

ICAR - KRISHI VIGYAN KENDRA, VIRINJIPURAM, VELLORE

Annual Report 2015 - 16

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 May 2016)

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)

: 24.15 ha.

S. No.	Item	Area (ha)
1	Under Buildings	0.8
2.	Under Demonstration Units	2.0
3.	Under Crops	6.0
4.	Orchard/Agro-forestry	7.0
5.	Others	8.35

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	172162	Met with an accident on 27.09.2009. Needs replacement with a new vehicle.
Tractor (TN 23 AA 7655)	2005	4,93,716	4357	Working condition
Motor Bike (TN 23 AB 8345)	2006	38,781	45236	Good condition
Motor Bike (TN 23 AF 9661)	2009	41,976	43973	Good condition

C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Photocopier	2005	74,500	Good condition
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	-	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"> ❖ 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. ❖ 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. ❖ The germination rate was 71 % . Primed seeds germinated faster than fresh dry seeds
2.	06.08.13	35	-	Zero till seed drill may be demonstrated in farmers field	<ul style="list-style-type: none"> ❖ Zero till fertilizer seed drill in black gram was demonstrated to 10 farmers from Sakkaramallur, Mudinampet, Vadavirinjipuram and Kamarajapuram under FLD programme 2013-2014. ❖ 289 phone calls were received when the zero-till ferti seed drill demonstration was aired through Makkal TV.

S. No	Date	Number of Participants	No. of absentees	Salient Recommendations	Action taken														
3.	06.08.13	35	-	Horizontal spread of Cumbu Napier hybrid grass in Vellore Dt. may be assessed.	The horizontal spread of CO(CN) 4 fodder grass cultivation was recorded as 480 hectares across Vellore District and about 256 farmers purchased rooted slips from the KVK FLD farmers. The KVK FLD farmers viz Thiru. Domotharan from Velleri village and Mrs.Kala from karugamputhur sold 1,25,300 rooted slips to ATMA farmers in Gudiyaham and K.V.Kuppam block of Vellore District. Horizontal spread of Cumbu Napier grass is assessed through Department of Animal Husbandry, at present in Vellore district more than 2350 ha occupied by Cumbu Napier grass.														
4.	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 technique has been tried at the farm for the development of perennial brinjal plant. Initially, <i>S.torvum</i> was used as a rootstock and VRM-1 Brinjal as a scion material. There was no compatibility in grafting union. The second time grafting was tried with <i>S.torvum</i> as rootstock with the crossed material of Spiny x Non-Spiny brinjal. Out of 100 grafted plants, 10 plants were survived. The grafting success percentage was 10%. <table border="1" data-bbox="943 1140 1377 1373"> <thead> <tr> <th rowspan="2">S. No</th> <th rowspan="2">Particulars</th> <th colspan="2">Scion material</th> </tr> <tr> <th>VRM-1 Spiny brinjal</th> <th>Hybrid derivative of Spiny x Non-spiny brinjal</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>No. of grafts attended</td> <td>200</td> <td>200</td> </tr> <tr> <td>2</td> <td>Grafting Success percentage</td> <td>-</td> <td>10</td> </tr> </tbody> </table>	S. No	Particulars	Scion material		VRM-1 Spiny brinjal	Hybrid derivative of Spiny x Non-spiny brinjal	1	No. of grafts attended	200	200	2	Grafting Success percentage	-	10
S. No	Particulars	Scion material																	
		VRM-1 Spiny brinjal	Hybrid derivative of Spiny x Non-spiny brinjal																
1	No. of grafts attended	200	200																
2	Grafting Success percentage	-	10																
5.	06.08.13	35	-	Mango approach/soft wood grafting may be done and distributed to farmers	Training on 'Grafting technique in mango' was conducted. <table border="1" data-bbox="935 1461 1386 1673"> <thead> <tr> <th>S. No</th> <th>Date</th> <th>Title</th> <th>No of participants</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>28.11.2013</td> <td>Training on Mango propagation and cultivation</td> <td>32</td> </tr> <tr> <td>2.</td> <td>10.06.2014</td> <td>Propagation techniques in Mango</td> <td>26</td> </tr> </tbody> </table> <p>Banganapalli variety mango seedlings were produced by approach grafting techniques and 457 seedlings were distributed to farmers during the training programme.</p>	S. No	Date	Title	No of participants	1.	28.11.2013	Training on Mango propagation and cultivation	32	2.	10.06.2014	Propagation techniques in Mango	26		
S. No	Date	Title	No of participants																
1.	28.11.2013	Training on Mango propagation and cultivation	32																
2.	10.06.2014	Propagation techniques in Mango	26																

S. No	Date	Number of Participants	No. of absen tees	Salient Recommendations	Action taken
6.	06.08.13	35	-	Problematic Aonla trees at farmer's field in Kaniyambadi may be assessed and recommendation may be made	A team of scientists from IIHR, Bangalore, Department of Fruit Crops, TNAU along with KVK Scientists also inspected the problematic Amla field. The team recommended that the recommended dose of fertilizer alone is sufficient and also suggested that to stop the excess irrigation.
7.	06.08.13	35	-	A trial may be conducted to reclaim tannery polluted land of using sesbania, ragi and pressmud	Front line demonstration on "Demonstration of Ragi variety CO15 in the tannery polluted site" was conducted at 10 places in and around the Walajahpet and Ranipet. Under this FLD, vermicompost and manure were applied in the tannery polluted sites @ 6 tonnes/ha to reduce the intensity of Cr(VI) toxicity on Ragi crops. Before the initiation of the FLD, soil and water samples were collected from the farmers field, the soil had 55.37mg/kg of Cr(VI) and the water had 0.61mg/L of Cr(VI).The soil samples were also collected from the field after the completion of the FLD and the soil had 42.91 mg/kg of Cr(VI). Continuous application of vermicompost /compost reduced the Cr(VI) concentration in the soil. Soil samples (300 kg) were collected from tannery polluted sites of Mr.Ganesan, Walajahpet and a pot culture experiment was also conducted at KVK, Virinjipuram using Ragi, Sunhemp and Daincha as test crops. Soil amendments namely, vermicompost, pressmud were also tested. The crops grown well in the vermicompost (6 tonnes/ha) and pressmud (3 tonnes/ha) with recommended dose of NPK.

S. No	Date	Number of Participants	No. of absentees	Salient Recommendations	Action taken
8.	06.08.13	35	-	Milky mushroom bed diameter may be increased and tested	The recommended size of the plastic bag for the preparation of the milky bed is 35 cm X 65 cm (15" X 27" inch). As per the recommendation of the Scientific Advisory committee, the diameter was increased and bed size was 18 ^{1/2} X 29" inch , 18"x20" and 20"X29" inch . Based on the observation, the increased bed (18 ^{1/2} X 29" inch) has given higher yield (3.35 kg/bed). The bio efficacy was higher (94.6 %) in the increased diameter of the bed when compared to recommended bed size (81.0%) The hundred per cent bio efficacy was also recorded in 18 ^{1/2} X 29" bedsize. It is concluded that the increased diameter of the bed has given higher yield (3.35 kg/bed) followed by 2.25 kg in 18 X 20' bed size. The constraint faced in the increased diameter bed was bed weight. The weight was ranged from 6.5 – 7.0 kg/bed. It is difficult to handle the increased diameter bed. Among the three size, 18X20" is chosen as optimum size for the cultivation of milky mushroom.
9.	06.08.13	35	-	Seed production of any one vegetable may be taken up, especially gourds	Spiny brinjal VRM 1 seeds of 8.9 kg and moringa PKM1 seeds 1.35 kg have been produced and distributed to the farmers. Bottlegourd seeds were produced in KVK farm and distributed to farmers.
10.	06.08.13	35	-	Upload all the demonstrations, OFT and trainings in the website.	The details of on going OFTs, FLDs, trainings and extension activities are posted in the website of KVK, Vellore.
11.	06.08.13	35	-	Trials may be conducted to address the problems in jasmine crop	The problem addressed was low productivity and poor quality of flowers. Based on these problems, FLD on 'Demonstration of foliar nutrition in jasmine for improving the flower quality' was conducted at Pulimedu village of Vellore district during 2014-15. The technology demonstrated was application of FeSO4 0.5 % + Boric acid 0.2 % + ZnSO4 0.5 % and planofix @ 10 ppm. The percentage of yield increase in the recommended practice was 11.2% higher when compared to the farmers practice and shelf life was also increased for three more hours.

S. No	Date	Number of Participants	No. of absentees	Salient Recommendations	Action taken																								
12.	06.08.13	35	-	Scientist may visit Pollachi farms to learn drought management technology in Coconut.	<p>Dr.T. Prabhu, SMS (Horticulture) visited CRS Aliyar Nagar and progressive farmer's field of Pollachi to learn drought management technologies adopted in farmers field. The following technologies were adopted in the field.</p> <ol style="list-style-type: none"> 1. Mulching with coconut husks/leaves/coir pith 2. Burial of coconut husk or coir pith <p>Trainings on coconut drought management techniques were also explained during the trainings.</p> <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>S. No</th> <th>Date</th> <th>Title</th> <th>No of participants</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>20.11.13</td> <td>Improved production technology for coconut</td> <td>23</td> </tr> <tr> <td>2.</td> <td>17.12.13</td> <td>Improved production technology for coconut</td> <td>28</td> </tr> <tr> <td>3.</td> <td>20.01.14</td> <td>Drought management in coconut</td> <td>34</td> </tr> <tr> <td>4.</td> <td>24.01.14</td> <td>Integrated crop management practices in coconut</td> <td>21</td> </tr> <tr> <td>5.</td> <td>21.04.15</td> <td>Drip irrigation technology in coconut</td> <td>27</td> </tr> </tbody> </table>	S. No	Date	Title	No of participants	1.	20.11.13	Improved production technology for coconut	23	2.	17.12.13	Improved production technology for coconut	28	3.	20.01.14	Drought management in coconut	34	4.	24.01.14	Integrated crop management practices in coconut	21	5.	21.04.15	Drip irrigation technology in coconut	27
S. No	Date	Title	No of participants																										
1.	20.11.13	Improved production technology for coconut	23																										
2.	17.12.13	Improved production technology for coconut	28																										
3.	20.01.14	Drought management in coconut	34																										
4.	24.01.14	Integrated crop management practices in coconut	21																										
5.	21.04.15	Drip irrigation technology in coconut	27																										
13.	06.08.13	35	-	Process documentation of any one technology may be done by extension scientist	<p>Process documentation on SRI nursery has been done.</p> <p>Video documentation of critical technologies viz., field preparation, seed treatment, pai nursery preparation, transplanting through paddy transplanter, harvesting with paddy harvester etc. have been done and shown in the KVK farmers trainings</p>																								

S. No	Date	Number of Participants	No. of absentes	Salient Recommendations	Action taken																								
14.	06.08.13	35	-	Farmers may be given trainings on Maize cultivation	<p>Ninety three farmers were trained in improved production techniques in maize cultivation. FLD on TNAU Maize Hybrid Co 6 was demonstrated to 10 farmers.</p> <table border="1"> <thead> <tr> <th>S. no</th> <th>Date</th> <th>Title</th> <th>Nos.</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>20.06.15</td> <td>Millets production technology</td> <td>15</td> </tr> <tr> <td>2.</td> <td>17.12.15</td> <td>Production technology of millets</td> <td>40</td> </tr> <tr> <td>3.</td> <td>10.02.16</td> <td>Production technology of millets</td> <td>38</td> </tr> </tbody> </table>	S. no	Date	Title	Nos.	1.	20.06.15	Millets production technology	15	2.	17.12.15	Production technology of millets	40	3.	10.02.16	Production technology of millets	38								
S. no	Date	Title	Nos.																										
1.	20.06.15	Millets production technology	15																										
2.	17.12.15	Production technology of millets	40																										
3.	10.02.16	Production technology of millets	38																										
15.	06.08.13	35	-	Knowledge on marketing technologies for horticultural crops may be imparted	<p>A total of 275 farmers were trained on marketing of horticultural crops through Department of Horticulture.</p> <table border="1"> <thead> <tr> <th>S. No</th> <th>Date</th> <th>Title</th> <th>Nos.</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> <tr> <td>4.</td> <td>13.8.14 02.09.14 19.09.14 23.09.14</td> <td>Market Led Extension Activities</td> <td>100 (25 nos. per batch)</td> </tr> <tr> <td>4.</td> <td>13.11.14</td> <td>Marketing of fruit vegetable crops</td> <td>25</td> </tr> </tbody> </table>	S. No	Date	Title	Nos.	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	4.	13.8.14 02.09.14 19.09.14 23.09.14	Market Led Extension Activities	100 (25 nos. per batch)	4.	13.11.14	Marketing of fruit vegetable crops	25
S. No	Date	Title	Nos.																										
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																										
4.	13.8.14 02.09.14 19.09.14 23.09.14	Market Led Extension Activities	100 (25 nos. per batch)																										
4.	13.11.14	Marketing of fruit vegetable crops	25																										
16.	06.08.13	35	-	Papaya Co8 seedlings may be raised and distributed to farmers	<p>Papaya variety CO 8 seedlings of 325 nos. were raised and distributed to farmers during the FFS conducted on 20.11.14, 27.11.14, 02.12.14, 18.12.14, 26.12.14, 02.01.15 at Guruvarajapalayam. In addition to that, more than 2000 seedlings were raised and distributed to fellow farmers.</p>																								
17.	06.08.13	35	-	Training may be given on papaya cultivation technology	<p>Training was given to 108 farmers.</p> <table border="1"> <thead> <tr> <th>S. no</th> <th>Date</th> <th>Title</th> <th>No of participants</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>30.08.13</td> <td>Production technology for papaya</td> <td>32</td> </tr> <tr> <td>2.</td> <td>25.09.13</td> <td>Post harvest technology for papaya</td> <td>27</td> </tr> <tr> <td>3.</td> <td>07.04.14</td> <td>Production technology of papaya</td> <td>26</td> </tr> <tr> <td>4.</td> <td>02.12.15</td> <td>Value added products from papaya</td> <td>23</td> </tr> </tbody> </table>	S. no	Date	Title	No of participants	1.	30.08.13	Production technology for papaya	32	2.	25.09.13	Post harvest technology for papaya	27	3.	07.04.14	Production technology of papaya	26	4.	02.12.15	Value added products from papaya	23				
S. no	Date	Title	No of participants																										
1.	30.08.13	Production technology for papaya	32																										
2.	25.09.13	Post harvest technology for papaya	27																										
3.	07.04.14	Production technology of papaya	26																										
4.	02.12.15	Value added products from papaya	23																										

S. No.	Date	Number of Participants	No. of absentees	Salient Recommendations	Action taken																																			
18.	06.08.13	35	-	Power weeder in paddy may be explored	Double row SRI power weeder developed by STHIL power weeder was tested in the farmer's field. The development of modified two rows SRI weeder is in progress at KVK.																																			
19.	06.08.13	35	-	Training may be provided on enrichment of vermicompost	<p>An off campus training programme on enrichment of vermicompost was conducted at Karugamputhur village on 26.9.2014. Twenty five women farmers were participated in this off campus training. The demonstration on enrichment of vermicompost with bio-fertilizers like Azospirillum and Phospobacterium etc was done. Trainings on production and enrichment of vermicompost were also conducted through linkage programmes. The details of participants attended are given in the table.</p> <table border="1"> <thead> <tr> <th>Sl. no</th> <th>Date</th> <th>KVK/ Linkage</th> <th>Number of participants</th> <th>Number of extension functionaries.</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>26.09.14</td> <td>KVK- Off campus training</td> <td>25</td> <td>2</td> </tr> <tr> <td>2</td> <td>25.11.14</td> <td>KVK Vellore with IIHR</td> <td>98</td> <td>5</td> </tr> <tr> <td>3</td> <td>03.03.15</td> <td>KVK Vellore with IIHR</td> <td>103</td> <td>7</td> </tr> <tr> <td>4</td> <td>18.06.15</td> <td>KVK Vellore with IIHR</td> <td>87</td> <td>5</td> </tr> <tr> <td>5</td> <td>14.09.15</td> <td>KVK Vellore with Dept Agri,Vellore</td> <td>44</td> <td>3</td> </tr> <tr> <td>6</td> <td>20.12.15</td> <td>KVK Vellore with IIHR</td> <td>91</td> <td>8</td> </tr> </tbody> </table>	Sl. no	Date	KVK/ Linkage	Number of participants	Number of extension functionaries.	1	26.09.14	KVK- Off campus training	25	2	2	25.11.14	KVK Vellore with IIHR	98	5	3	03.03.15	KVK Vellore with IIHR	103	7	4	18.06.15	KVK Vellore with IIHR	87	5	5	14.09.15	KVK Vellore with Dept Agri,Vellore	44	3	6	20.12.15	KVK Vellore with IIHR	91	8
Sl. no	Date	KVK/ Linkage	Number of participants	Number of extension functionaries.																																				
1	26.09.14	KVK- Off campus training	25	2																																				
2	25.11.14	KVK Vellore with IIHR	98	5																																				
3	03.03.15	KVK Vellore with IIHR	103	7																																				
4	18.06.15	KVK Vellore with IIHR	87	5																																				
5	14.09.15	KVK Vellore with Dept Agri,Vellore	44	3																																				
6	20.12.15	KVK Vellore with IIHR	91	8																																				
20.	06.08.13	35	-	Training may be given on drumstick cultivation	<p>A total of 108 farmers were trained for the cultivation of drumstick</p> <table border="1"> <thead> <tr> <th>S. No</th> <th>Date</th> <th>Title</th> <th>No of participants</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>12.11.13</td> <td>Production technology for moringa</td> <td>29</td> </tr> <tr> <td>2.</td> <td>10.12.13</td> <td>Production technology for moringa</td> <td>24</td> </tr> <tr> <td>3.</td> <td>08.01.15</td> <td>Integrated pest and disease management in Moringa</td> <td>31</td> </tr> <tr> <td>4.</td> <td>16.06.15</td> <td>Moringa-cultivation practices</td> <td>24</td> </tr> </tbody> </table>	S. No	Date	Title	No of participants	1.	12.11.13	Production technology for moringa	29	2.	10.12.13	Production technology for moringa	24	3.	08.01.15	Integrated pest and disease management in Moringa	31	4.	16.06.15	Moringa-cultivation practices	24															
S. No	Date	Title	No of participants																																					
1.	12.11.13	Production technology for moringa	29																																					
2.	10.12.13	Production technology for moringa	24																																					
3.	08.01.15	Integrated pest and disease management in Moringa	31																																					
4.	16.06.15	Moringa-cultivation practices	24																																					

S. No	Date	Number of Participants	No. of absentees	Salient Recommendations	Action taken																		
21.	06.08.13	35	-	Training on citrus cultivation may be given	<p>A total of 80 farmers were trained for the cultivation of citrus</p> <table border="1"> <thead> <tr> <th>S. No</th> <th>Date</th> <th>Title</th> <th>No of participants</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>06.10.2014</td> <td>Production technology for citrus</td> <td>33</td> </tr> <tr> <td>2.</td> <td>17.11.2014</td> <td>Production technology for citrus</td> <td>25</td> </tr> <tr> <td>3.</td> <td>22.02.15</td> <td>Citrus-Pest and Disease management</td> <td>22</td> </tr> </tbody> </table>	S. No	Date	Title	No of participants	1.	06.10.2014	Production technology for citrus	33	2.	17.11.2014	Production technology for citrus	25	3.	22.02.15	Citrus-Pest and Disease management	22		
S. No	Date	Title	No of participants																				
1.	06.10.2014	Production technology for citrus	33																				
2.	17.11.2014	Production technology for citrus	25																				
3.	22.02.15	Citrus-Pest and Disease management	22																				
22.	06.08.13	35	-	Training on value addition in millets and tomato may be given	<p>Demonstration on “Value added products from millets” was given to 64 participants of Self Help Groups(SHG) for two days on 25.08.2014 to 26.08.2014. In the trained SHGs, five members prepared samai biscuits, Kuthiraivali cake and Thenai bread with the help of ovens from bakery and sold to Departmental stores and VIT college canteen.</p> <p>Value addition in Tomato: One day training on “ Value added products from Tomato” was conducted for two SHGs on 26.06.2015. In this training, preparation of tomato products like tomato sauce, pickle, squash, ketup and jam was demonstrated.</p> <table border="1"> <thead> <tr> <th>Date</th> <th>Training Title</th> <th>No.of participants</th> </tr> </thead> <tbody> <tr> <td>25.08.14 & 23.08.14</td> <td>Demonstration on Value added products from millets for SHGs.</td> <td>64</td> </tr> <tr> <td>24.11.15</td> <td>Millet based ready mix was displayed at Collectrate, Vellore in farmers grievance day.</td> <td>438</td> </tr> <tr> <td>31.01.15</td> <td>Millet based value added products was exhibited at exhibition organized by Dinamalar</td> <td>3892</td> </tr> <tr> <td>22.08.15 & 23.08.15</td> <td>Millet based value added products was exhibited at exhibition organized by VIT, Vellore.</td> <td>4653</td> </tr> <tr> <td>26.06.15</td> <td>Demonstration on Value added products from Tomato for SHGs.</td> <td>25</td> </tr> </tbody> </table>	Date	Training Title	No.of participants	25.08.14 & 23.08.14	Demonstration on Value added products from millets for SHGs.	64	24.11.15	Millet based ready mix was displayed at Collectrate, Vellore in farmers grievance day.	438	31.01.15	Millet based value added products was exhibited at exhibition organized by Dinamalar	3892	22.08.15 & 23.08.15	Millet based value added products was exhibited at exhibition organized by VIT, Vellore.	4653	26.06.15	Demonstration on Value added products from Tomato for SHGs.	25
Date	Training Title	No.of participants																					
25.08.14 & 23.08.14	Demonstration on Value added products from millets for SHGs.	64																					
24.11.15	Millet based ready mix was displayed at Collectrate, Vellore in farmers grievance day.	438																					
31.01.15	Millet based value added products was exhibited at exhibition organized by Dinamalar	3892																					
22.08.15 & 23.08.15	Millet based value added products was exhibited at exhibition organized by VIT, Vellore.	4653																					
26.06.15	Demonstration on Value added products from Tomato for SHGs.	25																					

S. No	Date	Number of Participants	No. of absentes	Salient Recommendations	Action taken												
23.	06.08.13	35	-	Sensitization on available credit facilities at banks for mushroom cultivation, may be done with the help of bank officials	<p>The following trainings programmes were conducted in KVK with support of Bank officials.</p> <table border="1"> <thead> <tr> <th>Date</th> <th>Name of the Bank/Officials</th> <th>No of participants</th> </tr> </thead> <tbody> <tr> <td>06-11-2014</td> <td>Lead Bank -Indian Bank/General Manager</td> <td>40</td> </tr> <tr> <td>31-08-2015</td> <td>Union Bank/Manager</td> <td>40</td> </tr> <tr> <td>26-02-2016</td> <td>Federal Bank/Manager</td> <td>76</td> </tr> </tbody> </table> <p>The Manager from Bank of India, K.V.Kuppam sensitized the farmers on available credit facilities for mushroom cultivation. A total of three training programmes on mushroom cultivation, benefitting 156 farmers were conducted. The Lead Bank Manager Mr. T. Mahendran, Indian bank participated in the training programme held on 06-11-2014 and delivered a lecture on credit facilities in Agriculture and allied sectors. Also credit facilities from TAHDCO, NABARD, INDSETI and Pudhuvazhu Thittam were sensitized by bank officials.</p>	Date	Name of the Bank/Officials	No of participants	06-11-2014	Lead Bank -Indian Bank/General Manager	40	31-08-2015	Union Bank/Manager	40	26-02-2016	Federal Bank/Manager	76
Date	Name of the Bank/Officials	No of participants															
06-11-2014	Lead Bank -Indian Bank/General Manager	40															
31-08-2015	Union Bank/Manager	40															
26-02-2016	Federal Bank/Manager	76															

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.	Wet Land: Paddy-Paddy, Sugarcane, Banana
2.	Garden Land: Paddy-Paddy-Groundnut, Paddy-Paddy-Ragi / Cumbu / Pulses, Paddy-Paddy-Vegetables, Sugarcane, Banana, Flowers
3.	Dry Land: 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	Paddy	63470	222098	5080
2	Cholam	6179	8193	1326
3	Cumbu	2056	5220	2539
4	Ragi	6417	40772	4163
5	Maize	5072	36518	7200
6	Redgram	14270	19137	1450
7	Greengram	2014	1643	860
8	Blackgram	4176	1828	588
9	Horsegram	6152	9439	978
10	Bengalgram	5	3	600
11	Otherpulses	2223	1334	600
12	Groundnut	44506	79356	2202
13	Castor	274	192	700
14	Gingelly	280	168	600
15	Sunflower	3	2	500
16	Sugarcane	14030	1109952	94000
17	Cotton	6830	55515	6800

(Source: Office of the Joint Director of Agriculture, Vellore 2015)

Horticulture

S. No.	Crop	Area (ha)	Production (tonnes)	Productivity (tonnes /ha.)
Fruit Crops				
1	Banana	3859	32735	50
2	Mango	15578	157611	10
3	Guava	600	13527	20
4	Sapota	520	10573	20.3
5	Papaya	180	3753	200
6	Tomato	1100	30275	25
7	Onion	35	720	10
8	Ash gourd	6	63	15
9	Bitter gourd	25	257	15
10	Bottle gourd	15	210	15
11	Water melon	18	475	20
12	Jasmine	1128	9523	9.3
13	Crossandra	41	450	8.5
14	Rose	49	579	8.4
15	Chillies	700	7754	25
16	Turmeric	650	16538	25
17	Coriander	70	753	7
18	Brinjal	1244	31100	25
19	Bhendi	900	28569	25

(Source: Office of the Joint Director of Agriculture, Vellore, 2015)

2.5. Weather data

Month	Rainfall (mm)	Temperature °C		Relative Humidity (%)
		Maximum	Minimum	
April' 15	107.3	104.5	60.7	56.0
May' 15	133.9	110.7	64.6	53.2
June' 15	116.3	106.4	65.8	69.8
July' 15	44.6	112.8	75.0	69.9
August' 15	143	109.5	70.5	72.2
September' 15	83.7	103.4	63.4	75.7
October' 15	106.2	100.7	60.3	75.9
November' 15	641.1	89.1	52.7	77.9
December' 15	92.1	92.5	52.3	75.0
January' 16	0	93.2	41.0	76.6
February' 16	0	97.2	38.3	74.4
March' 16	0	111.6	43.4	62.2

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

Category	Population	Production	Productivity
Cattle	527080	-	-
Buffalo	780431	-	-
Sheep	275160	-	-
Goat	262659	-	-
Poultry	4315772	-	-
pigs	6711		

2.7 District profile has been **Updated** for 2015-16 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	Ambur	Madhanur	Ellappanpatti	2	Guava	Lack of awareness on pruning techniques and Micronutrient application, Lake of awareness on micro nutrient and pruning of orchard	Integrated Crop Management
2	Natrampalli	Natrampalli	Kothur	1	Vegetables (Lablab & Brinjal)	Lack of awareness on bush type Lablab hybrids and low yield	Varietal Evaluation
3	Arakkonam	Nemili	Meleri, Kizhvenkatapuram, Uliyanallore	2	Vegetables (Brinjal, Chilli & Cucurbits Snake gourd), and Rice	Low yield Poor yield	Varietal Evaluation
4	Thirupattur	Jolarpet, Thirupattur	Nilavoor, Annandapatti	2	Beans Samai Cluster bean	Root rot diseases and Labour shortage, Low yield	Integrated Disease Management and farm machinery, Varietal Evaluation

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
5	Vellore	Vellore Karugamputhur	Anpoondi	4	Red gram Chilli	Wilt diseases in redgram Less Poor farm income Low egg production Poor hatchability of egg	Integrated Disease Management IFS
6	Katpadi	K.V.Kuppam	Cholamur, Kanagasamudram, B.N.Palayam, Vaduganthangal, Gandhi nagar, Kavanoor-Mottur, Mudinampattu, Rangampet, Virinjipuram	4	Groundnut Horsegram Sun hemp, Ragi, Mango, Cattle, Breed improvement, Papaya, Mango, Renewable energy	Low yield Non availability of seeds, Blast diseases, Integrated Disease Management, Lack of awareness on value addition, Breakage of egg, Low kidding percentage, Low body weight gain, Phanarogamic parasite, No awareness on kitchen waste to useful energy	Varietal Evaluation, Green manure, Value Addition, Live stock production, Integrated Disease Management, Energy conservation
7	Walajah	Walajah	Melvelam	1	Sapota	Lack of awareness on value addition	Value Addition

2.9. Priority thrust areas

S. No	Thrust area
1	Drought Management
2	Crop improvement by varietal introduction and evaluation
3	Integrated Pest and Disease management
4	Crop diversification in Horticultural crops
5	ICM in Horticultural crops
6	Farm mechanization in Agricultural implements
7	Fodder production
8	Green manure for improved soil health
9	Value addition of fruits
10	Energy conservation using farm waste
11	Labour shortage
12	Livestock and poultry production
13	Integrated Nutrient management
14	Integrated Farming System

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
5	5	36	36	20	20	188	188

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
49	49	1371	1371	1827	1827	35782	35782

Seed Production (Qtl.)		Planting materials (Nos.)	
5		6	
Target	Achievement	Target	Achievement
1.174	1.174	-	-

Livestock, poultry strains and fingerlings (No.)		Bio-products (Kg)	
7		8	
Target	Achievement	Target	Achievement
168	168	351	351

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	Ragi	Blast disease	Assessment of Ragi varieties against blast disease	-	1	-	1	3	0.10	-	-	-	-
2	Crop protection	Groundnut	Low yield; Drought	Assessment of Drought resistant Groundnut Variety for Vellore District	-	1	-	2	4	1.20	-	-	-	-
3	Crop production	Chilli	Hybrid cultivation of light green coloured fruits, low market value.	Assessment of high market value green chilli hybrids for Vellore district		1	-	1	2	0.01	-	-	-	

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 production	Farm Mechanization	Migration of agri. labours to hill tourism development activities High labour wages Shortage of labour for harvesting samai More Drudgery involved	Assessment of harvesting Samai using rotary cutter	-	1	-	1	3	-	-	-	-	-
5	Live stock	Desi chicken for egg.	Lack of suitable desi egg breed for rural backyard. Migration of rural youth to urban area.	Assessment of desi chicken breeds with minimum supplementary feeding for egg production	-	1	-	1	4	-	-	-	-	-

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
6	Crop Management	Rice	Alternate variety for BPT 5204 which is susceptible to blast / BLB. (endemic / epidemic)	-	Demonstration of rice variety TKM 13 in Vellore dist under seed production mode	1	-	2	5	1.6	-	-	-	-
7	Crop Production	Sun hemp	Non application of FYM, Declining soil health & Organic matter High cost / Demand of green manure seeds – Seed Cost – Rs.70/ kg	-	Demonstration of sunhemp under seed production mode	1	-	1	3	0.4	-	-	-	-

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
8	Crop protection	Redgram	Wilt disease incidence is ranged from 34.7 to 47.6 %. and reduction of yield	-	Demonstration of Spot Bio drenching against wilt disease in Redgram	1	-	2	3	-	-	-	-	Liquid Pseudomonas – 2 lit <i>Trichoderma</i> liquid – 2 lit
9	Crop protection	Beans	The root rot caused by <i>Fusarium</i> & <i>Rhizoctonia</i> becomes major problem in beans cultivation in Yelagiri hills. The disease incidence ranged from 18.7 to 38.6 per cent	-	Demonstration of biological control of beans Root rot in Yelagiri hill	1	-	1	3	-	-	-	-	<i>Pseudomonas</i> (Talc formulation) – 2 kg <i>Trichoderma viride</i> (Talc) – 2 kg
10	Crop Production	Horse gram	Low productivity ; Non adoption of improved variety	-	Demonstration of Horse gram variety CRIDA 18 R	-	-	1	2	0.8	-	-	-	-

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 production	Bush type lab lab	Growing of long duration low yielding varieties	-	Demonstration of bush type lab lab CO(Gb)14	1	-	1	3	1.5	-	-	-	-
12	Crop production	Snake Gourd	Growing of low yielding and keeping quality varieties	-	Demonstration of snake gourd PLR 2	1	-	1	3	0.07	-	-	-	-
13	Crop production	Cluster bean	Low yield of existing varieties	-	Demonstration of cluster bean variety MDU1	1	-	1	3	0.05	-	-	-	-
14	Crop protection	Guava	Non pruning , Uncared Orchard, Poor quality fruits, Non adoption of ICM practices	-	Integrated Crop Management Practices In Guava	1	-	1	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 live stock (No.)	Supply of bio products	
													No	Kg
15	Crop protection	<i>Loranthus Falcatus</i>	Parasite Mistletoe infestation affects yield; survival of mango / citrus/ Sapota/ Guava	-	Base banding with 1% 2,4 – D for xylem translocation (Source: KAU)	1	-	2	4	-	-	-	-	-
16	Enterprise	Mango	Perishable nature & Lack of Knowledge in value addition	-	Demonstration of osmo -air dried mango slices	1	-	-	5	-	-	-	-	-
17	Enterprise	Sapota	Low market price, Perishable nature and Lack of Knowledge in value addition	-	Demonstration of sapota candy	1	-	-	5	-	-	-	-	-
18	Enterprise	Papaya	Market fluctuation, & Perishable nature	-	Demonstration of value added products from papaya	1	-	-	5	-	-	-	-	-

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
19	Live stock	Desi egg	Breakage of large number of desi eggs due to calcium deficiency syndrome	-	Demonstration of calcium supplement to desi backyard poultry for prevention of breakage of eggs	1	-	-	4	-	-	-	-	-
20	Live stock	Parasitic control on Dairy animals, shed-wall & floor	Lack of knowledge on the usage of ethno-veterinary Medicines. Low feed intake & low milk yield due to parasite infestation	-	Demonstration of ethno-veterinary medicine for control of external parasites in dairy cow	1	-	-	4	-	-	-	-	-

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
21	Live stock	Artificial insemination in native goat	Low kidding percentage, slow growth, low body weight due to inbreeding depression	-	Demonstration of artificial insemination using boer semen to native goat of Vellore district	1	-	-	3	-	-	-	-	-
22	Crop production	Fodder	Poor knowledge on new variety of fodder crops.	-	Demonstration of fodder bank for dairy cows using new varieties	1	-	2	4	Cumbu Napier grass 18000 nos (singles bud) Fodder sorghum 0.03 Hedge Lucerne 0.05	-	-	-	-
23	Farm implements	Sugarcane	Non availability of labour, Low production rate @ 400 cane buds /hr by hand operated cutter, Severe shoulder pain during bud chipping operation Insufficient to produce 6000 buds/ac. in a day with one machine	-	Demonstration of motorized sugarcane bud chipper for SSI	1	-	-	5	-	-	-	-	-

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
24	Enterprise	Waste to energy conversion	No utilization of kitchen waste for energy conversion Spending money for disposing kitchen waste No awareness for the production of biogas from kitchen waste	-	Demonstration of Biogas plant from kitchen waste	1	-	-	3	-	-	-	-	-
25	Live stock	IFS Incubators and Fodder sets	Poor hatchability and less number of chick's production by natural incubation. Feeding of low quality local gross. Low net farm income.	-	Integrated Farming System	1	-	-	3	-	-	-	-	-

3.B2. Details of technology used during reporting period

S. No	Title of Technology	Source of technology	Crop/ enterprise	No. of programmes conducted			
				OFT	FLD	Training	Others (Field days, Exhibition)
1	2	3	4	5	6	7	8
1	Assessment of Ragi varieties against blast disease	TNAU, UAS, Bangalore	Ragi	5	-	2	3
2	Assessment of Drought resistant Groundnut Variety for Vellore District	BARC, Mumbai	Groundnut	5	-	3	4
3	Assessment of high market value green chilli hybrids for Vellore district	IIHR Bangalore	Chilli	10	-	2	2
4	Assessment of harvesting Samai using rotary cutter	TNAU	Samai	10	-	2	3
5	Assessment of desi chicken breeds with minimum supplementary feeding for egg production	TANUVAS	Desi chicken	6	-	2	4
6	Demonstration of rice variety TKM 13 in Vellore dist (seed production mode)	TNAU	Rice	-	10	3	5
7	Demonstration of sunhemp under seed production mode	TNAU	Sunhemp	-	5	2	3
8	Demonstration of Spot Bio drenching against wilt disease in Redgram	TNAU	Redgram	-	10	3	3
9	Demonstration of biological control of beans Root rot in Yelagiri hill	TNAU	Beans	-	10	2	3
10	Demonstration of Horse gram variety CRIDA 18 R	CRIDA, Hyderabad	Horsegram	-	10	1	2
11	Demonstration of bush type lab lab CO(Gb)14	TNAU	Lablab	-	10	2	3
12	Demonstration of snake gourd PLR 2	TNAU	Snake gourd	-	10	2	3
13	Demonstration of cluster bean variety MDU1	TNAU	Cluster bean	-	5	2	3
14	Integrated Crop Management Practices In Guava	TNAU	Guava	-	5	2	2
15	Base banding with 1% 2,4 – D for xylem translocation (Source: KAU)	KAU, Vellanikara	<i>Loranthus Falcatus</i>	-	10	3	4
16	Demonstration of osmo -air dried mango slices	TNAU	Mango	-	5	1	5
17	Demonstration of sapota candy	TNAU	Sapota	-	10	1	5
18	Demonstration of value added products from papaya	TNAU	Papaya	-	5	1	5
19	Demonstration of calcium supplement to desi backyard poultry for prevention of breakage of eggs	TANUVAS	Desi egg	-	10	1	4
20	Demonstration of ethno- veterinary medicine for control of external parasites in dairy cow	TANUVAS	Parasitic control on Dairy animals, shed-wall & floor	-	10	-	4
21	Demonstration of artificial insemination using boer semen to native goat of Vellore district	TANUVAS	Artificial insemination in native goat	-	20	1	3
22	Demonstration of fodder bank for dairy cows using new varieties	TANUVAS	Fodder	-	20	3	4
23	Demonstration of motorized sugarcane bud chipper for SSI	CIAE Regional Centre, Coimbatore	Sugarcane	-	10	1	5
24	Demonstration of Biogas plant from kitchen waste	TNAU	Waste to energy conversion	-	10	1	3
25	Integrated Farming System	TNAU	Fodder, Cattle, Poultry	-	3	-	3

3.B2 contd..

No. of farmers covered															
OFT				FLD				Training				Others ((Field days, Exhibition)			
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
19	2	13	2	133	40	10	5	927	232	126	87	1532	412	627	263

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	Animal Science	TOTAL
Integrated Nutrient Management	-	-	-	-	-	-	-	-	-	-
Varietal Evaluation	-	1	-	-	1	-	-	-	-	2
Integrated Pest Management	-	-	-	-	-	-	-	-	-	-
Integrated Crop Management	-	-	-	-	-	-	-	-	-	-
Integrated Disease Management	1	-	-	-	-	-	-	-	-	1
Small Scale Income Generation Enterprises	-	-	-	-	-	-	-	-	-	-
Weed Management	-	-	-	-	-	-	-	-	-	-
Resource Conservation Technology	-	-	-	-	-	-	-	-	-	-
Farm Machineries	1	-	-	-	-	-	-	-	-	1
Integrated Farming System	-	-	-	-	-	-	-	-	-	-
Seed / Plant production	-	-	-	-	-	-	-	-	-	-
Value addition	-	-	-	-	-	-	-	-	-	-
Drudgery Reduction	-	-	-	-	-	-	-	-	-	-
Storage Technique	-	-	-	-	-	-	-	-	-	-
Mushroom cultivation	-	-	-	-	-	-	-	-	-	-
Total	2	1	-	-	1	-	-	-	-	4

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flowers	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										
Total										

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		1				1
Feed and Fodder						
Small Scale income generating enterprises						
TOTAL		1				1

4.A.4. 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						
TOTAL						

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	Groundnut	Assessment of Drought resistant Groundnut Variety for Vellore District	5	5	4
	Chilli	Assessment of high market value green chilli hybrids for Vellore district	10	10	4
Integrated Pest Management					
Integrated Crop Management					
Integrated Disease Management	Ragi	Assessment of Ragi varieties against blast disease	5	5	1
Small Scale Income Generation Enterprises					
Weed Management					
Resource Conservation Technology					
Farm Machineries					
Integrated Farming System					
Seed / Plant production					
Value addition					
Drudgery Reduction	Farm Mechanization	Assessment of harvesting Samai using rotary cutter	10	10	4
Storage Technique					
Mushroom cultivation					
Total			30	30	13

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					
Total					

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	Poultry	Assessment of desi chicken breeds with minimum supplementary feeding for egg production	6	6
Feed and fodder				
Small scale income generating enterprises				
Total			6	6

4.B.4. Technologies Refined 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				
Total				

**4.C1. Results of Technologies Assessed
Results of On Farm Trial 1**

Crop/ enterprise	Farming situation	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 needed	Justifi cation for refine ment
1	2	3	4	5	6	7	8	9	10	11	12
Ragi	Irrigated	Blast disease incidence ranges from 34.6 to 67.5 PDI Total crop loss under uncontrolled condition Unpredicted climatic variation influences the disease epidemic	Assessment of Ragi varieties against blast disease	5	TO -1 Ragi GPU 28 TO – 2 CO (Ra) 15 (TNAU, CBE) TO –3 Ragi ML 365 (UAS, Bangalore)	Disease incidence (PDI)	TO - I 51.45 TO – II 47.72 TO –III - 4.05	1. Ragi ML 365 shown resistant to blast disease 2. Significant reduction in disease incidence from 51.4 to 4.05 % 3. Yield increase was 35.7 % over CO 15 4. Finger size is bigger than Co 15 & GPU 28	No disease incidence in Ragi ML 365 variety. The finger size is bigger but colour of grain is not up to the mark of Co15	No	-

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:	UAS, Bangalore	18.15	q/ha	4774	1.1
Technology option 2:	TNAU, Coimbatore	26.27	q/ha	22474	1.5
Technology option: 3	UAS, Bangalore	40.87	q/ha	58774	2.3

Results of On Farm Trial -2

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trial s	Technolog y Assessed	Parameter s of assessment	Data on the parameter		Results of assessment	Feedback from the farmer	Any refine ment needed	Justific ation for refineme nt
							TO1	TO2				
1	2	3	4	5	6	7	TO1	TO2	9	10	11	12
Ground nut	Rainf ed	Drought; Low productiv ity (Avg yield :1295 kg/ha) Poor plant populatio n; No awarenes s on improved drought varieties	Assessm ent of Drought resistant Groundn ut variety for Vellore district	0 5	Drought resistant Groundn ut variety TO1: TMV 7 TO2: TG 37A	Pod yield (q/ha) No of pods/pl ant No. of plants/ m ² BCR	11.16 17.2 16.2 1.73	16.96 27.6 18.8 2.59	<ul style="list-style-type: none"> • TG 37A gave 51.97% increase in yield over TMV 7 • Observed good crop stand of 18.8 plants/m² under drought condition • Early maturing and more pods/plant with 16.3% three seeded pods 	Good variety withstand drought; more number of pods and three seeded smooth pods; early maturity; lesser pests and disease incidence; but uneven filling of pods and more of immature pods observed; seeds got germinated on the receipt of slight drizzle during harvest stage	--	--

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 (Farmer's practice)	TNAU	1116	kg/ha	22125	1.73
Technology option 2	BARC, Mumbai 2004	1696	kg/ha	50571	2.59
Technology option 3					

Results of On Farm Trial 3

Crop/ enterprise	Farmin g situatio n	Problem definition	Title of OFT	No. of trials	Technolog y Assessed	Paramete rs of assessme nt	Data on the paramete r	Results of assessment		Feedback from the farmer	Any refine ment need ed	Justific ation for refineme nt
								I	II			
1	2	3	4	5	6	7	8			10	11	12
Chilli	Irrigated	Hybrid cultivation of light green coloured fruits, low market value.	Assessment of high market value green chilli hybrids for Vellore district	10	TO-I Private hybrids TO-II Arka Haritha	No . of fruits /plant Yield BCR	Numbers q/ha. Ratio	-	-	Seeds were sown in nursery in the fourth week of September 2015. The seedlings were transplanted to main field in the fourth week of October. Establishment percentage was recorded. Due to continuous heavy rain (641.1 mm in 17 rainy days) during the month of November 2015, the crop was damaged in the transplanted field. The same OFT was approved for the KVK action plan 2016-17.	-	-

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 hybrids	Farmer practice	-	q/ha	-	-
Technology option 2; Arka Haritha	IIHR, Bangalore	-	q/ha	-	-

Results of On Farm Trial 4

Crop/enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Farm implement	Rainfed	Migration of agricultural labours to hill tourism development, high labour wages, shortage of labour for harvesting samai and more drudgery involved harvesting is becoming a costly activity	Assessment of harvesting samai using rotary cutter	10	Demonstration of harvesting samai using rotary cutter	Area coverage ha/man day (ha) Saving in labours % over check (%) Cost saving in % over check (%) BCR	0.112 69.7 -9.7 1.91	Area coverage is 3.37 times more than manual harvesting Saving in labours was 69.7 % Drudgery reduced due to light weight rotary cutter	High fuel cost, need skilled person for operation		

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1: Farmers Practice – Manually harvesting using sickle	-	940	kg/ha	16136	1.95
Technology option: 3 Power operated rotary cutter	TNAU	1150	kg/ha	16051	1.91

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	I	II	III		10	11	12
Desi chicken for egg.	Homestead –Backyard system of rearing	Lack of potential egg laying desi chicken egg breeds for rural backyard farming	Assessment of desi chicken breeds with minimum supplementary feeding for egg production	6	TO-I Local breed Aseel used for egg production TO-II Nandhanam 4 variety with minimum supplemental feeding for egg production TO-III Gramapriya variety with minimum supplementary feeding for egg production	1. Average egg yield/bird/production month (Number) 2. Supplemental feed /bird/production month (Kilogram) 3. Mortality(Percent) 4. BCR	5.2	10.9	12.05	Gramapriya gave more eggs and brown shelled eggs.Sale price of gramapriya male birds was more. Mortality percent is comparatively less in Gramapriya, So gramapriya chicken performed well	Gramapriya gave more eggs and brown shelled eggs. Sale price of gramapriya male birds was more		

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 (Farmer's practice)	-	5.2	Average egg yield/bird/production month (Number)	11402	1.3
Technology option 2	Poultry Research Station, TANUVAS	10.9	Average egg yield/bird/production month (Number)	42569	2.3
Technology option 3	ICAR-Project Directorate of Poultry,Hydrabad	12.2	Average egg yield/bird/production month (Number)	56885	2.68

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 Technology Assessed	:	Assessment of Ragi varieties against blast disease
2.	Problem Definition	:	<ul style="list-style-type: none"> • Blast disease incidence ranges from 34.6 to 67.5 PDI • Total crop loss under uncontrolled condition • Unpredicted climatic variation influences the disease epidemic
3.	Details of technologies selected for assessment	:	<u>TO- 1</u> Farmers practice GPU 28
		:	<u>TO- 2</u> CO (Ra) 15
		:	<u>TO -3</u> Ragi ML 365
4.	Source of technology	:	
	Technology option 1	:	Farmers Practice
	Technology option 2	:	TNAU, Coimbatore
	Technology option 3	:	UAS, Bangalore
5.	Production system and thematic area	:	Irrigated and Plant Protection
6.	Performance of the Technology with performance indicators	:	<ol style="list-style-type: none"> 1. Disease Incidence 2. BCR 3. Yield (q/ha)
7.	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	:	The ragi ML365 variety performance against blast disease was better than other two varieties. The disease was severe in other two varieties namely Co 15 and ruling variety GPU28. The finger size is bigger and yield is higher.
8.	Final recommendation for micro level Situation	:	The ML 365 ragi variety can be recommended to farmers as blast disease resistant variety
9.	Constraints identified and feedback for Research	:	--
10.	Process of farmers participation and their reaction	:	<ol style="list-style-type: none"> 1. Meeting with line Department of Agriculture for the identification farmers 2. On campus training 3. Pre <i>rabi</i> campaign 4. Periodical field visit 5. Farmers were participated eagerly to know the improved variety. They have shown the interest to cultivate Ragi ML 365

On Farm Trial – 2

1.	Title of Technology Assessed	Assessment of Drought resistant Groundnut variety for Vellore district			
2.	Problem Definition	Low productivity (Avg yield : 1295 kg/ha) Poor plant population; No awareness on improved drought varieties			
3.	Details of technologies selected for assessment	Drought resistant Groundnut variety TO1: TMV 7 TO2: TG 37A			
4.	Source of technology	TO1: TNAU TO2: BARC, Mumbai 2004			
5.	Production system and thematic area	Crop production and varietal introduction			
6.	Performance of the Technology with performance indicators		Test parameters	TO-1	TO- 2
			Pod Yield (q/ha)	11.16	16.96
			No. of pods/plant	17.2	27.6
			No of plant/m ²	16.2	18.8
			BCR	1.73	2.59
7.	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	Good variety withstand drought; more number of pods and three seeded smooth pods; early maturity; lesser pests and disease incidence; but uneven filling of pods and more of immature pods observed; seeds got germinated on the receipt of slight drizzle during harvest stage			
8.	Final recommendation for micro level situation	Recommended for micro level adoption of the variety and approved as FLD for 2016-2017			
9.	Constraints identified and feedback for research	Non availability of seeds			
10.	Process of farmers participation and their reaction	Group meetings, on campus training, method demonstrations, off campus trainings, field days and exhibitions Farmers easily adopted the variety since drought tolerant and felt highly satisfied			

On Farm Trial – 3

1	Title of Technology Assessed	:	Assessment of high market value green chilli hybrids for Vellore district
2	Problem Definition	:	Hybrid cultivation of light green coloured fruits, low market value.
3	Details of technologies selected for assessment	:	<u>TO: 1</u> Private hybrids <u>TO- 2</u> Arka Haritha
4	Source of technology	:	IIHR, Bangalore
5	Production system and thematic area	:	Crop Production
6	Performance of the Technology with performance indicators	:	No . of fruits /plant No. of branches/plant Fruit length (cm) Fruit weight (g) Organoleptic evaluation Capsaicin and oleoresin Market preference Yield (q/ha.) BCR
7	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	:	Seeds were sown in nursery in the fourth week of September 2015. The seedlings were transplanted to main field in the fourth week of October. Establishment percentage was recorded. ~ Due to continuous heavy rain (641.1 mm in 17 rainy days) during the month of November 2015, the crop was damaged in the transplanted field. The same OFT was approved for the KVK action plan 2016-17.
8	Final recommendation for micro level situation	:	-
9	Constraints identified and feedback for research	:	-
10	Process of farmers participation and their reaction	:	-

On Farm Trial – 4

1.	Title of Technology Assessed	:	Assessment of harvesting samai using rotary cutter
2.	Problem Definition	:	Migration of agricultural labours to hill tourism development, high labour wages, shortage of labour for harvesting samai and more drudgery involved harvesting is becoming a costly activity
3.	Details of technologies selected for assessment	:	Demonstration of harvesting samai using rotary cutter
4.	Source of technology	:	
	Technology option 1	:	Farmers Practice
	Technology option 2	:	-
	Technology option 3	:	TNAU
5.	Production system and thematic area	:	Rainfed, Farm implement
6.	Performance of the Technology with performance indicators	:	Area coverage ha/man day (ha) Saving in labours % over check (%) Cost saving in % over check (%) BCR
7.	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	:	Easy to handle, high harvest efficiency and cover more area in less time.
8.	Final recommendation for micro level Situation	:	Approved as FLD for 2016 - 17 action plan
9.	Constraints identified and feedback for Research	:	High fuel consumption
10.	Process of farmers participation and their reaction	:	More number of farmers participated as they realized the worthiness of the new implement for samai harvesting

On Farm Trial – 5

1	Title of Technology Assessed	:	Assessment of desi chicken breeds with minimum supplementary feeding for egg production			
2	Problem Definition	:	Lack of potential egg laying desi chicken egg breeds for rural backyard farming and more feeding cost.			
3	Details of technologies selected for assessment	:	<u>TO-1:</u> Local breed Aseel used for egg production <u>TO-2:</u> Nandhanam 4 variety with minimum supplemental feeding for egg production <u>TO-3:</u> Gramapriya variety with minimum supplementary feeding for egg production			
4	Source of technology	:	TO: 2 Poultry Research Station, TANUVAS TO: 3 ICAR-Project Directorate of Poultry, Hyderabad			
5	Production system and thematic area	:	Poultry egg production			
6	Performance of the Technology with performance indicators	:	Parameters	F.P	R.P	A.P
			Average egg yield/bird/production month (Number)	5.2	10.9	12.05
			Supplemental feed /bird/production month (Kilogram)	2.3	2.3	2.3
			Mortality(Percent)	8	7.3	6.8
			BCR	1.3	2.3	2.68
7	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	:	Gramapriya gave more eggs and brown shelled eggs.Sale price of gramapriya male birds was more. Average egg yield/bird/production month is more in gramapriya than the Nandhanam4 and Aseel breeds with supplemental feeing.			
8	Final recommendation for micro level situation	:	-			
9	Constraints identified and feedback for research	:	-			
10	Process of farmers participation and their reaction	:	Two trainings on rearing of native chickens, feeding, vaccination and other management practices given to the farmers. Six numbers of demonstrations on varieties of native chicken, deworming, debeaking, vaccination, feeding methods, type of feeding were given to the farmers. On farm demonstration on vaccinations were given to the farmers.			

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 2015-16

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													
	Pulses					-								
1.	Horse gram	Rain fed	Rabi, 2015 -16	Horse gram	CRI DA 18R	--	Crop production and varietal introduction	Demonstration of Horse gram variety CRIDA 18R	4	4	2	8	10	---
2.	Redgram	Rainfed	Rabi 2015 -16	Red gram	LRG 41	-	Crop Production	Demonstration of Spot Bio drenching against wilt disease in Redgram	4	4	1	9	10	-
	Cereals													
3.	Rice	Irrigated	Kharif 2015	Rice	TKM13		Crop production	Demonstration of rice variety TKM 13	4	4	-	10	10	-
	Millets													
4.	Green manure	Irrigated	Rabi, 2015 -16	Sun hemp	CO1	--	Crop production and soil fertility management	Demonstration of Sun hemp under seed production mode	2	2	-	5	5	--

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													
5.	Cluster bean	Irrigated	Rabi, 2015-16	Cluster bean	MDU 1	--	Crop production and varietal introduction	Demonstration of Cluster bean variety MDU 1	2	0.2	--	5	5	Non availability of seeds
6.	Beans	Irrigated	Kharif 2015	Beans	-	Chamat hkar	Crop protection	Demonstration of biological control of beans Root rot in Yelagiri hill	4	4	10	-	10	-
7.	Lab lab	Irrigated	Kharif 2015	Lab lab	-	CO(Gb) 14	Crop Production	Demonstration of bush type lab lab CO(Gb)14	5	5	-	10	10	-
8.	Snake gourd	Irrigated	Rabi 2015-16	Snake gourd	PLR 2	-	Crop Production	Demonstration of snake gourd PLR 2	4	4	2	8	10	-
9.	Cluster bean	Irrigated	Kharif 2015	Cluster bean	-	Cluster bean MDU1	Crop Production	Demonstration of cluster bean variety MDU1	4	4	-	5	5	

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	Guava	Irrigated	Kharif /Rabi2 015-16	Guava		Allahabad	Crop Management	Integrated Crop Management Practices In Guava	2	2	-	5	5	-
11	Mango	Irrigated	Rabi 2015-16	Mango & fruit crops	Bengalura	-	Crop protection	Base banding with 1% 2,4 – D for xylem translocation (Source: KAU)	4	4	5	5	10	-
12	Mango	--	--	Mango	Neelam / Banganapalli	-	Value addition	Osmotic dehydration of Mango slices	-	-	1	4	5	-
13	Sapota	--	--	Sapota	Cricket ball	-	Value addition	Sapota candy	-	-	2	8	10	-
14	Papaya	--	--	Papaya	-	Red lady	Value addition	Demonstration of Papaya products (Jam and Tutti Fruity)	-	-	2	3	5	-

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	
15	Fodder	Irrigated	Kharif 2015	fodder crops	CO (BN) 5 CO (FS) 31 Hedge Lucerne		Crop production	Demonstration of fodder bank for dairy cows using new varieties	0.8	0.8	-	20	20	-
16	Dairy	--	--	Cow	Cross bred cow	H.F Cross cows and Jersey Cross cows	Veterinary science, Ethno-veterinary	Demonstration of ethno-veterinary medicine for control of external parasites.	10 demo (100) cattles	10 demo (100) cattles	4	6	10	-
17	Poultry	--	--	Poultry	Native desi chicken	-	Calcium supplementation by mixing the mineral mixture and shell grits in feed to laying poultry birds for increasing the egg production and to minimize breakage and leathery eggs	Demonstration of Calcium supplementation by mixing the mineral mixture and shell grits to the feed of laying poultry birds for the prevention of breakage of eggs & formation of leathery eggs	10 demos. 100 Native desi chicken per demo =1000	10 demos. 100 Native desi chicken per demo =1000	2	8	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	
18	Sheep and goat	--	--	Goat	Semen of Boer Breed	=	Artificial insemination by using frozen semen straws of Boer breed in to the female goats of native breeds on Vellore district to improve the birth weight and weight gain in kids	Artificial insemination to the native female goats of Vellore district by using frozen semen of Boer breed to increase the birth weight and weight gain in kids.	20 demos. One number of Doe in each demo. Two demo per farmer.	20 demos. One number of Doe in each demo.	1	9	10	-
19	Energy Conservation	-	-	-	-	-	-	Demonstration of Biogas plant from kitchen waste	10	10	1	9	10	-
20	Integrated Farming System	--	Hatching of desi eggs using Mini Incubator in all season	Mini Incubator	-	-	Integrated farming System	Artificial Hatching of desi eggs using Mini Incubator.	3 IFS farmers	3 IFS farmers	0	3	3	-

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

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	
	Pulses												
1	Horse gram	Rain fed	Rabi, 2015-16	Horse gram	CRI DA 18R	--	Crop production and varietal introduction	Demonstration of Horse gram variety CRIDA 18R	Rabi, 2015-16	Low	Medium	Medium	Groundnut
2	Redgram	Rainfed	Kharif, 2015	Redgram	LRG 41	-	Integrtaed disease management	Demonstration of Spot Bio drenching against wilt disease in Redgram	Kharif, 2015	Low	Medium	Medium	Groundnut
3	Cereals	Irrigated	Kharif 2015	Rice	TKM 13		Crop production	Demonstration of rice variety TKM 13	Kharif 2015	Low	Medium	High	Rice
4	Green manure	Irrigated	Rabi, 2015-16	Sun hemp	CO1	--	Crop production and soil fertility management	Demonstration of Sun hemp under seed production mode	Rabi, 2015-16	Low	Medium	Medium	Groundnut

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												
5	Cluster bean	Irrigated	Rabi, 2015-16	Cluster bean	MDU 1	--	Crop production and varietal introduction	Demonstration of Cluster bean variety MDU 1	Rabi, 2015-16	Low	Low	Medium	Groundnut
6	Beans	Irrigated	Kharif 2015	Beans	-	Chamathkar	Integrated disease management	Demonstration of biological control of beans Root rot in Yelagiri hill	Kharif 2015	Low	Medium	Medium	Samai
7	Lablab	Irrigated	Kharif 2015	Lablab	-	CO(Gb)14	Crop Production	Demonstration of bush type lab lab CO(Gb)14	Kharif 2015	Low	Medium	Medium	Brinjal
8	Snakegourd	Irrigated	Rabi 2015	Snakegourd	PLR 2	-	Crop Production	Demonstration of snake gourd PLR 2	Rabi 2015	Low	Medium	Medium	Bittergourd
	Fruit												
9	Mango	Irrigated	Rabi 2015	Mango	Bengalura	-	Crop Protection	Base banding with 1% 2,4-D for xylem translocation	Rabi 2015	Low	Medium	High	Mango
10	Guava	Irrigated	Kharif/rabi 2015	Guava	-	Allahabad safeda	Crop management	Integrated Crop Management Practices In Guava	Kharif / rabi 2015	Low	Medium	Medium	Guava
11	Fodder	irrigated	Kharif 2015	fodder crops	CO(BN)5, CO(FS) 31		Crop production	Demonstration of fodder bank for dairy cows using new varieties	Kharif 2015	Low	Medium	High	Fodder

5.B. Results of Frontline Demonstrations

5.B.1. Crops

Crop	Name of the technology demonstrated	Variety	Hybrid	Farming situation	No. of Demos.	Area (ha)	Yield (q/ha)				% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
							Demo			Check		Gross Cost	Gross Return	Net Return	** BC R	Gross Cost	Gross Return	Net Return	** BC R
							H	L	A										
Pulses																			
Horse gram	Demonstration of Horse gram variety CRIDA 18R	Horse gram	-	Rain fed	10	4	4.125	3.15	3.43	2.73	25.5	5249.1	9421.5	4172.4	1.79	5249.1	7234.5	1985.4	1.38
Redgram	Demonstration of Spot Bio drenching against wilt disease in Redgram	LRG41	-	Rainfed	10	4	7.20	6.12	6.81	5.34	27.5	21670	46325	24655	2.13	20573	36346	15773	1.76
Cereals	Demonstration of rice variety TKM 13	TKM 13	-	Irrigated	10	4	62.3	51.5	56.8	48.1	15.0	33390	79534	46144	2.39	37373	67270	29897	1.80
Green manure	Demonstration of Sun hemp under seed production mode	Sun hemp	-	Irrigated	05	2	2.68	1.99	2.40	--	--	7528	18270.4	10742.4	2.43	--	--	--	--
Vegetable	Demonstration of Cluster bean variety MDU 1	Cluster bean	-	Irrigated	05	0.2	153	129	141.2	94.4	49.58	39923.6	130468.8	90545.2	3.27	31903.6	78635.2	46731.6	2.46
Beans	Demonstration of biological control of beans Root rot in Yelagiri hill	-	Chamathkar	Irrigated	10	4	129.43	123.56	126.49	80.74	56.66	115089.3	404777.3	289688	3.52	103702.3	258377.3	154675	2.49
Lablab	Demonstration of bush type lab lab CO(Gb)14	-	CO(Gb)14	Irrigated	10	5	84.40	53.43	69.07	57.89	19.31	40678.9	117423.6	76744.7	2.88	66286.4	115775.3	49488.9	1.75
Snakepurd	Demonstration of snake gourd PLR 2	PLR 2	-	Irrigated	10	4	297.45	210.53	252.20	153.95	63.81	79386.4	302636.3	223249.9	3.83	75586.4	184738.2	109151.8	2.44

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										
Fruit							H	L	A										
Mango	Base banding with 1% 2,4-D for xylem translocation	Bengalura	-	Limited Irrigated	10	4	-	-	-	126.80	-	Under progress				45802.7	101440.8	55638.1	2.2
Guava	Integrated Crop Management Practices In Guava	-	Allaha bad safeda	Irrigated	5	2	148.80	110.76	127.05	97.20	30.70	101686.6	266813.4	165126.8	2.61	88001.6	174956.4	86954.8	1.99
Mango	Osmotic dehydration of Mango	Neelam / Bangana palli	-	--	5	-	-	-	-	-	-	2682	7320	4638	1.84	655	1210	555	2.72
Sapota	Sapota candy	Cricket ball	-	--	10	-	-	-	-	-	-	2714	6930	4216	2.55	1298	1990	692	1.57
Papaya	Demonstration of Papaya products (Jam and Tutti Fruity)	-	Red lady	--	5	-	-	-	-	-	-	2692	7499	4807	2.78	593	1070	477	1.80
Fodder	Demonstration of fodder bank for dairy cows using new varieties	CO (BN) 5, CO (FS) 31	-	Irrigated	20	0.8	1490	1232	1404	831	40.8	45121	154418	109297	3.4	34460	91388	56929	2.7
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 Spot Bio drenching against wilt disease in Redgram

Data on other parameters in relation to technology demonstrated			
Parameter with unit	Demo		Check
Disease incidence (%)	6.62		35.21
Yield (q/ha.)	6.81		5.34
BCR	2.13		1.76

Demonstration of biological control of beans Root rot in Yelagiri hill

Data on other parameters in relation to technology demonstrated			
Parameter with unit	Demo		Check
Disease incidence (%)	1.87		33.47
Plant population (m2)	21.5		14.3
Yield (q/ha.)	126.5		80.74
BCR	3.52		2.5

Demonstration of rice variety TKM 13

Data on other parameters in relation to technology demonstrated			
Parameter with unit	Demo		Check
Disease incidence (%)	4.2		6.75
No. of productive tillers / hill	23.4		19.3
1000 grain weight (g)	14.23		14.38
Yield (q/ha)	56.8		48.1

Demonstration of Horse gram variety CRIDA 18R

Data on other parameters in relation to technology demonstrated			
Parameter with unit	Demo (CRIDA 18R)		Check (Paiyur 2)
No. of pods/plant	47.5		38.1
No. of branches/plant	5.8		3.7
No. of plants/m ²	16.7		15.1

Demonstration of Sun hemp under seed production mode

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo (CO1)	Check
No. of pods/plant	12.8	--
No. of plants/m ²	27.8	--

Demonstration of Cluster bean variety MDU 1

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo (MDU 1)	Check (Pusa Navbahar)
No. of fruits/plant	122.6	69.2
Fruit length (cm)	14.3	12.6
No. of nodes/plant	17.8	14.6

Demonstration of bush type lab lab CO(Gb)14

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
No. of pods /plant	27.79	21.35
Average pod yield /plant (g)	135.56	108.94
Fruit breadth (cm)	1.77	2.80
BCR	2.88	1.76

Demonstration of snake gourd PLR 2

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
No. of fruits/plant	14.45	11.09
Single fruit weight (g)	872.61	696.17
Fruit length (cm)	36.29	43.96
BCR	3.83	2.46

Integrated Crop Management Practices In Guava

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
No.of fruits/tree	159.92	153.58
Single fruit weight (g)	171.06	136.18
BCR	2.62	1.99

Base banding with 1% 2,4 – D for xylem translocation

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
No.of infection/tree	8.6	9.0
No.of infections after 30 days	0.0	10.7
Percent regeneration	0.0	123.3
Yield (q/ha.)	-	126.8
BCR	-	2.21

Demonstration of osmo air dried mango slices

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
Average sales price per kg (Rs/kg)	300	12
Shelf life studies (in days)	123	5
Organoleptic score	9	8

Demonstration of sapota candy

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
Average sales price per kg (Rs/kg)	300	21
Shelf life studies (in days)	123	4
Organoleptic score	9	8

Demonstration of value added products from papaya

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
Average sales price per kg (Rs/kg)	300	17
Shelf life studies (in days)	158	5
Organoleptic score	9	8

5.B.2. Livestock and related enterprises

Type of live stock	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	** BC R	Gross Cost	Gross Return	Net Return	** BC R
					H	L	A										
Dairy	Demonstration of ethno-veterinary medicine for the control of external parasites in dairy cow.	H.F Cross cows and Jersey Cross cows	10 dem os. 10 Crossbred cattle per demo	10	days protected from parasites 18	days protected from parasites 14	days protected from parasites 15	days protected from parasites 21	Days protected from parasites was 5 days less than the control (20%)	Rs.9/animal/Application	-	-	-	Rs.13/animal/Application	-	-	-
Poultry	Demonstration of Calcium supplementation to desi backyard poultry for prevention of breakage of eggs.	Native desi chicken	10 dem os. 100 number of Native desi chicken per demo	10	Percent marketable egg production 100%	Percent marketable egg production 97%	Percent marketable egg production 99%	Percent marketable egg production 91%	Percent increase in marketable egg production 8%	17938	37620	19682	2.1	17323	27525	10202	1.5

Type of live stock	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										
Sheep and goat	Artificial insemination of native female goats by using Frozen semen straws of Boer breed	Semen of Boer Breed	20 demos	20	Birth weight 2.75 kg/kid	Birth weight 2.25 kg/kid	Birth weight 2.57 kg/kid	Birth weight 1.75 kg/kid	percent birth weight increase is 31%	-	-	-	-	-	-	-	-
Others (pl. specific)	Mini Incubator Integrated Farming System-Mini Incubator	-	3	3	Hatchability 88 %	85%	86.3%	75.3%	Percent increase in Hatchability 11%	11555	25602	14047	2.2	10037	15281	5244	1.5

Demonstration of ethno-veterinary medicine for the control of external parasites in dairy cow

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	check
Population of external parasites before application of medicine(No/Sq.ft)	3.2	3.2
Number of days protected from parasites after application of medicine	15	21
Cost of medicine per animals per application(Rs)	9	13

Demonstration of Calcium supplementation to desi backyard poultry for prevention of breakage of eggs.

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	check
Number of broken eggs/bird	0.3	2.4
Number of leathery eggs/bird	0.1	1.2
Percentage of marketable egg production	99	91
Net return	21276	10803

Artificial insemination of native female goats by using Frozen semen straws of Boer breed

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	check
Conception rate(Percent)	65	55
kids/kidding(Number)	1.3	1.2
Birth weight of kids(Kg)	2.57	1.75
Body weight gain at one month(Kg)	4.27	2.72

Integrated Farming System

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	check
Net income (Rupees)	14042	5244
Hatchability of eggs (Percent)	86	75
Mortality of chicks (Percent)	8	13
Body weight gain at 3 rd month(Kg)	1.18	1

5.B.3. Fisheries

Type of Breed	Name of the technology demonstrated	Breed	No. of Demo	Units/ Area (m ²)	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 ² }	Yield (q/ha)			Check if any	% Increase	*Economics of demonstration (Rs./unit) or (Rs./m ²)				*Economics of check (Rs./unit) or (Rs./m ²)				
					Demo					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																		
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

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 Mandays		% save	Savings in labour (Rs./ha)	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demo	Check			Gross cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Motorized sugarcane bud chipper	23000	Motorized sugarcane bud chipper for SSI	10	2255 buds/hr	1.0	4.5	77.7	856	78775	267359	188584	3.39	79822	263993	184171	3.31
Biogas plant	21500	Demonstration of biogas plant from kitchen waste	1	-	-	-	-	-	-	-	-	-	-	-	-	-

* 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.)

Motorized sugarcane bud chipper for SSI

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
No. of buds/hr	2255	420
Saving of man days in % over check	76.7	-
Cost saving % over check	77.6	-

Demonstration of biogas plant from kitchen waste

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
% of LPG gas saved /Family / Month (%)	72.58	-
Cost of biogas equivalent saved with LPG gas/Annum / family (Rs.)	5532	-
Quantity of bio digested slurry generated as organic fertilizer / Month (Kg)	243	-

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

S.No.	Activity	No. of activities organized	Number of participants	Remarks
1	Field days	5	115	-
2	Farmers Training	20	482	-
3	Media coverage	17	Mass	-
4	Training for extension functionaries	12	576	-
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)			Check	% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demo					Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					H	L	A										
Cereals																	
Bajra																	
Paddy																	
Sorghum																	
Wheat																	
Others (pl.specify)																	
Total																	
Oilseeds																	
Mustard																	
Safflower																	
Sesame																	
Sunflower																	
Groundnut																	
Soybean																	
Others (pl.specify)																	
Total																	
Pulses																	
Greengram																	
Blackgram																	
Bengalgram																	
Redgram																	
Others (pl.specify)																	
Total																	
Vegetable crops																	
Lablab	Demonstration of bush type lab lab CO(Gb)14	CO(Gb)14	10	5	84.40	53.43	69.07	57.89	19.31	40678.9	117423.6	76744.7	2.88	66286.4	115775.3	49488.9	1.75
Capsicum																	
Others																	
Total																	

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																	
Okra																	
Onion																	
Potato																	
Field bean																	
Others (pl.specify)																	
Total																	
Commercial crops																	
Sugarcane																	
Coconut																	
Others (pl.specify)																	
Total																	
Fodder crops																	
Maize (Fodder)																	
Sorghum (Fodder)																	
Others (pl.specify)																	
Total																	

H-High L-Low, A-Average

**Data on additional parameters other than yield (viz., reduction of percentage in weed/pest/ diseases etc.)
Demonstration of bush type lab lab CO(Gb)14**

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
No.of pods /plant	27.79	21.35
Average pod yield /plant (g)	135.56	108.94
Fruit breadth (cm)	1.77	2.80

*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
Crop Production	1	1	0	1	8	6	14	9	6	15
Weed Management										
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/Irrigation										
Seed production										
Nursery management										
Integrated Crop Management	4	58	6	64	9	9	18	67	15	82
Soil and Water Conservation										
Integrated Nutrient Management										
Production of organic inputs										
Others (pl.specify)										
Horticulture										
a) Vegetable Crops										
Production of low value and high volume crop	1	6	0	6	14	6	20	20	6	26
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl.specify) Organic farming – vegetables production	1	44	0	44	0	0	0	44	0	44
b) Fruits										
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)										

c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl.specify)										
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
f) Spices										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition	1	20	2	22	7	7	14	27	9	36
Others (pl.specify)										
Soil Health and Fertility Management										
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)										
Livestock Production and Management										
Dairy Management										
Poultry Management	1	22	0	22	1	2	3	23	2	25
Piggery Management										
Rabbit Management										

Animal Nutrition Management										
Animal Disease Management										
Feed and Fodder technology	1	20	2	22	3	0	3	23	2	25
Production of quality animal products										
Others (Advance technologies for commercial goat farming)	1	22	0	22	3	0	3	25	0	25
Home Science/Women empowerment										
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	3	13	35	48	0	30	30	13	65	78
Women empowerment										
Location specific drudgery production										
Rural Crafts										
Women and child care										
Others (pl.specify)										
Agril. Engineering										
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)										
Plant Protection										
Integrated Pest Management	1	18	4	22	6	0	6	24	4	28
Integrated Disease Management	1	0	0	0	8	8	16	8	8	16
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others (pl.specify)										
Fisheries										
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)										
Production of Inputs at site										
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	4	84	40	124	3	3	5	87	42	129
Apiculture										
Others (Production of Spirulina)										
Capacity Building and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
Others (pl.specify)										
Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (Pl. specify)										
TOTAL	20	308	89	397	62	71	132	370	159	529

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production	1	30	7	37	0	0	0	30	7	37
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)										
Horticulture										
a) Vegetable Crops										
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)										
Improved production technologies for jasmine										
b) Fruits										
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)										
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl.specify)										

d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
f) Spices										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (pl.specify)										
Soil Health and Fertility Management										
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)										
Livestock Production and Management										
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)										
Home Science/Women empowerment										

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	1	0	28	28	0	4	4	0	32	32
Women empowerment										
Location specific drudgery production										
Rural Crafts										
Women and child care										
Others (pl.specify)										
Agri. Engineering										
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 (Samai rotary cutter)	1	11	2	13	4	2	6	15	4	19
Plant Protection										
Integrated Pest Management										
Integrated Disease Management										
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others (pl.specify)										
Fisheries										
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)										
Production of Inputs at site										
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	1	34	0	34	0	0	0	34	0	34
Apiculture										
Others (pl.specify)										
Capacity Building and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
Others (pl.specify)										
Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (Pl. specify)										
TOTAL	4	75	37	112	4	6	10	79	43	122

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										
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)										
TOTAL										

**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	16	2	18	1	1	2	17	3	20
Participatory impact monitoring and Assessment										
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										
Total	1	16	2	18	1	1	2	17	3	20

**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)										
Total										

7.G. Sponsored training programmes conducted

S. No.	Area of training	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
1	Crop production and management										
1.a.	Increasing production and productivity of crops										
1.b.	Commercial production of vegetables										
2	Production and value addition										
2.a.	Fruit Plants										
2.b.	Ornamental plants										
2.c.	Spices crops										
3.	Soil health and fertility management										
4	Production of Inputs at site										
5	Methods of protective cultivation										
6	ICAR NMOOP training on oilseeds **	1	16	2	18	1	1	2	17	3	20
7	Post harvest technology and value addition										
7.a.	Processing and value addition										
7.b.	Others (NADP- SSI farmers training)*	23	512	102	614	58	8	66	570	110	680
8	Farm machinery										
8.a.	Farm machinery, tools and implements										
8.b.	Others (pl.specify)										
9.	Livestock and fisheries										
10	Livestock production and management										
10.a	Animal Nutrition Management										
10.b	Animal Disease Management										
10.c	Fisheries Nutrition										
10.d	Fisheries Management										
10.e	Others (pl.specify)										
11.	Home Science										
11.a	Household nutritional security										
11.b	Economic empowerment of women										
11.c	Drudgery reduction of women										
11.d	Others (pl.specify)										
12	Agricultural Extension										
12.a	Capacity Building and Group Dynamics										
12.b	Others (pl.specify)										
	Total	24	528	104	632	59	9	68	587	113	700

Details of sponsoring agencies involved

* Government of Tamilnadu - NADP

** ICAR-Directorate of oilseeds and Research

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

S.No.	Area of training	No. of Courses	No. of Participants									
			General			SC/ST			Grand Total			
			Male	Female	Total	Male	Female	Total	Male	Female	Total	
1	Crop production and management											
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)											
2	Post harvest technology and value addition											
2.a.	Value addition											
2.b.	Others (pl.specify)											
3.	Livestock and fisheries											
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)											
4.	Income generation activities											
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)											
5	Agricultural Extension											
5.a.	Capacity building and group dynamics											
5.b.	Others (pl.specify)											
	Grand Total											

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	5	168	7	175	-	-	-	3	2	5
Kisan Mela	4	962	553	1515	-	-	-	141	22	163
Kisan Ghosthi	1	79	12	91	-	-	-	2	-	2
Exhibition	7			20542	-	-	-	167	26	193
Film Show	33	652	132	784	147	28	175	103	66	169
Method Demonstrations	64	5523	1102	6625	593	77	670	27	6	33
Farmers Seminar	-	-	-	-	-	-	-	-	-	-
Workshop	-	-	-	-	-	-	-	-	-	-
Group meetings	-	-	-	-	-	-	-	-	-	-
Lectures delivered as resource persons	38	1403	563	1966	172	25	197	18	4	22
Newspaper coverage	35	Mass								
Radio talks	11	Mass								
TV talks	17	Mass								
Popular articles	15	Mass								
Extension Literature	13	Mass								
Advisory Services	739	542	46	588	98	53	151	-	-	-
Scientific visit to farmers field	50	42	9	51	6	2	8	-	-	-
Farmers visit to KVK	739	542	46	588	98	53	151	-	-	-
Diagnostic visits	42	51	19	70	5	2	7	5	-	5
Exposure visits	2	38	2	40	-	-	-	-	-	-
Ex-trainees Sammelan										
Soil health Camp	1	135	8	143	-	-	-	4	1	5
Animal Health Camp	-	-	-	-	-	-	-	-	-	-
Agri mobile clinic	-	-	-	-	-	-	-	-	-	-
Soil test campaigns	-	-	-	-	-	-	-	-	-	-
Farm Science Club Conveners meet	-	-	-	-	-	-	-	-	-	-
Self Help Group Conveners meetings	-	-	-	-	-	-	-	-	-	-
Mahila Mandals Conveners meetings	-	-	-	-	-	-	-	-	-	-
Farmers Field School (specify)	-	-	-	-	-	-	-	-	-	-
Any Other (Specify) Advisory Services (Over phone)	-	-	-	-	-	-	-	-	-	-
Zonal workshop	11	-	-	-	-	-	-	483	165	648
Total	1827	10137	2499	33178	1119	240	1359	953	292	1245

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	Groundnut		TG37A	0.45	4050	
Pulses	Pigeonpea	ICPH 2740	-	0.3	4500	
	Horsegram	CRIDA18 R	-	0.23	805	
	Horsegram	Paiyur 1	-	0.1	350	
Commercial crops						
Vegetables	Clusterbean	MDU1	-	0.014	1120	
Green manure	Sunhemp	CO 1	-	0.05	300	
	Daincha	-	-	0.03	180	
Flower crops						
Spices						
Fodder crop seeds	Guinea grass	CO 4	-	36740 nos	18370	13
Fiber crops						
Forest Species						
Others (specify)						
Total				1.174	29675	13

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						
Ornamental plants						
Medicinal and Aromatic						
Plantation						
Spices						
Tuber						
Fodder crop saplings						
Forest Species						
Others(specify)						
Total						

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	351	10530	27
Total		351	10530	27

9.D. Production of livestock materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	Number of farmers to whom provided
Dairy animals				
Cows				
Buffaloes				
Calves	Jersey cross 2,HF Cross 1	3	90000	not sold
Others (Pl. specify)				
Poultry	Aseel	215 kg live weight and 810 hatchable eggs weresold	46536	122 farmers benefitted
Broilers				
Layers				
Duals (broiler and layer)				
Goats		6 adultgoats and 4 kids were present	10000	not sold
Turkey				
Emu				
Ducks				
Others (Pl. specify)				
Piggery				
Piglet				
Others (Pl.specify)				
Fisheries				
Fingerlings				
Others (Pl. specify)				
Total		168	146536	

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

Item	Title	Authors name	Number
Research Note	Predisposing of Banana to head rot disease caused by <i>Erwinia carotovora</i> sub. sp. <i>carotovora</i> under higher temperature in Vellore District, Tamil Nadu,	Sendhilvel, V. and Pandiyan, M.	500
Research Note	Challenges of soil borne pathogens and biocontrol agents, a dreadful competition for healthy crop	Sendhilvel, V., Pandiayn, M., Suganthi, M.Nakkeeran, S. and Raguchander, T	500
Research abstract	Innovative on three tier bed system for cultivation of milky mushroom in Vellore District	Sendhilvel V., and M.Pandiyan	300
Research article	Farm Women Empowerment through Commodity Group Approach	Noorjehan A.K.A. Hanif and V.Krishnamoorthi	4000
	Effect of Foliar Nutrition on Growth, Yield and Quality of Mango	V.Krishnamoorthi and Noorjehan A.K.A. Hanif	4000
	Awareness, Knowledge and Adoption of Reclamation practices in sodic soil of Tirucirappalli district in Tamil Nadu	Noorjehan A.K.A.Hanif	5000
	Effect of high harvest index varieties and different crop spacing on blackgram (<i>Vigna mungo</i> L.) under north eastern zone of Tamil Nadu	P.Veeramnai, M. Pandiyan, P. Sridhar and T. Balaji	5000
	Effect of pineal proteins/peptides 10-20 kDa on immune-potential in Guinea pigs for <i>Brucella abortus</i> strain 19 vaccine	M.Ramasamy, R.S, Srivastava, M.Balagangathara thilagar, D.Jayanthi	2000
	Studies on effect of little millet supplementation on serum glucose in type 2 diabetics.	K.P. Sivakumar S.Joshua Davidson and M.Pandiyan	4500
	Effect of sugar concentration on quality of sapota candy.	K.P. Sivakumar S.Joshua Davidson and M.Pandiyan	4500
TOTAL			30300

Item	Title	Authors name	Number
News letters	-	-	-
Popular articles	Precision farming techniques in cucurbit crops (Tamil)	B.K.Savitha, V.Rajshree., M.Pandiyan	1500
	Lime VRM-1	M.Pandiyan, K.Ramasamy B.K.Savitha, S.Mariappan,V.Ravi	1500
	Azolla alternate feed for cattle (Tamil)	Noorjehan A.K.A.Hanif and R.P.Gnamamalar	2500
	Spirulina production methods and uses (Tamil)	Noorjehan A.K.A. Hanif, M.Pandiyan and S.Joshua Davidson	1500
	Groundnut cultivation	P.Veeramnai, M. Pandiyan	3000
	Importance of drip irrigation	P.Veeramnai, M. Pandiyan, P. Sridhar	1500
	Management of prosopis juliflora	P.Veeramnai, M. Pandiyan, S. Joshua Davidson	2500
	Importance of summer ploughing for korai management	P.Veeramnai, M. Pandiyan, S. Joshua Davidson P. Sridhar	10000
	Effect of mineral deficiency and their remedies in livestock and Poultry (Tamil)	Dr.M.Ramasamy,Dr.S.Joshua Davidson and Dr.M.Pandian	15000
	Effects of external parasites and their preventive measures in livestock and poultry (Tamil)	Dr.M.Ramasamy,Dr.S.Joshua Davidson and Dr.M.Pandian	15000
	Curry leaf is a nutritious leaf	K.P.Sivakumar, M.Prasantharajan and M.pandiyan	5000
	Preparation of banana pickle from immature raw banana	K.P.Sivakumar, M.Prasantharajan and M.pandiyan	5000
Seminar Research abstract	Commodity group extension for sustainable agricultural development	Noorjehan A.K.A.Hanif, M.Asokhan, S. Joshua Davidson and M.Pandiyan	4000
	Assessment and popularization of area specific mineral mixture for enhancing livelihood of dairy farmers	Noorjehan A.K.A. Hanif, V.Krishnamoorthi, M.Asokhan, and R.P.Gnamamalar	300
	Black gram cultivation and marketing through commodity group approach	Noorjehan A.K.A. Hanif, M.Asokhan, and R.P.Gnamamalar	300
	Diffusion of KVK triggered direct sown drumseeder technology and its macro level impact	S. Joshua Davidson, P. Sridhar and M.Pandiyan	300
	Innovation on three tier bed system for cultivation of milky mushroom in Vellore district	V.Sendhilvel and M.Pandiyan	300
	Effect of behavior of native chicken on the production performance	M.Ramasamy, M.Pandiyan, P.Sridhar, M.Prasantharajan and T.Balaji	300
Booklet	IPM and INM in Banana	V. Sendhilvel S. Joshua Davidson, . Pandiyan, B. K. Savitha, P. Veeramani	400
	SSI in Sugarcane	P. Veeramani, S. Joshua Davidson, M. Pandiyan, P. Sridhar, V. Sendhilvel	400
	Integrated crop management in groundnut	Noorjehan A.K.A.Hanif, S. Joshua Davidson, M.Pandiyan, P.Sridhar, P.Veeramani and V.Sendhilvel	500
	Irrigated groundnut cultivation practices	Noorjehan A.K.A.Hanif, S. Joshua Davidson, M.Pandiyan, P.Sridhar, P.Veeramani and V.Sendhilvel	500
	Paddy cultivation techniques (Tamil)	P.Veeramani, S. Joshua Davidson, M.Pandiyan, P.Sridhar, V.Sendhilvel and Noorjehan A.K.A. Hanif	500
TOTAL			71800

Item	Title	Authors name	Number
Booklet	Oilseeds Production technologies	Noorjehan A.K.A.Hanif, S. Joshua Davidson, M.Pandiyan, P.Sridhar, P.Veeramani and V.Sendhilvel	500
	Value addition from minor millets	Dr.K.P.Sivakumar Dr. S. Joshua Davidson Dr.M.Pandian Dr. P. Veeramani Dr. V. Sendhilvel	100
Folder	Soil sampling method	T.Balaji, S. Joshua Davidson, M.Pandian. P.Sridhar, B.K.Savitha, V. Sendhilvel, P. Veeramani	500
	Integrated crop management practices in banana	V. Sendhilvel,, S. Joshua Davidson, B. K. Savitha, P. Veeramani	500
Book without ISBN	Integrated crop management in groundnut (Tamil)	Noorjehan A.K.A.Hanif, S. Joshua Davidson, M.Pandiyan, P.Sridhar, P.Veeramani and V.Sendhilvel	500
	Irrigated groundnut cultivation practices (Tamil)	Noorjehan A.K.A.Hanif, S. Joshua Davidson, M.Pandiyan, P.Sridhar, P.Veeramani and V.Sendhilvel	500
	Oilseeds Production technologies (Tamil)	Noorjehan A.K.A.Hanif, S. Joshua Davidson, M.Pandiyan, P.Sridhar, P.Veeramani and V.Sendhilvel	500
TOTAL			3100

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).

Title of the Success Story 1		Drought resistant groundnut variety boosted farmers' income
Details of Success Story		:
1.	Background	: Vellore district is known for groundnut cultivation covering an area of 44506 ha wherein 92% of the crop is grown in rainfed condition. Farmers were continuously using very old variety TMV 7, the productivity of which is very low and not yielding well in early and terminal droughts. Moreover the farmers were not aware of the latest high yielding and drought resistant varieties. Under these circumstances, KVK intervened through On Farm Trial introducing the new variety in groundnut
2.	Intervention process	: <ul style="list-style-type: none"> • Assessment of groundnut TG 37A variety through OFT • Organized meeting with the farmers involving officials of the Department of Agriculture through ATMA programme • Awareness created through TV programmes, exhibitions and melas • Field day was organized during the harvest of the crop with farmers and department officials
3.	Intervention Technology	: <ul style="list-style-type: none"> • Demonstration of groundnut TG 37A variety • Method Demonstration of seed treatment with bio control agents (<i>Trichoderma viride</i>) • Soil application of gypsum and earthing up after 45 DAS to boost up the peg formation • Hand weeding twice after 20 DAS and 45 DAS •
4.	Impact Horizontal Spread	: <ul style="list-style-type: none"> • Demonstrated farmers sold the seeds to 42 fellow farmers of villages Chozhamur, Edapalayam and Rengampet
5.	Impact Economic Gains	: <ul style="list-style-type: none"> • Farmers gained highest net income of Rs.50571/- per hectare by cultivating the variety TG 37A under drought condition
6.	Impact on Employment GeneRation	: <ul style="list-style-type: none"> • Due to the increase in yield of TG 37 A with good crop stand, number of man days was also increased to 12%

Title of the Success Story 2		:	Bio control agents boom the beans cultivation of Yelagiri tribal farmers
Details of Success Story		:	
1.	Background	:	The beans cultivation in tribal areas of Nilavoor village in Yelagiri is a lively hood and high remunerative crop. The farmers of Nilavoor village often faced the crop loss due to soil borne diseases in beans cultivation and they could not find the cause and etiology of the disease. The management of the root rot disease in hilly region is a major problem and also fetched high cost of inputs due to the indiscriminate use of pesticides.
2.	Intervention process	:	<ol style="list-style-type: none"> 1. Diagnostic field visit for the estimation of disease severity and crop loss 2. Meeting with farmers to explain about the root rot disease and management 3. Method Demonstration of biocontrol agents use 4. Method Demonstration of Bio control agents application 5. Interaction in field condition 6. Bio pesticide training to farmers with IIHR scientists. 7. Linkage with Horticultural Department to provide subsidy for biocontrol agents.
3.	Intervention Technology	:	Soil application <i>P. fluorescens</i> and <i>T. viride</i> each @ 2.5 kg / ha + 50 kg FYM at the time of basal and 30 DAS during earthing up operation
4.	Impact Horizontal Spread	:	The Demonstration was done for 10 farmers through FLD programme. Based on the awareness created, farmers were linked to the line Department of Horticulture to obtain the bio control agents on subsidy basis for the supply of biocontrol agents. The spread of the use of bio control agents for beans cultivation was noticed.
5.	Impact Economic Gains	:	The average yield increase was recorded by the farmers to be 29 % when compared to untreated control. The cost benefit Ratio obtained in the demonstrated plot was 3.5 against control plot 2.5. It is interestingly realized that indiscriminate use of pesticide was prevented and saved the cost of pesticides of Rs. 2600/ha
6.	Impact on Employment Generation	:	Due to increasing picking numbers in harvest, 30 man days of employment was generated.

Title of the Success Story 3		: Sustainable income from fodder bank
Details of Success Story		:
1.	Background	: Progressive farmer Mr. Venkatesan has faced loss due to high feed concentrate cost and less availability of green fodder. He approached KVK for the solution for increasing green fodder availability with new fodder varieties
2.	Intervention process	: FLD on fodder bank, training and technical advisory services
3.	Intervention Technology	: Cumbu Napier Grass CO (BN) 5, Fodder sorghum CO (FS) 31 and <i>Desmanthus</i>
4.	Impact Horizontal Spread	: The farmer after gaining confidence now started producing green fodder seed materials and sold 36000 stem cuttings to 19 farmers and 120 kgs of CO (FS) 31 seeds to 28 farmers.
5.	Impact Economic Gains	: He harvested 149.06 t / ha of green fodder, 36000 stem cuttings and 120 kg fodder seed. His cultivation expenditure was Rs.45213/ha. The farmer gained a net income of Rs.163873/ha.
6.	Impact on Employment Generation	: 21 man days were used for fodder stem cutting and processing fodder seeds

Title of the Success Story 4		: School dropout turned sapota candy entrepreneur
Details of Success Story		:
1.	Background	: A school dropout unemployed women served as a house wife for the past 15 years
2.	Intervention process	: FLD, training, method Demonstrations and advisory services
3.	Intervention Technology	: Preparation of sapota candy
4.	Impact Horizontal Spread	: Two SHGs started sapota candy business
5.	Impact Economic Gains	: Earned a net income of Rs.6000/-per month
6.	Impact on Employment Generation	: Three women are employed under the entrepreneur.

Title of the Success Story 5		:	Increase the saleable desi egg production in Vellore district
Details of Success Story		:	
1.	Background	:	The number of desi egg production in Vellore district is 98.82 lakhs. The reason for low desi egg productivity in Vellore district is due to less supplemental feeding, less mineral (Calcium) intake and less vitamin supplementation in the feed. So 8-15% of the eggs laid were broken and 2% were leathery in nature.
2.	Intervention process	:	FLD, method demonstration, training, campaign, mela and technical advisory services <ul style="list-style-type: none"> ➤ Training to 25 Farmers on varieties and rearing of native desi birds ➤ Two T.V talks on varieties of desi chickens and rearing techniques ➤ Six varieties of desi chickens and their production potentials was exhibited in two exhibitions and two awareness campaign
3.	Intervention Technology	:	Demonstration of supplementation of calcium by giving Shell grits 4 gm/bird /day <ul style="list-style-type: none"> ○ Providing mineral mixture @ 1kg/100 kg of feed ○ Providing green grass and azolla to desi birds to reduce cost of feed.
4.	Impact Horizontal Spread	:	Farmers learnt to give mineral mixture and vitamins supplementation during growing stage and shell grit at laying stage reduced breakage to 0.5 % and leathery eggs by 0 % percent. This technology has increased the number of saleable eggs by 10 %. About 14 desi egg production units at the Demonstration villages were adopting the mineral, vitamins and shell grit feeding technology. The technology of feeding the mineral, vitamins and shell grit was demonstrated to 1370 farmers during training, animal campaign, Kharif and Rabi melas. The availability of mineral, vitamins and shell grit was also sensitized to 176 farmers through technology advisory services
5.	Impact Economic Gains	:	The net return of the farmers increased to 13.5 %
6.	Impact on Employment Generation	:	-

Title of the Success Story 6		: Guava cultivation-Sustain the livelihood in tropical condition
Details of Success Story		:
1.	Background	: Progressive farmer, faced loss due to non-adoption of ICM Practices in Guava
2.	Intervention process	: FLD, Method Demonstration and Technical advisory services
3.	Intervention Technology	: Pruning and Micronutrient spray
4.	Impact Horizontal Spread	: Nearly 28% of farmers started pruning guava trees
5.	Impact Economic Gains	: Yield increase of 23.5% was recorded in Rabi season and the BCR ratio was 2.48%
6.	Impact on Employment Generation	: 8 Skilled labours were employed for pruning 1 ha of guava orchard.

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	Sugarcane 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
1	Mushroom	Three tier method system for milky mushroom cultivation	To double the production
2	Paddy	Cultivating traditional rice varieties Iluppai poo samba and Soorakkuruvai	Grown for good nutrient content; Less disease incidence; Good variety for organic farming
3	Paddy	Cultivating Arcot kichli samba variety	Highly nutritious local variety
4	Millets-Samai	Cultivating karunjamai	More nutritious local variety ; Good for organic farming
5	Millets-Samai	Cultivating karunjamai	More nutritious local variety ; Good for organic farming
6	Millet - Sorghum	Cultivating Thalaivirichan cholam	Drought tolerant variety ; Grows very tall and non lodging ; Red grains are nutritious ; Birds do not affect ear head.

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
Total		16	553300

Details of samples analyzed during the 2015-16 :

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)
Soil Samples	224	156	79	7250
Water Samples	64	48	48	3450
Plant samples	-	-	-	-
Manure samples	3	1	1	750
Others (specify)	-	-	-	-
Total	291	205	128	11450

10.I. Technology Week celebration during 2015-16 : 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	-	-	-

Types of Activities	No. of Activities	Number of Farmers	Related crop/livestock technology
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		
Vegetable crops		
Tuber crops		
Total		

C. Farmers-scientists interaction on livestock management

State	Livestock components	Number of interactions	No.of participants
Total			

D. Animal health camps organized

State	Number of camps	No.of animals	No.of farmers
Total			

E. Seed distribution in drought hit states

State	Crops	Quantity (qtl)	Coverage of area (ha)	Number of farmers
Total				

F. Large scale adoption of resource conservation technologies

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

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	3	287	-	-	-	-	-	-	-	-	3	287
Total	3	287	-	-	-	-	-	-	-	-	3	287

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)
Biological control of diseases in beans	10	32 %	124600	218300
Demonstrated Bush type lablab CO(Gb)14	10	7%	42573	75836
Demonstrated Snakegourd variety PLR 2	10	8%	96810	214341
Pruning and Micronutrient spray in guava	5	15%	78934	162032
Introduced high yielding drought resistant groundnut variety, Seed treatment with bio control agents, timely weeding, gypsum application, earthing up before peg formation stage	5	8%	22125	50571
Introduced new Cluster bean variety MDU 1, package of practices were educated to the farmers through training and method demonstrations.	5	5%	46732	90545

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
ATMA	Amma Farm women group under ATMA programme- Vellore, Kancheepuram and Thiruvannamalai Districts Pulse production technology
VIT	Uzhavar Kalanjium (Agri expo 2015)
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
Rural welfare Association, Chittoor	Conducting training on Mushroom cultivation technology
NHM	Conducting training on Recent crop production techniques in Horticultural crops in Vellore District
Farm India, Chennai	Training on Cultivation practices of major Agricultural and Horticultural crops in Vellore District.

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.)
Sustainable Sugarcane Initiatives	Providing training to 680 farmers from Vellore and Thiruvannamalai District	26/06/2015	Government of Tamil Nadu	516800
Initiative for Nutritional Security through Intensive Millet Promotion (INSIMP)	Training and Demonstrations were conducted	1/4/2011	Government of Tamil Nadu	-
National Mission on Oilseeds & Oil Palm	Conducting training	3/1/2016	ICAR- Directorate of oil seeds Research, Junagarh	36000
FLD-Cluster Rabi pulses	Demonstrations and trainings conducted	1/9/2015	ICAR	75000
Pre-Kharif awareness programme	Awareness campaign was conducted	23/7/2015	ICAR	80000
Pre-Rabi Awareness programme	Awareness campaign was conducted	4/2/2016	ICAR	80000

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 2015-16

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 vegetable crops	4	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				
06	Publications				
	Video Films		2	2	
	Books				
	Extension Literature				
	Pamphlets				
	Others (Pl. specify)				
07	Other Activities (Pl. specify)				
	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
1	11	Collabrative training with Department of Horticulture and training imparted to farmers	-	-	-

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 2015-16	Organizing training programmes	516800	516800	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 2015	6	2052	10
May 2015	-	-	-
June 2015	-	-	-
July 2015	-	-	-
August 2015	2	260	-
September 2015	1	678	-
October 2015	4	1560	-
November 2015	4	1135	-
December 2015	2	1438	-
January 2016	1	719	-
February 2016	-	-	-
March 2016	-	-	-
Total for the year 2015-16	20	7842	

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									
Oilseeds									
Fibers									
Spices & Plantation crops									
Floriculture									
Fruits									
Vegetables									
Others (specify)									
Total									

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 2015	57	9	-
May 2015	-	-	-
June 2015	65	1	-
July 2015	680	22	-
August 2015	6	21	-
September 2015	56	1	-
October 2015	-	-	-
November 2015	-	-	-
December 2015	114	8	-
January 2016	4	13	-
February' 2016	20	16	-
March' 2016	108	7	-

13.F. Database management

S. No	Database target	Database created
1.	KVK Vellore web site	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
With KVK	State Bank of India	Poigai, Vellore District	07126	Savings account	11339974218	632002050	SBIN0007126

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

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances	9412000	10184000	9462256
2	Traveling allowances	90000		90000
3	Contingencies- 632000/-			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	109000		109000
B	POL, repair of vehicles, tractor and equipments	116000		116000
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	50000		50000
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	50000		50000
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	200000		194268
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	77000		74070
G	Integrated Farming System (IFS)	25000		25000
H	Training of extension functionaries	0		0
I	Maintenance of buildings	0		0
J	Extension Activities	50000		50000
K	Farmers 's Field School	0		0
L	Library	5000		5000
	TOTAL (A)	10184000	10184000	10225594
B. Non-Recurring Contingencies				
1	Works	-	-	-
2	Equipments including SWTL & Furniture	-	-	-
3	Vehicle (Four wheeler/Two wheeler, please specify)	-	-	-
4	Library (Purchase of assets like books & journals)	-	-	-
	TOTAL (B)	0	0	0
	C. REVOLVING FUND	0	0	0
	GRAND TOTAL (A+B+C)	10184000	10184000	10225594

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

Year	Opening balance as on 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st April of each year
April 2013 to March 2014	452482.37	140435	36620	556297.37
April 2014 to March 2015	556297.37	151901	131562	576636.37
April 2014 to March 2015	576636.37	366829	64315	868350.40

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

Name of the staff	Designation	Title of the training programme	Institute where attended	Dates
Dr.S.Joshua Davidson	Programme Coordinator	KVK 9th National conference	Patna	7/25/2015 to 7/26/2015
Dr.S.Joshua Davidson	Programme Coordinator	Training on "Management games for trainers"	MANAGE, Hyderabad	8/17/2015 to 8/22/2015
Dr.S.Joshua Davidson	Programme Coordinator	First KVK Symposium Zone VIII 2016	UAS, Dharwad	1/21/2016 to 1/22/2016
Dr.V.Sendhilvel	Subject Matter Specialist	Training programme on Oilpalm cultivation	KVK, Tindivanam	11/4/2015 to 11/5/2015
Dr.V.Sendhilvel	Subject Matter Specialist	First KVK Symposium Zone VIII 2016	UAS, Dharwad	1/21/2016 to 1/22/2016
Dr.Noorjehan A.K.A. Hanif	Subject Matter Specialist	Golden Jubilee National Extension Seminar	Indian Society of Extension Education, ICAR-IARI, New Delhi and Banaras Hindu University at Varanasi	11/5/2015 to 11/7/2015
Dr.Noorjehan A.K.A. Hanif	Subject Matter Specialist	Orientation training to newly joined KVK subject matter specialists	TNAU, Coimbatore	9/14/2015 to 9/16/2015
Dr.Noorjehan A.K.A. Hanif	Subject Matter Specialist	First KVK Symposium Zone VIII 2016	UAS, Dharwad	1/21/2016 to 1/22/2016
Dr.B.K.Savitha	Subject Matter Specialist	Orientation training to newly joined KVK subject matter specialists	TNAU, Coimbatore	9/14/2015 to 9/16/2015
Dr.B.K.Savitha	Subject Matter Specialist	Training on capacity building programme on effective office administration	TNAU, Coimbatore	9/21/2015 to 9/23/2015
Dr.B.K.Savitha	Subject Matter Specialist	Training on Agro forestry models - establishment and management	Institute of forest genetics and tree breeding, R.S. Puram, Coimbatore.	10/14/2015 to 10/16/2015
Dr.B.K.Savitha	Subject Matter Specialist	State level training programme on Oil Palm Cultivation in TamilNadu	KVK, Tindivanam	11/4/2015 to 11/5/2015

Dr.B.K.Savitha	Subject Matter Specialist	Workshop on Setting Priorities and Functional Modalities for Implementing National Agroforestry policy	FC&RI, Mettupalayam	12/10/2015 to 12/11/2015
Dr.P.Veeramani	Subject Matter Specialist	Social media for effective sharing of agricultural knowledge	TNAU, Coimbatore	6/8/2015 to 6/11/2015
Dr.P.Veeramani	Subject Matter Specialist	Training on capacity building programme on effective office administration	TNAU, Coimbatore	9/21/2015 to 9/23/2015
Dr.P.Veeramani	Subject Matter Specialist	Biogas technology	Department of Bioenergy, AEC&RI, Coimbatore	12/7/2015 to 12/10/2015
Dr.P.Veeramani	Subject Matter Specialist	National conference on Global research initiatives for sustainable agriculture and allied sciences	Astha foundation, Meerut, UP	12/12/2015 to 12/13/2015
Dr.P.Veeramani	Subject Matter Specialist	Orientation training to newly joined KVK subject matter specialists	TNAU, Coimbatore	9/14/2015 to 9/16/2015
Dr.K.P.Sivakumar	Subject Matter Specialist	Orientation training to newly joined KVK subject matter specialists	TNAU, Coimbatore	9/14/2015 to 9/16/2015
Dr.K.P.Sivakumar	Subject Matter Specialist	Training on capacity building programme on effective office administration	TNAU, Coimbatore	9/21/2015 to 9/23/2015
Dr.K.P.Sivakumar	Subject Matter Specialist	Training on Agro forestry models - establishment and management	Institute of forest genetics and tree breeding, R.S. Puram, Coimbatore.	10/14/2015 to 10/16/2015
Dr.M.Ramasamy	Subject Matter Specialist	Orientation training to newly joined KVK subject matter specialists	TNAU, Coimbatore	9/14/2015 to 9/16/2015
Dr.M.Ramasamy	Subject Matter Specialist	Training on capacity building programme on effective office administration	TNAU, Coimbatore	9/21/2015 to 9/23/2015
Dr.M.Ramasamy	Subject Matter Specialist	First KVK Symposium Zone VIII 2016	UAS, Dharwad	1/21/2016 to 1/22/2016

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

SUMMARY FOR 2015-16

I. TECHNOLOGY ASSESSMENT

Summary of technologies assessed under various crops

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha
Integrated Nutrient Management					
Varietal Evaluation	Groundnut	Assessment of Drought resistant Groundnut Variety for Vellore District	5	5	4
	Chilli	Assessment of high market value green chilli hybrids for Vellore district	10	10	4
Integrated Pest Management					
Integrated Crop Management					
Integrated Disease Management	Ragi	Assessment of Ragi varieties against blast disease	5	5	1
Small Scale Income Generation Enterprises					
Weed Management					
Resource Conservation Technology					
Farm Machineries					
Integrated Farming System					
Seed / Plant production					
Value addition					
Drudgery Reduction	Farm Mechanization	Assessment of harvesting Samai using rotary cutter	10	10	4
Storage Technique					
Mushroom cultivation					
Total			30	30	13

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			
Poultry production	Desi egg production	Assessment of desi egg production in rural back yard poultry unit in vellore district (EDP mode).	6
Total			6

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)			
Total			

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)			
Total			

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	** BC R	Gross Cost	Gross Return	Net Return	** BC R
							H	L	A										
Pulses																			
Horse gram	Demonstration of Horse gram variety CRIDA 18R	Horse gram		Rainfed	10	4	4.125	3.15	3.43	2.73	25.5	5249.1	9421.5	4172.4	1.79	5249.1	7234.5	1985.4	1.38
Redgram	Demonstration of Spot Bio drenching against wilt disease in Redgram	LRG41	-	Rainfed	10	4	7.20	6.12	6.81	5.34	27.5	21670	46325	24655	2.13	20573	36346	15773	1.76
Cereals	Demonstration of rice variety TKM 13	TKM 13		Irrigated	10	4	62.3	51.5	56.8	48.1	15 %	33390	79534	46144	2.39	37373	67270	29897	1.80
Green manure	Demonstration of Sun hemp under seed production mode	Sun hemp		Irrigated	05	2	2.68	1.99	2.40	--	--	7528	18270.4	10742.4	2.43	--	--	--	--
Vegetable	Demonstration of Cluster bean variety MDU 1	Cluster bean		Irrigated	05	0.2	153	129	141.2	94.4	49.58	39923.6	130468.8	90545.2	3.27	31903.6	78635.2	46731.6	2.47
Beans	Demonstration of biological control of beans Root rot in Yelagiri hill	-	Chamathkar	Irrigated	10	4	129.43	123.56	126.49	80.74	56.66	115089.3	404777.3	289688	3.52	103702.3	258377.3	154675	2.49
Lablab	Demonstration of bush type lab lab CO(Gb)14	-	CO(Gb)14	Irrigated	10	5	84.40	53.43	69.07	57.89	19.31	40678.9	117423.6	76744.7	2.88	66286.4	115775.3	49488.9	1.75
Snakepurd	Demonstration of snake gourd PLR 2	PLR 2	-	Irrigated	10	4	297.45	210.53	252.20	153.95	63.81	79386.4	302636.3	223249.9	3.83	75586.4	184738.2	109151.8	2.44

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										
Fruit																			
Mango	Base banding with 1% 2,4 – D for xylem translocation	Bengalura	-	Limited Irrigated	10	4	-	-	-	126.80	-	Under progress				45802.7	101440.8	55638.1	2.2
Guava	Integrated Crop Management Practices In Guava	-	Allahabad safeda	Irrigated	5	2	148.80	110.76	127.05	97.20	30.70	101686.6	266813.4	165126.8	2.61	88001.6	174956.4	86954.8	1.99
Mango	Osmotic dehydration of Mango	Neelam / Bangana palli	-	Limited irrigation	5	-	-	-	-	-	-	2682	7320	4638		655	1210	555	
Sapota	Sapota candy	Cricket ball	-	Limited irrigation	10	-	-	-	-	-	-	2714	6930	4216	2.55	1298	1990	692	1.57
Papaya	Demonstration of Papaya products (Jam and Tutti Fruity)	Red lady	Red lady	Limited irrigation	5	-	-	-	-	-	-	2692	7498	4806	2.78	593	1070	477	1.80
Fodder	Demonstration of fodder bank for dairy cows using new varieties	CO (BN) 5, CO (FS) 31		Irrigated	20	0.8	1490	1232	1404	831	40.8	45121	154418	109297	3.4	34460	91388	56929	2.7
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

Livestock and related enterprises

Type of live stock	Name of the technology demonstra ted	Breed	No. of Demo	No. of Uni ts	Yield (q/ha)				% Increase	*Economics of demonstration (Rs./unit)				*Economics of check (Rs./unit)			
					Demo			Check if any		Gross Cost	Gross Return	Net Return	** B C R	Gross Cost	Gross Return	Net Return	** B C R
					H	L	A										
Dairy	Demonstration of ethno-veterinary medicine for the control of external parasites in dairy cow.	H.F Cross cows and Jersey Cross cows	10 dem os. 10 Crossbred cattle per demo	10	days protect ed from parasit es 18	days protect ed from parasit es 14	days protect ed from parasit es 15	days protect ed from parasit es 21	Days protedted from parasites was 5 days less than the control(20%) .	Rs.9/animal/Application	-	-	-	Rs.13/animal/Applicati on	-	-	-
Poultry	Demonstration of Calcium supplementation to desi backyard poultry for prevention of breakage of eggs.	Native desi chicken	10 dem os. 100 number of Native desi chicken per demo	10	Percent market able egg produc tion 100%	Percent market able egg produc tion 97%	Percent market able egg produc tion 99%	Percent market able egg produc tion 91%	Percent increase in marketable egg production 8%	17938	37620	19682	2.1	17323	27525	10202	1.5

Type of live stock	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										
Sheep and goat	Artificial insemination of native female goats by using Frozen semen straws of Boer breed	Semen of Boer Breed	20 demos	20	Birth weight 2.75 kg/kid	Birth weight 2.25 kg/kid	Birth weight 2.57 kg/kid	Birth weight 1.75 kg/kid	percent birth weight increase is 31%	-	-	-	-	-	-	-	-
Others (pl. specify)	Mini Incubator	-	3	3	Hatchability 88 %	85%	86.3%	75.3%	Percent increase in Hatchability 11%	11555	25602	14047	2.2	10037	15281	5244	1.5

* 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.)			
						Demonstration	Check	Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR	
Common carps																		
Mussels																		
Ornamental fishes																		
Others (pl. specify)																		
		Total																

* 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
Women						
Pregnant women						
Adolescent Girl						
Other women						
Children						
Neonats						
Infants						
Children						

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 Mandays		% save	Savings in labour (Rs./ha)	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demo	Check			Gross cost	Gross Return	Net Return	**	Gross Cost	Gross Return	Net Return	**
Motorized sugarcane bud chipper	23000	Motorized sugarcane bud chipper for SSI	10	2255 buds/hr	1	4.5	77.7	856	78775	267359	188584	3.39	79822	263993	184171	3.31
Biogas plant	21500	Demonstration of biogas plant from kitchen waste	1	-	-	-	-	-	-	-	-	-	-	-	-	-

* 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**

ype of Breed	Name of the technology demonstrated	Name of the hybrid	No. of Demo	Area (ha)	Yield (q/ha)			Check	% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demo		Gross Cost			Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR	
					H	L											A
Cereals																	
Bajra																	
Paddy																	
Sorghum																	
Wheat																	
Others (pl.specify)																	
Total																	
Oilseeds																	
Mustard																	
Safflower																	
Sesame																	
Sunflower																	
Groundnut																	
Soybean																	
Others (pl.specify)																	
Total																	
Pulses																	
Greengram																	
Blackgram																	
Bengalgram																	
Redgram																	
Others (pl.specify)																	
Total																	
Vegetable crops																	
Lablab	Demonstration of bush type lab lab CO(Gb)14	CO(Gb)14	10	5	84.40	53.43	69.07	57.89	19.31	40678.9	117423.6	76744.7	2.88	66286.4	115775.3	49488.9	1.75
Capsicum																	
Others																	
Total																	

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																		
Okra																		
Onion																		
Potato																		
Field bean																		
Others (pl.specify)																		
Total																		
Commercial crops																		
Sugarcane																		
Coconut																		
Others (pl.specify)																		
Total																		
Fodder crops																		
Maize (Fodder)																		
Sorghum (Fodder)																		
Others (pl.specify)																		
Total																		

H-High L-Low, A-Average

IV. Training Programme

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production	1	1	0	1	8	6	14	9	6	15
Weed Management										
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/Irrigation										
Seed production										
Nursery management										
Integrated Crop Management	4	58	6	64	9	9	18	67	15	82
Soil and Water Conservation										
Integrated Nutrient Management										
Production of organic inputs										
Others (pl.specify)										
Horticulture										
a) Vegetable Crops										
Production of low value and high volume crop	1	6	0	6	14	6	20	20	6	26
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl.specify) Organic farming – vegetables production	1	44	0	44	0	0	0	44	0	44
b) Fruits										
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)										
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl.specify)										
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
f) Spices										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition	1	20	2	22	7	7	14	27	9	36
Others (pl.specify)										
Soil Health and Fertility Management										
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)										
Livestock Production and Management										
Dairy Management										
Poultry Management	1	22	0	22	1	2	3	23	2	25
Piggery Management										

Rabbit Management										
Animal Nutrition Management										
Animal Disease Management										
Feed and Fodder technology	1	20	2	22	3	0	3	23	2	25
Production of quality animal products										
Others (Advance technologies for commercial goat farming)	1	22	0	22	3	0	3	25	0	25
Home Science/Women empowerment										
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	3	13	35	48	0	30	30	13	65	78
Women empowerment										
Location specific drudgery production										
Rural Crafts										
Women and child care										
Others (pl.specify)										
Agril. Engineering										
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)										
Plant Protection										
Integrated Pest Management	1	18	4	22	6	0	6	24	4	28
Integrated Disease Management	1	0	0	0	8	8	16	8	8	16
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others (pl.specify)										
Fisheries										
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										
Production of Inputs at site										
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	4	84	40	124	3	3	5	87	42	129
Apiculture										
Others (Production of Spirulina)										
Capacity Building and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (Pl. specify)										
TOTAL	20	308	89	397	62	71	132	370	159	529

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production	1	30	7	37	0	0	0	30	7	37
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)										
Horticulture										
a) Vegetable Crops										
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)										
Improved production technologies for jasmine										
b) Fruits										
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)										
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl.specify)										

d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
f) Spices										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (pl.specify)										
Soil Health and Fertility Management										
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)										
Livestock Production and Management										
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)										
Home Science/Women empowerment										

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	1	0	28	28	0	4	4	0	32	32
Women empowerment										
Location specific drudgery production										
Rural Crafts										
Women and child care										
Others (pl.specify)										
Agril. Engineering										
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 (Samai rotary cutter)	1	11	2	13	4	2	6	15	4	19
Plant Protection										
Integrated Pest Management										
Integrated Disease Management										
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others (pl.specify)										
Fisheries										
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)										
Production of Inputs at site										
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	1	34	0	34	0	0	0	34	0	34
Apiculture										
Others (pl.specify)										
Capacity Building and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
Others (pl.specify)										
Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (Pl. specify)										
TOTAL	4	75	37	112	4	6	10	79	43	122

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										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production										
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)										
TOTAL										

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										
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)										
TOTAL										

**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	16	2	18	1	1	2	17	3	20
Participatory impact monitoring and Assessment										
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										
Total	1	16	2	18	1	1	2	17	3	20

**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)										
Total										

Sponsored training programmes conducted

S. No.	Area of training	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
1	Crop production and management										
1.a.	Increasing production and productivity of crops										
1.b.	Commercial production of vegetables										
2	Production and value addition										
2.a.	Fruit Plants										
2.b.	Ornamental plants										
2.c.	Spices crops										
3.	Soil health and fertility management										
4	Production of Inputs at site										
5	Methods of protective cultivation										
6	ICAR NMOOP training on oilseeds **	1	16	2	18	1	1	2	17	3	20
7	Post harvest technology and value addition										
7.a.	Processing and value addition										
7.b.	Others (NADP- SSI farmers training)*	23	512	102	614	58	8	66	570	110	680
8	Farm machinery										
8.a.	Farm machinery, tools and implements										
8.b.	Others (pl.specify)										
9.	Livestock and fisheries										
10	Livestock production and management										
10.a	Animal Nutrition Management										
10.b	Animal Disease Management										
10.c	Fisheries Nutrition										
10.d	Fisheries Management										
10.e	Others (pl.specify)										
11.	Home Science										
11.a	Household nutritional security										
11.b	Economic empowerment of women										
11.c	Drudgery reduction of women										
11.d	Others (pl.specify)										
12	Agricultural Extension										
12.a	Capacity Building and Group Dynamics										
12.b	Others (pl.specify)										
	Total	24	528	104	632	59	9	68	587	113	700

Details of sponsoring agencies involved

* Government of Tamilnadu - NADP

** ICAR-Directorate of oilseeds and Research

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

S.No.	Area of training	No. of Courses	No. of Participants									
			General			SC/ST			Grand Total			
			Male	Female	Total	Male	Female	Total	Male	Female	Total	
1	Crop production and management											
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)											
2	Post harvest technology and value addition											
2.a.	Value addition											
2.b.	Others (pl.specify)											
3.	Livestock and fisheries											
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)											
4.	Income generation activities											
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)											
5	Agricultural Extension											
5.a.	Capacity building and group dynamics											
5.b.	Others (pl.specify)											
	Grand Total											

V. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services	739	739	-	1478
Diagnostic visits	42	77	5	124
Field Day	5	175	5	185
Group discussions	-	-	-	-
Kisan Ghosthi	1	91	2	94
Film Show	33	959	169	1128
Self -help groups	-	-	-	-
Kisan Mela	4	1515	163	1682
Exhibition	7	20542	193	20742
Scientists' visit to farmers field	50	59	-	109
Plant/animal health camps	-	-	-	-
Farm Science Club	-	-	-	-
Ex-trainees Sammelan	-	-	-	-
Farmers' seminar/workshop	-	-	-	-
Method Demonstrations	64	7295	33	7392
Celebration of important days	2	246	7	255
Special day celebration	-	-	-	-
Exposure visits	2	40	-	42
Others (pl.specify)	-	-	-	-
Total	949	31738	577	33231

Details of other extension programmes

Particulars	Number
Electronic Media	-
Extension Literature	-
News Letter	-
News paper coverage	35
Popular Articles	15
Technical Bulletins	-
Technical Reports	-
Radio Talks	11
TV Talks	17
Animal health camps	-
Others (pl.specify)	-
Total	78

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	Groundnut		TG37A	0.45	4050	
Pulses	Pigeonpea	ICPH 2740	-	0.3	4500	
	Horsegram	CRIDA18 R	-	0.23	805	
	Horsegram	Paiyur 1	-	0.1	350	
Commercial crops						
Vegetables	Clusterbean	MDU1	-	0.014	1120	
Green manure	Sunhemp	CO 1	-	0.05	300	
	Daincha	-	-	0.03	180	
Flower crops						
Spices						
Fodder crop seeds	Guinea grass	CO 4	-	36740 nos	18370	13
Fiber crops						
Forest Species						
Others (specify)						
Total				1.174	29675	13

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						
Ornamental plants						
Medicinal and Aromatic						
Plantation						
Spices						
Tuber						
Fodder crop saplings						
Forest Species						
Others(specify)						
Total						

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	351	10530	27
Total		351	10530	27

Production of livestock materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	Number of farmers to whom provided
Dairy animals				
Cows				
Buffaloes				
Calves	Jersey cross 2,HF Cross 1	3	90000	not sold
Others (Pl. specify)				
Poultry	Aseel	215 kg live weight and 810 hatchable eggs were sold	46536	122 farmers benefitted
Broilers				
Layers				
Duals (broiler and layer)				
Goats		6 adult goats and 4 kids were present	10000	not sold
Turkey				
Emu				
Ducks				
Others (Pl. specify)				
Piggery				
Piglet				
Others (Pl. specify)				
Fisheries				
Fingerlings				
Others (Pl. specify)				
Total		168	146536	

VII. DETAILS OF SOIL, WATER AND PLANT ANALYSIS 2015-16

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)
Soil Samples	224	156	79	7250
Water Samples	64	48	48	3450
Plant samples	-	-	-	-
Manure samples	3	1	1	750
Others (specify)	-	-	-	-
Total	291	205	128	11450

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 : 12 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.)
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

-----XXXXXXXX-----