZnSO_4$, Borax, Urea each @ 375 gm in 250 lit. of water twice and 25 days later. ▪ Rhizome treatment with 0.3 % Copper oxy chloride. ▪ Soil drenching with 0.25% Copper oxy chloride. ▪ Foliar application of Mancozeb @ 0.2 %. ▪ Propiconazole@0.1% two sprays
7	Commercial crops	Irrigated	Kharif	Sugarcane	COC8603 2	-	Integrated Pest Management	**Integrated management of sugarcane internode borer** ▪ Release of egg parasitoids *Trichogramma chilonis* 2cc x 6 release ▪ Setting up of pheromone traps-25/ ha.
8	Dairy	-	-	Cattle	-	-	Dairy management	**Demonstration on low cost supplement package for augmenting production performances in dairy cows** ▪ GRAND supplement at a dose of 10 ml twice daily for 3 months in early and mid-lactation cows. ▪ TANUVAS AREA SPECIFIC SMART MM supplement at the rate of 50g daily for 3 months in early and mid-lactation cows. ▪ Deworming with fenbendazole bolus

	Dairy	-	-	Cattle	-	-	Dairy management-	**Management of Mastitis with Ethnoveterinary medicine** ▪ Hygienic managemental practices. ▪ Application of herbal remedies (ATC Mixture: Aloe vera-250g+ Turmeric powder-50g+Calcium hydroxide-10g) over the Udder for 7 days.
9	Poultry	-	-	Poultry	Desi chicken	-	Poultry management	**Demonstration on oral pellet vaccination in desi birds for preventing ranikhet disease** ▪ Hygienic managemental practices. ▪ Oral pellet vaccination in desi birds
10	Sheep and Goat	-	-	Sheep & goat	-	-	Small ruminant management	**Demonstration on herbal remedies in treating enteritis in sheep and goats** ▪ Use of Herbal mixture orally (Fennel, Fenugreek, Cumin seeds, Poppy seeds, Pepper, Turmeric, Kasakasa , Onion, Garlic & Tamarin with 36iggery and salt) till the condition stops)
		-	-	Sheep & goat	-	-	Goat-Nutrient Management – Not Implemented due to fund reduced.	**Demonstration on supplementation with Anthelmentic incorporated mineral (AIM) block** ▪ Scientific managemental practices. ▪ Supplementation with Anthelmentic Incorporated Mineral Block
11	Others – Value addition	-	-	-	-	-	-	▪ Value addition of fruits and vegetables for enhancing profitability and marketability- A Commodity Group approach.

Contd 5A

Sl. No.	Category	Crop	Area (ha)/ No. of Animal		No. of farmers/ demonstration			Reasons for shortfall in achievement
			Proposed	Actual	SC/ST	Others	Total	
1.	Oilseeds	Groundnut : ICM – TMV-13	4	4	0	10	10	-
		Groundnut : IDM – TMV 13	4	4	0	10	10	-
2	Pulses	Blackgram : Cropping system-VBN-6	4	4	0	10	10	-
3	Cereals	Paddy : ICM-CO(R) 51	4	4	0	10	10	-
		Paddy : IDM in paddy – CO(R) 51	4	4	0	10	10	-
4	Vegetables	Tomato : Varietal evaluation-CO(TH) 3	2	2	-	10	10	-
		Brinjal : Varietal evaluation- VRM(BR) 1	2	2	-	10	10	-
5	Flowers	Snake gourd : ICM – Mahyco 1	2	2	-	10	10	-
6	Fruits	Banana – IPDM – Karpuravalli	4	4	0	10	10	-
7	Spices and condiments	Turmeric – ICM – Erode local	4	4	-	10	10	-
8	Commercial	Sugarcane – IPM – COC86032	4	6	-	15	15	-
9	Dairy	Cattle-GRAND Low cost supplement	100	100	0	30	30	-
		Cattle-Mastitis	50	50	0	20	20	
10	Poultry	Desi chicken – Ranikhet diseases	500	500	1	9	10	-
11	Sheep and Goat	Sheep and goats – Herbal remedies	200	200	2	8	10	-
12	Others – Value addition	Fruits and vegetables	1	1	0	15	15	-
Total			**-**	**-**	**3**	**197**	**200**	-

5.A. 1. Soil fertility status of FLDs plots during 2014-15

Sl. No.	Category	Farming Situation	Season And Year	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Status of soil			Previous crop
									N	P	K	
1	Oilseeds	Irrigated	Rabi 2014-15	Groundnut	TMV 13	-	ICM	Demonstration of Groundnut – TMV-13	L	M	H	Groundnut
		Rainfed	Kharif 2014	Groundnut	TMV 13	-	IDM	IDM practices for management of major disease	L	L	L	Pulses
2	Pulses	Irrigated	Rabi	Blackgram	VBN 6	-	Cropping System	Demonstration of VBN-6 Blackgram	L	M	H	Paddy
3	Cereals	Irrigated	Rabi	Paddy	CO(R) 51	-	Cropping System	Demonstration of Co-51 paddy in direct sown condition	H	M	H	Groundnut
		Irrigated	Rabi	Paddy	CO(R) 51	-	IPDM	IDM in paddy	L	L	L	Blackgram
5	Vegetables	Irrigated	Rabi	Tomato	-	CO(TH)3	Varietal evaluation	Demonstration of CO(TH)-3 Tomato hybrid	L	L	M	
		Irrigated	Rabi	Brinjal	VRM (BR)1	-	Varietal evaluation	Demonstration of improved spiny brinjal VRM(BR)1	L	M	M	Groundnut , Paddy
		Irrigated	Kharif	Snake gourd	-	Mahyco 1	ICM	ICM in Snake gourd	L	M	M	Ribbed gourd
5	Fruit	Irrigated	Rabi	Banana	Karpura valli	-	IPM	Management of panama wilt (fungal nematode complex) in banana	L	L	L	Banana
6	Spices and condiments	Irrigated	Kharif	Turmeric	Erode local	-	ICM	ICM in turmeric	L	L	L	Groundnut
7	Commercial	Irrigated	Kharif	Sugarcane	COC860 32	-	IPM	Integrated management of sugarcane internode borer	L	L	L	Groundnut , Paddy

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
							Demo			Check	
							H	L	A		
Oilseeds											
Groundnut	**Demonstration of Groundnut – TMV-13** ▪ Groundnut (TMV 13) sowing with seed drill. ▪ Seed treatment for 3 packets (600 g)/ha of Rhizobialculture TNAU14. ▪ Pre emergence application of Metolachlor 2 kg ai/ha ▪ Application of Gypsum 200 kg/ha as top dressing at45th day increased the groundnut yield. ▪ Zinc deficiency correction application of $ZnSO_4$ 50 kg/ha ▪ Spraying of Chlorothalonil 1 kg/ha early and late leaf Spot disease. ▪ Spraying of Chlorpyrifos 1125 ml/ha leaf Webber and leaf minor incidence	TMV-13	-	Irrigated	10	4	27.20	20.91	26.13	20.91	24.96

Groundnut	**IDM module for the management of groundnut diseases** ▪ Seed treatment of Mancozeb 2g/ kg ▪ Soil application of *Trichoderma viride* 2.5 kg/ha – Management of soil borne disease ▪ Foliar spraying of Hexaconazole 0.1% (60 and 75 DAS) 1g/1lit - Management of late leaf spot, Rust	TMV 13	-	Rainfed	10	4	16.63	14.92	15.86	13.04	21.64
Pulses											
Blackgram	**Demonstration of VBN-6 Blackgram** ▪ Seed – VBN-6 ▪ Seed treatment with Rhizobium ▪ Imazethapyr for broad leaf weeds ▪ Quizalofop ethyl for grass weeds ▪ Foliar spraying of TNAU Pulse wonder ▪ Pest control with monocrotophos ▪ Disease control with wettable sulphur	VBN-6	-	Irrigated	10	4	9.27	8.62	8.96	6.91	29.66

Cereals											
Paddy	**Demonstration of Co-51 paddy in direct sown condition** ▪ Direct sowing through paddy drum seeder ▪ Improved Rice variety CO -51 ▪ Application of herbicide for weed control ▪ Cono weeder for weeding ▪ Chlorpyriphos 1250 ml/ha during the pest incidence. ▪ Propiconozole @ 500 ml/ha during the disease incidence.	CO(R) 51	-	Irrigated	10	4	64.40	58.67	61.43	49.90	23.10
Paddy	**IDM in paddy** ▪ Soil application of Neem cake 150 kg / ha – Soil borne pathogen. ▪ Seed treatment with Pseudomonas fluorescence liquid formulation 10 ml / kg – Blast and Sheath blight. ▪ Seedling root dip with Pseudomonas fluorescens liquid formulation 150 ml / ha – Blast and Sheath blight. ▪ Soil application of Pseudomonas fluorescens liquid formulation – 1lit/ha – Blast and Sheath blight. ▪ Foliar spraying of Pseudomonas fluorescens liquid formulation - 1ml / 1lit. – Blast and Sheath blight. ▪ Foliar spraying of Hexaconazole 1ml/1lit - False Smut ▪ Foliar spraying of Metominostrobin 1ml/1lit – Blast, Sheath blight and brown spot	CO(R) 51	-	Irrigated	10	4	64.25	60.70	62.65	52.04	20.38

Vegetables							
Tomato	**Demonstration of CO(TH)-3 Tomato hybrid** ▪ Improved tomato hybrid – CO(TH)-3 ▪ Vegetable special – 3 sprays @ 0.5 % ▪ Soil application of biofertilizers@ 2kg/ha, Neem cake @ 250kg/ha. ▪ Soil application of *P. fluorescens@2.5kg/ha*. ▪ Installation of Pheromone traps @ 12/ha. ▪ Spraying of Flubendiamide @ 50 gm ai/ha. ▪ Installation of yellow sticky traps @ 8/ha. ▪ Value addition-Pickle, Ketchup	-	CO (TH) 3	Irrigated	10	2	In progress
Brinjal	**Demonstration of improved spiny brinjal VRM(BR)1** ▪ Improved Spiny brinjal– VRM(BR)-1 ▪ Vegetable special – 3 sprays @ 0.5 % ▪ Soil application of biofertilizers@2kg/ha, Neem cake @ 250kg/ha. ▪ Soil application of *P. fluorescens@2.5kg/ha*. ▪ Installation of Pheromone traps @ 12/ha. ▪ Spraying of Flubendiamide @ 75 gm ai/ha. ▪ Installation of yellow sticky traps @ 8/ha.	VRM (BR) 1	-	Irrigated	10	2	In progress

Snake gourd	**ICM in Snake gourd** ▪ NPK application based on soil test ▪ Vegetable special – 3 sprays @ 0.2 % ▪ Soil application of neem cake – 250 kg/ha. ▪ Spraying of Ethrel @ 100 ppm. ▪ Spraying of metalaxyl + Mancozeb @ 0.1% ▪ Installation of Pheromone traps @ 12/ha. ▪ Installation of yellow sticky traps @ 25/ha.	-	Mahyco 1	Irrigated	10	2	443.6	393.8	417.27	339.35	22.96
Fruits	-	-	-	-	-	-	-	-	-	-	-
Banana	**Management of panama wilt (fungal nematode complex) in banana** ▪ Pairing and prolinage ▪ Grow sun hemp in and around the basin and incorporate one month later. ▪ Corm injection of 2% Carbendazim 2nd, 4th, 6th Month after planting. ▪ Application of *Pseudomonas fluorescens* (Pf1) liquid formulation 2nd, 4th, 6th Month after planting. ▪ Apply lime at 1-2 kg in the pits after removal of the affected plants.	Karpura valli	-	Irrigated	10	4	In Prog.	-	-	-	-

Spices and condiments											
Turmeric	**ICM in Turmeric** ▪ FYM @ 10 t/ha. ▪ Neem cake @ 200 kg/ha-basal. ▪ Soil application of $FeSO_4$ 30 kg and $ZnSO_4$ 15 kg/ha. ▪ Azospirillum and phosphobacteria each @ 10 kg/ha. ▪ Soil test based NPK application. ▪ Foliar application of $FeSO_4$, $ZnSO_4$, Borax, Urea each @ 375 gm in 250 lit. of water twice and 25 days later. ▪ Rhizome treatment with 0.3 % Copper oxy chloride. ▪ Soil drenching with 0.25% Copper oxy chloride. ▪ Foliar application of Mancozeb @ 0.2 %. ▪ Propiconazole@0.1% two sprays	Erode local	-	Irrigated	10	4	226.5	210.15	215.57	184.47	16.86
Commercial crops											
Sugarcane	**Integrated management of sugarcane internode borer** ▪ Release of egg parasitoids *Trichogramma chilonis* 2cc x 6 release ▪ Setting up of pheromone traps-25/ ha.	COC86 032	-	Irrigated	15	6	118.75	105.75	113.63	95.4	19.08

(Contd…5BI)

Crop	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Oilseeds								
ICM-Groundnut-TMV-13	48355	120319	71964	2.49 : 1	46856	91499	44643	1.95 : 1
IDM-Groundnut-TMV-13	29188	55541	26353	1.90 : 1	30485	45720	15235	1.49 : 1
Pulses								
ICM-Blackgram-VBN-6	48405	109760	67920	2.62 :2	41572	84623	43051	2.04 : 1
Cereals								
ICM-Paddy-CO(R) 51	45421	96650	51229	2.13 : 1	53098	78856	25758	1.49 : 1
IDM-Paddy – CO (R) 51	47563	95232	47669	2.0 : 1	48884	79095	30211	1.61 : 1
Vegetables								
Varietal evaluation-CO(TH) 3	-	-	-	-	-	-	-	-
Varietal evaluation –Brinjal-VRM(BR) 1	-	-	-	-	-	-	-	-
ICM – Snakegourd-Mahyco 1	244437	500702	256265	2.05 : 1	249492	373285	123793	1.50 : 1
Fruits								
IPM-Banana-Karpuravalli	-	-	-	-	-	-	-	-
Spices and condiments								
ICM-Turmeric-Erode local	136255	366444	230189	2.69 : 1	133400	287768	154368	2.16 : 1
Commercial crops								
IPM-Sugarcane-COC86032	126789	289760	162971	2.29 : 1	140701	243406	102705	1.72 : 1

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

Crop	Data on other parameters in relation to technology demonstrated		
	Parameter with unit	**Demo**	**Check**
ICM-Groundnut-TMV-13	No. of branches/plant	6.20	4.60
	No. of pods/plant	20.70	13.20
IDM-Groundnut-TMV-13	Disease incidence (%)	14.09	40.61
	PDI-Rust (%)	26.24	51.33
	PDI-Late leaf spot (%)	19.25	50.68
ICM-Blackgram-VBN-6	No. of branches/plant	12.80	8.40
	No. of pods/plant	93.3	55.80
ICM-Paddy-CO(R) 51	Tillers/hill	17.0	12.6
	Weed control (%)	55.11	43.17
IDM-Paddy – CO(R) 51	PDI-Blast (%)	18.89	38.09
	PDI-Leaf spot (%)	13.47	43.65
	Relative lesion height (%)	3.54	34.45
Varietal evaluation-Tomato-CO(TH) 3	In progress		
Varietal evaluation –Brinjal-VRM(BR) 1	In Progress		
ICM – Snakegourd-Mahyco 1	Days to 50% flowering	42	45
	Average fruit wt (gm)	198.92	166.51
	Pest incidence (%) – Fruit fly	1.42	14.63
IPM-Banana-Karpuravalli	In progress		
ICM-Turmeric-Erode local	Dry recovery (%)	19.22	16.14
	PDI- (%) Leaf spot	25.31	80.58
IPM-Sugarcane-COC86032	Infestation (%)	17.86	49.87

5.B.2. Livestock and related enterprises :

Type of livestock	Name of the technology demonstrated	Breed	No. of Demo	No. of Units	Yield (Lit/day)/ Duration of treatment (Days) Mortality (%)				% Increase
					Demo			Check if any	
					H	L	A		
Dairy	**Demonstration on low cost supplement package for augmenting production performances in dairy cows** ▪ GRAND supplement at a dose of 10 ml twice daily for 3 months in early and mid-lactation cows. ▪ TANUVAS AREA SPECIFIC SMART MM supplement at the rate of 50g daily for 3 months in early and mid-lactation cows. ▪ Deworming with fenbendazole bolus	Cross bred animals	100	30	6.15	1.65	3.12	2.64	18.18
	Management of Mastitis with Ethnoveterinary medicine ▪ Hygienic managemental practices. ▪ Application of herbal remedies (ATC Mixture: Aloe vera-250g+ Turmeric powder-50g+Calcium hydroxide-10g) over the Udder for 7 days.	Cross bred animals	50	20	7 days	2 days	3.33 days	-	-
Poultry	**Demonstration on oral pellet vaccination in desi birds for preventing ranikhet disease** ▪ Hygienic managemental practices. ▪ Oral pellet vaccination in desi birds	Desi birds	500	10	0	10	3.8	27.34	-
Rabbitry	-								
Pigerry	-								
Sheep and goat	**Demonstration on herbal remedies in treating enteritis in sheep and goats** ▪ Use of Herbal mixture orally (Fennel, Fenugreek, Cumin seeds, Poppy seeds, Pepper, Turmeric, Kasakasa , Onion, Garlic & Tamarin with jaggery and salt) till the condition stops)	Non Descriptive	200	10	0	10	7	30.0	-

5.B.2. Continue

Type of livestock	*Economics of demonstration Rs./unit)				*Economics of check (Rs./unit)			
	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Dairy								
Low cost supplement package for augmenting production performances in dairy cows	80.00	315.00	235.00	3.94 : 1	20.00	65.00	45.00	3.25 : 1
Management of Mastitis with Ethnoveterinary medicine	498.00	842.00	344.00	1.70 : 1	700.00	40.00	-660.00	0.06 : 1
Poultry								
Oral pellet vaccination in desi birds for preventing ranikhet disease	7500.00	14640.00	7140.00	1.95 : 1	7500.00	11010.00	3510.00	1.46 : 1
Rabbitry	-							
Pigerry	-							
Sheep and goat								
Demonstration on herbal remedies in treating enteritis in sheep and goats	47867.00	100364.00	52497.00	2.10 : 1	41544.00	75457.00	33913.00	1.81 : 1

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

Types of livestock	Data on other parameters in relation to technology demonstrated		
	Parameter with unit	Demo	Check
Dairy-Low cost supplement package for cows	No. of services for next conception	1.7	2.8
	Milk fat (%)	4.30	3.84
Dairy-Mastitis	Recovery (%)	100	-
Poultry-Oral pellet vaccination for Ranikhet	Livability (%)	96.2	3.8
Sheep & Goat – Herbal remedies	Duration of treatment (Days)	3.5	-
	Recurrence (%)	9.5	-

5.B.3. Fisheries **:** Nil

5.B.4. Other enterprises :

Enterprises	Name of the technology demonstrated	Variety/ species	No. of Demo	Units/ Area {m^2}	Net Income /Unit (Rs.)				% Increase
					Demo			Check if any	
					H	L	A		
Others (pl.specify)- Value addition	Value addition of fruits and vegetables for enhancing profitability and marketability- A Commodity Group approach.	-	15	1 CIG	58312	48883	53987	33913	59.19

5.B.4. Continue

Enterprises	*Economics of demonstration Rs./unit)				*Economics of check (Rs./unit)			
	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Oyster mushroom								
Others (pl.specify)-Value addition	47867	101854	53987	2.13 : 1	41544	75457	33913	1.82 : 1

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

Types of livestock	Data on other parameters in relation to technology demonstrated		
	Parameter with unit	Demo	Check
Others-Value addition	Self life (days)	120	4
	Edible wastage (%)	15	90

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

5.B.6. Extension and Training activities under FLD(HS-Hort-AH

Sl.No.	Activity	No. of activities organized	Number of participants	Remarks
1	Field days	9	214	-
2	Farmers Training	41	451	-
3	Media coverage	5	-	-
4	Training for extension functionaries	1	22	-

PART VI – DEMONSTRATIONS ON CROP HYBRIDS

Demonstration details on crop hybrids

Type of Breed	Name of the technology demonstrated	Name of the hybrid	No. of Demo	Area (ha)	Yield (q/ha)				% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demo			Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					H	L	A										
Vegetable crops	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tomato	Demonstration of CO(TH) 3 Tomato	CO (TH) 3	10	2	In progress												
Others-Snakegourd	ICM technologies	Mahyco 1	10	2	443.6	393.8	417.27	339.35	22.96	244437	500702	256265	2.05	249492	373285	123793	1.5
Total	-	-	**20**	**2**	-	-	-	-	-	-	-	-	-	-	-	-	-

PART VII. TRAINING

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production										
Weed Management	2	33	4	37	5	0	5	38	4	42
Cropping Systems	1	15	0	15	5	0	5	20	0	20
Integrated Farming	1	0	15	15	0	6	6	0	21	21
Integrated Crop Management	3	40	1	41	1	0	1	41	1	42
Soil and Water Conservation	2	28	2	30	0	0	0	28	2	30
INM	1	12	5	17	0	0	0	12	5	17
a) Vegetable Crops										
Production of low value and high volume crop	3	41	3	44	1	0	1	42	3	45
Nursery raising	1	22	2	24	0	0	0	22	2	24

b) Fruits										
Micro irrigation systems of orchards	1	15	0	15	0	0	0	15	0	15
c) Ornamental Plants										
d) Plantation crops										
Production and Management technology	1	10	3	13	2	1	3	12	4	16
e) Medicinal and Aromatic Plants										
Production and management technology	1	13	1	14	0	0	0	13	1	14
Soil Health and Fertility Management										
Soil fertility management	1	17	0	17	0	0	0	17	0	17
INM	1	14	0	14	0	0	0	14	0	14
Livestock Production and Management										
Dairy Management	4	66	15	81	3	1	4	69	16	85
Poultry Management	3	38	7	45	4	0	4	42	7	49
Piggery Management	1	19	0	19	0	0	0	19	0	19
Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	1	0	15	15	0	6	6	0	21	21
Value addition	4	41	21	62	0	0	0	41	21	62
Women empowerment	1	15	5	20	3	2	5	18	7	25
Plant Protection										
Integrated Pest Management	6	67	20	87	11	6	17	78	26	104
Integrated Disease Management	4	58	7	65	0	4	4	58	11	69
Bio-control of pests and diseases	1	15	2	17	0	0	0	15	2	17
Production of Inputs at site										
Entrepreneurial development of farmers/youths	1	9	3	12	1	0	1	10	3	13
TOTAL	**45**	**588**	**131**	**719**	**36**	**26**	**62**	**624**	**157**	**781**

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production										
Crop Diversification	1	23	0	23	2	0	2	25	0	25
Seed production	1	20	0	20	0	0	0	20	0	20
Integrated Crop Management	1	4	2	6	4	2	6	8	4	12
Horticulture										
a) Vegetable Crops										
Production of low value and high volume crop	2	17	0	17	3	0	3	20	0	20
Nursery raising	1	12	1	13	0	0	0	12	1	13
Exotic vegetables	1	10	0	10	0	0	0	10	0	10
b) Spices										
Production and Management technology	2	19	1	20	0	0	0	19	1	20
Soil Health and Fertility Management										
Soil fertility management	2	25	1	26	0	0	0	25	1	26
INM	3	40	5	45	0	0	0	40	5	45
Micro nutrient deficiency in crops	1	8	0	8	2	0	2	10	0	10
Livestock Production and Management										
Dairy Management	2	39	4	43	0	0	0	39	4	43
Poultry Management	2	33	3	36	2	2	4	35	5	40
Animal Nutrition Management	1	12	3	15	4	1	5	16	4	20
Animal Disease Management	4	64	6	70	1	1	2	65	7	72
Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	1	0	21	21	0	0	0	0	21	21

Minimization of nutrient loss in processing	1	0	27	27	0	0	0	0	27	27
Processing and cooking	1	0	21	21	0	0	0	0	21	21
Women empowerment	1	13	2	15	0	0	0	13	2	15
Agril. Engineering										
Repair and maintenance of farm machinery and implements	1	10	3	13	2	0	2	12	3	15
Plant Protection										
Integrated Pest Management	4	51	11	62	5	0	5	56	11	67
Integrated Disease Management	7	123	5	128	0	0	0	123	5	128
Bio-control of pests and diseases	1	14	0	14	6	0	6	20	0	20
Agro-forestry										
Integrated Farming Systems	1	15	1	16	0	4	4	15	5	20
TOTAL	**42**	**552**	**117**	**669**	**31**	**10**	**41**	**583**	**127**	**710**

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Integrated farming	1	10	11	21	1	2	3	11	13	24
Mushroom Production	1	11	1	12	0	0	0	11	1	12
Value addition	2	21	13	34	1	2	3	22	15	37
Any other (pl.specify)-Micro irrigation	1	33	3	36	12	2	14	45	5	50
TOTAL	**5**	**75**	**28**	**103**	**14**	**6**	**20**	**89**	**34**	**123**

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
Value addition	1	12	6	18	0	0	0	12	6	18
TOTAL	**1**	**12**	**6**	**18**	**0**	**0**	**0**	**12**	**6**	**18**

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	30	0	30	0	0	0	**30**	**0**	**30**
Group Dynamics and farmers organization	1	14	1	15	0	0	0	**14**	**1**	**15**
Management in farm animals	1	30	0	30	0	0	0	**30**	**0**	**30**
Livestock feed and fodder production	1	19	3	22	2	0	2	**21**	**3**	**24**
Household food security	1	18	1	19	0	1	1	**18**	**2**	**20**
Total	**5**	**111**	**5**	**116**	**2**	**1**	**3**	**113**	**6**	**119**

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops	1	14	2	16	3	0	3	**17**	**2**	**19**
Integrated Pest Management	1	9	1	10	7	4	11	**16**	**5**	**21**
INM	1	14	2	16	12	2	14	**26**	**4**	**30**
Management in farm animals	1	15	0	15	1	0	1	**16**	**0**	**16**
Total	**4**	**52**	**5**	**57**	**23**	**6**	**29**	**75**	**11**	**86**

7.G. Sponsored training programmes conducted :

S.No.	Area of training	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
1.	**Crop production and management**										
1.a.	Increasing production and productivity of crops	1	20	0	20	0	0	0	20	0	20
5.	**Methods of protective cultivation-**IDM	1	20	0	20	0	0	0	20	0	20
6.	**Others (pl.specify)-**Vegetables-Nursery raising	1	22	2	24	0	0	0	22	2	24
10.e.	Others (pl.specify)-Dairy Management	1	22	3	25	0	0	0	22	3	25
11.b.	Economic empowerment of women	1	15	5	20	3	2	5	18	7	25
	Total	**5**	**99**	**10**	**109**	**3**	**2**	**5**	**102**	**12**	**114**

Details of sponsoring agencies involved

1.1.a. : NABARD, Thiruvannamalai
5. : NABARD, Thiruvannamalai
6. : Department of Horticulture, Vandavasi
7. : Department of Animal husbandry, Arni.
11.b. : National Mission on Food Processing Industries, New Delhi

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

S. No.	Area of training	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
4.	**Income generation activities**										
4.g.	Mushroom cultivation	1	9	0	9	0	0	0	9	0	9
	Grand Total	**1**	**9**	**0**	**9**	**0**	**0**	**0**	**9**	**0**	**9**

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	9	188	20	**208**	6	0	**6**	8	0	**8**
Field Visits	100	257	26	**283**	0	0	**0**	7	0	**7**
Exhibition	1	398	460	**858**	0	0	**0**	6	27	**33**
Film Show	19	268	17	**285**	16	13	**29**	4	0	**4**
Method Demonstrations	30	484	96	**580**	53	14	**67**	4	2	**6**
Group meetings	4	108	0	**108**	4	5	**9**	2	0	**2**
Lectures delivered as resource persons	22	304	90	**394**	0	0	**0**	58	3	**61**
Newspaper coverage	15	0	0	**0**	0	0	**0**	0	0	**0**
TV talks	18	0	0	**0**	0	0	**0**	0	0	**0**
Popular articles	10	0	0	**0**	0	0	**0**	0	0	**0**
Extension Literature	12	8968	1220	**10188**	0	0	**0**	160	32	**192**
Advisory Services-Help line	225	307	40	**347**	0	0	**0**	22	4	**26**
Scientific visit to farmers field(FAS)	79	122	5	**127**	0	0	**0**	1	0	**1**
Farmers visit to KVK	50	292	31	**323**	0	0	**0**	17	1	**18**
Diagnostic visits	11	50	10	**60**	0	0	**0**	0	0	**0**

Animal Health Camp	1	36	12	**48**	10	3	**13**	0	0	**0**
Farm Science Club Conveners meet	1	20	0	**20**	0	0	**0**	0	0	**0**
Self Help Group Conveners meetings	5	0	140	**140**	0	0	**0**	0	0	**0**
Celebration of important days- World Food Day	1	97	26	**123**	0	0	**0**	7	1	**8**
Any Other – Parthenieum Awareness	1	88	23	**111**	6	4	**10**	2	0	**2**
Farmers Field School	1	25	0	**25**	0	0	**0**	4	0	**4**
KMAS message	64	4608	12	**4620**	0	0	**0**	102	10	**112**
Farmers meet	2	192	48	**240**	0	0	**0**	8	0	**8**
Student visit to KVK	3	41	33	**74**	0	0	**0**	1	3	**4**
News letter	1	380	0	**380**	0	0	**0**	0	0	**0**
Total	**685**	**17233**	**2309**	**19542**	**95**	**39**	**134**	**413**	**83**	**496**

PART IX – PRODUCTION OF SEED, PLANT AND LIVESTOCK MATERIALS

9.A. Production of seeds by the KVKs

Crop category	Name of the crop	Variety	Hybrid	Quantity of seed (qtl)	Value (Rs)	Number of farmers to whom provided
Cereals (crop wise)	Paddy	CO 51	-	2.83	2055.00	5
	Paddy	ADT 45	-	53.81	82551.00	20
Pulses	Horsegram	Paiyur1	-	3.83	8001.00	16
Fodder crop seeds	Velimasal	Local	-	0.015	601.00	3
	Fodder sorghum	COFS29	-	0.001	100.00	1
Total	**-**	**-**	**-**	**60.486**	**93308.00**	**45**

9.B. Production of planting materials by the KVKs

Crop category	Name of the crop	Variety	Hybrid	Number	Value (Rs.)	Number of farmers to whom provided
Fruits	Guava	L46 & 49	-	9	375.00	3
	Jamoon	Local	-	10	100.00	1
Plantation	Coconut	T x D	-	424	21200.00	44
Fodder crop saplings	Cumbu napier	CO 4	-	300	150.00	1
	Mulberry cutting	Local	-	100	50.00	1
Forest Species	Timber	-	-	2654	34050.00	179
Total	**-**	**-**		**3950**	**75125.00**	**294**

9.C. Production of Bio-Products

Bio Products	Name of the bio-product	Quantity Kg	Value (Rs.)	Number of farmers to whom provided
Others (specify)-Worms	Earthworms	54	19100.00	22
	Vermicompost	7680	30723.00	52
-	Azolla	26.4	264.00	9
-	Vegetable special	163	23380.00	16
Total	**-**	**7923.4**	**73467.00**	**99**

9.D. Production of livestock materials : Nil

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	Number of farmers to whom provided
Poultry				
Duals (broiler and layer)	Chittacong	122	12340.00	40
	Vanaraja	49	12761.00	12
Japanese Quail	Japanese	667	23695.00	87
Total	**-**	**838**	**48796.00**	**139**

9.E. Others

Products	Name of the product	Quantity Kg/Nos/Lits.	Value (Rs.)	Number of farmers to whom provided
Mushroom	Spawn	130	4205.00	16
Machineries	Drum seeder	3	13605.00	3
Total	**-**	**-**	**17810.00**	**19**

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.)

1. Date of Start : 12.09.2003
2. Periodicity : Half yearly
3. No. of copies distributed : 1000

(B) Literature developed/published

Item	Title	Authors name	No.
Extension literature			
Pamphlets	Management of mastitis	Dr.A.Elamaran	850
	Ranikhet disease in Desi Chicken	Dr.A.Elamaran	760
	Way to increase fat in milk	Dr.A.Elamaran	860
	Japanese quail farming-Economics	Dr.A.Elamaran	860
	High density planting in Banana and management of leaf spot	N.Rameshraja	850
	Dairy farming-Economics	Dr.A.Elamaran	900
	Production technologies for paddy cultivation	P.Rajesh	950
	Production technologies for Groundnut cultivation	P.Rajesh	900
	Production technologies for turmeric	N.Rameshraja	900
	Mushroom cultivation	T.Margaret	800
	Production technologies for Millets cultivation	Dr.R.Marimuthu	850
	Biofertilizers usage in Horticultural crops	N.Rameshraja	900
Total	-	-	**10380**

10.B. Details of Electronic Media Produced

S. No.	Type of media (CD / VCD / DVD/ Audio-Cassette)	Title of the programme	Number
1	DVD	Role of KVK and dissemination of important technologies	3
2	DVD	Advances in agriculture	5
3	DVD	Drum seeder in paddy	2

10.C. Success Stories

1. Title : "Improved Snake gourd cultivation in Pandal system"

Name of the Farmer : C.Selvaraj, S/o. Chinnakkannu
Kondayankuppam, Mavalapadi post,
Vandavasi Taluk,
Thiruvannamalai district
Mobile No. 9944006819

Background

Shri Selvaraj S/o. Chinnakkannu aged 47, is a farmers' club volunteer and contact farmer of KVK in Kondayankuppam village of Vandavasi taluk. He owns 4 acres of land and cultivates mainly pandal vegetable crops such as snake gourd, bitter gourd. He used to adopt conventional crop production technologies, as a result the net returns per unit area has started declining due to higher cost of cultivation. It was during that time in 2013 when KVK selected his village as operational village and he was chosen as a beneficiary for the technological interventions.

Intervention process

He was interested in social work from the beginning and effectively associated in all the activities of KVK in the village, he is also a chief volunteer of Farmers' club of Kondayankuppam village funded by NABARD. He was one of the successful beneficiaries to undergo training on precision farming in cucurbits and other pandal vegetable related trainings conducted by KVK. The trainings strengthened his knowledge and confidence.

Intervention technology

During the year 2013-14, Mr.Selvaraj cultivated CO2 variety of snake gourd in one acre of his land. With the technical back up of KVK scientists, he adopted new technologies viz., Integrated Plant Nutrition system, IPM with major emphasis on pheromone traps, yellow sticky trays, foliar nutrition, sex regulation in snake gourd cultivation.

As a result of adoption of improved technologies, better resource use efficiency and compatibility with good market demand, he obtained a bumper yield of 443.60 q/ha. This was 34.07 % higher as compared to yields obtained by other farmers in the locality.

Impact of horizontal spread

By seeing the bumper harvest and economic return obtained by Mr.C.Selvaraj, other farmers in the village and locality have started cultivating cucurbits in pandal system. At present 250 acres of land area is under the cucurbits cultivation in the village and it is expected to increase further.

Impact of economic gains

He obtained an income of Rs. 5,32,350/- per hectare during the year 2014 in snake gourd cultivation. The net return was 2,79,070 per hectare. By seeing the economic benefit reaped by this farmer, other farmers in the locality started adopting the new technologies adopted by Mr.C.Selvaraj.

Impact of employment Generation

The farmers in the Kondayankuppam village have started cultivating cucurbits on large scale by seeing the economic return obtained by Mr.C.Selvaraj, an innovative farmer of the village. As a result, 475 man days of additional employment is generated for each hectare increase in area.

2. "Integrated Farming System – An efficient tool for Integrating and increasing livelihood of farming community"

Name of the Farmer : **D. Manivannan, S/o. Dharuman**
Sadhuperipalayam, Arni Taluk,
Thiruvannamalai district
Mobile No.9361053327

Background

Mr.D.Manivannan, an enthusiastic farmer from Sadhuperipalayam in Arni taluk of Thiruvannamalai district practicing agriculture and animal husbandry to his livelihood for the last two decades. Due to unpredictable monsoon in last few years and unawareness of newly released technologies in agriculture and allied activities, he struggled and suffered lot for his livelihood. He was having 2 dairy cows, 10 no. of Tellicherry goats, vegetable cafeteria such as brinjal, chillies, sweet orange and flowers like jasmine. Since, he could not find solution to carry forward his activities and he approached our KVK during April 2014 in a disgraced position.

Intervention process

Our KVK scientists had a detailed discussion on his background and visited his field to assess etiology behind the farmer's problem. After detailed on field assessment, it was concluded that his unawareness on "Integrated farming system" is the primary reason for the same.

Intervention technology

The KVK made an attempt to increase the livelihood of the farmer by concentrating more on integrated farming system. We trained the farmer exclusively on integrated farming system through various trainings such as On campus, Off campus and method demonstration. In continuation, we selected the farmer as one of the IFS beneficiaries and provided the support to establish Vermicompost unit, Azolla unit,

Chttacong desi chicken unit with incubation technology and fodder cafeteria through technically and economically. Also, we enlightened the farmer's knowledge on nutrient management and introduced mineral mixture in the ration of goat feed to avoid early birth and abortion. For the vegetables, a special micronutrient mixture made by our KVK with IIHR technology had influence the yield more.

Impact of horizontal spread

Since the farmer is also an active president of farmers club "Sennanandal farmer's club", he already popularized the technological intervention to the club members and its collateral farmers.

Impact of economic gains

On the course of assessment, the kid mortality, Early chick mortality has been significantly reduced and the yield from vegetables increased notably. Because of improved knowledge in integrated farming, now he is using each and every waste to allied activities and recycling the wastes effectively. Over the one year, he earned 1 lakh rupees as increased net income than previous year through KVK's intervention.

Impact of employment Generation

During March'14, the success of the farmer with KVK's technological intervention is highly acknowledged and popularized by "Pasumai Vikatan" leading agriculture magazine in Tamil and issued a special article on him. In conclusion, the farmer is now preceding his agriculture and allied activities to his livelihood with delighted vision with his entire family members. Hence, the farmers and rural youths voluntarily involving in agriculture activities and realized the impact of integrated farming system on employment generation.

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).

Crop/ Enterprise	Source	ITK Practiced	Purpose
Paddy	Farmer	Keeping Palmyra leaves around the paddy field.	To protect the paddy plants from the storks and rats.
Poultry	Farmer	Spreading of gunny bags under the tree shade randomly for termite production.	To feed the poultry birds with termites.

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

- **FARMERS AND FARM WOMEN**

  Survey, field visit, group discussion, information from panchayat presidents and progressive farmers. Discussion with line departments, NGO's and DRDA.

- **RURAL YOUTH**

  Survey, information from Nehru Yuva Kendra and line department. Discussion with Women Development Corporation and DRDA.

- **IN SERVICE PERSONNEL**

  Discussion with higher officials of the Line departments, NGO's feedback information from the ex-trainees.

10.G. Field activities

i.	No. of villages adopted	:	15
ii	No of families selected	:	163
iii.	No. of survey/PRA conducted	:	8

10.H. Activities of Soil, Water Testing Laboratory & Plant Health Diagnostic Lab

1. Date of establishment : 06.05.2005
2. List of equipments purchased with amount

A) Soil, Water Testing Laboratory:

S.No	Name of the Equipment	Qty.	Cost (Rs.)
a. Non-Recurring			
1	Spectrometer	1	60301.00
2	Flame photometer	1	50250.00
3	pH meter	1	10010.00
4	Conductivity bridge	1	10444.00
5	Physical balance	1	9840.00
6	Chemical balance	1	100242.50
7	Water distillation still	1	99544.00
8	Kjeldahl digestion and distillation	2	60140.00
9	Shaker	2	49994.00
10	Refrigerator	1	19998.00
11	Oven	1	15034.00
12	Hotplate	1	24996.00
13	Grinder	1	30009.00
	Laboratory set up equipments :		
14	Iron rack	2	2500.00
15	Gas stove	1	1262.00
16	Revolving chair	2	565.60
17	Stabilizer	1	9008.00
18	Cement concrete table with ceramic tile top, exhaust fan, working platform, stainless steel sink, sintex tank, electrical and plumbing work etc.,	-	270000.00
19	Syntax door for cupboard	-	37115.00
Total Rs.			**8,61,252.50**

B) Plant Health Diagnostic Lab

S.No	Name of the Equipment	Qty.	Cost (Rs.)
Non-Recurring			
1	Deep freezer	1	31,500.00
2	Refrigerated Centrifuge with rotor	1	1,98,500.00
3	Vortex mixer	1	3,738.00
4	D.O Meter	1	8,400.00
5	Digital pH Meter	1	9,450.00
6	Digital Colony counter	1	5,000.00
7	Thermo hygrometer	1	1,312.00
8	Vaccum desiccators	1	5,000.00
9	Digital moisture meter	1	86,000.00
10	Magnoscope with stand	1	5,250.00
11	UV rays chamber	1	6,875.00
12	Magnetic stirrer	1	4,095.00
13	Brix meter - 0-45 %	1	3,500.00
14	Brix meter - 45 to 85 %	1	3,500.00
15	Phase contrast microscope	1	57,000.00
16	Dissection microscope	1	1,575.00
17	Hot air oven	1	30,000.00
18	Water distillation units-Double still	1	90,000.00
19	Water bath - Tank	1	4,725.00
20	Laminar Air flow chamber	1	57,250.00
21	BOD Incubator	1	74,425.00
22	Autoclave	1	52,300.00
23	Stereo zoom microscope	1	1,03,050.00
24	Split A/C	1	33,000.00
25	Micro oven	1	4,500.00
26	10 KV online UPS	1	21,755.00
Total Rs.			**9,01,700.00**

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	2189	1842	438	107330.00
Water Samples	276	264	203	27600.00
Plant samples	18	18	2	1800.00
Total	**2483**	**2124**	**643**	**136730.00**

Details of samples analyzed during the 2014-15

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)
Soil Samples	182	136	93	6980.00
Water Samples	27	24	24	2700.00
Total	**209**	**160**	**117**	**9680.00**

10.I. Technology Week celebration during 2015-16 Yes/No : No

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

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./ha.	After Rs/ha.
Paddy seed production technologies	258	27	72650.00	96520.00
Corm injection technique for management of Panama wilt in banana	105	50	223100.00	345750.00
Seed treatment and soil application of Trichoderma viride	358	31	49720.00	60650.00
Set up fruit fly pheromone trap	152	42	400295.00	495015.00
Cultivation of VRM(BR)1 mullukathiri	625	41	364600.00	445615.00
Foliar nutrition in vegetable crops	788	82	696150.00	760100.00
Protray vegetable seedling production	601	33	160850.00	199760.00
Turmeric transplanting technology	126	22	287768.00	346500.00
GRAND supplement	410	62	25025.00	28875.00
Mushroom Production Rs./Month	312	27	6000.00	13000.00
Direct sown paddy drum seeder	356	32	68456.00	94217.00

11.B. Cases of large scale adoption : Nil

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

We have used the following tools in order to study the impact of the KVK activities.

1. Village level survey
2. Group discussion with farmers
3. Participatory Rural Appraisal (PRA)
4. Questionnaire
5. Discussion with the ex-trainees on
   * The suitability and adoption nature of specific technologies.
   * The comparative economics of the latest technologies with local practices.

PART XII - LINKAGES

12.A. Functional linkage with different organizations

Sl. No	Name of organization	Nature of linkage
1.	NABARD, Thiruvannamalai	Paddy seed production training for the members of Vandavasi farmers federation
		Paddy seed production training for the members of Vandavasi farmers federation
		Tribal Development sub plan proposals and area selection and discussed.
2.	NABARD, Thriuvannamalai & IIHR Banagalore	Vegetable special technology acquisition for the benefit of vegetable growers of Thriuvannamalai district sponsored by NABARD
3.	TANUVAS	TANUVAS GRAND supplement distributed under VDP at Ramachadrapuram
4.	DRDA, Karur	Watershed training and exposures
5.	Dept. of Animal husbandry, Thiruvannamalai	Training on effective livestock farming.
		Animal health camp organized at Thandarampattu.
6.	ATMA Thiruvannamalai	BFSA organized along with ADA, Arni
		Capacity building training to ATMA officials
7.	Dept. of Animal husbandry, Thiruvannamalai	Animal health camp organized at Thandarampattu.
		JLG for farmer club workshop organized.
8.	Dept. of Animal husbandry, Thiruvannamalai	FMD vaccination camp organized.
9.	NGO, Arni	World Food Day celebration collaboration with Annai Therasa NGO and other development departments.

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

Name of the scheme	Date/ Month of initiation	Funding agency	Amount (Rs.)
Quality Seed production in paddy	June 2014	NABARD-Thiruvannamalai	20000.00

12.C. Details of linkage with ATMA

a) Is ATMA implemented in your district Yes/No : Yes

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

Scientist attended workshops on operationalization of ATMA and given technical guidance in preparation of SREP.

Coordination activities between KVK and ATMA during 2014-15

S. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK	Other remarks (if any)
01	**Meetings**	**-**	12	**-**	**-**
02	**Training programmes**	**-**	9	**-**	**-**

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

The National horticulture mission has not been implemented in Thiruvannamalai district

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

12.F. Details of linkage with RKVY : 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 2014	7	541	6
May 2014	5	606	15
June 2014	5	234	10
July 2014	4	237	23
August 2014	6	313	24
September 2014	3	309	12
October 2014	6	240	8
November 2014	4	235	11
December 2014	5	313	12
January 2015	8	471	18
February 2015	5	670	16
March 2015	6	563	13
Total	**64**	**4732**	**168**

PART XIII- PERFORMANCE OF INFRASTRUCTURE IN KVK

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

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. (Qtl)	Cost of inputs	Gross income	
Cereals									
Paddy	16.10.14	10.02.15	0.2	CO-51	Seed	2.83	1775.00	2055.00	SV: 6086.00
	05.12.14	19.03.15	1.2	ADT 45	Seed	53.81	38339.00	82551.00	-
Pulses	-	-	-	-	-	-	-	-	-
Horse gram	03.10.14	05.03.15	3.0	Paiyur1	Seed	3.83	3701.00	8001.00	Inter crop
Spices & Plantation crops									
Coconut	01.04.14	30.03.15	0.1	T X D	Seedlings (Nos)	424	12500.00	21200.00	-
Fruits									
Guava	10.04.14	30.03.15	0.1	L46 & 49	Layers-Nos	9	-	375.00	-
Mango	Perennial		3.4	Bangalora, Banganapalli	Fruits	43.24	15060.00	119915.00	-
Amla	Perennial		0.1	NA7, BSR1	Fruits	1.18	120.00	1766.00	-
Sapota	Perennial		0.2	PKM-1	Fruits	0.99	210.00	2462.00	-
Tamarind	Perennial		0.4	PKM1	Fruits	0.2	-	463.00	
Vegetables	-	-	-	-	-	-	-	-	-
Brinjal	26.11.13	25.06.14	0.08	Siligudi 111	Fruits	6.90	2977.00	7197.00	-
Chillies	26.11.13	25.06.14	0.1	US344/613	Fruits	9.54	3583.00	9489.00	
	07.10.14	-	0.1	CO(CH)1	Fruits	3.88	1859.00	6836.00	Crop in field
Ashgourd	24.07.14	24.09.14	0.4	MHY1	Fruits	3.67	897.00	4690.00	Inter crop
Others (specify)									
Tender coconut	Perennial		-	TxD	Tender-Nos	927	1230.00	9264.00	-
Ornamental	01.04.12	30.03.15	0.02	All types	Cuttings-Nos	133	1250.00	6335.00	-
Tree crops	28.06.14	31.03.15	0.1	All types	Seedlings-Nos	2654	18730.00	34050.00	-
Silk cotton	Perennial		-	Local	Pods	0.40	0.00	1200.00	-

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

Sl. No.	Name of the Product	Qty (Qtl)	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	
1.	Vermicompost	76.80	6960.00	30723.00	-
2.	Earthworms	0.54		19100.00	-
3.	Azolla	0.264	450.00	264.00	
4.	Vegetable special	1.63	12225.00	23380.00	-

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	Desi chicken	Chittacong	Chicks	122	19730.00	12340.00	Closing stock value Rs.19075.00
2	Improved chicken	Vanaraja	Chicks	49	2520.00	12761.00	-
3	Japanese Quail	Nandanam 1	Chicks	667	12693.00	23695.00	-

13.E. Others

Products	Name of the product	Quantity Kg/Nos/Lits.	Value (Rs.)	Number of farmers to whom provided
Mushroom	Spawn	130 Pkts	4205.00	16
	Oyster mushroom	38.52 kg	6164.00	36
Machineries	Drum seeder	3	13605.00	3
Value added products	Pickles	75.90 kg	11385.00	31
Homecare products	Phenyl	35 lit	1050.00	3
Instant mix	Health mix, Millet mix	21.4 kg	4003.00	34
Total	**-**	**-**	**40412.00**	**123**

13.E. Utilization of hostel facilities -Accommodation available (No. of beds) : 50

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
April 2014	29	2	-
May 2014	0	0	-
June 2014	13	2	-
July 2014	0	0	-
August 2014	90	7	-
September 2014	29	7	-
October 2014	0	0	-
November 2014	21	2	-
December 2014	24	2	-
January 2015	13	2	-
February 2015	0	0	-
March 2015	25	6	-
Total Rs.	**244**	**30**	

13.F. Database management

S. No	Database target	Database created
1.	Database on FLDs	Created and updated
2.	Database on library	Created and updated
3.	Database on Rainfall	Created and updated
4.	Website creation	Launched and updated regularly

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

PART XIV - FINANCIAL PERFORMANCE

14.A. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Branch code	Account Name	Account Number	MICR Number	IFSC Number
With Host Institute	Bank of India	Chennai (Kodampakkam)	8014	Programme Coordinator-VKVK	801410100014716	600013007	BKID0008014
	Canara bank	Chennai (T.Nagar)	0917	Tamilnadu Board of Rural Development	0917101043517	600015041	CNRB0000917
With KVK	Indian Bank	Vembakkam	812	Programme Coordinator-VKVK	556007560	604019012	IDIB 000V038
	Indian Bank	Vembakkam	812	TNBRD-V KVK-RF	556007571		
	Indian Bank	Vembakkam	812	Programme Coordinator – Vedapuri KVK - FLD	556022657		
	State Bank of India	Cheyyar	00267	Programme Co-ordinator-VKVK	30822521630	604002001	SBIN0000267

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

S. No.	Particulars	Sanctioned in lakhs	Released in lakhs	Expenditure in Rs.
A. Recurring Contingencies				
1	**Pay & Allowances**	91.75	91.75	9174086.00
2	**Traveling allowances**	0.92	0.92	131999.00
3	**Contingencies**			0.00
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	0.50	0.50	233418.30
B	POL, repair of vehicles, tractor and equipments	0.50	0.50	188091.70
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	0.20	0.20	83610.00
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	0.20	0.20	70237.35
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	2.52	2.52	263201.00
F	Integrated farming system	0.10	0.10	46350.00
G	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	0.58	0.58	65600.00
H	Training of extension functionaries	0.10	0.10	19875.00
I	Maintenance of buildings	0.10	0.10	52723.00
J	Extension activities	0.10	0.10	46698.00
K	Farmers field school	0.10	0.10	15725.00
L	Library	0.00	0.00	3364.00
TOTAL (A)		**97.67**	**97.67**	**10394978.35**
B. Non-Recurring Contingencies				
1	**Works**			
	a. Fencing	0.00	0.00	0.00
2	**Equipments including SWTL & Furniture**			
	a. Tractor with implements	0.00	0.00	0.00
	b. Plant Health Diagnostic Facility	0.00	0.00	0.00
3	**Vehicle** (Four wheeler/Two wheeler, please specify)	0.00	0.00	0.00
4	**Library** (Purchase of assets like books & journals)	0.00	0.00	0.00
TOTAL (B)		0.00	0.00	0.00
lC. Revolving fund :		0.00	0.00	0.00
GRAND TOTAL (A+B+C)		**97.67**	**97.67**	**10394978.35**

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

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 1st April of each year
April 2012 to March 2013	221052.05	940462.00	677841.00	483673.05
April 2013 to March 2014	483673.05	801240.00	429561.00	855352.05
April 2014 to March 2015 ***	855352.05	1345291.00	1694346.00	506297.05

***** Recurring expenses met out from RF Rs. 6.28 lakhs**

15. Details of HRD activities attended by KVK staff during 2014-15

Name of the staff	Designation	Title of the training programme	Institute where attended	Organized by	Dates	
					From	To
Dr.A.Elamaran	Subject Matter Specialist	Short course on Fodder conservation techniques	VC & RI, Namakkal	Organized by ICAR, New Delhi	6/16/2014	6/25/2014
Rameshraja N	Subject Matter Specialist	Acquisition of Innovative vegetable special technology-MN formulation	Indian Institute of Horticulture Research, Bangalore	Organized by IIHR-Technology purchased for production of vegetable special.	6/24/2014	6/24/2014
Margaret.T	Subject Matter Specialist	Preparation of bakery products	Department of post harvest technology	Training organized by Tamil Nadu Agriculture University, Coimbatore	8/13/2014	8/14/2014
Narayanan.P	Subject Matter Specialist	Training on Integrated Pest Management	KVK Puducherry	Training organized by NCIPM, New Delhi	9/10/2014	9/12/2014
Dr.A.Elamaran	Subject Matter Specialist	Training on Integrated farming system	Department of Agronomy, AC & RI, TNAU	Organized by DEE, TNAU	10/27/2014	10/28/2014
Marimuthu.R	Programme Coordinator	Management development programme-Phase I	NAARM, Hyderabad	Organized by ICAR New Delhi	11/10/2014	11/24/2014

Sekar.O	Programme Assistant (Computer)	Training on Database Management	KVK Pathanamthitta, Kerala	Organized by ZPD VIII Zone, ICAR, Banagalore	11/11/2014	11/13/2014
Suresh.V	Subject Matter Specialist	Training on Participatory Impact on Monitoring and Assessment	KVK Erode	Organized by ZPD, Zone VIIII, Bangalore	11/19/2014	11/24/2014
Marimuthu.R	Programme Coordinator	Management development programme-Phase II	KVK NIMPITH	Organized by ICAR, New Delhi	11/27/2014	12/6/2014
Marimuthu.R	Programme Coordinator	Management development programme-Phase III	ZPD, Zone VIII, Bangalore	Organized by ZPD, Bangalore	12/15/2014	12/19/2014
Dr.A.Elamaran	Subject Matter Specialist	Training on Extension Media Linkage interface on promoting the Market-Potential to livestock and poultry products	Bharathidasan University, Technology park, Trichy	-	12/29/2014	12/30/2014
Rajesh.P	Subject Matter Specialist	Training on organic farming	TNAU-Coimbatore	Organized by RCOF, Bangalore	10/14/2014	10/18/2014

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

16.1 Farmer Field School

Thematic area	Crop	Technology demonstrated	Village	Period		Participants		
				From	To	Male	Female	Total
ICM	Turmeric	▪ Soil sampling ▪ Selection of Rhizome ▪ Rhizome treatment ▪ Protray Nursery ▪ Integrated Nutrient Management ▪ Leaf blotch management techniques ▪ Integrated Disease Management ▪ Harvesting – Modified turmeric harvester ▪ Post harvest management	Kattukkanallur	Aug'14	April' 15	25	0	25

16.2. Integrated Farming system

Farmer wise data on IFS

Farmer 1	Farmer 2	Farmer 3	Farmer 4	Farmer 5
D. Manivannan	J. Sabarirajan	B.Mohan	R. Venkatesan	V. Sankar
saduperipalayam	Kilsembedu	Mettukudisai	Panaiyur	Vilankuppam
Area 4 acres	3 acres	4 acres	2acres	1.5 acre
Garden land	Garden land	Garden land	Partial irrigation	Gardenland
Existing Components				
Vegetables, Sweet orange, Mango, Flowers, Goat, Poultry, Azolla, Vermicompost, CO FS 29	Vegetables, CO 4 fodder, Dairy, Poultry, Azolla, Vermicompost	Vegetables, Paddy, CO 4 fodder, Dairy, Poultry, Azolla, Vermicompost	Vegetables, CO 4 fodder, Dairy, Poultry, Azolla, Mushroom unit, Fish, Vermicompost	CO 4 fodder, dairy, Non-descriptive local goats, Poultry, Azolla, Vermicompost

Economic impact of IFS

SI. NO	Name of the farmer	Total area (acres)	Number of major/ subsidiary enterprises			Annual income (Rs.)		
			Before KVK intervention	After KVK intervention		Before KVK intervention	After KVK intervention	
				2013-14	2014-15		2013-14	2014-15
1	Mohan. B	4	4	9	9	3,80,950	4,96,000	5,43,262
2	Sabarirajan. J	3	3	8	8	2,62,430	3,48,218	3,96,516
3	Sankar. V	1.5	3	8	8	92,618	1,42,245	2,18,417
4	Manivannan. D	4	5	-	12	2,53,217	3,16,568	3,78,235
5	Venkatesan. R	2	3	-	9	1,27,326	1,82,172	2,41,516