

# ICAR - KRISHI VIGYAN KENDRA, VIRINJIPURAM, VELLORE

## Annual Report 2014 - 15

### PART I - GENERAL INFORMATION ABOUT THE KVK

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

KVK Address	Telephone		E mail	Web Address
	Office	Fax		
Krishi Vigyan Kendra Virinjipuram – 632 104 Vellore district Tamil Nadu	(0416) 2914453	(0416) 2273221	kvkvrinjipuram@ tnau.ac.in	www.kkvvellore.org

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

Address	Telephone		E mail	Web Address
	Office	Fax		
Tamil Nadu Agricultural University Coimbatore – 641 003, Tamil Nadu.	0422 - 6611201	0422 - 2431821	registrar@ tnau.ac.in	www.tnau.ac.in

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. S. Joshua Davidson, Ph.D.,	9489804410	9489804410	kvkvrinjipuram@tnau.ac.in

1.4. Year of sanction : 2004

#### 1.4. Staff Position (as 03rd June 2015)

S. No	Sanctioned post	Name of the incumbent	Designation	M / F	Discipline	Highest Qualification	Pay Scale	Basic pay	Date of joining KVK	Permanent /Temporary	Category
1	Programme Coordinator	Dr.S.Joshua Davidson	Programme Coordinator	M	Agri. Engg.	Ph.D.,	15600-39100 +8000 AGP	35700	2.12.04	Permanent	OBC
2	SMS	Dr.V.Sendhilvel	Assistant Professor (Plant pathology)	M	Plant pathology	Ph.D.,	15600-39100 +7000 AGP	29830	13.12.12	Permanent	OBC
3	SMS	Dr.Noorjehan AKA Hanif	Assistant Professor (Agri.Ext.)	F	Agri. Extn.	Ph.D.,	15600-39100 +7000 AGP	29830	10.04.15	Permanent	OBC
4	SMS	Dr.B.K.Savitha	Assistant Professor (Horti.)	F	Horticulture	Ph.D.,	15600-39100 +6000 AGP	15600	08.04.15	Permanent	OBC
5	SMS	Dr.P.Veeramani	Assistant Professor (Agronomy)	M	Agronomy	Ph.D.,	15600-39100 +6000 AGP	15600	16.04.15	Permanent	OBC
6	SMS	Dr.K.P.Sivakumar	Assistant Professor (Home Science)	M	Home Science	Ph.D.,	15600-39100 +6000 AGP	15600	19.07.14	Permanent	OBC
7	SMS	Dr.M.Ramasamy	Assistant Professor (Veterinary and Animal Science)	M	Veterinary and Animal Science	Ph.D.,	15600-39100 +6000 AGP	15600	27.08.14	Permanent	SC
8	Programme Assistant ( Lab Tech.)/T-4	Mr.K.R.Srinivasan	Programme Assistant (Technical)	M	Agricultural Extension	M.Sc.	9300-34800 +4400 GP	15440	24.2.11	Permanent	OBC
9	Programme Assistant (Computer)/ T-4	Mrs.S.Sangeetha	Programme Assistant (Computer)	F	Computer Science	M.C. A.,	9300-34800 +4400 GP	17490	05.12.08	Permanent	OBC
10	Programme Assistant/ Farm Manager	Vacant from 23.08.13									
11	Accountant cum superintendent	Tmt.R.Krishnaveni	Superintendent	F	-	-	9300-34800 +4800 GP	20390	15.04.04	Permanent	OBC
12	Jr. Stenographer	Mrs.G.Banumathi	Superintendent	F	-	-	9300-34800 +4800 GP	16810	01.12.08	Permanent	OBC
13	Driver	Mr.Kumaran	Driver	M	-	-	5200-20200+2400 GP	12500	09.05.13	Permanent	OBC
14	Driver	Th.G.Babusamy	Supervisor	M	-	-	9300-34800+4200	14280	20.8.07	Permanent	OBC
15	Supporting staff	Tn.N.Vijayababu	Office Assistant	M	-	-	4800-10000+1300	7320	10.06.14	Permanent	OBC
16	Supporting staff	Tmt.A.Valliammal	PUSM	F	-	-	4800-10000 +1300 GP	8840	04.05.04	Permanent	OBC

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

: 22.13 ha.

S. No.	Item	Area (ha)
1	Under Buildings	1.93
2.	Under Demonstration Units	2.00
3.	Under Crops	16.20
4.	Orchard/Agro-forestry	2.00
5.	Others	-

**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-KVK	July, 2007	570	45,20,000	-	-	-
2.	Farmers Hostel	ICAR-KVK	July, 2007	285	31,00,000	-	-	-
3.	Staff Quarters					-	-	-
	1. SMS	ICAR-KVK	July, 2007	486	36,00,000	-	-	-
	2. SMS	ICAR-KVK	July, 2007			-	-	-
	3. SMS	ICAR-KVK	July, 2007			-	-	-
	4. SMS	ICAR-KVK	July, 2007			-	-	-
	5. SMS	ICAR-KVK	July, 2007			-	-	-
	6. SMS	ICAR-KVK	July, 2007			-	-	-
4.	Demonstration Units					-	-	-
	1.Shade net and Drip irrigation system	ICAR-KVK	Oct, 2007	2 ha.	2,00,000	-	-	-
5.	Fencing	-	-	-	-	-	-	-
6.	Rain Water harvesting system	-	-	-	-	-	-	-
7.	Threshing floor	-	-	-	-	-	-	-
8.	Farm godown	-	-	-	-	-	-	-

**B) Vehicles**

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Jeep (TN 23 AA 4924)	2004	4,88,682	152131	Met with an accident on 27.09.2009. Needs replacement with a new vehicle.
Tractor (TN 23 AA 7655)	2005	4,93,716	3885	Working condition
Motor Bike (TN 23 AB 8345)	2006	38,781	40481	Good condition
Motor Bike (TN 23 AF 9661)	2009	41,976	35694	Good condition

**C) Equipments & AV aids**

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Photocopier	2005	74,500	Not in working condition. Needs replacement
Computer with Accessories	2005	75,000	Good condition
LCD	2007	53,000	Good condition
Computer (Desktop)	2007	47,000	Good condition
Generator 3KVA	2011	91,089	Good condition
Camera	2011	24,300	Good condition

**1.8. Details SAC meeting conducted in 2013-14 : 06.08.2013**

S. No	Date	Number of Participants	No. of absentees	Salient Recommendations	Action taken
1.	06.08.13	35	-	Mango approach/soft wood grafting may be done and distributed to farmers	Bangalora variety mango stones were transplanted to the pots after root pruning during December 2014. The approach grafting will be done during July 2015.
2.	06.08.13	35	-	Problematic Aonla trees at farmer's field in Kaniyambadi may be top worked by utilizing the service of APAC students from Kalavai	A team of scientists from IIHR Bangalore, Department of Fruit Crops along with SMS (Hort), KVK, Virinjipuram inspected the Amla field and recommended that application of recommended dose of fertilizers continuously for 2 years is alone enough for regular bearing and flowering.
3.	06.08.13	35	-	Grafting in <i>Solanum torvum</i> (Sundaikai) plant may be learnt from TNAU, Coimbatore for developing perennial brinjal plant	The grafting techniques has been tried in the ARS farm for the development of perennial brinjal plant. The success rate of grafting in the brinjal is low. Grafting work is being continued for improving the success rate.
4.	06.08.13	35	-	Horizontal spread of Cumbu Napier hybrid grass in Vellore Dt. may be assessed.	Fast spread of Cumbu Napier hybrid grass was reached directly to 458 farmers through KVK demonstrated farmers and the horizontal spread of Cumbu Napier grass is assessed to be 1800 ha as per the Department of Animal Husbandry, Vellore.

S. No	Date	Number of Participants	No. of absentees	Salient Recommendations	Action taken
5.	06.08.13	35	-	Village youth may be trained on farm equipments/machineries in Collaboration with Dept. of Agrl. Engineering. Dry method of paddy seed sowing in trays may be experimented	<ul style="list-style-type: none"> <li>❖ Skill training on mechanical paddy transplanter and raised bed tray nursery to rural youth was organized and conducted at Durgam Village in collaboration with Dept of Agrl. Engg, Vellore. A total of 16 youths were trained and named as Green Army. At present, Green Army is providing custom hiring service at four blocks of Vellore District.</li> <li>❖ Raised dry bed paddy seed nursery for transplanter was demonstrated at Sirukarumbur village and the germination of seedlings raised in dry-bed were observed to be late establishment, uneven height and poor root growth where clods in the dry-bed.</li> <li>❖ Primed seeds germinated faster than fresh dry seed</li> </ul>
6.	06.08.13	35	-	Zero till seed drill may be demonstrated in farmers field	<ul style="list-style-type: none"> <li>❖ Zero till fertilizer seed drill in black gram was demonstrated to 10 farmers from Sakkaramallur, Mudinampet, Vadavirinjipuram and Kamarajapuram under FLD programme 2013-2014.</li> <li>❖ 289 phone calls were received when the zero-till ferti seed drill demonstration was aired through Makkal TV</li> </ul>

S. No	Date	Number of Participants	No. of absentees	Salient Recommendations	Action taken												
7.	06.08.13	35	-	A trial may be conducted to reclaim alkaline soil of Mr. Ganesan using sesbania, ragi and pressmud	Front line demonstration on “Demonstration of Ragi variety CO15” was conducted during 2014-15 for phyto remediation of alkaline soil, in which Mr.Ganesan has been included as one of the beneficiary farmer. Ground water and soil samples were tested for its salt load.												
8.	06.08.13	35	-	Seed production of any one vegetable may be taken up, especially ash gourd seed production may be tried	Spiny brinjal VRM 1 seeds 8.9 kg, moringa PKM1 seeds 1.35 kg has been produced and distributed to the farmers. 500gm of ash gourd CO 2 has been produced.												
9.	06.08.13	35	-	Upload all the demonstrations, OFT and trainings in the website.	The details of the ongoing OFTs, FLDs, trainings and events are posted in the website of KVK from time to time.												
10.	06.08.13	35	-	Trials may be conducted to address the problems in jasmine crop	Front Line Demonstration on foliar nutrition in jasmine for improving the flower quality was conducted during 2014-15 at Pulimedu village of Vellore district.												
11.	06.08.13	35	-	Scientist may visit Pollachi farms to learn drought management technology in Coconut	Dr. T. Prabhu, SMS (Horticulture) visited CRS Aliyar Nagar and progressive farmer’s field of Pollachi drought management technologies were implemented in progressive farmers field through special programme on drought management techniques in coconut. <table border="1" data-bbox="1031 1549 1395 1782"> <thead> <tr> <th>S. No</th> <th>Date</th> <th>Title</th> <th>No</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>20.11.13</td> <td>Improved production technology for coconut</td> <td>30</td> </tr> <tr> <td>2.</td> <td>25.11.13</td> <td>Improved production technology for coconut</td> <td>30</td> </tr> </tbody> </table>	S. No	Date	Title	No	1.	20.11.13	Improved production technology for coconut	30	2.	25.11.13	Improved production technology for coconut	30
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S. No	Date	Number of Participants	No. of absentees	Salient Recommendations	Action taken																
12.	06.08.13	35	-	Process documentation of any one technology may be done by extension scientist	Process documentation on SRI nursery has been completed. Video documentation of critical technologies has been done. ( 25 nos)																
13.	06.08.13	35	-	Farmers may be given trainings on Maize cultivation	Fifty farmers were trained in improved production techniques in maize cultivation. FLD on TNAU Maize Hybrid Co 6 was conducted to 10 farmers																
14.	06.08.13	35	-	Knowledge on marketing technologies for horticultural crops may be imparted	A total of 50 farmers were trained on marketing horticultural crops. <table border="1"> <thead> <tr> <th>S. No</th> <th>Date</th> <th>Title</th> <th>No</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>06.10.14</td> <td>Marketing of vegetable crops</td> <td>50</td> </tr> <tr> <td>2.</td> <td>07.10.14</td> <td>Marketing of flower crops</td> <td>50</td> </tr> <tr> <td>3.</td> <td>12.10.14</td> <td>Marketing of fruit crops</td> <td>50</td> </tr> </tbody> </table>	S. No	Date	Title	No	1.	06.10.14	Marketing of vegetable crops	50	2.	07.10.14	Marketing of flower crops	50	3.	12.10.14	Marketing of fruit crops	50
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15.	06.08.13	35	-	Papaya Co 8 seedlings may be raised and distributed to farmers	Papaya CO 8 seedlings were raised in the nursery. The seedlings were distributed to farmers in time. A total of 500 seedlings were distributed to farmers.																
16.	06.08.13	35	-	Training may be given on papaya cultivation technology	Training was given to 50 Papaya growers. <table border="1"> <thead> <tr> <th>S. No</th> <th>Date</th> <th>Title</th> <th>No</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>30.08.13</td> <td>Production technology for papaya</td> <td>25</td> </tr> <tr> <td>2</td> <td>31.08.13</td> <td>Post harvest technology for papaya</td> <td>25</td> </tr> </tbody> </table>	S. No	Date	Title	No	1	30.08.13	Production technology for papaya	25	2	31.08.13	Post harvest technology for papaya	25				
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2	31.08.13	Post harvest technology for papaya	25																		
17.	06.08.13	35	-	Power weeder in paddy may be explored	Single row SRI power weeder developed by Vijay Tillers is under refinement and agreed to provide for demonstration during Rabi 2015.																

S. No.	Date	Number of Participants	No. of absentees	Salient Recommendations	Action taken												
18.	06.08.13	35	-	Training may be provided on enrichment of vermi-compost	An off campus training programme was conducted at Karugamputhur Village on 26.09.2014 on the topic "Enrichment of Vermicompost". A group of 25 women farmers were trained in the production of vermicompost and enrichment with biofertilizers.												
19.	06.08.13	35	-	Training may be given on drumstick cultivation	A total of 50 farmers were trained for the cultivation of drumstick <table border="1" data-bbox="1052 709 1414 919"> <thead> <tr> <th>S. No</th> <th>Date</th> <th>Title</th> <th>No.</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>20.11.13</td> <td>Production technology for moringa</td> <td>25</td> </tr> <tr> <td>2.</td> <td>26.11.13</td> <td>Production technology for moringa</td> <td>25</td> </tr> </tbody> </table>	S. No	Date	Title	No.	1.	20.11.13	Production technology for moringa	25	2.	26.11.13	Production technology for moringa	25
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20.	06.08.13	35	-	Sensitization on available credit facilities at banks for mushroom cultivation, may be done with the help of bank officials	The Manager from Bank of India, K.V.Kuppam have sensitized the farmers on available credit facilities for mushroom cultivation. A total of four trainings on mushroom cultivation benefitting 182 farmers were conducted. The Lead Bank Manager Mr. T. Mahendran, Indian bank was participated in the training programme held on 06-11-2014 and delivered a lecture on credit facilities in Agriculture and allied sectors. It is suggested the credit facilities available in TAHDCO, NABARD, INDSET and Pudhuvazhu Thittam.												



S. No	Date	Number of Participants	No. of absentees	Salient Recommendations	Action taken												
21.	06.08.13	35	-	Training on value addition in millets and tomato may be given	Two days training programme was given to the 64 participants from self help group members at Gudiyatham block on 25.08.2014 and 26.08.2014.												
22.	06.08.13	35	-	Training on citrus cultivation may be given	A total of 50 farmers were trained for the cultivation of citrus <table border="1"> <thead> <tr> <th>S. No</th> <th>Date</th> <th>Title</th> <th>No.</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>06.10.14</td> <td>Production technology for citrus</td> <td>25</td> </tr> <tr> <td>2.</td> <td>07.10.14</td> <td>Production technology for citrus</td> <td>25</td> </tr> </tbody> </table>	S. No	Date	Title	No.	1.	06.10.14	Production technology for citrus	25	2.	07.10.14	Production technology for citrus	25
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## PART II - DETAILS OF DISTRICT

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

S. No	Farming system/enterprise
1.	<b>Wet Land:</b> Paddy-Paddy, Sugarcane, Banana
2.	<b>Garden Land:</b> Paddy-Paddy-Groundnut, Paddy-Paddy-Ragi / Cumbu / Pulses, Paddy-Paddy-Vegetables, Sugarcane, Banana, Flowers
3.	<b>Dry Land:</b> Groundnut-Pulses (with Pulses as Inter crop), Groundnut- Gingelly, Groundnut-Ragi/Horse gram, Minor Millets-horse gram, Cotton, Sorghum

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	The climate is basically semi-arid tropical. While the period from March to June experiences very hot weather condition, cold weather condition prevails during November to January. The average minimum and maximum temperatures are 13° Celsius and 44° Celsius respectively.

S. No	Agro ecological situation	Characteristics
1.	Zone –AES 1 Walajah, Sholinghur, Arakkonam, Kaveripakkam and Nemili blocks.	Red Non calcareous soil, low rainfall and low elevation areas
2.	Zone –AES 2 Vellore, Kaniyambadi, Anaicut, K.V Kuppam, Katpadi, Arcot and Timiri block.	Red Non calcareous soil, low rainfall and medium elevation areas
3.	Zone –AES 3 Gudiyatham, Pernambut, Madhanoor, Alangayam, Tirupathur, Jolarpet, Kandili and Natrampalli blocks.	Red calcareous soil, low rainfall and medium elevation areas

2.3. Soil type/s :

S. No	Soil type	Characteristics	Area in ha
1.	Sandy and Sandy Loam	Sandy soil : Visible large particles to the unaided eye, usually light in colour and stays loose allowing moisture to penetrate easily. This soil type cannot form a ball when squeezed in the fist and feels coarse in texture when wet or dry. Sandy Loam soils : Sandy loam soils are dominated by sand particles, but contain enough clay and sediment to provide some structure and fertility. Sandy loam soils are broken down into four categories, including coarse sandy loam, fine sandy loam, sandy loam and very fine sandy loam. The size of the sand particles is measured in millimeters and their concentration in the soil is used to determine which category a soil falls under. Sandy loam soils are made of approximately 60 percent sand, 10 percent clay and 30 percent silt particles.	48894
2.	Red Loam	Soil composed mostly of sand and silt, and a smaller amount of clay (about 40%-40%-20% concentration respectively). The reddish colour reflects the presence of iron oxides that form as a result of chemical weathering.	178836

S. No	Soil type	Characteristics	Area in ha
3.	Clay and Clay Loam	Clay : 40 percent or more clay, 45 percent or less sand, and less than 40 percent silt. Clay loam : 27 to 40 percent clay and more than 20 to 46 percent sand.	118125
4.	Black Cotton	They are very fertile. They are black in colour. They are high in organic matter. They often form in grasslands and wetlands. Organic matter contains plant nutrients and it also improves the physical properties of the soil, enhancing it for plant growth. It is also known as regur soil.	4020

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

S.No.	Crop	Area (ha.)	Production (Metric tons)	Productivity (kg /ha)
1	<b>Paddy</b>	<b>63470</b>	<b>222098</b>	<b>5080</b>
2	Cholam	6179	8193	1326
3	Cumbu	2056	5220	2539
4	Ragi	6417	40772	4163
5	Maize	5072	36518	7200
6	<b>Redgram</b>	<b>14270</b>	<b>19137</b>	<b>1450</b>
7	Greengram	<b>2014</b>	<b>1643</b>	<b>860</b>
8	Blackgram	4176	1828	588
9	Horsegram	6152	9439	978
10	Bengalgram	5	3	600
11	Otherpulses	2223	1334	600
12	<b>Groundnut</b>	<b>44506</b>	<b>79356</b>	<b>2202</b>
13	Castor	274	192	700
14	Gingelly	280	168	600
15	Sunflower	3	2	500
16	<b>Sugarcane</b>	<b>14030</b>	<b>1109952</b>	<b>94000</b>
17	Cotton	6830	55515	6800

(Source: Office of the Joint Director of Agriculture, Vellore)

#### Horticulture

S. No.	Crop	Area (ha)	Production (tonnes)	Productivity (tonnes /ha.)
<b>Fruit Crops</b>				
1	Banana	<b>3219</b>	28760	40
2	Mango	14667	146670	10
3	Guava	621	12420	20
4	Sapota	461	9542	20.7
5	Cashew	3	45	15.1
6	Jack	72	2290	31.8
7	Coconut	22680	4127*	104 **
8	Papaya	12	240	20

S. No.	Crop	Area (ha)	Production (tonnes)	Productivity (tonnes /ha.)
<b>Vegetable Crops</b>				
9	Brinjal	1244	31100	25
10	Tomato	1211	30275	25
11	Greens	169	3380	20
12	Tapioca	144	2880	20
13	Moringa	38	1520	40.0
14	Onion	48	720	15
15	Sweet potato	35	525	15
16	Ash gourd	4	60	15
17	Bitter gourd	20	300	15
18	Bottle gourd	12	180	15
19	Water melon	20	400	20
<b>Flower crops</b>				
20	Jasmine	718	5744	8
21	Crossandra	70	560	8
22	Chrysanthemum	63	1260	20
23	Nerium	6	30	5
24	Marigold	14	210	15
<b>Spices</b>				
25	Chillies	899	8990	10
26	Turmeric	639	15975	25
27	Coriander	137	685	5
28	Curry leaf	27	5400	200
29	Mint	11	22	2.0
30	Tamarind	546	5460	10
<b>Plantation crops</b>				
31	Areca nut	14	140	10.0

(Source: Office of the Joint Director of Agriculture, Vellore) \* in lakh nuts; \*\* in nuts per tree/year

## 2.5. Weather data

Month	Rainfall (mm)	Temperature ° C		Relative Humidity (%)
		Maximum	Minimum	
April' 14	11.2	39.3	24.6	56.0
May' 14	79.5	38.0	25.4	53.2
June' 14	103.7	40.7	25.6	69.8
July' 14	111.8	33.5	25.3	69.9
August' 14	115.34	32.0	23.1	72.2
September' 14	142	34.5	23.2	75.7
October' 14	146.2	31.3	23.2	75.9
November' 14	45.5	20.7	14.5	77.9
December' 14	35.4	28.2	14.4	75.0
January' 15	0	27.6	18.2	76.6
February' 15	18.3	33.6	20.3	74.4
March' 15	6.5	35.0	23.1	62.2

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

Category	Population	Production	Productivity
Cattle	556632	-	-
Buffalo	16105	-	-
Sheep	383270	-	-
Goats	324052	-	-
Poultry	6504799	-	-

2.7 District profile has been **Updated** for 2014-15 Yes / No: Yes

## 2.8. Details of Operational area / Villages

S. No	Taluk	Name of the block	Name of the village	How long the village is covered under operational area of the KVK	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Vellore	Anaicut K.V.Kuppam,	Anpoondi Pulimedu Thondanthulasi	1	Groundnut, Redgram, Jasmine	Lack of application of micronutrient, poor flower quality and reduced marketability in jasmine Drought and Root rot disease.	Crop production, Crop diversification
2	Katpadi	K.V.Kuppam, Katpadi	Velampattu, Cholamur, Keelalathur Belliyappanagar Thalikkal Vadavirinjiuram	1	Redgram, Paddy Maize Blackgram Groundnut	Non availability of labour due to rapid industrialization. High labour wages. More time required for sowing, weeding and harvesting operations.  Low productivity by old varieties and admixtures in Redgram. Productivity of the crop is less.  High cost of feed for cattle and non availability of green fodder Non availability of promising hybrid Severe labour shortage and high cost involved in sowing, weeding and harvesting.	Crop production, Crop protection Farm mechanization
3	Thirupattur	Jolarpet	Yelagiri	1	Minor millets Fodder sorghum	Low yield, Use of local varieties, Lack of awareness on improved varieties High cost of feed for cattle and non availability of green fodder	Crop production, Crop protection
4	Gudiyatham	Gudiyatham	Kallapadi and Poosarivalasai, Arigavaripalli K.Mottur	2	Tomato Groundnut	Low yielding varieties and drought, Pest and disease incidence.  Crop and yield loss due to nematode damage in Tomato  Flower drop due to hopper damage and yield loss due to fruit fly in Mango Wild boar damage the field crops and unmanageable with the existing techniques	Crop production Crop protection Management of forest animal menace in Agriculture (Wild boar)
5	Walajah	Nemili	Uzhiyanallur and Parapperi	1	Chilli	Low yielding varieties, drought and pest and disease incidence	Crop diversification

## 2.9. Priority thrust areas

S. No	Thrust area
1	Drought mitigation
2	Varietal Evaluation
3	Introduction of hybrids in maize
4	Crop diversification in millets
5	Crop diversification in Horticultural crops
6	Utilization of natural resource management
7	Pest and disease management in orchard
8	Fodder production
9	Farm mechanization in groundnut
10	Allied enterprises/Mushroom cultivation
11	Management of tannery polluted land
12	Improved cultivation techniques for vegetable and flower production
13	Management of forest animal menace in Agriculture (Wild boar)

**PART III - TECHNICAL ACHIEVEMENTS**

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

OFT				FLD			
1				2			
Number of OFTs		Number of farmers		Number of FLDs		Number of farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
6	6	40	40	12	12	122	122

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
79	79	2025	2025	1741	1741	32561	32561

Seed Production (Qtl.)		Planting materials (Nos.)	
5		6	
Target	Achievement	Target	Achievement
1.79	1.79	10	10

Livestock, poultry strains and fingerlings (No.)		Bio-products (Kg)	
7		8	
Target	Achievement	Target	Achievement
-	-	328	328

**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	Crop protection	Paddy	High BLB incidence	Assessment of varieties suitable for Bacterial Leaf Blight disease resistance	-	1	-	1			11.2	-	-	-	-
2	Crop protection	Groundnut	Higher incidence of soil borne disease 37 - 42 % The inoculum load in soil is $3 \times 10^{-6}$	Assessment of Biocontrol agents for the management of Groundnut root rot	-	1	-	-	-	-	-	-	-	-	<i>T. viride</i> – 21 kgs  <i>P. fluorescens</i> - 32 kgs
3	Crop production	Redgram	Low productivity, more flower drop in LRG41 and admixtures. The yield gap is 18 to 23 %.	Assessment of red gram hybrid ICPH 2740 in Vellore district	-	1	-	-	-	0.21	-	-	-	-	<i>T viride</i> – 7 kgs



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
4	Crop protection	Horse gram	Low productivity and the yield gap is 27 to 32 %	Assessment of horse gram variety CRIDA 18R	-	-	-	-	-	0.28	-	-	-	Rhizobium – 700g Phosphobacterium – 700g
5	Crop protection	Tomato	Low yield due to the lack of location specific hybrids and leaf curl disease (33%)	Assessing the performance of tomato hybrids for tomato Leaf Curl Virus	-	1	-	-	-	0.0175	-	-	-	-
6	Crop protection	Tomato	Crop and yield loss due to nematode damage 25.7 to 43.7 % and 997 juvenile / 250g soil at Barathrami village (Gudiyattam)	Assessment of biological control of nematode in Tomato	-	2	-	-	-	-	-	-	-	<i>Paecilomyces lilacinus</i> -7 kgs

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
7	Crop Management	Ragi	Low Yield and Soil Salinity	-	Demonstration of Ragi Variety CO 15 in Vellore District	-	-	-	-	0.20	-	-	-	Azospirillum – 2 kgs Phosphobacteria – 2 kgs VAM – 2 kgs
8	Crop Production	Groundnut	Drought, low rainfall and plant stand is 16 / m <sup>2</sup> instead of 33 m <sup>2</sup>	-	Demonstration of newly released groundnut variety Kadiri 9	1	-	-	-	5	-	-	-	Rhizobium – 2 kg Phosphobacteria – 2 kg <i>P. fluorescens</i> – 10kgs <i>Trichoderma viride</i> – 1 kg
9	Crop Management	Groundnut	Uneven distribution of Rainfall and terminal drought was 36%	-	Demonstration of Methylobacterium – (PPFM) for Groundnut crop for drought mitigation.	-	-	-	-	-	-	-	-	Methylobacterium – 25 litres
10	Crop Improvement	Blackgram	Low productivity due to poor crop stand.	-	Demonstration of Blackgram variety MDU 1	1	-	-	-	1.6	-	-	-	<i>T. viride</i> – 20 kgs <i>P. fluorescens</i> - 20 kgs

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
11	Crop improvement	Samai	Low yield and Lack of awareness on improved varieties	-	Demonstration of CO 4 Samai	-	-	-	-	0.5	-	-	-	<i>Trichoderma viride</i> - 10 kgs <i>P. fluorescens</i> - 10kgs
12	Crop improvement	Mango	Hopper problem - 38% Fruit fly problem - 27% in Gudiyatham Block. Area affected 4200 ha.	-	Demonstration of management techniques for hoppers in mango	-	-	-	-	-	-	-	-	Methyl Eugenol trap – 12 nos
13	Crop production	Maize	Non availability of promising hybrid at a reasonable rate. Water scarcity; Farmers looking for a alternate crop	-	Demonstration of TNAU Maize hybrid CO 6	3	-	-	-	0.80	-	-	-	Azospirillum – 2 kgs

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
14	Crop production	Chilli	Yield gap is 24% due to more flower drop.	-	Demonstration of growth regulator and micro nutrient application in Chilli	1	-	-	-	0.00250	-	-	-	-
15	Crop production	Jasmine	Lack of application of micronutrient, poor flower quality and poor marketability	-	Demonstration of foliar nutrition in jasmine for improving the flower quality	1	-	-	-	-	-	-	-	<i>Azospirillum – 40kgs</i> <i>Trichoderma – 40 kgs</i>
16	Crop diversification	Fodder sorghum	High cost of feed for cattle and non availability of green fodder	-	Demonstration of Multi cut fodder sorghum CO 31	3	-	-	-	0.10	-	-	-	-
17	Farm Mechanization in rainfed groundnut	groundnut	Severe labour shortage and high cost involved in sowing, weeding and harvesting	-	Demonstration of Mechanization in Groundnut	2	-	-	-	-	-	-	-	-

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	
18	Wild boar	Wild boar control	Wild boar damage the field crops and unmanageable with the existing techniques	-	Demonstration of wild boar control management with ECODON	-	-	-	-	-	-	-	-	-	Ecodon – 4 litres
19	IFS	Integrated farming System	Poor utilization of resources, Low income	-	Integrated farming System	4	-	-	-	0.4	-	Telecherry goat-10 nos Namakal desi chicken-300 nos.	-	-	-

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

S. No	Title of Technology	Source of technology	Crop/enterprise	No. of programmes conducted			
				OF T	FL D	Trainin g	Others (Specify)
1	2	3	4	5	6	7	8
1	Assessment of red gram hybrid ICPH 2740 in Vellore district	ICRISAT, Hyderabad	Redgram	7	-	-	-
2	Assessment of Bio-control agents for the management of Groundnut root rot	TNAU	Groundnut	7	-	1	-
3	Assessment of varieties suitable for Bacterial Leaf Blight disease resistance	DRR, Hyderabad	Paddy	7	-	1	-
4	Assessment of horse gram variety CRIDA 18R	CRIDA, Hyderabad	Horsegram	7	-	-	-
5	Assessing the performance of tomato hybrids for tomato Leaf Curl Virus	IIHR, Bangalore	Tomato	7	-	1	-
6	Assessment of biological control of nematode in Tomato	TNAU	Tomato	5		-	-
7	Demonstration of newly released groundnut variety Kadiri 9	N.G.AU, Hyderabad	Groundnut	-	10	-	-
8	Demonstration of Methylobacterium – (PPFM) for Groundnut crop for drought mitigation.	TNAU	Groundnut	-	10	1	-
9	Demonstration of TNAU Maize hybrid CO 6	TNAU	Maize	-	10	3	-
10	Demonstration of Ragi Variety CO 15 in Vellore District	TNAU	Ragi	-	10	-	-
11	Demonstration of CO 4 Samai	TNAU	Samai	-	10	-	-
12	Demonstration of Blackgram variety MDU 1	TNAU	Blackgram	-	20	1	-
13	Demonstration of growth regulator and micro nutrient application in Chilli	TNAU	Chilli	-	5	1	-
14	Demonstration of foliar nutrition in jasmine for improving the flower quality	UAS, Dharwad	Jasmine	-	10	1	-
15	Demonstration of management techniques for hoppers in mango.	TNAU	Mango	-	5	1	-
16	Demonstration of Multi cut fodder sorghum CO FS 31	TNAU	Fodder sorghum	-	10	3	-
17	Demonstration of Mechanization in Groundnut	CIAE Bhopal	Groundnut	-	10	2	-
18	Demonstration of wild boar control management with ECODON	PJSAU	Groundnut	-	10	-	-
19	Integrated Farming System	TNAU	Fodder, Cattle, Poultry		3	-	-

## 3.B2 contd..

No. of farmers covered															
OFT				FLD				Training				Others (Specify)			
General		SC/ST		General		SC/ST		General		SC/ST		General		SC/ST	
M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
32	6	2	-	98	6	15	4	806	201	56	22	-	-	-	-

**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	Flowers	Plantation crops	Tuber Crops	TOTAL
Integrated Nutrient Management										
Varietal Evaluation			2							2
Integrated Pest Management					2					2
Integrated Crop Management										
Integrated Disease Management	1	1								2
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>	<b>1</b>	<b>1</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>6</b>

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

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

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

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



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

Thematic areas	Cattle	Poultry	Piggery	Rabbitry	Fisheries	TOTAL
Evaluation of Breeds						
Nutrition Management						
Disease of Management						
Value Addition						
Production and Management						
Feed and Fodder						
Small Scale income generating enterprises						
<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
Integrated Nutrient Management					
Varietal Evaluation	Horsegram	Assessment of Horsegram variety CRIDA 18 R	7	7	2.8 ha.
	Redgram	Assessment of redgram hybrid ICPH 2740 in Vellore District	7	7	2.8 ha.
	Paddy	Assessment of varieties suitable for Bacterial Leaf Blight disease resistance in rice	7	7	2.8 ha.
Integrated Pest Management	Groundnut	Assessment of Bio-control agents for the management of Groundnut root rot	7	7	2.8 ha.
	Tomato	Assessment of biological control of nematode in tomato	5	5	2 ha.
	Tomato	Assessing the performance of tomato hybrids for tomato leaf curl virus	7	7	2.8 ha.
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>			<b>40</b>	<b>40</b>	<b>16 ha</b>

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

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha
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

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**

<b>Thematic areas</b>	<b>Name of the livestock enterprise</b>	<b>Name of the technology assessed</b>	<b>No. of trials</b>	<b>No. of farmers</b>
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 1**

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trial s	Technology Assessed	Parameter s of assessment	Data on the paramete r	Results of assessment		Feedback from the farmer	Any refineme nt needed	Justification for refinement
								I	II			
1	2	3	4	5	6	7	8			10	11	12
Horsegram	Rain fed	Low producti vity and the yield gap is 27 to 32%	Assessment of Horsegram variety CRIDA 18 R	7	Horsegram variety CRIDA 18 R	No. of pods per plant,  Yield  BCR	numbe r/plant  q/ha.  Ratio	26.7  6.8  1.86	33.3  9.0  2.4	Crida 18 R desired by the nearby farmers for planting. The yield increase was high. The pod size is bigger and grains are shiny in nature.	-	-

**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 : Paiyur 2	TNAU	6.8	q/ha.	6301	1.86
Technology option 2: CRIDA 18R	CRIDA, Hyderabad	9.0	q/ha.	10538	2.4

### Results of On Farm Trial -2

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trial s	Technology Assessed	Parameter s of assessment	Data on the paramete r	Results of assessment		Feedback from the farmer	Any refinemen t needed	Justification for refinement
								I	II			
1	2	3	4	5	6	7	8	9	10	11	12	
Redgram	Rainfed	Low productivity and more flower drop in LRG 41 and admixtures	Assessment of redgram hybrid ICPH 2740 in Vellore District	7	Option-I: LRG 41  Option-II: ICPH 2740	Yield  Average number of pods / plant  Number of seeds / pod	q/ha.  numbers  numbers	12.62  316  3-4	10.15  267  3-4	Farmer expressed that ICPH 2470 hybrid did not withstand severe drought. Crop was saved by supplemented irrigation at flower initiation and pod setting stages	-	-

### 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 : Redgram variety LRG 41	ANGRAU	316	q/ha	28075	2.12
Technology option 2: NIL	-	-	q/ha	-	
Technology option 3; Hybrid Redgram ICPH 2740	ICRISAT, Hyderabad	267	q/ha	22225	1.90

**Results of On Farm Trial 3**

Crop/ enterprise	Farmin g situatio n	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameter s of assessment	Data on the parameter	Results of assessment			Feedback from the farmer	Any refine ment need ed	Justificati on for refineme nt
								I	II	III			
1	2	3	4	5	6	7	8	9	10	11	12		
Paddy	Irrigated	Severe BLB incidence	Assessment of varieties suitable for Bacterial Leaf Blight disease resistance in rice	7	Option-I : BPT 5204	Incidence of BLB	Percentage	26	14.3	5.0	Improved samba masoori has shown the disease resistance. The plant protection cost was reduced in this trial. The visible difference was observed in the symptoms.	-	-
					Option-II : ADT 49	Yield	q/ha.	49.4	57.3	60.8			
					Option-III: Improved Samba Masuri	BCR	Ratio	1.99	1.84	2.18			

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 : BPT 5204	Farmer practice	49.4	q/ha	28335	1.99
Technology option 2; ADT 49	TNAU	57.3	q/ha	27275	1.84
Technology option 3: Improved samba masuri	DRR, Hyderabad (ICAR)	60.8	q/ha	32750	2.18

**Results of On Farm Trial 4**

Crop/enterprise	Farmin g situation	Problem definitio n	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the paramete r	Results of assessment			Feedback from the farmer	Any refinem ent needed	Justifica tion for refinem ent
								I	II	III			
1	2	3	4	5	6	7	8	9	10	11	12		
Groundnut	Rainfed	Higher incidence of soil borne disease 37-42 %	Assessment of Bio-control agents for the management of Groundnut root rot	5	Integrated Disease Management	Disease incidence Yield BCR	Percentage q/ha Ration.	20.85 9.21 1.17	7.07 11.36 1.44	7.28 12.90 1.64	The crop vigor of the bio-control treated plot is better than control and fungicide treated plot. Pod number is higher in biocontrol applied plot. The biocontrol application reduced the cost of inputs.	-	-

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 : Application of FYM	TNAU	9.21	q/ha	3808	1.17
Technology option 2; Spot drenching with carbendazim @1g/lit	TNAU	11.36	q/ha	9816	1.44
Technology option 3: Seed treatment with T.viride @ 4g/kg of seed b) Soil application of P. fluorescens and T.viride each @ 2.5kg /ha mixed with 50 kg of decomposed FYM at 30 DAS	TNAU	12.90	q/ha	14125	1.64

### Results of On Farm Trial 5

Crop/enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment			Feedback from the farmer	Any refinement needed	Justification for refinement
								I	II	III			
1	2	3	4	5	6	7	8	I	II	III	10	11	12
Tomato	Irrigated	Crop and yield loss due to nematode damage 25.7 to 43.7 % and 997 juvenile / 250g soil at Barathrami village (Gudiyattam)	Assessment of biological control of nematode in tomato	5	Integrated Pest and Disease Management	Nematode load in soil (No. of nematodes/250g of soil)  Nematode load in root (Gall Index)  BCR	Number  numbers	129  26  2.08	100  8  2.78	107  13  2.39	Application of Carbofuran 3G resulted in visibly reduced nematode counts (Gall Index) in plant root.	-	-

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 : Application of FYM + Neemcake	Farmer's practice	228	q/ha	63169	2.08
Technology option 2; Application of carbofuran 3G @ 1kg a.i./ha.	TNAU	291	q/ha	113930	2.78
Technology option 3: Soil application of Paecilomyces lilacinus	IIHR, Bangalore	269	q/ha	86116	2.39



**Results of On Farm Trial 6**

Crop/enterprise	Farmin g situation	Problem definitio n	Title of OFT	No. of trial s	Technology Assessed	Parameter s of assessment	Data on the paramet er	Results of assessment			Feedback from the farmer	Any refine ment needed	Justificat ion for refineme nt
								I	II	III			
1	2	3	4	5	6	7	8	10	11	12			
Tomato	Irrigated	Low yield due to the lack of location specific hybrids and leaf curl disease (33%)	Assessing the performanc e of tomato hybrids for tomato Leaf Curl Virus	7	Option -I Tomato hybrid Lakshmi  Option- II : Tomato hybrid COTH 3  Option-III : Tomato hybrid Arka	Yield  disease incidence  Days to 50 % flowering	q/ha.  percentage  days	538.6  46.6  2.76	624.1  25.8  3.13	703  14.6  3.46	Obtained highest yield from ArkaRakshak hybrid due to the resistance against tomato leaf curl virus disease. The crop growth was normal and there was no bronzing symptom in the field.	-	-

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 : Private (Lakshmi)	Farmer's practice	538.6	q/ha	278937.14	2.76
Technology option 2; COTH3 seeds	TNAU	624.1	q/ha	298503.71	3.13
Technology option 3: Arka Rakshak	IIHR, Bangalore	703	q/ha	399630.57	3.46

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

**On Farm Trial – 1**

1	Title of the technology assessed	:	Assessment of Horsegram variety CRIDA 18 R
2	Problem Definition		Low productivity and the yield gap is 27 to 32%
3	Details of technologies selected for assessment	:	<b><u>Option:1</u></b> Farmers Practice (Paiyur 2) <b><u>Option :2</u></b> CRIDA 18R
4	Source of technology	:	ICRISAT, Hyderabad
5	Production system and thematic area	:	Crop production
6	Performance of the Technology with performance indicators	:	1. No.of pods /plant 2. Yield (q/ha.) 3. BCR
7	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	:	The periodical field visit was made in the trial. The pod setting stage, it was obviously observed that the no of pods and size of the pods significantly better than Paiyur 2 variety.
8	Final recommendation for micro level situation	:	Seeds 4 kgs, Seed @ 20 kg/ha Rhizobium @ 200g/ha Phosphobacterium @200g/ha
9	Constraints identified and feedback for research	:	CRIDA 18R gave more pods and more yield than the local variety
10	Process of farmers participation and their reaction	:	Field visit and group discussion. Off campus training. Farmers easily adopted the variety since drought tolerant.

**On Farm Trial – 2**

1	Title of Technology Assessed	:	Assessment of redgram hybrid ICPH 2740 in Vellore District
2	Problem Definition	:	Low productivity and more flower drop in LRG 41 and admixtures
3	Details of technologies selected for assessment	:	ICPH 2740 seeds 35 kgs
4	Source of technology	:	ICRISAT, Hyderabad
5	Production system and thematic area	:	Crop production
6	Performance of the Technology with performance indicators	:	1. Yield 2. Average no.of pods /plant 3. No.of seeds /pod
7	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	:	Group discussion, Trainings and method demonstrations
8	Final recommendation for micro level situation	:	ICPH 2740 hybrid red gram is not suitable for drought situation under rainfed condition in Vellore District.
9	Constraints identified and feedback for research	:	ICPH 2740 hybrid red gram is not suitable for drought situation under Kharif rainfed condition in Vellore District.
10	Process of farmers participation and their reaction	:	Farmer expressed that ICPH 2740 hybrid did not withstand severe drought. Crop was saved by limited irrigation during pod setting stage.

### On Farm Trial – 3

1	Title of Technology Assessed	:	Assessment of varieties suitable for Bacterial Leaf Blight disease resistance in rice
2	Problem Definition	:	Severe BLB incidence
3	Details of technologies selected for assessment	:	Samba Masuri seeds, ADT 49 seeds and ZnSO <sub>4</sub>
4	Source of technology	:	DRR, Hyderabad
5	Production system and thematic area	:	Irrigated, Integrated Disease management
6	Performance of the Technology with performance indicators	:	The yield of Improved Samba Masuri rice variety is higher than other varieties and disease incidence is low.
7	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	:	Consumer preference of improved samba Masuri is at par with BPT 5204.
8	Final recommendation for micro level situation	:	Since Samba Masuri rice variety effective against bacterial leaf blight so it is recommended for Vellore District.
9	Constraints identified and feedback for research	:	Non availability of seeds and fine grain varieties on par with BPT 5204 may be evolved.
10	Process of farmers participation and their reaction	:	Trainings and group discussion was conducted. In the beginning the farmers were shown reluctance for taking new variety. Then it was explained the varietal features and also its importance. Then the farmers came forward to adopt the trial.

#### On Farm Trial – 4

1	Title of Technology Assessed	:	Assessment of Bio-control agents for the management of Groundnut root rot
2	Problem Definition	:	Higher incidence of soil borne disease 37 -42 % . The inoculum load in soil is $3 \times 10^{-6}$
3	Details of technologies selected for assessment	:	<p><b>Option 1</b> Farmers practices</p> <p><b>Option 2</b> b) Spot drenching with carbendazim @ 1g/lit</p> <p><b>Option 3</b> a) Seed treatment with <i>T. viride</i> @ 4g/kg of seed <i>P. fluorescens</i> b) Soil application of <i>P. fluorescens</i> @ 2.5kg /ha mixed with 50 kg of decomposed FYM /sand at 30 DAS</p>
4	Source of technology	:	TNAU
5	Production system and thematic area	:	Integrated Disease management
6	Performance of the Technology with performance indicators	:	<ol style="list-style-type: none"> <li>1. Disease incidence,</li> <li>2. yield and</li> <li>3. BCR</li> </ol>
7	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	:	<p>The application method of biocontrol agents were taught to the farmers along with Farm Yard manure. The feedback was collected at three different stages.</p> <p>The maximum disease incidence was higher during the early stage and pod maturity stage. The rainfall was favored the root rot disease incidence. The adopted farmers stated that the application of bio control agents along with earthing up operation was found to be effective for the management of Ground nut root rot and other soil borne diseases like <i>Sclerotium rolfsii</i>. The earthing up operation favored the multiplication of biocontrol agents in rhizosphere region.</p>
8	Final recommendation for micro level situation	:	Seed treatment with <i>T. viride</i> @ 4 g/kg + Soil application of of <i>P. fluorescens</i> and <i>T. viride</i> @ 2.5 kg/ha with 50 kg FYM 25- 30 DAS followed by earthing up operation was found to be effective for the management of groundnut root rot disease.
9	Constraints identified and feedback for research	:	The delivery system of biocontrol agents has to be studied.
10	Process of farmers participation and their reaction	:	The group discussion was conducted in KVK and explained the importance of biocontrol agents. The on campus training and followed by periodical field visit along with line Department, Assistant Director of Agriculture participation helped to reach the technology reach. Then the farmers were shown the interest in the technology adoption.

### On Farm Trial – 5

1	Title of Technology Assessed	:	Assessment of biological control of nematode in tomato
2	Problem Definition	:	Crop and yield loss due to nematode damage 25.7 to 43.7 % and 997 juvenile / 250 g soil
3	Details of technologies selected for assessment	:	<p><b><u>Option: 1</u></b> Application of FYM + Neemcake</p> <p><b><u>Option: 2</u></b> Application of carbofuran 3G @ 1kga.i./ha.</p> <p><b><u>Option: 3</u></b> Soil application of <i>Paecilomyces lilacinus</i></p>
4	Source of technology	:	TNAU
5	Production system and thematic area	:	Integrated Disease management
6	Performance of the Technology with performance indicators	:	<p>1.Gall index</p> <p>2. Nematode count</p> <p>3.BCR</p>
7	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	:	Application of Carboduran 3G resulted in visibly reduced nematode counts (Gall Index) in plant root
8	Final recommendation for micro level situation	:	Application of Carbofuran 3G resulted in visibly reduced nematode counts (Gall Index) in plant root
9	Constraints identified and feedback for research	:	Farmers gained knowledge on nematode and opined that the after application of Carbofuran 3G, the nematode count was very less
10	Process of farmers participation and their reaction	:	Training in KVK and one to one inter action, field visit and group discussion and Off campus training.

**On Farm Trial – 6**

1	Title of Technology Assessed	:	Assessing the performance of tomato hybrids for tomato Leaf Curl Virus
2	Problem Definition	:	Low yield due the lack of location specific hybrids and leaf curl disease
3	Details of technologies selected for assessment	:	Tomato hybrid <i>Arka rakshak</i>
4	Source of technology	:	IIHR, Bangalore
5	Production system and thematic area	:	Integrated crop management
6	Performance of the Technology with performance indicators	:	Leaf curl virus disease incidence is low in Arka Rakshak hybrid. Compared to other hybrids.
7	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	:	Arka Rakshak hybrid performed well with respect to leaf curl virus. Realized the highest yield from the hybrids with increased fruit weight and fruit number.
8	Final recommendation for micro level situation	:	Arka rakshak hybrid recorded highest yield and less leaf curl disease incidence
9	Constraints identified and feedback for research	:	Arkarakshak hybrid performed well with respect to leaf curl virus
10	Process of farmers participation and their reaction	:	Field visit, group discussion and Off campus training. The hybrid variety performance surprised the farmers yield than variety.

#### 4.D1. Results of Technologies Refined

##### Results of On Farm Trial

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

##### 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)	-	-	-	-	-



## PART V - FRONTLINE DEMONSTRATIONS

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

S. No	Category	Farming Situation	Season and Year	Crop	Variety/breed	Hybrid	Thematic area	Technology Demonstrated	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
									Proposed	Actual	SC/ST	Others	Total	
	Oilseeds													
1	Groundnut	Rainfed	Kharif 2014	Groundnut	Kadiri 9	-	Integrated Crop Management	Demonstration of groundnut variety Kadiri 9	4	4	-	10	10	-
2	Groundnut	Rainfed	Kharif 2014	Groundnut	TMV 7	-	Integrated Crop Management	Demonstration of Methylobacterium - (PPFM) for Groundnut crop for drought mitigation.	8	8	-	10	10	-
	Pulses													
3	Black gram	Rainfed	Kharif 2014	Black gram	MDU 1	-	Crop Production	Demonstration of Blackgram variety MDU 1	8	8	-	20	20	-
	Cereals													
4	Maize	Irrigated	Rabi 2014	Maize	-	Hybrid CO 6	Crop Production	Demonstration of TNAU Maize hybrid CO 6	4	4	-	10	10	-
	Millets													
5	Ragi	Irrigated	Rabi 2014	Ragi	Ragi CO 15	-	Crop Production	Demonstration of ragi variety CO 15 in Vellore District	4	4	-	10	10	-
6	Samai	Rainfed	Kharif 2014	Samai	CO4	-	Crop Production	Demonstration of CO4 samai	4	4	10	-	10	-

S. No	Category	Farming Situation	Season and Year	Crop	Variety/breed	Hybrid	Thematic area	Technology Demonstrated	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
									Proposed	Actual	SC/ST	Others	Total	
	Vegetables													
7	Chilli	Irrigated	Rabi 2014	Chilli	-	TNAU chilli hybrid CO 1	Crop improvement	Demonstration of growth regulator and micro nutrient application in Chilli	2	2	1	4	5	-
8	Tomato	Limited irrigation	Rabi 2014	Tomato	Bangalora	-	Crop improvement	Demonstration of management techniques for hoppers in mango	4	4	-	5	5	
	Flowers													
9	Jasmine	Irrigated	Rabi 2014	Jasmine	Ramanathapuram local	-	Crop Production	Demonstration of foliar nutrition in jasmine for improving the flower quality	2	2	2	3	5	-
	Ornamental													
	Fruit													
	Spices and condiments													
	Commercial													
	Medicinal and aromatic													

S. No	Category	Farming Situation	Season and Year	Crop	Variety/breed	Hybrid	Thematic area	Technology Demonstrated	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
									Proposed	Actual	SC/ST	Others	Total	
10	Fodder	Rainfed	Khari f 2014	Fodder Sorghum	Variety fodder sorghum CO 31	-	Fodder Crop	Demonstration of Multi cut fodder sorghum CO 31	4	4	4	6	10	-
	Plantation													
	Fibre													
	Dairy													
	Poultry													
	Rabbitry													
11	Piggery	Irrigated	Rabi 2014	Groundnut	-	-	Wild boar control	Demonstration on wild boar control management with ECODON	4	4	5	5	10	-
	Sheep and goat													
	Duckery													
	Common carps													
	Ornamental fishes													
	Oyster mushroom													
	Button mushroom													
	Milky mushroom													
	Vermicompost													

S. No	Category	Farming Situation	Season and Year	Crop	Variety/breed	Hybrid	Thematic area	Technology Demonstrated	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
									Proposed	Actual	SC/ST	Others	Total	
	Implements													
12	Groundnut	Rainfed	Kharif 2014	Groundnut	-	-	Farm Mechanization	Demonstration on mechanization in groundnut	4	4	1	9	10	-
	Others (specify)													
13	Integrated Farming System	-	2013 - 2014	Fodder Maize Goat Poultry	CO(CN) 4 Velimasal Agathi Thelicherry goat Namakkal Desi Chicken TNAU maize hybrid Co6	-	Integrated farming System	Integrated farming System	3 units	3 units		3	3	-

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

S. No	Category	Farming Situation	Season and Year	Crop	Variety/breed	Hybrid	Thematic area	Technology Demonstrated	Season and year	Status of soil			Previous crop grown
										N	P	K	
	Oilseeds												
1	Groundnut	Rainfed	Kharif, 2014	Groundnut	Kadiri 9	-	Integrtaed crop management	Demonstration of groundnut variety Kadiri 9	Kharif, 2014	Low	Medium	Medium	Groundnut
2	Groundnut	Rainfed	Kharif, 2014	Groundnut	TMV 7	-	Integrtaed crop management	Demonstration of methylobacterium – (PPFM) for Groundnut crop for drought mitigation	Kharif, 2014	Low	Medium	Medium	Groundnut
	Pulses												
3	Black gram	Rainfed	Kharif2014	Black gram	MDU1		Crop Production	Demonstration of Blackgram variety MDU 1	Kharif, 2014	Low	Low	Medium	Groundnut
	Cereals												
4	Maize	Irrigated	Rabi 2014	Maize	-	CO 6	Crop Production	Demmonstration of TNAU maize hybrid CO 6	Rabi 2014	Low	Low	Medium	Paddy
	Millets												
5	Ragi	Irrigated	Rabi 2014	Ragi	CO 15	-	Crop Production	Demonstration of ragi variety CO 15 in Vellore district	Rabi 2014	Low	Medium	Low	Ragi
6	Samai	Rainfed	Kharif2014	Samai	CO 4	-	Crop Production	Demonstration of CO 4 samai	Kharif2014	Low	Medium	High	Samai

S. No	Category	Farming Situation	Season and Year	Crop	Variety/breed	Hybrid	Thematic area	Technology Demonstrated	Season and year	Status of soil			Previous crop grown
										N	P	K	
	Vegetables												
7	Chilli	Irrigated	Rabi 2014	Chilli	-	TNAU Chilli hybrid CO 1	Crop improvement	Demonstration of growth regulator and micro nutrient application in Chilli	Rabi 2014	Low	Low	Medium	Chilli
8	Tomato	Limited irrigation	Rabi 2014	Tomato	Bangalora	-	Crop improvement	Demonstration of management techniques for hoppers in mango	Rabi 2014	Low	Low	Medium	Mango
	Flowers												
9	Jasmine	Irrigated	Rabi 2014	Jasmine	Ramanathapuram local	-	Crop Production	Demonstration of foliar nutrition in jasmine for improving the flower quality	Rabi 2014	Low	Low	Medium	flower
	Ornamental												
	Fruit												
	Spices and condiments												
	Commercial												
	Medicinal and aromatic												

S. No	Category	Farming Situation	Season and Year	Crop	Variety/breed	Hybrid	Thematic area	Technology Demonstrated	Season and year	Status of soil			Previous crop grown
										N	P	K	
10	Fodder	Rainfed	Kharif 2014	Fodder Sorghum	CO 31	-	Fodder Crop	Demonstration of multicut fodder Sorghum variety CO 31	Kharif 2014	Low	Medium	High	Groundnut
	Plantation												
	Fibre												
11	Farm Mechanization	Rainfed	Kharif 2014	Groundnut	-	-	Farm Mechanization	Demonstration on mechanization in groundnut	Kharif 2014	Low	Low	Medium	Groundnut
12	Wild boar	Irrigated	Rabi 2014	Groundnut	-	-	Wild boar	Demonstration on wild boar control management with ECODON	Rabi 2014	Low	Low	Medium	Groundnut
13	IFS	Rainfed	2014-15	Fodder Maize Goat Poultry	-	-	Integrated farming System		2014-15	Low	Low	Medium	Fodder maize

## 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																				
Groundnut	Demonstration of groundnut variety Kadiri 9	Kadiri 9	-	Rainfed	10	4	17.6	15.0	16.3	10.75	51.6	18260	44767	26507	2.5	16560	30100	13540	1.8	
Groundnut	Demonstration of methylobacterium – (PPFM) for Groundnut crop for drought mitigation	TMV 7	-	Rainfed	10	4	1683	1355	1460	845	72.78	20120	40885	20765	2.03	17560	23671	6111	1.3	
Pulses																				
Black gram	Demonstration of Blackgram variety MDU 1	MDU 1	-	Irrigated	20	8	667.5	335	501.25	632	-20.68	18250	33965	15715	1.9	20500	41201	20700	2.0	
Cereals																				
Maize	Demmonstration of TNAU maize hybrid CO 6	-	TNAU CO 6	Irrigated	10	4	59.1	49.1	54.1	52.04	3.96	39597	64968	30372	1.64	35190	62448	27258	1.77	
Millets																				
Ragi	Demonstration of ragi variety CO 15 in Vellore district	CO 15	-	Irrigated	10	4	32	22	24.5	15.8	55	10375	25357.5	14982.5	2.44	9540	16089	6549	1.7	
Samai	Demonstration of CO 4 samai	CO 4	-	Limited irrigation	10	4	6.6	4.9	5.5	3.61	52.3	4500	9937	5437	2.22	3246	5674	2428	1.74	
Vegetables																				
Chilli	Demonstration of growth regulator and micro nutrient application in Chilli	-	TNAU Chilli Hybrid CO1	Irrigated	5	2.5	259	243	250	191.4	30.6	144230	375000	230770	2.60	136785	287250	150465	2.10	
Flowers																				
Jasmine	Demonstration of foliar nutrition in jasmine for improving the flower quality	Ramanathapuram local	-	Irrigated	10	4	59.75	51.25	55.68	39.75	40.07	160026.40	416250	256223	2.60	156907	297282.50	140375	1.89	
Ornamental																				



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	**	Gross Cost	Gross Return	Net Return	**
							H	L	A										
Fruit																			
Mango	Demonstration of management techniques for hoppers in mango	-	-	Limited Irrigated	5	4	235	161	209	132	58.3	27479	76380	25375	2.77	27479	52854	46148	1.92
Spices and condiments																			
Commercial																			
Fibre crops like cotton																			
Medicinal and aromatic																			
Fodder	Demonstration of multicut fodder Sorghum variety CO 31	CO 31	-	Rainfed	10	4	972	636	804	-	-	38976	117772	78796	3.03	-	-	-	-
Plantation																			
Fibre																			
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 – Highest Yield, L – Lowest Yield A – Average Yield

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

**Demonstration of groundnut variety Kadiri 9**

<b>Data on other parameters in relation to technology demonstrated</b>		
<b>Parameter with unit</b>	<b>Demo</b>	<b>Check ( Kadiri 9 )</b>
No. of plants / m2	24.5	15.8
Grain yield (q/ha.)	16.9	10.72
BCR	2.7	1.8

**Demonstration of methylobacterium – (PPFM) for Groundnut crop for drought mitigation**

<b>Data on other parameters in relation to technology demonstrated</b>		
<b>Parameter with unit</b>	<b>Demo</b>	<b>Check (TMV 7)</b>
Plant population (No/m2)	<b>22.9</b>	<b>14.9</b>
No.of pods (Nos /plant.)	12.3	8.4

**Demonstration of Blackgram variety MDU 1**

<b>Data on other parameters in relation to technology demonstrated</b>		
<b>Parameter with unit</b>	<b>Demo</b>	<b>Check ( MDU 1 )</b>
YMV disease incidence (%)	40.46	4.73
No.of pods /plant	33.75	42.2

**Demonstration of ragi variety CO 15 in Vellore district**

<b>Data on other parameters in relation to technology demonstrated</b>		
<b>Parameter with unit</b>	<b>Demo</b>	<b>Check ( CO 15 )</b>
No.of plant /m2	24.5	15.8
Yield (q/ha.)	16.9	10.72
BCR	2.7	1.8

**Demonstration of CO 4 samai**

<b>Data on other parameters in relation to technology demonstrated</b>		
<b>Parameter with unit</b>	<b>Demo</b>	<b>Check (CO 4)</b>
Plant population ( m2)	36.8	42.5
Yield (q/ha.)	5.77	3.61
BCR	2.22	1.74

**Demonstration of management techniques for hoppers in mango**

Data on other parameters in relation to technology demonstrated			
Parameter with unit	Demo		Check
Pest incidence (%)	5.92		18.20
Yield (q/ha.)	191		132
BCR	2.52		1.92

**Demonstration of foliar nutrition in jasmine for improving the flower quality**

Data on other parameters in relation to technology demonstrated			
Parameter with unit	Demo		Check
Yield (q/ha.)	55.68		39.75
Shelf life (hrs.)	30		28
BCR	2.59		1.87

**5.B.2. Livestock and related enterprises**

Type of livestock	Name of the technology demonstrated	Breed	No. of Demo	No. of Units	Yield (q/ha)			% Increase	*Economics of demonstration (Rs./unit)				*Economics of check (Rs./unit)					
					Demo				Check if any	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR	
					H	L	A											
Dairy																		
Poultry																		
Rabbitry																		
Pigerry																		
Sheep and goat																		
Duckery																		
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

### 5.B.3. Fisheries

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

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	Demonstration on wild boar control management with ECODON	-	10	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Others (pl.specify)	Integrated Farming System	Goat - Thelicherry - 10 Poultry- Namakkal Desi Chicken - 300 Fodder maize CO 6 -3kgs Velimasal - 1kg	3	3 units	42503	40861	41865	15309	173.46	24772	66637	41865	2.7	101076	116385	15309	1.15

\* 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

#### Demonstration on wild boar control management with ECODON

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Local
Number of days the crop protected from wild boar (no.of days)	15.8	2.2
ECODON application cost /ha. (Rupees)	1650	380
Wild boar damage assessed in %	-	21

### Integrated Farming System

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
Net return	41865	15309
Employment generation	360	56
BCR	2.7	1.2

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

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 Man days		% save	Savings in labour cost (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
Seed drill and Dryland weeder	Rs.1.2 lakhs	Demonstration on mechanization in groundnut	10	4	28	-	29.47	1650	20875	41320	20445	2.0	29050	41600	12550	1.43

\* 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.)

#### Demonstration on mechanization in groundnut

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Local
Number of labours saved over manual operations(nos.)	28	-
Saving in cost over manual operation(%)	38.82	-
Saving in mandays over manual operation (%)	29.47	-

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

S.No.	Activity	No. of activities organized	Number of participants	Remarks
1	Field days			
2	Farmers Training	11	285	Training given on improved technologies in fodder Improved production technologies in maize Improved production technologies in chilli and Improved production technologies in tomato
3	Media coverage	-	-	-
4	Training for extension functionaries	2	100	-
5	Others (Please specify)	-	-	-

**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										
<b>Cereals</b>																	
Bajra																	
Maize	Demonstration of TNAU Maize hybrid CO 6	TNAU Maize hybrid CO 6	10	4	59.1	49.1	54.1	52.04	3.96	39597	64968	30372	1.64	35190	62448	27258	1.77
Paddy																	
Sorghum																	
Wheat																	
Others (pl.specify)																	
<b>Total</b>																	
<b>Oilseeds</b>																	
Mustard																	
Safflower																	
Sesame																	
Sunflower																	
Groundnut																	
Soybean																	
Others (pl.specify)																	
<b>Total</b>																	
<b>Pulses</b>																	
Greengram																	
Blackgram																	
Bengalgram																	
Redgram																	
Others (pl.specify)																	
<b>Total</b>																	
<b>Vegetable crops</b>																	
Bottle gourd																	
Capsicum																	
Others																	
<b>Total</b>																	

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											
Cucumber																		
Tomato																		
Chilli	Demonstration of growth regulator and micro nutrient application in chilli	TNAU Chilli hybrid CO 1	5	2.5	259	243	250	191.4	30.6	144230	375000	230770	2.60	136785	287250	150465	2.10	
Okra																		
Onion																		
Potato																		
Field bean																		
Others (pl.specify)																		
<b>Total</b>																		
<b>Commercial crops</b>																		
Sugarcane																		
Coconut																		
Others (pl.specify)																		
<b>Total</b>																		
<b>Fodder crops</b>																		
Maize (Fodder)																		
Sorghum (Fodder)																		
Others (pl.specify)																		
<b>Total</b>																		

H-High L-Low, A-Average

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

**Demonstration of TNAU Maize hybrid CO 6**

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
No. of kernals /cob	436.4	410
Cob length in cm	21.2	18.90



**Demonstration of growth regulator and micro nutrient application in chilli**

<b>Data on other parameters in relation to technology demonstrated</b>		
<b>Parameter with unit</b>	<b>Demo</b>	<b>Check</b>
Yield (q/ha.)	250.00	191.4
No.of fruits /plant (nos.)	145	98
Plant height (cm)	85	76

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

**PART VII. TRAINING**

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
<b>Crop Production</b>	3	67	2	69	6	0	6	73	2	75
Weed Management										
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/Irrigation										
Seed production										
Nursery management										
Integrated Crop Management										
Soil and Water Conservation										
Integrated Nutrient Management										
Production of organic inputs										
Others (pl.specify) VAM production technology	1	0	12	12	0	3	3	12	3	15
<b>Horticulture</b>										
<b>a) Vegetable Crops</b>										
Production of low value and high volume crop										
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl.specify) Cultivation of Vegetables										
<b>b) Fruits</b>										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit										
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (pl.specify) Management of pest and disease in mango	1	16	6	22	2	1	3	18	7	25



Animal Nutrition Management										
Animal Disease Management										
Feed and Fodder technology	1	15	6	21	4	0	4	19	6	25
Production of quality animal products										
Others (pl.specify)										
<b>Home Science/Women empowerment</b>										
Household food security by kitchen gardening and nutrition gardening										
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing										
Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition										
Women empowerment										
Location specific drudgery production										
Rural Crafts										
Women and child care										
Others (pl.specify)										
<b>Agril. Engineering</b>										
Farm machinery and its maintenance	1	19	2	21	3	0	3	22	2	24
Installation and maintenance of micro irrigation systems	1	23	2	25	1	2	3	24	4	28
Use of Plastics in farming practices										
Production of small tools and implements										
Repair and maintenance of farm machinery and implements	1	22	2	24	0	2	2	22	4	26
Small scale processing and value addition										
Post Harvest Technology										
Others (pl.specify)										
<b>Plant Protection</b>										
Integrated Pest Management	1	32	7	39	1	0	1	33	7	40
Integrated Disease Management	1	12	24	36	0	0	0	12	24	36
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others (pl.specify)										
<b>Fisheries</b>										
Integrated fish farming										
Carp breeding and hatchery management										
Carp fry and fingerling rearing										

Composite fish culture										
Hatchery management and culture of freshwater prawn										
Breeding and culture of ornamental fishes										
Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
Others (pl.specify)										
<b>Production of Inputs at site</b>										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production										
Organic manures production	1	1	21	22	0	3	3	1	24	25
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	2	42	40	82	14	3	17	56	43	99
Apiculture										
Others (Production of Spirulina)										
<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>14</b>	<b>249</b>	<b>124</b>	<b>373</b>	<b>31</b>	<b>14</b>	<b>45</b>	<b>292</b>	<b>126</b>	<b>418</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>	1	20	2	22	3	0	3	23	2	25
Weed Management										
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/Irrigation										
Seed production										
Nursery management										
Integrated Crop Management										
Soil and Water Conservation										
Integrated Nutrient Management										
Production of organic inputs										
Others (pl.specify)										
<b>Horticulture</b>										
<b>a) Vegetable Crops</b>										
Production of low value and high volume crop										
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization	1	48	1	49	1	0	1	49	1	50
Protective cultivation	1	25	0	25	0	0	0	25	0	25
Others (pl.specify) Improved production technologies for jasmine	1	23	7	30	0	0	0	23	7	30
<b>b) Fruits</b>										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit	1	19	6	25	0	0	0	19	6	25
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (pl.specify)										
<b>c) Ornamental Plants</b>										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
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										
Production and management technology										
Post harvest technology and value addition										
Others (pl.specify)										
<b>Soil Health and Fertility Management</b>										
Soil fertility management										
Integrated water management										
Integrated nutrient management										
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient use efficiency										
Balanced use of fertilizers										
Soil and water testing										
Others (pl.specify)										
<b>Livestock Production and Management</b>										
Dairy Management										
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
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										
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing										
Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition										
Women empowerment										
Location specific drudgery production										
Rural Crafts										
Women and child care										
Others (pl.specify)										
<b>Agril. Engineering</b>										
Farm machinery and its maintenance										
Installation and maintenance of micro irrigation systems										
Use of Plastics in farming practices										
Production of small tools and implements										
Repair and maintenance of farm machinery and implements										
Small scale processing and value addition										
Post Harvest Technology										
Others (pl.specify)										
<b>Plant Protection</b>										
Integrated Pest Management	1	23	0	23	2	0	2	25	0	25
Integrated Disease Management										
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others (pl.specify)										
<b>Fisheries</b>										
Integrated fish farming										
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture										
Hatchery management and culture of freshwater prawn										
Breeding and culture of ornamental fishes										



Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
Others (pl.specify)										
<b>Production of Inputs at site</b>										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production										
Organic manures production										
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										
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>6</b>	<b>158</b>	<b>16</b>	<b>174</b>	<b>6</b>	<b>0</b>	<b>6</b>	<b>164</b>	<b>16</b>	<b>180</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										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production	1	28	22	50	0	0	0	28	22	50
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production	1	7	20	27	4	6	10	11	26	37
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
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>2</b>	<b>35</b>	<b>42</b>	<b>77</b>	<b>4</b>	<b>6</b>	<b>10</b>	<b>39</b>	<b>48</b>	<b>87</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										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production	5	185	0	185	0	0	0	185	0	185
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
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>5</b>	<b>185</b>	<b>0</b>	<b>185</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>185</b>	<b>0</b>	<b>185</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	109	9	118	15	2	17	124	11	135
Participatory impact monitoring and Assessment	1	22	8	30	0	0	0	22	8	30
Integrated Pest Management										
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
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										
Livestock feed and fodder production										
Household food security										
Any other (pl.specify)										
Farm Mechanization in paddy cultivation										
Application of solar energy in Agriculture										
<b>Total</b>	<b>2</b>	<b>131</b>	<b>17</b>	<b>148</b>	<b>15</b>	<b>2</b>	<b>17</b>	<b>146</b>	<b>19</b>	<b>165</b>

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Integrated Pest Management										
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
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										
Livestock feed and fodder production										
Household food security										
Any other (pl.specify)										
<b>Total</b>										

### 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	
<b>1</b>	<b>Crop production and management</b>											
1.a.	Increasing production and productivity of crops											
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)</b>											
<b>7</b>	<b>Post harvest technology and value addition</b>											
7.a.	Processing and value addition											
7.b.	Others (NADP- SSI farmers training)*	50	858	132	990	-	-	-	858	132	990	
<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											
12.b	Others (pl.specify)											
	<b>Total</b>	<b>50</b>	<b>858</b>	<b>132</b>	<b>990</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>858</b>	<b>132</b>	<b>990</b>	

Details of sponsoring agencies involved

\* Government of Tamilnadu - NADP

**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	
<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.e.	Organic farming											
1.f.	Others (pl.specify)											
<b>2</b>	<b>Post harvest technology and value addition</b>											
2.a.	Value addition											
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											
4.b.	Production of bio-agents, bio-pesticides, bio-fertilizers etc.											
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											
4.h.	Nursery, grafting etc.											
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>											

## 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	11	148	56	204	49	11	60	23	4	27
Kisan Mela	1	852	148	1000	-	-	-	-	-	-
Kisan Ghosthi	-	-	-	-	-	-	-	-	-	-
Exhibition	07	26148	1553	27701	-	-	-	89	13	102
Film Show	42	756	286	1042	263	56	319	106	59	165
Method Demonstrations	49	324	47	371	-	-	-	4	-	4
Farmers Seminar	-	-	-	-	-	-	-	-	-	-
Workshop	-	-	-	-	-	-	-	-	-	-
Group meetings	-	-	-	-	-	-	-	-	-	-
Lectures delivered as resource persons	25	649	159	808	32	14	46	26	7	33
Newspaper coverage	10	Mass								
Radio talks	-	-	-	-	-	-	-	-	-	-
TV talks	-	-	-	-	-	-	-	-	-	-
Popular articles	6	-	-	-	-	-	-	-	-	-
Extension Literature	-	-	-	-	-	-	-	-	-	-
Advisory Services	750	652	98	750	-	-	-	-	-	-
Scientific visit to farmers field	82	182	17	199	14	6	20	-	-	-
Farmers visit to KVK	571	552	19	571	-	-	-	-	-	-
Diagnostic visits	48	157	28	185	15	08	23	4	3	7
Exposure visits	1	25	-	25	-	-	-	-	-	-
Ex-trainees Sammelan	-	-	-	-	-	-	-	-	-	-
Soil health Camp	-	-	-	-	-	-	-	-	-	-
Animal Health Camp	1	25	-	25	-	-	-	-	-	-
Agri mobile clinic	-	-	-	-	-	-	-	-	-	-
Soil test campaigns	-	-	-	-	-	-	-	-	-	-
Farm Science Club Conveners meet	-	-	-	-	-	-	-	-	-	-
Self Help Group Conveners meetings	-	-	-	-	-	-	-	-	-	-
Mahila Mandals Conveners meetings	-	-	-	-	-	-	-	-	-	-
Farmers Field School (specify)	1	28	2	30	0	0	0	6	2	8
Any Other (Specify) Advisory Services (Over phone)	179	165	14	179	-	-	-	-	-	-
Zonal workshop	8	-	-	-	-	-	-	249	138	387
<b>Total</b>	<b>1792</b>	<b>30636</b>	<b>2427</b>	<b>33090</b>	<b>373</b>	<b>95</b>	<b>468</b>	<b>507</b>	<b>226</b>	<b>733</b>



## 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)						
Millets						
Oilseeds						
Pulses						
	Blackgram	VBN 6	-	1.22	8540	31
	Horsegram	Local variety	-	0.22	904.4	5
	Redgram		ICPH 2740	0.35	5600	7
Commercial crops						
Vegetables						
Flower crops						
Spices						
Fodder crop seeds						
Fiber crops						
Forest Species						
Others (specify)						
<b>Total</b>				<b>1.79</b>	<b>15044.4</b>	<b>43</b>

### 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
Commercial						
Vegetable seedlings						
Fruits	Papaya seedlings	Local	-	10	100	2
Ornamental plants						
Medicinal and Aromatic						
Plantation						
Spices						
Tuber						
Fodder crop saplings						
Forest Species						
Others(specify)						
<b>Total</b>				<b>10</b>	<b>100</b>	<b>2</b>

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

Bio Products	Name of the bio-product	Quantity Kg	Value (Rs.)	Number of farmers to whom provided
Bio Fertilizers				
Bio-pesticide				
Bio-fungicide				
Bio Agents				
Others (specify)	Mushroom Spawn production	328 nos	9840	30
<b>Total</b>		<b>328</b>	<b>9840</b>	<b>30</b>

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

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	Number of farmers to whom provided
<b>Dairy animals</b>				
Cows				
Buffaloes				
Calves				
Others (Pl. specify)				
<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>				

**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.)

(B) Literature developed/published

<b>Item</b>	<b>Title</b>	<b>Authors name</b>	<b>Number</b>
Research papers	Influence of poultry wastes composts on the growth and yield attributes of maize	Prasanthrajan, M. P. Doraisamy, M. Pandiyan and K.P. Sivakumar	1
	Influence of poultry composts on growth and yield attributes of sunflower.	Prasanthrajan, M. P. Doraisamy, M. Pandiyan and K.P. Sivakumar	1
	Effect of Water soluble and Conventional Fertilizers on growth and yield of Chillies	V Krishnamoorthy and Noorjehan A K A Hanif	1
	Sustainable Sugarcane Technologies - Experiences in TN IAMWARM Project	Senthilkumar,M, A. Suganthi, M. Pandiyan, and B. J. Pandiyan.	1
	Participatory need based extension through WhatsApp for Effective and Efficient sharing of Technology	Senthilkumar,M, M. Pandiyan, A. Suganthi and B. J. Pandiyan.	1
	Influence of time of sowing on stem fly infestation in black gram at Vellore Dt. of Tamil Nadu	Suganthi, A. N. Swarnakumari, M. Pandiyan and P. Sridhar	1
	Mulching and bio drenching strategies for the management of watermelon bud necrosis virus	Sendhilvel, V., Suganthi, A., Pandiyan, M., Karthikeyan, G., Raguchander, T., Rabindran, R	1
	Delivery of liquid Pseudomonas fluorescens through drip system for the management of sugarcane redrot disease	Sendhilvel, V., Nanthakumar, S., Anbumani, S., Pandiyan, M and Raguchander,	1
	Predisposing of Banana to head rot disease caused by Erwinia carotovora sub. sp. carotovora under higher temperature in Vellore District	Sendhilvel, V. and Pandiyan, M	1
	Challenges of soil borne pathogens and biocontrol agents, a dreadful competition for healthy crop.	Sendhilvel, V., Pandiyan, M., Suganthi, M.Nakkeeran, S. and Raguchander	1
	Assessment and popularization of livestock technologies for enhancing livelihoods of dairy farmers	Noorjehan A.K.A.Hanif, and R.P.Gnanamalar	1
	Abstract on Inheritance of Non-Spiny character in Spiny Brinjal.	Savitha. B.K., M. Pandiyan., N. Senthil and A.Gopikrishnan	1
	Abstract on Development of new blackgram and greengram plant types suitable for mechanical harvest	Pandiyan. M. N. Senthil, H. Vijayaragavan, B.K. Savitha and A. Gopikrishnan	1
	Abstract on Evolution and Evaluation of greengram genotypes for developing mungbean yellow mosaic virus resistance	Pandiyan. M. ,N. Senthil, P. Nagarajan, A. Gopikrishnan and R. Rajendren	1
Application of Logistic Growth Model for Groundnut VRI 2 as Influenced by Organic and Inorganic Fertilizers	Veeramani, P. K. Subrahmaniyan, M. Pandiyan and M. Prasanthrajan	1	
<b>TOTAL</b>			<b>15</b>

Item	Title	Authors name	Number
Technical reports	-	-	
News letters	-	-	
Technical bulletins	-	-	
Popular articles	Impact of TN IAMWARM Project in Improving the Livelihood of farmers	M.Senthilkumar, P. Sridhar, A. Suganthi, B.J. Pandian and C. Mohanraman.	1
	Management of stem fly in black gram	V.Sendhilvel, M.Pandiyan and A.Suganthi.	1
	Azolla : a wonderful cattle feed	M.Prasantharajan, A.Lakshmanan and M.Pandiyan	1
	Simple method of pit composting	M.Prasantharajan and M.Pandiyan	1
	Composting by effective microorganisms	M.Prasantharajan, M.Pandiyan and P.Sridhar	1
	Pandal type Vegetable cultivation by Precision Farming	B.K.Savitha, V.Rajasree and M.Pandiyan	1
	Groundnut cultivation techniques	P.Veeramani and M. Pandiyan	1
Extension literature	-	-	-
Others (Pl. specify)	-	-	-
Booklet	Sustainable Sugarcane Initiative Technologies	Dr.S.Joshua Davidson	6
Folder	Milky Mushroom production	Dr.V.Sendhilvel	6
Book	Production technology of minor millets	Baskaran, M., R. Jerlin, L, Alwin, N, Indira and Pandiyan. M.	1
<b>TOTAL</b>			<b>20</b>

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

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

**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).**

<b>Title of the Success Story</b>		<b>: Successful Hybrid Maize grower (Mr.Ganesan, Chennasamudram Village, Vellore District)</b>
Details of Success Story		:
1.	Background	: Progressive farmer, faced loss due to high cost of private maize hybrid seeds and showed interest in growing TNAU maize hybrids
2.	Intervention process	: FLD, Training and technical advisory services
3.	Intervention Technology	: Hybrid maize CO 6 of TNAU
4.	Impact Horizontal Spread	: Nearly 20 % of farmers started cultivation
5.	Impact Economic Gains	: Obtained yield of 6800 kg/ha. in less rainfall and net profit gain of Rs.58280/- per ha.
6.	Impact on Employment Generation	: Labour employed while using maize cob separators

<b>Title of the Success Story</b>		<b>: Green army – Custom hiring business of mechanical paddy transplanter in Vellore District ( Head of Green army : Mr.Sreenivasan)</b>
Details of Success Story		:
1.	Background	: Paddy cultivation is severely affected with problem of scarcity of labour in peak season, high labour wages, drudgery involved and more time for manual field operations.
2.	Intervention process	: Through Front line demonstrations, skill trainings, field demonstrations
3.	Intervention Technology	: Self propelled paddy transplanters, tray nursery raising machine planting, floating type paddy transplanter
4.	Impact Horizontal Spread	: 480 acres of machine transplanting done in four blocks viz, Walajah, Madhanur, Arcot and Timiri of Vellore district through 16 trained rural youth spread.
5.	Impact Economic Gains	: The group earned gross income of Rs. 29,45,000 @ Rs.3100/ac. and net income earned was Rs. 14,72,500.
6.	Impact on Employment Generation	: All the sixteen rural youth got employed

<b>Title of the Success Story</b>		:	<b>Success story on Papaya cultivation (Mr.Raja Reddy, Gundur village,Latheri, Vellore District</b>
Details of Success Story		:	
1.	Background	:	The proactive farmer used to grow banana in his field till 2009. But when he faced loss because of repeated loss of banana crop due to nature's vagaries, he looked for some other alternate crop and approached KVK, Vellore.
2.	Intervention process	:	FLD, Training and technical advisory services
3.	Intervention Technology	:	Improved production technologies in Papaya
4.	Impact Horizontal Spread	:	The farmer shared his experience with fellow farmers during KVK training programmes. Nearly 40 % of farmers started cultivation
5.	Impact Economic Gains	:	He harvests 200 kg of fruits/tree. On an average, he obtains a yield of 160 to 180 tonnes/ ha. The farmer gets an income of Rs.2,60,000/ acre/ annum.
6.	Impact on Employment Generation	:	He has also started papaya seedling production and labours were employed for seedling maintenance and field work

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

- Introduced "Taste and See" concept by involving farmers to operate farm Implements during the demonstrations
- Technologies in the form of video clippings disseminated through You Tube

S.No	Title of the technology	Duration of the technology (Seconds)
1	SRI power weeder	17
2	Driller	10
3	Power weeder	20
4	Sugarvane settcutter	12

- KVK Technology transfer activities disseminated to the public domain through face book

**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

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

- Identification of courses for farmers/farm women
- Skilled training to Rural Youth
- Demonstration to Extension personnel

**10.G. Field activities**

i.	Number of villages adopted	:	16
ii.	No. of farm families selected	:	163
iii.	No. of survey/PRA conducted	:	3

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

Status of establishment of Lab	:	Working in good condition
Year of establishment	:	24.09.2012
List of equipments purchased with amount		

Sl. No	Name of the Equipment	Qty.	Cost
1	Distillation unit	1	35000
2	KHAN SHAKER	1	20000
3	Hot air oven	1	17000
4.	Hot plate	1	7650
5	Willey mill	1	31500
6	Water bath rectangular	1	6970
7	Flame photometer	1	4350
8	Conductive meter	1	10890
9	Visible spectrophotometer	1	37600
10	Digital pH meter	1	5740
11	Hand held GPS	1	19965
12	Auto digestive system	1	107900
13	Automatic distillation system	1	175900
14	Portable water and soil analysis kit	1	53685
15	Multi parameter pocket tester	1	11250
16	Laboratory incubator	1	7900
<b>Total</b>		<b>16</b>	<b>553300</b>

**Details of samples analyzed during the 2014-15 :**

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)
<b>Soil Samples</b>	70	37	37	3500
<b>Water Samples</b>	79	48	48	3950
<b>Plant samples</b>	-	-	-	-
<b>Manure samples</b>	4	1	1	600
<b>Others (specify)</b>	-	-	-	-
<b>Total</b>	<b>153</b>	<b>86</b>	<b>86</b>	<b>8050</b>

**10.I. Technology Week celebration during 2013-14 :****No**

Period of observing Technology Week : From to  
 Total number of farmers visited :  
 Total number of agencies involved :  
 Number of demonstrations visited by the farmers within KVK campus :

Other Details

Types of Activities	No. of Activities	Number of Farmers	Related crop/livestock technology
Gosthies	-	-	-
Lectures organized	-	-	-
Exhibition	-	-	-
Film show	-	-	-
Fair	-	-	-
Farm Visit	-	-	-
Diagnostic Practical's	-	-	-
Supply of Literature (No.)	-	-	-
Supply of Seed (q)	-	-	-
Supply of Planting materials (No.)	-	-	-
Bio Product supply (Kg)	-	-	-
Bio Fertilizers (q)	-	-	-
Supply of fingerlings	-	-	-
Supply of Livestock specimen (No.)	-	-	-
Total number of farmers visited the technology week	-	-	-

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

## A. Introduction of alternate crops/varieties

State	Crops/cultivars	Area (ha)	Number of beneficiaries

## B. Major area coverage under alternate crops/varieties

Crops	Area (ha)	Number of beneficiaries
Oilseeds		
Pulses		
Cereals	Minor millet (fox tail millet, little millet )	112
Vegetable crops		
Tuber crops		
<b>Total</b>		

## C. Farmers-scientists interaction on livestock management

State	Livestock components	Number of interactions	No.of participants
<b>Total</b>			

## D. Animal health camps organized

State	Number of camps	No.of animals	No.of farmers
<b>Total</b>			



E. Seed distribution in drought hit states

State	Crops	Quantity (qtl)	Coverage of area (ha)	Number of farmers
<b>Total</b>				

F. Large scale adoption of resource conservation technologies

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

G. Awareness campaign : Bio pesticides awareness

State	Meetings		Gosthies		Field days		Farmers fair		Exhibition		Film show	
	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers
Tamil Nadu	2	184									2	184
<b>Total</b>	<b>2</b>	<b>184</b>									<b>2</b>	<b>184</b>

## 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)
Skill training on floating type mechanical paddy transplanter to rural youths (Green Army)	16	12 %	2,40,000/ unit Total income – Rs. 14,40,000	29,45,000@ 3,100/ac Total income – Rs.14,72,500
Integrated Farming System	3	4 %	Rs.15309	Rs.41865
Demonstration of groundnut variety Kadiri 9	10	11%	Rs. 13540	Rs.26507
Demonstration of foliar nutrition in jasmine for improving the flower quality	10	25%	Rs.140375	Rs.256223

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)

## PART XII - LINKAGES

### 12.A. Functional linkage with different organizations

Name of organization	Nature of linkage
IIHR, Bangalore	Bio pesticides awareness programmes
GOI, DoEE	Impact study on market led extension activities under MRIN.
Department of seed technology, TNAU, Coimbatore	Organizing trainings and demonstrations
Nehru Yuva Kendra, Vellore	Conducting training programmes
Department of Agricultural Engineering, Vellore	Training cum demonstration
Department of Agriculture, Vellore	Monthly Zonal Workshop
Dinamalar	Conducting exhibition
Puthu Vazhvu	Conducting training programmes
Indian Bank Self Help Group Training Institute, Indian Bank, Vellore	Conducting training programmes
Department of Horticulture, Vellore	Conducting training programmes
Sree Annapoorani Trust, Thandalam	Organizing trainings and demonstrations
ARS, Pudokottai and CRS Veppankulam	Conducting the joint diagnosis in Oilpalm cultivation

NB: The nature of linkage should be indicated in terms of joint diagnostic survey, joint implementation, participation in meeting, contribution received for infrastructural development, conducting training programmes and demonstration or any other

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

Name of the scheme	Role of KVK	Date/ Month of initiation	Funding agency	Amount (Rs.)
NADP (RKVY) Scheme on Sustainable Sugarcane Initiatives: Training to beneficiary farmers during 2014-15 Phase II at DEE, TNAU with sub centres KVKs (Proceeding No.B1/NADP – SSI /Admin sanction /12-14 dated 11.02.2014) Scheme code M28 CC	Providing training to 990 farmers from Vellore and Thiruvannamalai District	02.04.2014	Government of TamilNadu	7,50,050
MRIN Extension Activities under Marketing Research and Information Network (E34JE)	Provided trainings to 280 farmers	01.04.2014	Government of India	40000
Creation of awareness among farmers and other stakeholders on protection of plant varieties and farmers Right Act 2001 in Vellore Distrit	Provided trainings to Vellore Districts farmers	01.04.2014	Government of India	80000
Tamil Nadu Irrigated Agriculture Modernization and Water Bodies Restoration and Management Project (TN IAMWARM)	Implementing agency	12.07.2011	World Bank	5,21,70,000

## 12.C. Details of linkage with ATMA

a) Is ATMA implemented in your district: Yes

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

The participation of the Kendra for the preparation of SREP and other activities pertaining to ATMA in the district is given below:

### 1. Participation:

The Programme coordinator of KVK has participated as a council member and provided the technical inputs based on the need of the farming communities and emerging problem in the District.

### 2. ATMA FFS:

The KVK scientists have participated as a resource person for providing the technological backstops and also participated in the Farmers – Scientist interaction.

### 3. Commodity group formation:

In an Initiative for Nutritional Security through Intensive Millets Promotion (INSIMP) programme, the initiative was taken for the formation of the commodity group and linkages with little millet growers and self help group (SHGs) for value addition.

#### 1. ATMA seed village concept:

The KVK scientists have participated in the implementation of Seed Village Concept through ATMA programme in Vellore, Kaniyampadi and Nemeli Blocks.

### 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				
02	Research projects				
03	Training programmes	INM & IPM on paddy and oilseeds	7	1	
04	Demonstrations		4	1	
05	Extension Programmes				
	Kisan Mela				
	Technology Week				
	Exposure visit				
	Exhibition		2	2	

S. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK	Other remarks (if any)
	Soil health camps				
	Animal Health Campaigns				
	Others (Pl. specify)				
<b>06</b>	<b>Publications</b>				
	Video Films		2	2	
	Books				
	Extension Literature				
	Pamphlets				
	Others (Pl. specify)				
<b>07</b>	<b>Other Activities (Pl. specify)</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
	-	-	-	-	-

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

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

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

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks
1.	NADP (RKVY) Scheme on Sustainable Sugarcane Initiatives: Training to beneficiary farmers during 2014-15	Organizing training programmes and field visits through Department of Agriculture	7,50,050	7,49,971	Completed

## 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	-	-	-
May 2014	-	-	-
June 2014	-	-	-
July 2014	-	-	-
August 2014	-	-	-
September 2014	8	1653	121
October 2014	5	1066	45
November 2014	4	1731	224
December 2014	-	-	-
January 2015	-	-	-
February 2015	2	602	48
March 2015	3	932	57
Total for the year 2014-15	22	5984	495

## 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	
-	-	-	-	-	-	-	-	-	-

### 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									
Pulses	Blackgram	08.07.14		VBN 6	Seed	26 kgs		1820	
Oilseeds									
Fibers									
Spices & Plantation crops									
Floriculture									
Fruits									
Vegetables	Papaya	-		CO 8	Seedlings	10 nos		100	
Others (specify)									
<b>Total</b>						<b>36</b>		<b>1920</b>	

### 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.					

**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	

**13.E. Utilization of hostel facilities**

Accommodation available (No. of beds)

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
April 2014	739	14	-
May 2014	74	2	-
June 2014	4	8	-
July 2014	10	2	-
August 2014	14	5	-
September 2014	1	1	-
October 2014	3	1	-
November 2014	13	4	-
December 2014	4	2	-
January 2015	46	2	-
February' 2015	141	2	-
March' 2015	18	2	-

**13.F. Database management**

S. No	Database target	Database created
1.	KVK Vellore web site	Created
2.	Entrepreneurs	Created
3.	District profile	Created
4.	Farmers database	In progress

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

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

## 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	-	-	-	-	-	-	-
With KVK	State Bank of India	Poigai, Vellore District	07126	Savings account	11339961458	632002050	SBIN0007126

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

S. No.	Particulars	Sanctioned	Released	Expenditure
<b>A. Recurring Contingencies</b>				
1	<b>Pay &amp; Allowances</b>	98.00	10176629	98.95
2	<b>Traveling allowances</b>	1.48		1.50
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)	0.30		1.68
B	POL, repair of vehicles, tractor and equipments	0.30		1.76
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	0.20		0.32
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	0.20		0.48
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	1.20		1.67
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	0.30		0.53
G	Integrated Farming System (IFS)	0.10		0.10
H	Training of extension functionaries	0.10		0.15
I	Maintenance of buildings	0.10		0.10
J	Extension Activities	0.10		0.49
K	Farmers 's Field School	0.10		0.10
L	Library	0		0.03
	<b>TOTAL (A)</b>	<b>102.48</b>	<b>10176629</b>	<b>107.86</b>
<b>B. Non-Recurring Contingencies</b>				
1	<b>Works</b>	-	-	-
2	<b>Equipments including SWTL &amp; Furniture</b>	-	-	-
3	<b>Vehicle</b> (Four wheeler/Two wheeler, please specify)	-	-	-
4	<b>Library</b> (Purchase of assets like books & journals)	-	-	-
	<b>TOTAL (B)</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>C. REVOLVING FUND</b>		<b>0</b>	<b>0</b>	<b>0</b>
<b>GRAND TOTAL (A+B+C)</b>		<b>102.48</b>	<b>10176629</b>	<b>107.86</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 2012 to March 2013	326716.37	147316	21550	452482.37
April 2013 to March 2014	452482.37	140435	36620	556297.37
April 2014 to March 2015	556297.37	151901	131562	576636.37

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

<b>Name of the staff</b>	<b>Designation</b>	<b>Title of the training programme</b>	<b>Institute where attended</b>	<b>Dates</b>
Dr.S.Joshua Davidson	Assistant Professor (Agrl.Engineering)	Winter school on Renewable energy sources as option for mitigating climate change	Department of Bio energy, TNAU, Coimbatore	06.11.2014 to 26.11.2014
Dr.V.Sendhilvel	Assistant Professor (Plant Pathology)	Integrated Pest Management	NEPUM	09.09.2014 to 12.09.2014
Dr.V.Sendhilvel	Assistant Professor (Plant Pathology)	Participatory Impact Monitoring Assessment	JSS KVK, Suttur	01.12.2014 to 06.12.2014
Dr.V.Sendhilvel	Assistant Professor (Plant Pathology)	Training on Bamboo-Importance, Cultivation and conservation	IFGTP, Coimbatore	25.02.2015 to 27.02.2015
Dr.T.Prabhu	Assistant Professor (Horticulture)	Organic certification and Internal control system management	DoEE, TNAU, Coimbatore	14.10.2014 to 18.10.2014
Dr.T.Prabhu	Assistant Professor (Horticulture)	Training on oil palm cultivation	Agricultural Research Station, Pudukottai	18.03.2015 to 20.03.2015
Dr.M.Senthilkumar	Assistant Professor (Agrl.Extension)	Workshop on Invigorating Extension functions of TNAU-Mechanisms and Modulation	TNAU, Coimbatore	02.04.2014 to 05.04.2014
Dr.M.Senthilkumar	Assistant Professor (Agrl.Extension)	Effective communication for Extension functionaries	MANAGE, Hyderabad	21.07.2014 to 25.07.2014
Dr.M.Senthilkumar	Assistant Professor (Agrl.Extension)	Training on Gender budgeting and mainstreaming women in Agriculture	MANAGE, Hyderabad	18.08.2014 to 22.08.2014
Dr.M.Senthilkumar	Assistant Professor (Agrl.Extension)	Training on Millet seed production	Seed centre, TNAU, Coimbatore	12.01.2015
Dr.M.Senthilkumar	Assistant Professor (Agrl.Extension)	Professional skills for trainer of Extension Institutes of Agriculture	TNAU, Coimbatore	23.02.2015 to 26.02.2015
Dr.K.P.Sivakumar	Assistant Professor (Home Science)	Farmers Field School	DoEE, TNAU, Coimbatore	20.11.2014 to 21.11.2014
Dr.K.P.Sivakumar	Assistant Professor (Home Science)	Food and Nutritional security of rural household role of women	MANAGE, Hyderabad	13.10.2014 to 18.10.2014
Dr.K.P.Sivakumar	Assistant Professor (Home Science)	Frontier Home Science technology for knowledge and economic empowerment	UAS, Dharward	27.10.2014 to 31.10.2014
Dr.M.Ramasamy	Assistant Professor (Veterinary and Animal Science)	Integrated Farming System	DoEE, TNAU, Coimbatore	27.10.2014 to 28.10.2014
Dr.M.Ramasamy	Assistant Professor (Veterinary and Animal Science)	Orientation on Mandated Activities of KVK	KVK, THIRUSSOR, Kerala	18.11.2014 to 21.11.2014

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



# SUMMARY FOR 2014-15

## I. TECHNOLOGY ASSESSMENT

### Summary of technologies assessed under various crops

Thematic areas	Crop	Name of the technology assessed	No. of trials
Integrated Nutrient Management	Groundnut		
Varietal Evaluation			
Integrated Pest Management	Groundnut	Assessment of Bio-control agents for the management of Groundnut root rot	7
	Tomato	Assessment of biological control of nematode in tomato	5
Integrated Crop Management	Horsegram	Assessment of Horsegram variety CRIDA 18 R	7
	Redgram	Assessment of redgram hybrid ICPH 2740 in Vellore District	7
Integrated Disease Management	Tomato	Assessing the performance of tomato hybrids for tomato leaf curl virus	7
	Paddy	Assessment of varieties suitable for Bacterial Leaf Blight disease resistance in rice	7
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>			<b>40</b>

### Summary of technologies assessed under livestock

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>			

**Summary of technologies assessed under various enterprises**

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

**Summary of technologies assessed under home science**

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

## II. TECHNOLOGY REFINEMENT

### Summary of technologies refined under various crops

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

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>			

**Summary of technologies refined under various enterprises**

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

**Summary of technologies refined under home science**

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

### III. FRONTLINE DEMONSTRATION

#### Crops

Crop	Name of the technology demonstrated	Variety	Hybrid	Farming situation	No. of Demo.	Area (ha)	Yield (q/ha)				% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
							Demo			Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
							H	L	A										
Oilseeds																			
Groundnut	Demonstration of groundnut variety Kadiri 9	Kadiri 9	-	Rainfed	10	4	17.6	15.0	16.3	10.75	51.6	18260	44767	26507	2.5	16560	30100	13540	1.8
Groundnut	Demonstration of methylobacterium – (PPFM) for Groundnut crop for drought mitigation	TMV 7	-	Rainfed	10	4	1683	1355	1460	845	72.78	20120	40885	20765	2.03	17560	23671	6111	1.3
Pulses																			
Black gram	Demonstration of Blackgram variety MDU 1	MDU 1	-	Irrigated	20	8	667.5	335	501.25	632	-20.68	18250	33965	15715	1.9	20500	41201	20700	2.0
Cereals																			
Maize	Demmonstration of TNAU maize hybrid CO 6	-	TNAU CO 6	Irrigated	10	4	59.1	49.1	54.1	52.04	3.96	39597	64968	30372	1.64	35190	62448	27258	1.77
Millets																			
Ragi	Demonstration of ragi variety CO 15 in Vellore district	CO 15		Irrigated	10	4	32	22	24.5	15.8	55	10375	25357.5	14982.5	2.44	9540	16089	6549	1.7
Samai	Demonstration of CO 4 samai	CO 4	-	Limited irrigation	10	4	6.6	4.9	5.5	3.61	52.3	4500	9937	5437	2.22	3246	5674	2428	1.74
Vegetables																			
Chilli	Demonstration of growth regulator and micro nutrient application in Chilli	-	TNAU Chilli Hybrid CO1	Irrigated	5	2.5	259	243	250	191.4	30.6	144230	375000	230770	2.60	136785	287250	150465	2.10
Flowers																			
Jasmine	Demonstration of foliar nutrition in jasmine for improving the flower quality	Ramanathapuram local	-	Irrigated	10	4	59.75	51.25	55.68	39.75	40.07	160026.40	416250	256223	2.60	156907	297282.50	140375	1.89

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										
Ornamental																			
Fruit																			
Mango	Demonstration of management techniques for hoppers in mango	-	-	Limited Irrigated	5	4	235	161	209	132	58.3	27479	76380	25375	2.77	27479	52854	46148	1.92
Spices and condiments																			
Commercial																			
Fibre crops like cotton																			
Medicinal and aromatic																			
Fodder	Demonstration of multicut fodder Sorghum variety CO 31	CO 31	-	Rainfed	10	4	972	636	804	-	-	38976	117772	78796	3.03	-	-	-	-
Plantation																			
Fibre																			
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

### Livestock

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.)			
						Demons ration	Check	Demons ration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR	
Dairy																		
Poultry																		
Rabbitry																		
Pigerry																		
Sheep and goat																		
Duckery																		
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

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.)			
						Demons ration	Check	Demons ration	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

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	
Mushroom																		
Sericulture																		
Apiculture																		
Others (pl.specify)	Integrated Farming System	Goat - 10 Thelicherry Poultry- Namakkal Desi Chicken - 300 Fodder maize CO 6 -3kgs Velimasal - 1kg	3	3 units	42503	40861	41865	15309	173.46	24772	66637	41865	2.7	101076	116385	15309	1.2	
<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

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

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									
Seed drill and Dryland weeder	Groundnut	Demonstration on mechanization in groundnut	1	10	4	28	-	29.47	28	-	-	-	38.82	-	-	-

\* 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

#### Demonstration details on crop hybrids

Crop	Name of the Hybrid	No. of farmers	Area (ha)	Yield (kg/ha) / major parameter			Economics (Rs./ha)				
				Demonstration	Local check	% change	Gross Cost	Gross Return	Net Return	BCR	
<b>Cereals</b>											
Bajra											
Maize	TNAU Maize hybrid CO 6	10	4	54.1	52.04	3.96	39597	64968	30372	1.88	
Rice											
Sorghum											
Wheat											
Others (pl.specify)											
<b>Total</b>											
<b>Oilseeds</b>											
Castor											
Mustard											
Safflower											
Sesame											
Sunflower											
Groundnut											

Soybean												
Others (pl.specify)												
<b>Total</b>												
<b>Pulses</b>												
Greengram												
Blackgram												
Bengalgram												
Redgram												
Others (pl.specify)												
<b>Total</b>												
<b>Vegetable crops</b>												
Bottle gourd												
Capsicum												
Others (Chilli)	TNAU Chilli hybrid CO 1	5	2.5	250	191.4	30.6	144230	375000	230770	2.59		
<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>										

## IV. Training Programme

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
<b>Crop Production</b>	3	67	2	69	6	0	6	73	2	75
Weed Management										
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/Irrigation										
Seed production										
Nursery management										
Integrated Crop Management										
Soil and Water Conservation										
Integrated Nutrient Management										
Production of organic inputs										
Others (pl.specify) VAM production technology	1	0	12	12	0	3	3	12	3	15
<b>Horticulture</b>										
<b>a) Vegetable Crops</b>										
Production of low value and high volume crop										
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl.specify) Cultivation of Vegetables										
<b>b) Fruits</b>										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit										
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (pl.specify) Management of pest and disease in mango	1	16	6	22	2	1	3	18	7	25



Animal Nutrition Management										
Animal Disease Management										
Feed and Fodder technology	1	15	6	21	4	0	4	19	6	25
Production of quality animal products										
Others (pl.specify)										
<b>Home Science/Women empowerment</b>										
Household food security by kitchen gardening and nutrition gardening										
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing										
Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition										
Women empowerment										
Location specific drudgery production										
Rural Crafts										
Women and child care										
Others (pl.specify)										
<b>Agril. Engineering</b>										
Farm machinery and its maintenance	1	19	2	21	3	0	3	22	2	24
Installation and maintenance of micro irrigation systems	1	23	2	25	1	2	3	24	4	28
Use of Plastics in farming practices										
Production of small tools and implements										
Repair and maintenance of farm machinery and implements	1	22	2	24	0	2	2	22	4	26
Small scale processing and value addition										
Post Harvest Technology										
Others (pl.specify)										
<b>Plant Protection</b>										
Integrated Pest Management	1	32	7	39	1	0	1	33	7	40
Integrated Disease Management	1	12	24	36	0	0	0	12	24	36
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others (pl.specify)										
<b>Fisheries</b>										
Integrated fish farming										
Carp breeding and hatchery management										
Carp fry and fingerling rearing										

Composite fish culture										
Hatchery management and culture of freshwater prawn										
Breeding and culture of ornamental fishes										
Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
Others (pl.specify)										
<b>Production of Inputs at site</b>										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production										
Organic manures production	1	1	21	22	0	3	3	1	24	25
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	2	42	40	82	14	3	17	56	43	99
Apiculture										
Others (Production of Spirulina)										
<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>14</b>	<b>249</b>	<b>124</b>	<b>373</b>	<b>31</b>	<b>14</b>	<b>45</b>	<b>292</b>	<b>126</b>	<b>418</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>	1	20	2	22	3	0	3	23	2	25
Weed Management										
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/Irrigation										
Seed production										
Nursery management										
Integrated Crop Management										
Soil and Water Conservation										
Integrated Nutrient Management										
Production of organic inputs										
Others (pl.specify)										
<b>Horticulture</b>										
<b>a) Vegetable Crops</b>										
Production of low value and high volume crop										
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization	1	48	1	49	1	0	1	49	1	50
Protective cultivation	1	25	0	25	0	0	0	25	0	25
Others (pl.specify) Improved production technologies for jasmine	1	23	7	30	0	0	0	23	7	30
<b>b) Fruits</b>										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit	1	19	6	25	0	0	0	19	6	25
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (pl.specify)										
<b>c) Ornamental Plants</b>										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
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										
Production and management technology										
Post harvest technology and value addition										
Others (pl.specify)										
<b>Soil Health and Fertility Management</b>										
Soil fertility management										
Integrated water management										
Integrated nutrient management										
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient use efficiency										
Balanced use of fertilizers										
Soil and water testing										
Others (pl.specify)										
<b>Livestock Production and Management</b>										
Dairy Management										
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
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										
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing										
Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition										
Women empowerment										
Location specific drudgery production										
Rural Crafts										
Women and child care										
Others (pl.specify)										
<b>Agril. Engineering</b>										
Farm machinery and its maintenance										
Installation and maintenance of micro irrigation systems										
Use of Plastics in farming practices										
Production of small tools and implements										
Repair and maintenance of farm machinery and implements										
Small scale processing and value addition										
Post Harvest Technology										
Others (pl.specify)										
<b>Plant Protection</b>										
Integrated Pest Management	1	23	0	23	2	0	2	25	0	25
Integrated Disease Management										
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others (pl.specify)										
<b>Fisheries</b>										
Integrated fish farming										
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture										
Hatchery management and culture of freshwater prawn										
Breeding and culture of ornamental fishes										

Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
Others (pl.specify)										
<b>Production of Inputs at site</b>										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production										
Organic manures production										
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										
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>6</b>	<b>158</b>	<b>16</b>	<b>174</b>	<b>6</b>	<b>0</b>	<b>6</b>	<b>164</b>	<b>16</b>	<b>180</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										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production	1	28	22	50	0	0	0	28	22	50
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production	1	7	20	27	4	6	10	11	26	37
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
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>2</b>	<b>35</b>	<b>42</b>	<b>77</b>	<b>4</b>	<b>6</b>	<b>10</b>	<b>39</b>	<b>48</b>	<b>87</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										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production	5	185	0	185	0	0	0	185	0	185
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
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>5</b>	<b>185</b>	<b>0</b>	<b>185</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>185</b>	<b>0</b>	<b>185</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	109	9	118	15	2	17	124	11	135
Participatory impact monitoring and Assessment	1	22	8	30	0	0	0	22	8	30
Integrated Pest Management										
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
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										
Livestock feed and fodder production										
Household food security										
Any other (pl.specify)										
Farm Mechanization in paddy cultivation										
Application of solar energy in Agriculture										
<b>Total</b>	<b>2</b>	<b>131</b>	<b>17</b>	<b>148</b>	<b>15</b>	<b>2</b>	<b>17</b>	<b>146</b>	<b>19</b>	<b>165</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										
Integrated Pest Management										
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
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										
Livestock feed and fodder production										
Household food security										
Any other (pl.specify)										
<b>Total</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											
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)</b>											
<b>7</b>	<b>Post harvest technology and value addition</b>											
7.a.	Processing and value addition											
7.b.	Others (NADP- SSI farmers training)	50	858	132	990	-	-	-	858	132	990	
<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											
12.b	Others (pl.specify)											
	<b>Total</b>	<b>50</b>	<b>858</b>	<b>132</b>	<b>990</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>858</b>	<b>132</b>	<b>990</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.e.	Organic farming										
1.f.	Others (pl.specify)										
<b>2</b>	<b>Post harvest technology and value addition</b>										
2.a.	Value addition										
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										
4.b.	Production of bio-agents, bio-pesticides, bio-fertilizers etc.										
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										
4.h.	Nursery, grafting etc.										
4.i.	Tailoring, stitching, embroidery, dying etc.										
4.j.	Agri. 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>										

## V. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services	750	750	-	750
Diagnostic visits	48	208	7	215
Field Day	11	264	27	291
Group discussions	1	30	-	30
Kisan Ghosthi	-	-	-	-
Film Show	42	1361	165	1526
Self -help groups	-	-	-	-
Kisan Mela	1	1000	-	1000
Exhibition	7	27701	102	27803
Scientists' visit to farmers field	82	219	-	219
Plant/animal health camps	1	25	-	25
Farm Science Club	-	-	-	-
Ex-trainees Sammelan	-	-	-	-
Farmers' seminar/workshop	-	-	-	-
Method Demonstrations	49	371	4	375
Celebration of important days	1	50	-	50
Special day celebration	-	-	-	-
Exposure visits	1	25	-	25
Others (pl.specify) Farmers Field School	1	30	6	36
<b>Total</b>	<b>995</b>	<b>32034</b>	<b>311</b>	<b>32345</b>

### Details of other extension programmes

Particulars	Number
Electronic Media	-
Extension Literature	-
News Letter	-
News paper coverage	10
Popular Articles	6
Technical Bulletins	-
Technical Reports	-
Radio Talks	-
TV Talks	-
Animal health camps (Number of animals treated)	558
Others (pl.specify)	-
<b>Total</b>	<b>574</b>

## VI. PRODUCTION OF SEED/PLANTING MATERIAL

### Production of seeds by the KVKs

Crop category	Name of the crop	Variety	Hybrid	Quantity of seed (qtl)	Value (Rs)	Number of farmers to whom provided
Cereals (crop wise)						
Millets						
Oilseeds						
Pulses						
	Blackgram	VBN 6	-	1.22	8540	31
	Horsegram	Local variety	-	0.22	904.4	5
	Redgram		ICPH 2740	0.35	5600	7
Commercial crops						
Vegetables						
Flower crops						
Spices						
Fodder crop seeds						
Fiber crops						
Forest Species						
Others (specify)						
<b>Total</b>				<b>1.79</b>	<b>15044.4</b>	<b>43</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
Commercial						
Vegetable seedlings						
Fruits	Papaya seedlings	Local	-	10	100	2
Ornamental plants						
Medicinal and Aromatic						
Plantation						
Spices						
Tuber						
Fodder crop saplings						
Forest Species						
Others(specify)						
<b>Total</b>				<b>10</b>	<b>100</b>	<b>2</b>

**Production of Bio-Products**

Bio Products	Name of the bio-product	Quantity Kg	Value (Rs.)	Number of farmers to whom provided
Bio Fertilizers				
Bio-pesticide				
Bio-fungicide				
Bio Agents				
Others (specify)	Mushroom Spawn production	328 nos	9840	30
<b>Total</b>		<b>328</b>	<b>9840</b>	<b>30</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)				
<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>				

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

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)
<b>Soil Samples</b>	70	37	37	3500
<b>Water Samples</b>	79	48	48	3950
<b>Plant samples</b>	-	-	-	-
<b>Manure samples</b>	4	1	1	600
<b>Others (specify)</b>	-	-	-	-
<b>Total</b>	<b>153</b>	<b>86</b>	<b>86</b>	<b>8050</b>

## VIII. SCIENTIFIC ADVISORY COMMITTEE

Number of SACs conducted : -

## IX. NEWSLETTER

Number of issues of newsletter published				
S.No	Malar	Month	Ithazh	No.of copies

## X.RESEARCH PAPER PUBLISHED

Number of research paper published : 15 numbers

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

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

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