

TAMIL NADU DR. J.JAYALALITHAA FISHERIES UNIVERSITY



ANNUAL REPORT 2017-18

(FOR THE PERIOD FROM APRIL 2017 TO MARCH 2018)

ICAR-KRISHI VIGYAN KENDRA SIKKAL, NAGAPATTINAM DT.

ANNUAL REPORT (April-2017-March-2018) APR SUMMARY

(Note: While preparing summary, please don't add or delete any row or columns)

1. Training Programmes

Clientele	No. of Courses	Male	Female	Total participants	
Farmers & farm women	20	542	385	927	
Rural youths	6	71	109	180	
Extension functionaries	12	346	83	429	
Sponsored Training	2	38	162	200	
Vocational Training					
Total	40	997	739	1736	

2. Frontline demonstrations

Enterprise	No. of Farmers	Area (ha)	Units/Animals
Cereals	40	16	-
Vegetables	10	4.0	-
Other crops	20	8.0	-
Total	70	28.0	-
Other enterprises(EDP)	5	-	-
Total	75	28.0	-
Grand Total	75	28	

3. Technology Assessment & Refinement

Category	No.	of Technology Assessed & Refined	No. of Trials	No. of Farmers
recimology Assessed				
Croj)S	2	2	8
Tot	al	2	2	8
Technology Refined	: NIL			
Grand Tot	al	2	2	8

4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	749	5836
Other extension activities	106	Mass coverage
Total	855	5836

5. Mobile Advisory Services

		Type of Messages						
Name of KVK	Message Type	Сгор	Live stock	Weather	Marketing	Awareness	Other enterprise	Total
	Text only	7	-	-	-	7	2	16
Naga pattinam	Total Messages	7	-	-	-	7	2	16
	Total farmers Benefitted	26343	-	-	-	19547	7438	53328

5. Seed & Planting Material Production

	Quintal/Number	Value Rs.
Seed (q)	118.655	363842
Planting material (No.)	8308	53320
Bio-Products (kg)	7942.5	16318.7

6. Soil, water & plant Analysis

Samples	No. of Beneficiaries	Value Rs.
Soil	137	13700
Water	72	3650
Total		

7. HRD and Publications

S. No.	Category	Number
1	Workshops	3
2	Conferences	10
3	Meetings	3
4	Trainings for KVK officials	3
5	Visits of KVK officials	-
6	Book published	5
7	Training Manual	-
8	Book chapters	4
9	Research papers	-
10	Lead papers	-
11	Seminar papers	5
12	Extension folder	2
13	Proceedings	-
14	Award & recognition	5
15	On going research projects	-

DETAIL REPORT OF APR-2017-18

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
ICAR Krishi Vigyan Kendra	04365 –246266	kvksikkal@tnau.ac.in	www.kvknagapattinam.com
Tamil Nadu Dr.J.Jayalalitha			
Fisheries University,			
Sikkal-611108			
Nagapattinam Dt.			

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

Address	Telephone	Fax		
Tamil Nadu Dr.J.Jayalalitha	Phone:	Fax: 91-4365-240088	<u>vc@tnfu.ac.in</u>	www.tnfu.ac.in

Fisheries University	04365-		
Nagapattinam – 611 001	240088		

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

Name	Telephone / Contact			
Dr.R.Santhakumar	Residence	Mobile	Email	
	-	9894530161	santhakumar@tnfu.ac.in	

1.4. Year of sanction: 2004

1.5. Staff Position (as 31st March 2017)

SI. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale	Date of joining KVK	Permanent /Temporary
1	Programme Coordinator	Dr. P.Kamaraj	Programme Coordinator	Farm Machineries	15600- 39100+7000	15.06.15	Permanent
2	SMS	Dr.M.Alagar	SMS(Agri. Entomology)	Agricultural Entomology	15600- 39100+6000	01.09.14	Permanent
3	SMS	Dr.J.Selvi	SMS(Home Science)	Food Science and Nutrition	15600- 39100+6000	17.09.14	Permanent
4	Programme Assistant (Tech.)	Mr.V.Gnanabharathi	Programme Assistant (Technical)	Agriculture	54200-113500	05.06.07	Permanent
5	Farm Manager	Mr.R.Vedharethinam	Farm Manager	Agronomy	54200-113500	04.06.07	Permanent
6	Accountant/ Superintendant	Mr. E. Sivanesan	Superintendent	-	36900-116600	20.06.13	Permanent
7	Jr. Stenographer	Mrs. G. Kaliammal	Assistant	-	20600-65500	12.04.17	Permanent
8	Driver	Mr.C.Veerakumar	Agrl. Engg. Supervisor	-	9300- 34800+4200	08.07.13	Permanent
9	Supporting staff	Mr.A.Ravi	Office Assistant	-	12000 (consltd)	01.12.11	Temporary
10	Supporting staff	Mr.K.Krishnasamy	Office Assistant	-	12000 (consltd)	01.12.11	Temporary

1.6. Total land with KVK (in ha): 22.67 ha

S. No.	Item	Area (ha)
1	Under Buildings	2.40
2.	Under Demonstration Units	2.97
3.	Under Crops	16.10
4.	Orchard/Agro-forestry	1.20
5.	Others	0.00
Total		22.67

1.7. Infrastructural Development:

A) Buildings

		Source	Source Stage						
S	Name of	of	Complete			Incomplete			
No.	building	funding	Completion Date	Plinth area (Sq.m)	Expenditure (Rs. in Lakhs)	Starting Date	Plinth area (Sq.m)	Status of construction	
1.	Administrative Building	ICAR	02/03/2009	548	41.65	-	-	-	
2.	Farmers Hostel	ICAR	09/03/2009	300	26.38	-	-	-	
3.	Staff Quarters	ICAR	19/03/2009	400	33.30	-	-	-	
4.	Rain Water harvesting system	Others (AED)	16/03/2007	2400	0.80	-	-	-	
5	Threshing floor	ICAR	21/01/2014	213	3.00	-	-	-	
6	Fencing	ICAR	16/04/2013	470 m	5.00	-	-	-	
7	SWTL	ICAR	31/03/2011	-	10.00	-	-	-	
8	PHDF	ICAR	23/05/2012	-	10.00	-	-	-	
9	Vehicle and Implement Shed	ICAR	16.04.2013	37.20	3.00	-	-	-	

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total km. Run	Present status
Four Wheeler Bolero Jeep	2017	8,34,445	9775	Good Condition
Two Wheeler (TVS – Star city)	2006	39,641	88928	Good condition
Two Wheeler (Suziki Access 125)	2009	49,651	61375	Good condition
Tractor	2005	345607	2745.0 hr	Good condition

C) Equipments & AV aids

Name of the equipment	Cost (Rs.)	Purchased date	Present status
HCL Computer with printer	37600	2011	Good Condition
Data processing system (one desktop, HP Colour printer)	90000	2012	Good Condition
COMPAQ-Laptop	49400	2007	Good Condition
Hp laser printer-1010	8800	2007	Good Condition
Printer -HP- Colour Inkjet printer 3920	2600	2006	Repaired Condition
SAMSUNG SCX4521-F fax cum printer	14400	2009	Good Condition
Printer -HP-Laser jet 1020 plus	6450	2012	Good Condition
LCD projector SANYO- PLC XW 55	53500	2007	Repaired Condition
LCD projector SANYO- PLC XW 55	53500	2007	Good Condition
Scanner -UMAX ASTRA 4100	7150	2005	Repaired Condition
Mini lab- Soil Testing Kit	75000	2016	Good Condition
SLR Digital camera	40000	2016	Good Condition
Office Automation-Equipment	300000	2017	Good Condition

1.8. Details SAC meeting conducted in 2016-17: 6th SAC - 23.09.2016

Sixth Scientific Advisory Committee meeting was conducted on 23.09.2016 at KVK, Sikkal, Nagapattinam. The meeting was started with prayer. The member secretary of SAC and Programme Coordinator of KVK Dr. A. Anuratha welcome the participants. The meeting was conducted under the chairmanship of the Director of Extension Education Dr. H. Phillip, TNAU, Coimbatore. The Programme Coordinator of KVK, Sikkal Dr. A. Anuratha presented the fifth SAC meeting recommendations and Action taken. The Subject Matter Specialist of KVK presented last year individual activities like OFTs, FLDs and Extension activities (2015-16). The participants from different departments including ATARI Principal Scientist Dr. M. J. Chandre Gowda shared their comments and suggestions.

Official Members	1.	Dr. H. Philip	
		Director of Extension Education, TNAU, Coimbatore	
	2.	Dr. M.J. Chandre Gowda	
		Principal Scientist, ATARI, Bangaluru	
	3.	Dr. M. Nagoor Meeran	
		Director of Extension Education, TNFU, Nagapattinam	
	4.	Dr. A. Anuratha	
		Programme Coordinator, KVK, Sikkal	
	5.	K. Vijaya kumar	
		Deputy Director of Agriculture (GOI), Nagapattinam	
	6.	Dr. A. Sivaramakrishnan	
		Regional Joint Director, Animal Husbandry, Nagapattinam	
	7.	V. G. Sankaran	
		LDM, IOB, Nagapattinam	
	8.	D. Ganesh	
		AGM, NABARD, Nagapattinam	
	9.	M. Seyalarasan	
		Lead Bank Officer, IOB, Nagapattinam	

List of Participants of 6th SAC

	1	
	10.	R. Vidhyalakshmi Scientist IICPT Thaniayur
	11	Dr. C. Natarajan
	11.	Principal Scientist, IARI-RBGRC, Aduthurai
	12.	E.B. Manirai
		District Project Manager, Puthuvazhvu Project,
		Nagapattinam
	13	K Muniyannan
	15.	Assistant Project Officer Mahalir Thittam
		Naganattinam
	14	M Siyakumar
	17.	Assistant Director of Ficharias, Naganattinam
	1 Г	Assistant Director of Fishenes, Nagapatinani
	15.	Dr. P. Chokalingam, veterinary Surgeon
		Cattle Breeding and Fodder development, Nagapattinam
	16.	Dr. M. Vinothini, Assistant Professor
		VUTRC, Nagapattinam
	17.	Dr. R. Divya, Horticulture Officer
		Kelaiyur block, Nagapattinam
	18.	M. Jayameena
		District Social Welfare Officer, Nagapattinam
	19.	V. Kamaraj, Junior Engineer
		Dept. of Agricultural Engineering, Nagapattinam
	20.	A.Venkatesan,
		Assistant Engineer, District Industries Centre
		Nagapattinam
	21.	D. Kumaresan, Bedroc, Kadampadi
		Nagapattinam
	22.	S. Sivaprakasam, EA, Doordharsan,
		Sikkal, Nagapattinam
	23.	D. Senthil kumar
		Programme Executive
		All India Radio, Karaikal
	24.	R. Senthilkumaran
		All India Radio, Karaikal
	25	V Goninath
	2511	Forest Range Officer Nagapattinam
Non official Members (Farmers)	1	G leevanandham
Non official Members (Furners)	1.	S/o N Gapapathy Nangudi village
		Kilvolur
	2	T. Prohbakaran
	۷.	S/o Thangaracu Orkudi Kilvolur
	2	
	5.	K. Kasululi Cirkali Nagapattinam
	4	Jacintha Jaconh
	7.	Volankanni
Other Farmers	1	
	1. 2	Jue velu, veldlikdlilli M. Dannaivan
	۷.	ri. rappaiyan
		karapidagal Village
		Nagapattinam
	3.	V.Dhanabalan
		Othiyathur, Kilvelur, Nagapattinam

Action taken on 6th SAC recommendation:

SI.	6 th SAC	Proposed by	Action Taken
No.	Recommendatio	ns	
1.	More number	of Dr. Chandre Gowda	• Off campus training on Water management
	demonstrations a	nd Principal Scientist,	was conducted at Periyakuththagai on

	trainings on water management need to be conducted	ATARI, ZONE VIII, Bangalore	 25.1.2017 for 41 farmers On campus training on water management in agricultural crops on 17.03.2017 for 30 farmers. Demonstration on mobile sprinkler and boom sprayer on 17.03.2017. Demonstration on mobile sprinkler and boom sprayer on 19.07.2017.
2.	Demonstrations and trainings on Bee Keeping have to be conducted	Dr. H. Philip Director of Extension Education, TNAU, Coimbatore	 Training and demonstration was conducted on Honey bee rearing technologies on 19.08.2017 at Kollidam block for 42 nos. of farmers. Training and demonstration was conducted on Honey bee rearing technologies on 08.11.2017 at Sirkazhi Block for 30 nos. of farmers.
3.	Issue training certificates to trainees for the trainings conducted by KVK	Dr. H. Philip Director of Extension Education, TNAU, Coimbatore	 Certificates issued to 58 trainees during the on campus training on "Operation and maintenance of agricultural machines" held on 20.10.016. Issued certificates to the Anganwadi workers participated in KVK training on 29.11.2016 Nutritional importance and health aspects training Issued certificates to the students of ADM College for Women who participated competition conducted by KVK on 23.12.2016 in lieu of celebrating Jai Kisan Jai Vigyan and Technology Week Certificates provided to the farmers who attended vocational training "Rearing of milch animals and fodder cultivation technology" on 23 & 24th March 2017. Certificates issued to 32 Farmers & Self Help Group members during the On campus training on "EDP through value addition in moringa" held on 31.10.017. This will be followed in all the trainings conducted at KVK.
4.	More number of trainings on Post Harvest Technology need to be given	Ms. R. Vidyalakshmi Scientist, IICPT, Thanjavur	 Conducted training on Preservation technology and value addition in tomato Farmers & Self Help Group for 39 on 01.09.2016 at KVK, Sikkal. Conducted training on "value added products from fish and prawn (Fish pickle, prawn pickle, dry fish powder)" on 18.11.2016. SHG members – 57 at KVK, Sikkal. Post harvest technology, value addition and marketing for Extension Functionaries (14

			 Nos.), Dept. of Agricultural Marketing on 21.11.2016 at KVK, Sikkal. Training was conducted on Preservation technology, value addition and marketing of vegetables and fruits for Women groups (82 members) at KVK, Sikkal On 26.12.2016. Conducted training on value addition in fish and prawn SHG members on 10.01.2017 at KVK, Sikkal for 22 SHG members. Conducted training on Value addition in rice, pulses, fruits and vegetables ATMA farmers of on 21 02 2017 at Vedaranyam block for 40
			 members. Post harvest technology and value addition in pulses Keelaiyur block farmers on 23.02.2017 at Thirukuvalai for 100 farmers. Conducted pulses and value addition training to Sirkali block farmers on 02.03.2017 at Sirkali Neduvasal and Kokkur
			Conducted On campus training on Value addition from millets on 19.07.2017(31)
			 farmers). Conducted on campus training on EDP through Value addition in moringa on 31.10.2017 at KVK, Sikkal for 32 farmers & SHG members. Post harvest management and vale addition technology to SHG members(40 nos) on 04.01. at Keelaiyur. Conducted off campus training on post harvest management and value addition in pulses at Voimedu on 11.01.2018. No. of participants : 31.
			 On campus training on Post narvest technology and value addition in pulses to Farmers and SHG members(45 nos.) on 23.01.2018. On campus training on EDP through value addition in pulses on 30.01.2018 to 22 SHG
			members.
5.	Involve relevant line departments, banks in trainings to explain the Government schemes to the participants	Dr. H. Philip Director of Extension Education, TNAU, Coimbatore	 Mr. T. Ganesh, District Development Manager, NABARD, Nagapattinam was participated in the training on On campus training "Preservation Technology, Value Addition and Marketing of Vegetables and Fruits" and exhibited value added products from rice, pulses, vegetables and fruits at KVK, Sikkal on 26.12.2016 for 82 farmers In the On campus training on operation and maintenance of agricultural machineries, Agricultural Engineering department officials were participated and explained the Government schemes to the trainees held on 20.10.2016.
1		1	instatutation acputatione officials were

			participated and explained the government schemes and success stories of farmers in bhendi cultivation during the field day on 17.11.2016 at Kameshwaram.
6.	Create awareness on ICT in Agriculture to the participants of training programmes	Dr. H. Philip Director of Extension Education, TNAU, Coimbatore	Created awareness on ICT in Agriculture to the farmers in Nine trainings conducted at KVK, Sikkal and Invigorating Extension through Extension Tools for Extension officials(99 nos.) on 08.02.2018 at KVK.
7	Conduct training programmes involving youth and conduct follow up study	Dr. H. Philip Director of Extension Education, TNAU, Coimbatore	 Rearing of milch Animal technologies for Rural Youth on 23, 24.03.2017 at KVK,Sikkal. Training on Honey bee rearing at Panagattangudi, Sirkazhi block on 19.08.2017 for 42 Nos. of rural youth. Off campus training on Value addition in Moringa on 07.09.2017 at Mannambandhal for 26 farmers Off campus training on value addition on 27.09.2017 at Kuruchi for 24 farmers. New India Manthan Programme, latest technologies on Agricultura and allied activities was explained to the 150 nos. of College students on 29.08.2017 at District Collectorate.
8	Form whatsapp group for farmers of Nagapattinam district	Dr. H. Philip Director of Extension Education, TNAU, Coimbatore	Whatsapp group for farmers of Nagapattinam district was created on 23.01.2017 and technological information's are being shared very effectively 90 nos. of farmers are connected in this group.
9	Recommend alternate varieties / management practices to control stem borer problem in brinjal	Dr. R. Dhivya Horticulture Officer Nagapattinam	 Field diagnostic visit has been carried out on 02.11.2016 at Thandavamoorthikadu village in Keelaiyur block of Nagapattinam district to identify the problem in birinjal. The team of scientists Dr. A. Anuratha, Programme Coordinator, KVK, Sikkal, Dr. K. Rajappan, Professor (Plant Pathology), TRRI, Aduthurai, Dr. M. Alagar, Assistant Professor (Agrl. Entomology) and Dr. M. Tamil Selvan, Assistant Professor (Horticulture) of KVK, Sikkal, Dr. Agila Devi, Assistant Professor (Plant Pathology) and Dr. K. Vanitha, Assistant Professor (Crop Physiology) of TRRI, Aduthurai and Thiru Neethimanikam Assistant Director of Horticulture, Nagapattinam visited the farmers' field and indentified that it is a phomopsis blight caused by the fungus <i>Phomopsis vexans.</i> Relevant Management practices were suggested to the farmers. Report on field diagnostic visit was sent to the Director of Planning and Monitoring to

			publish in the TNAU Newsletter.
10	More number of trainings for value addition in fish has to be conducted	Dr. Nagoor Meeran Director of Extension Education, TNFU, Nagai	 Conducted training on "value added products from fish and prawn (Fish pickle, prawn pickle, dry fish powder)" on 18.11.2016. SHG members – 57 at KVK, Sikkal. Conducted training on value addition in fish and prawn SHG members on 26.12.2016 at KVK, Sikkal for 82 SHG members. Conducted training on value addition in fish and prawn SHG members on 10.01.2017 at KVK, Sikkal for 22 SHG members. Conducted training on value addition in fish and prawn SHG members on 30.03.2017 at KVK, Sikkal for 23 SHG members. Conducted On campus training on Value addition from millets on 19.07.2017(31 farmers).
12.	Propose OFT / FLD in sugarcane and cotton	Mr. D. Ganesh, AGM NABARD, Nagai	Demonstration of IPM strategies for the management of sugarcane root grub is proposed under FLD and demonstration is being conducted
13	Display machineries and tools related to sowing to harvest in rice at KVK, Sikkal	Dr. H. Philip Director of Extension Education, TNAU, Coimbatore	Posters on machineries and tools for sowing to harvest in rice is exhibiting at KVK, Sikkal
15.	Develop suitable Agro Forestry model for Nagapattinam district at KVK, Sikkal	Dr. H. Philip Director of Extension Education, TNAU, Coimbatore	Agro forestry model was developed at KVK, Sikkal as demonstration unit to the farmers of Nagapattinam district with cultivation of Malaivembu in 10 cents and planting of Casuarina was completed in 0.5 acre and Ecalyptus planting in an area of 2.5 acres at KVK, Sikkal
16.	Open sales counter in front of KVK	Dr. H. Philip Director of Extension Education, TNAU, Coimbatore.	Open sales counter was purchased and installation is under progress
17.	Include awareness on food safety and quality testing in home science training	Ms. R. Vidyalakshmi Scientist, IICPT, Thanjavur	 Awareness on food safety and quality testing is insisted in the home science training are as follows. Conducted training on Preservation technology and value addition in tomato Farmers & Self Help Group for 39 on 01.09.2016 at KVK, Sikkal. Conducted training on "value added products from fish and prawn (Fish pickle, prawn pickle, dry fish powder)" on 18.11.2016. SHG members – 57 at KVK, Sikkal. Post harvest technology, value addition and marketing for Extension Functionaries (14 Nos.), Dept. of Agricultural Marketing on 21.11.2016 at KVK, Sikkal. Training was conducted on Preservation technology, value addition and marketing of

			 vegetables and fruits for Women groups (82 members) at KVK, Sikkal On 26.12.2016. Conducted training on value addition in fish and prawn SHG members on 10.01.2017 at KVK, Sikkal for 22 SHG members. Conducted training on Value addition in rice, pulses, fruits and vegetables ATMA farmers of on 21.02.2017 at Vedaranyam block for 40 members. Post harvest technology and value addition in pulses Keelaiyur block farmers on 23.02.2017 at Thirukuvalai for 100 farmers. Conducted pulses and value addition trainin Sirkali block farmers on 02.03.2017 at Si Neduvasal and Kokkur. Post harvest management and vale addition in pulses at Voimedu on 11.01.2018. No. of participants : 31. On campus training on Post harvest technology and value addition in pulses to Farmers and SHG members(45 nos.) on 23.01.2018.
18	Training on Fishery technology to be given	Dr. H. Philip Director of Extension Education, TNAU, Coimbatore	Conducted On campus training on Rearing of Gift Tilapia fish culture in Farm pond on 03.01.2017 by involving TNFU, Nagapattinam.

PART II - DETAILS OF DISTRICT (2017-18)

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

S. No	Farming system/enterprise
	Rice based farming system is followed in this district
1.	Rice – Rice – Rice fallow Pulse
2.	Rice – Rice – Rice fallow Cotton
3.	Rice – Rice – Groundnut / Sesame
4.	Rice – Rice – Sugarcane (3 years rotation)
5	Rice – Rice fallow pulses/ Cotton
6	Rice – vegetables / flower crops

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

S. No	Agro-climatic Zone	Characteristics		
1	Cauvery Delta Zone	Nagapattinam is a coastal district of Tamil Nadu, lies between 100 80' and		
		110 28' in North Latitude and 760 34' and 750 53' in East Longitude. It is		
		bounded on the North by Cuddalore, South by Palk Strait, West by		
		Tiruvarur and on the East by Bay of Bengal		
S. No	Agro ecological	Characteristics		
	situation			
1	Coastal Eco system	Nagapattinam is categorized as agro-ecological region 18, representing the		
		Coastal eco-system-Eastern coastal plain, hot sub-humid to semi-arid eco-		
		system with a growing period of 90 to 210 days		

2.3 Soil type/s

S. No	Soil type	Characteristics	Area in ha
1.	Clay loam	High WHC	98,000
2.	Clay sandy loam	Medium WHC	55,000
3.	Sandy soil	Low WHC	35,000
Total			1,88,000

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

Сгор	Area (ha)	Production (MT)	Productivity (Kg/ha)
Rice	164436	506353	4031
Black gram	43030	0.2395	549
Green Gram	44299	0.2347	538
Sugarcane	2712	2.02	75000
Ground Nut	1479	0.04349	3000
Sesame	37	0.000188	500
Coconut	4001	6.01 Lakh nuts	150 Nuts/tree/year
Vegetables	376	9553.06	25.407
Cashew	1737	892	0.513
Mango	3045	6432	2.112
Banana	584	22498	38.523
Flowers	318	2973.6	9.350

Source: Joint Director of Agriculture, Deputy Director of Horticulture, Nagapattinam Dt.

2.5. Weather data

Month	Rainfall (mm)	Temp (Max)	Temp (Min)	Relative Humidity (%)
April 2017	0.0	34.7	27.3	76.4
May 2017	11.0	37.1	27.8	74.1
June 2017	55.5	36.3	27.2	64.0
July 2017	76.4	36.8	26.7	55.8

August 2017	116.4	36.0	25.9	94.2
September 2017	26.7	33.2	25.2	97.0
October 2017	242.3	32.4	24.8	73.2
November 2017	795.5	25.4	21.3	43.2
December 2017	251.8	26.8	24.2	93.7
January 2018	61.8	25.2	17.8	73.0
February 2018	0.0	29.9	20.0	81.6
March 2018	1.8	31.7	24.1	88.2
Total Rainfall	1639.2	385.5	292.3	914.4

Normal Annual Rainfall of the District: 1230 mm

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

Category	Population (Numbers)	Production (Numbers)	Productivity
Cow -Crossbred	203622	900000 litre	6 litre /day/animal
Cow- Indigenous	62645	90000	4 litre /day/animal
Buffalo-Crossbred	12080	65000	10 litre /day/animal
Sheep- Indigenous	7335	40000 kg	20 kg / animal
Goats- Crossbred	11493	10000 kg	20 kg / animal
Goats- Indigenous	423546	3500000 kg	20 kg / animal
Pigs-Crossbred	1153	18000	20 kg / animal
Pigs - Indigenous	1236	18000	20 kg / animal
Poultry-Hens- Desi Egg	279817	1492357 eggs	90 eggs /bird
Poultry-Hens- Desi- Meat	8837	7000 kg	1 kg / bird
Poultry -Hens- Ducks Eggs	4568	210000 eggs	70 eggs /bird
Turkey and others	458	21000 eggs	70 eggs /bird
Fish-Marine	-	61512 ton	-
Fish –Inland	-	7900 ton	-
Prawn		3.0 ton	

(Source: Department of Animal Husbandry and Fisheries, Nagapattinam)

2.7 Details of Adopted Villages (2017-18)

SI.No.	Taluk/ mandal	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Kilvelur	Keezhaiyur	Kameshwaram	Vegetables, Ground nut Mango and Coconut and Flowers	 Yield reduction due to saline problem (EC - more than 4 dS/m) Low yield of existing local variety Use of poor quality seed of local varieties. Higher cost of construction of bower for the cultivation of pandal type lab lab Unawareness on cultivating bush type varieties. Yield loss (20%) due to budworm damage. 	 Maximizing the yield in vegetable crops Maize, Vegetables and Coconut Production enhancement in coconut Value addition in Vegetables and Fruits
2	Kilvelur	Keezhaiyur	P.R.Puram	Vegetables, Ground nut Mango and Coconut and Flowers	 Low yield of existing local variety Use of poor quality seed of local varieties. Higher cost of construction of bower for the cultivation of pandal type lab lab Unawareness on cultivating bush type varieties. Yield loss (20%) due to budworm damage. 	 Maximizing the yield in vegetable crops INM and IPDM for Rice, Maize, Vegetables and Coconut Crop diversification Production enhancement in coconut Value addition in Vegetables and Fruits
3	Vetharanyam	Thalainayar	Vizhundamavadi	Rice, Pulses and Maize. Vegetables, Ground nut Mango and Coconut and Flowers	 Yield reduction due to saline problem Low yield of existing local variety Use of poor quality seed of local varieties. Higher cost of construction of bower for the cultivation of pandal type lab lab Unawareness on cultivating bush type varieties. 	 Increasing the productivity of Rice . Maximizing the yield in vegetable crops INM and IPDM for Rice, Maize, Vegetables and Coconut Crop diversification Production enhancement in coconut Value addition in Vegetables and Fruits

4	Mayiladuthurai	Mayiladuthurai	Sitharkadu	Rice, Pulses, Cotton	 Depletion of ground water level Unawareness of alternate crop for rice. Incidence of leaf folder, stem borer and false smut (32%) No other alternate to BPT 5204 High demand for TKM 13 seed Incidence of pests & disease in BPT 5204 Need for alternate high yielding variety 	 Increasing the productivity of Rice and Pulses Maximizing the yield in vegetable crops INM and IPDM for Rice, Maize. Crop diversification Ecological Pest management in rice
5	Nagapattinam	Thirumarugal	Kongarayanallur,	Rice, Pulses, Cotton and Maize	 Under utilization of traditional rice varieties Therapeutic properties of traditional rice varieties not known. Low yield of existing ground nut variety under rainfed condition (900 kg/ha). Incidence of leaf folder, stem borer and false smut (32%) No other alternate to BPT 5204 High demand for TKM 13 seed Incidence of pests and disease in BPT 5204 Need for alternate high yielding variety 	 Increasing the productivity of Rice and Pulses INM and IPDM for Rice, Maize, Promoting saline tolerant crops in saline soils Crop diversification Ecological Pest management in rice
6	Sirkazhi	Sirkazhi	Rathanallur	Rice, pulses, Cotton, Sugarcane and Vegetables	 Reduction in natural enemies due to indiscriminate use of pesticides Lack of knowledge on eco friendly pest and disease management strategies 	 Increasing the productivity of Rice, Pulses and Cotton Maximizing the yield in vegetable crops INM and IPDM for Rice, Maize, Vegetables.t Crop diversification Ecological Pest management in rice Agroforestry system

7	Vetharanyam	Thalainayar	Kovilpathu	Vegetables, Ground nut Mango and Coconut and flowers	 Higher incidence of Phomopsis blight Unaware of scientific management practices Bud worm damage to Jasmine -Yield loss up to 50%. 	• • • •	Maximizing the yield in vegetable crops INM and IPDM for Vegetables and Coconut Crop diversification Production enhancement in coconut Value addition in Vegetables and Fruits. IPDM in Flowers
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2.8 Priority thrust areas

S. No 1.	Thrust Area Increasing the productivity of Rice and Pulses
2.	Maximizing the yield in vegetable crops
3.	INM and IPDM for Rice, Maize, Vegetables and Coconut
4.	Promoting saline tolerant crops in saline soils
5	Crop diversification
6	Ecological Pest management in rice
7	Agro Forestry system
8	Production enhancement in coconut
9	Value addition in Millets, Vegetables and Fruits
10	Intercrop in Casuarina
11	Fish culture

3. TECHNICAL ACHIEVEMENTS

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

	0	FT		FLD					
	:	1		2					
Number of OFTs Number of farmers			Number of FLDs Number of farmers						
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement		
7 2 33 8				14	8	125	75		

	Trai	ning		Extension Programmes					
	3	3		4					
Number of Courses Number of Participants			Number of Programmes Number of participan						
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement		
67	40	3715	1736	716	855	8245	5836		

Seed Pro	duction (Qtl.)	Planting materials (Nos.)			
	5	6			
Target	Achievement	Target	Achievement		
400	118.655	6000	8308		

Livestock, poultry strain	ns and fingerlings (No.)	Bio-products (Kg)			
	7	8			
Target	Achievement	Target	Achievement		
-	-	15000	7942.5		

3.b. TECHNOLOGY ASSESSMENT

Summary of technologies assessed under various crops by KVKs

Thematic areas	Сгор	Name of the technology assessed	No. of trials	No. of far me rs
Integrated Nutrient Management	-	-	-	-
Varietal Evaluation	Black gram, Gingelly	Assessment of suitable alternate crop for rice in Kuruvai season	5	5
	Rice	Assessment of Glycemic responses of traditional paddy varieties	3	3
Total			8	8

Summary of technologies assessed under livestock by KVKs : Nil

Summary of technologies assessed under various enterprises by KVKs : Nil

3. c. TECHNOLOGY ASSESSMENT IN DETAIL

OFT 1. Assessment of suitable alternate crop for Rice in Kuruvai (Kharif) season

1. Thematic area: Crop diversification

2. Title: Assessment of suitable alternate crop for Rice in Kuruvai (Kharif) season

3. Scientists involved: Dr. M.Alagar Assistant Professor (Agrl. Entomology)

4. **Details of farming situation**: Season: Kharif (June- September), farming situation is irrigated with medium soil fertility, seasonal rainfall of 280 mm with rainy days of 30 days.

5. **Problem definition / description:** Due to depletion of ground water level and non availability of Cauvery river water for irrigation, the suitability of alternative and enumerative crops to be assessed. More over the farmers are unaware of the alternate crop for rice during Kuruvai season.

6. Technology Assessed:

T01	Farmers Practice : Rice (ADT 43)
то2	Sesame TMV7 (TNAU 2012)
тоз	Black gram VBN 8 (TNAU 2012)

7. Critical inputs given:

S.No.	Critical inputs	Amount for one trial (Rs.)	Amount for 5 trials (Rs.)
1.	Blackgram VBN 8 seed/ trial @ 25 kg/ha	1009	5045
2.	Gingelly TMV 6 seed 2.5 kg/ha	169	845
3.	TNAU Pulse wonder 2 kg/ trial @ 5 kg/ha	720	3600
4.	T.viride @ 4 gm/Kg of seed	300	1500
	Total	2198	10990

8. Results:

Table: Performance of the technology

Technology Option	No.of trials	Yield (t/ha)	Net Returns (Rs/ha)	B:C ratio	Data on Other performance indicators*
<i>Technology 1(Mention details)</i> Farmers Practice : Rice (ADT 43)		4.50	20805	1:1.46	-
<i>Technology 2(Mention details) Gingelly</i> TMV 8 (TNAU 2012)	5	0.380	23192	1:3.55	-
<i>Technology 3(Mention details)</i> Black gram VBN 8 (TNAU 2012)		0.58	34842	1:3.97	-

9. **Feed back of the farmers involved**: This technology is good, because with less water getting more profit

10. Feed back to the scientist who developed the technology:

Due to depletion of ground water level and non availability of Cauvery river water for irrigation, the suitability of alternative and enumerative crops was assessed during Kharif season. More over the farmers are unaware of the alternate crop for rice during Kuruvai season. Among the technology options assessed the TO 3 i.e. cultivation of black gram VBN 8 gave more profit of Rs.34,842/Ha and BC ratio of 1:3.97 when compared to TO 2 i.e. cultivation of gingelly Var. TMV 8, it recorded the profit of Rs. 23,192/H and BC ratio of 1:1.355. But these two crops need less irrigation. Whereas the farmers practices i.e. cultivation of paddy Variety ADT 43 gave less profit of Rs. 20,845/ha and BC ratio of 1:1.4.6 and it required more water.

OFT 2. Assessment of Glycemic responses of traditional paddy varieties

- 1. Thematic area: Post harvest technology and value addition
- 2. Title: Assessment of Glycemic responses of traditional paddy varieties
- 3. Scientists involved: Dr. J. Selvi, SMS (Home Science)
- 4.Details of farming situation: Describe the farming situation including Season, Farming situation (RF/Irrigated), Soil type, fertility Status, Seasonal rainfall (mm) No. of rainy days etc (about 500 words)

The traditional rice varieties (land races) available in southern districts of Tamil Nadu are highly suited for the rainfed and semi dry rice cultivation and they are having high nutritional values in terms of its micronutrient content and grain quality. They withstand drought to a much higher extent compared to our new high yielding varieties. The traditional varieties with desirable traits were ignored and are now rare in cultivation. Popularly eaten white rice contains higher amount of available carbohydrate and very low level of essential micronutrients, leading to the development of Insulin Dependent Diabetes Mellitus (IDDM) and micronutrient deficiency. Traditional coloured rice varieties are known to be rich in dietary fibre, resistant starch, minerals, carotenoids, flavonoids and polyphenols and consumption of grains of these pigmented rice varieties help in improving human health.

5. Problem definition / description: (one paragraph)

Traditional rice varieties cultivated in Nagapattinam District are Kothamalli samba, Kuzhiztichan, red kaunni, etc., The cultivation area of these varieties was decreased due to the consumer preference goes towards the fine grain varieties. These traditional land races have high nutritive value. Hence, it is planned to promote this variety for the production of flakes. In view of this point it is planned to test the glycemic index of the selected traditional rice varieties of Nagapattinam District.

6. Technology Assessed: (give full details of technology as well as farmers practice) Under this OFT trail the following technologies were assessed.

Technology Option: 1 - Farmers Practice (TRY3)

Technology Option: 2 - Kuzhiatichan

Technology Option: 3 - Kothamalli samba

Glycemic index of a food is one of the components which determine the raise in blood glucose after it is injected in the human system. In the present trial the Glycemic index of rice varieties were assessed in the healthy volunteers containing 50 g of available carbohydrate. Initially the participants were screened by conducting glucose tolerance test by administering glucose powder available in the market dissolved in potable water containing 50 g of glucose. For this intervention flakes was prepared from popularly eaten rice (TRY 3) and two traditional rice varieties *viz.*, Kuzhiztichan, and Kothamalli samba containing 50 g of carbohydrate were provided to the healthy participant. The blood glucose level of the participants before administering test food and during 15th, 30th, 45th, 60th, 90th and 120th minutes were noted and used for calculating the Glycemic index.

- Name of the critical input Quantity Value (Rs.) TRY 3 15 kg 1000 Kuzhiztichan 15 kg 1000 1000 Kothamalli samba 15 kg Glucometer with strips 1 No. 4400 2700 Proximate analysis Total 10100
- 7. Critical inputs given: (along with quantity as well as value)

8. Results:

Performance of the technology

Technology Option	No.of trials	Total carbohydrat e (g/ 100 g)	Crude fiber(g/1 00g)	Recovery of flakes (%)	Cost of production / kg of flakes (Rs.)	Glycemic index
Farmers		76	0.8	65 %	58	70
Practice (TRY 3)						
Technology 1		68	1.6	68%	47	59
(Kuzhiztichan)	3					
Technology 2		67	2.0	70 %	49	58
(Kothamalli						
samba)						

Description of the results:

The recovery of flakes was high in Kuzhiztichan, and Kothamalli samba than TRY3. The cost of production of flakes was high in TRY3 due to the cost of the grain of TRY 3 was higher than the other two varieties. Glycemic index is a measure of the relative ability of carbohydrates in foods to raise blood sugar levels after eating. High GI food is easily digested and absorbed by the body, which can result in fluctuations in blood sugar levels. Foods with low GI, on the other hand, are those with slow rates of digestion and absorption, causing a gradual and sustained release of sugar into the blood, which is beneficial to health and reduces the chances of developing Type II diabetes.

Glycemic index 55 or less are considered 'low', those of 56–69 are 'medium' and those of 70 and above are "high". In the present study the Glycemic index of traditional rice Kothamalli samba (58.0) is lesser than the other traditional rice Kuzhiztichan (59.0) which are in the medium Glycemic index food. On the other hand the Glycemic index of TRY 3 popularly consumed rice in Nagapattinam District has a Glycemic index of 70.0 which is in the higher Glycemic index level.

Constraints faced:

The cooked rice cannot be consumed without any side dishes. Hence we are planned to prepare flakes from the selected paddy varieties. The flakes manufacturing units are not available at Nagapattinam District. Hence, the flakes were prepared in small scale flakes manufacturing unit at Madurai. Usually the flakes are consumed by the people in the form of uppuma or soaked flakes with jaggery. If we add jaggery the GI will cannot be calculate accurately. Hence the flakes were given in the form of uppuma.

9. Feed back of the farmers involved:

The farmer participants of this study are willing to take brown rice flakes in the form of uppuma. They told that they had more satiety value while having traditional rice compared to the popularly consumed rice.

10. Feed back to the scientist who developed the technology:

The farmers participants were very cooperative. The procedure for taking blood glucose test was very easy. This test was creating awareness among the farmers about the health benefits of brown rice. Results concluded that the traditional rice varieties have medium glycemic index. Hence it is suggested that the consumption of traditional rice varieties will reduce the risk of Type II Diabetes.

3. d. FRONTLINE DEMONSTRATION

a. Follow-up of FLDs implemented during previous years

S. No	Crop/ Enterpris e	ThematicTechnologyDetArea*demonstrated		Details of popularization methods suggested to the Extension system	Horizontal spread of technology
				Nil	

* Thematic areas as given in Table 3.1 (A1 and A2)

b. Details of FLDs implemented during the current year (Information is to be furnished in the following **three tables** for **each category** i.e. **cereals**, **horticultural crops**, **oilseeds**, **pulses**, **cotton and commercial crops**.)

FLD 1: Demonstration and farmers participatory seed production of TKM 13 rice variety in Nagapattinam district (TNAU 2015)

SI. No.	Сгор	Thematic area	Technology Demonstrated	Season and year	Source of funds	Area	(ha)	No. den	of farme nonstrat	ers/ ion	Reasons for shortfall in achievement
				-		Proposed	Actual	SC/ST	Others	Total	
1.	Paddy (rice)	Varietal introduction	Newly released rice variety TKM 13(TNAU 2015)	Rabi(2017 -18)	ICAR	8	4	6	4	10	Ten Numbers of demo was fully affected due to heavy rainfall during NE monsoon

Details of farming situation

Сгор	Season	ırming tuation F/Irrigat ed) il type	il type	Status of soil		evious crop	ing date	/est date	asonal ainfall (mm)	of rainy days	
	Ň	Fa si (RI	So	N	Р	к	P.	Sow	Harv	Se	No.
Cereal (Paddy)	Kharif	Irrigated	Clay soil	L	М	Н	Pulses	17.10.2017	22.2.2018	1351.5	-

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1	Low incidence of pest and disease

Farmers' reactions on specific technologies

S. No	Feed Back
1	TKM 13 is fine grain type variety having good market value.
2	Mostly preferred by the farmers

Extension and Training activities under FLD

SI.No.	Activity	No. of activities organised	Date	Number of participants	Remarks
1	Field days	1	22.02.2018	20	-
2	Farmers Training	-	-	-	-
3	Media coverage	2	26.02.2018	-	-
4	Training for extension functionaries	1	05.02.2018	99	-

FLD 2: Demonstration of paddy CO 52 for samba season of in Nagapattinam district

SI. No.	Сгор	Thematic area	Technology Demonstrated	Season and year	Source of funds	Area (ha)		No. den	of farme nonstrat	ers/ ion	Reasons for shortfall in achievement
						Proposed	Actual	SC/ST	Others	Total	
1.	Paddy (rice)	Varietal introduction	Newly released rice variety CO 52	Rabi (2017- 18)	ICAR	4	4	4	6	10	-

Details of farming situation

Сгор	ason	rming :uation /Irrigate d)	il type	ed Statu		Status of soil		ng date	est date	asonal ainfall (mm)	of rainy days
	Se	Faı sit (RF/	Soi	N	Р	к	Previ	Sowi	Harvo	Sea La	No. o
Cereal (Paddy)	Rabi	Irrigated	Clay soil	L	М	Н	Pulses	21.10.2017	13.2.2018	1351.5	-

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1	Yield performance is very optimum
2	Adoptability is high

Farmers' reactions on specific technologies

S. No	Feed Back
1	Market preference acceptable
2	High yielding variety

Extension and Training activities under FLD

SI.No.	Activity	No. of activities organised	Date	Number of participants	Remarks
1	Field days	1	13.02.2018	16	-
2	Farmers Training	-	-	-	-
3	Media coverage	2	15.02.2018	-	-

FLD 3: Demonstration of Eco friendly pest and disease management in Samba/Thaladi (Rabi) paddy

S. No.	Сгор	Them atic area	Technology Demonstr ated	Seaso n and year	Source of funds	of Is Area (ha)		No	o. of farme emonstrat	ers/ tion	Reasons for shortfall in achievem ent
					ICAR	Proposed	Actual	SC/ST	Others	Total	
1.	Paddy	IPDM	Demonstration of Eco friendly pest and disease management in Samba/Thaladi (Rabi) paddy	Rabi		4	4	4	6	10	-

Details of farming situation

Сгор	eason rming tuation d)		e Status of soil		ous crop	ng date	est date	asonal ainfall (mm)	of rainy days		
	Š	Fai sit (RF/	Soi	N	Р	K	Previ	Sowi	Harvo	Sea La	No. o
Paddy	Rabi	Irrigated	Clay Ioam	L	М	Н	Pulses	10.10.17	20.2.18	1316.3	-

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1	The method is very effective and reduces 15% of cost of cultivation.

Farmers' reactions on specific technologies

S. No	Feed Back
1	Acquired awareness & knowledge about eco friendly pest and disease management in paddy

Extension and Training activities under FLD

SI.No.	Activity	No. of activities organised	Date	Number of participants	Remarks
1	Field days	1	21.02.2018	30	-
2	Training for extension functionaries	1	08.02.2018	99	-

FLD 4: Demonstration of Traditional rice variety with Eco friendly management

SI. No.	Crop	Themat ic area	Technolo gy Demons trated	Season and year	Source of funds	Area ((ha)	No. of farmers/ demonstration			
	Стор					Proposed	Actual	SC/ST	Others	Total	
1	Paddy	IPDM	Demonstra tion of Tradition al rice variety with Eco friendly manage ment	October - January	ICAR	4	4	4	6	10	

Details of farming situation

Сгор	ason	ming uation Irrigate d)	l type	Status of soil		ous crop	ng date	est date	asonal ainfall (mm)	of rainy days	
	Š	Fai sit (RF/	Soi	N	Р	к	Previo	Sowi	Harvo	Sea ra	No.
Paddy	Rabi	Irrigated	Clay Ioam	L	Μ	Η	Pulse	04.10.2017	27.2.20 18	1316.3	-

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1	The demand for organically cultivated traditional rice varieties was high. In turn it required less pest management.

Farmers' reactions on specific technologies

S. No	Feed Back
1	Acquired awareness & knowledge about eco friendly pest and disease management in paddy in traditional rice variety

Extension and Training activities under FLD : Nil

FLD 5: Demonstration of IPM strategies for management of sugarcane root grub

SI.	Crop	Them atic	Technology Demonstra	Season and	Source of funds	Area	Area (ha)		o. of farmers emonstratio	Reasons for shortfall in achievement	
NO.	•	area	ted	year		Proposed	Actual	SC/ST	Others	Total	
1.	Sugarcane	IPM	Demonstrat ion of IPM strategies for manageme nt of sugarcane root grub	June- March	ICAR	10	4	4	6	10	Nil

Details of farming situation

Сгор	ason	ming uation (Irrigate d)	l type	Status of soil			ous crop	ng date	est date	isonal ainfall mm)	of rainy days
	Se	Fai sit (RF/	Soi	N	Р	к	Previo	Sowi	Harve	Sei Ta	No. 6
Sugarcane	Rabi	Irrigated	Sandy Ioam	L	М	Н	Rice	05.06.2017	20.04.2018	1628.3	-

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1	Non- availability of <i><u>Beauveria brongniartii</u></i> to the farmer

Farmers' reactions on specific technologies

S. No	Feed Back
1	The Beauveria brongniartii was given very good control of sugarcane root grub

Extension and Training activities under FLD : Nil

FLD 6: Demonstration of IDM strategies for *Phomopsis* blight management in brinjal

S. No	Сгор	Thematic area	Technolog y Demonstr ated	Season and year	Source of funds	ource of funds Area (ha)		No. of far demonst	Reasons for shortfall in achieveme nt		
					ICAR	Propos ed	Actual	SC/ST	Other s	Т	Nil
1	Brinjal	IDM	Demonstr ation of IDM strategies for <i>Phomopsis</i> blight manageme nt in brinjal	Jun - Sep		10	4	4	6	10	

Details of farming situation

Сгор	eason	rming .uation d)	il type	Status of soil			ous crop	ing date	est date	asonal ainfall (mm)	of rainy days
	Ň	Fa sit (RF,	So	N	Р	к	Previ	Sowi	Harv	Sei	No.
Vegetable/Brinjal	Kharif	Irrigated	Sandy Ioam	L	М	Н	Brinjal	25.06.17	30.08.17 commenci ng	1628.3	-

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1	Indiscriminate application of pesticide was reduced. reduced 20 % of cost for purchase of pesticides.

Farmers' reactions on specific technologies

3 I Cactio										
S. No	Feed Back									
1	Pesticide application was reduced and knowledge about IPM strategies was acquired by the farmers.									

Extension and Training activities under FLD: Nil

FLD 7: ICM in Jasmine

SI. No.	Сгор	Thematic area	Technology Demonstrat ed	Season and year	Source of funds	Area	(ha)	No de	o. of farmei emonstratio	rs/ on	Reasons for shortfall in achieveme nt
					ICAR	Proposed	Actual	SC/ST	Others	Total	Nil
1.	Jasmine	ICM	ICM in Jasmine	Jan - Mar		10	4	4	6	10	

Details of farming situation:

Сгор	ason	rming uation d)	il type	Sta	tus of	soil	ous crop	ng date	est date	asonal ainfall (mm)	of rainy davs
	Š	Fai sit (RF,	Soi	N	Р	к	Previ	Sowi	Harv	Sei I	No.
Flower/Jasmine	Rabi	Garden land/Irrigated	Sandy loam	L	М	Н	Jasmine	Perrennial	-	1800	-

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1	The <i>Bacillus thuringiensis</i> reduced the budworm incidence

Farmers' reactions on specific technologies

1



The *Bacillus thuringiensis* was effectively controlled the bud worm and gave 41.64% increases yield.

Extension and Training activities under FLD : Nil

FLD:8 Demonstration of production of dehydrated moringa and their products as entrepreneurial activity

SI. No.	Сгор	Thematic area	Technology Demonstrate d	Season and year	Source of funds	Area	(ha)	No. dei	s/ n	Reasons for shortfall in achieveme nt	
						Proposed	Actual	SC/ST	Others	Total	
1.	Moringa	Processing and value addition	Value added products from Moringa	2017-18	ICAR	-	-	3	2	5	

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1	Improving technical knowledge and value addition of iron enriched (moringa greens) products

Performance of Frontline demonstrations

Frontline demonstrations on crops

Сгор	Thematic	technology	Name Var Hy	of the iety/ brid	_No. of	Area		Yiel	d (q/ha)		% Increase	Econ	omics of (Rs	demonstr s./ha)	ation	E	conomic (Rs.	s of chec /ha)	:k
•	Area	demonstrated	Domo	Check	Farmers	(na)		Dem	no	Charle	in yield	Gross	Gross	Net	BCR	Gross	Gross	Net	BCR
							High	Low	Average	Спеск		Cost	Return	Return	(R/C)	Cost	Return	Return	(R/C)
Paddy TKM 13	Varietal introduction	Newly released rice variety	TKM 13	BPT	10	4	51.39	43.03	47.66	42.33	11.27	36800	71643	34841	1.94	33485	63463	29978	1.89
Paddy CO52	Varietal introduction	Newly released rice variety CO 52	CO52	BPT	10	4	50.32	43.23	47.18	42.33	10.83	37000	70224.5	33224.5	1.89	33350	62094	28744	1.86

Crop	Thematic	Technology	Name Varie Hyb	of the ety/ orid	No. of	Area		Yield	(q/ha)		% Increase	Economics	of demonst	tration (R	5./ha)	Economics of check (Rs./ha)				
crop	Area	demonstrated	Domo	Check	Farmers	(ha)	High	Demo	Average	Check	in yield	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)	
Cereals							Ingn	LOW	Average			0051	Return	Kettarin		cost	Return	Ketum		
Paddy	IPDM	Demonstration of Eco friendly pest and disease management in samba /Thaladi (Rabi) paddy	TKM 13	BPT 520 4	10	4	61.69	51.40	56.85	31.91	20.01	45841.2 2	85279.2 8	39438	1.86	41124.9 3	52358.4 9	11234	1.27	
Paddy	IPDM	Demonstration of Traditional rice variety with Eco friendly management	Jeerag a samba	BPT 520 4	10	4	46.38	60.75	56.85	34.91	6.86	43658.3 0	79593.9 9	33752. 78	1.74	39166.6 0	48867.9 2	7742.9 9	1.19	
Commer	cial crop	S																		

Crop Thematic Technology Area demonstrated	Name Vario Hyt	of the ety/ orid	No. of	Area		Yield	(q/ha)		% Increase	Economics	of demons	tration (Re	s./ha)	Ec	conomics of (Rs./ha	check)			
Grop	Area	demonstrated	Domo	Check	Farmers	(ha)		Demo)	Check	in yield	Gross	Gross	Net	BCR	Gross	Gross	Net	BCR
							High	Low	Average	CIICCK		Cost	Return	Return	(R/C)	Cost	Return	Return	(R/C)
Sugarcane	IPM	Demonstrati on of IPM strategies for managem ent of sugarcane root grub			10	4	861.41	648.35	670.52	473.03	32.86	121182.40	184393.81	63211.41	1.41	111706.15	130093.58	18387.43	1.05
Vegetable	es		.1						1	i		1	1			L			
Brinjal	IDM	Demonstration of IDM strategies for <i>Phomopsis</i> blight management in brinjal	Poiyur local	Poiyur local	10	4	160.0	132.8	131.90	77.44	20.48	121182.40	461636.70	340454.30	1:3.54	111150.40	271044.48	159338.33	1:2.19
Jasmine	ICM	Demonstartion of ICM in Jasmine			10	4	61.05	35.63	42.14	30.74	41.64	11489.10	168570.66	157081.56	13.53	11776.00	122955.72	111179.72	9.57

FLD on Livestock : Nil

FLD on Fisheries : Nil

FLD on Other enterprises

Category	Name of the technology	No. of Farmer	of No.of Major ner units parameters			% change in major	Other p	arameter	Econon	nics of der or R	nonstratio s./unit	on (Rs.)) Economics of check (Rs.) or Rs./unit					
	demonstrated			Demo	Check	paramet er	Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)		
Mushroom	Nil		• •			-					•		-		,			
Apiculture	Nil					<u> </u>					[I	[
Maize Sheller	Nil		<u> </u>			[[[[[[I		[
Value Addition							•											
Moringa	Demonstration of production of dehydrated moringa and their products as entrepreneurial activity	5	5	• Shelf life	-	120 days	-	-	16500	32800	16300	1.98	-	-	-	-		
Vermi Compost	Nil	. <u>.</u>					<u>.</u>				4		·	<u>.</u>				

FLD on Women Empowerment: Nil

FLD on Farm Implements and Machinery : Nil

FLD on Other Enterprise: Kitchen Gardening : Nil

FLD on Demonstration details on crop hybrids (Details of Hybrid FLDs implemented during 2016-17): Nil

FLDs conducted with the funding of other sources including /ATMA/NABARD/other ICAR institutes etc

Crop of Are	Thematic	Technology	Name Va Hy	of the riety/ ybrid	No. of	Area		Yiel	d (q/ha)		% Incre	Economic	s of demon	stration (R	s./ha)	E	conomics o (Rs./h	of check a)		
orop	fund	Area	demonstrated	Demo	Check	Farmers	(ha)		Den	no	Check	ase in vield	Gross	Gross	Net	BCR	Gross	Gross	Net	BCR
								High	Low	Average	Cincer	, yiele	Cost	Return	Return	(R/C)	Cost	Return	Return	(R/C)
Pulses																				
Black gram	ICAR	ICM	Demonstration on Integrated Crop management in Black gram	VBN6	ADT 3	36	20	7.3	6.20	6.75	4.00	40.74	17800	56000	38,200	3.1	15000	33000	18,000	2.1
Green gram	ICAR	ICM	Demonstration on Integrated Crop management in Green gram	CO 8	ADT 3	36	20	7.67	6.67	7.19	4.16	42.64	18767.15	58201.93	39434.78	3.26	16089.28	33728.14	17658.97	2.21

FLD on Livestock : Nil

FLD on Fisheries : Nil

FLD on Other enterprises :Nil

FLD on Women Empowerment : Nil

FLD on Farm Implements and Machinery : Nil

Special Programme: Entrepreneurship Development through Value Addition in Pulses

1.	Title of the Special programme	Entrepreneurship development through value addition in pulses
2.	Thematic area	Preservation and value addition
3.	Crop Category	Pulses
4.	Crop Name	Black gram and Green gram
5.	No. of demos	Group activity
6.	Tech. Demonstrated	Value added products from pulses (Adai, idli podi, paruppu podi, sprouted pulses pakoda mix, vadai mix and saiva erral kari)
7.	Amount Sanctioned (Rs.)	45,000/-

	Ра	rameters			Name of par	rameter				Unit	
1.	Primary parameter			Products				Kg/da	ıy		
2.	Secondary parameter	r1		Shelf life				In day	ys		
3.	Secondary parameter	r2		Consumer p	reference (Organolep	tic score)		-			
Particu	lars	Area/ Unit Size	Primary Parameter (Nos. only)	Unit	Secondary Parameter1 (Nos. only)	Unit	Secondary Parameter (Nos. only	, r2)	Unit	Gross Cost	Gross Return
Farmer	rs' Practice	-									
Recom	mended practice	-	50	Kg/day	120	In Days	9		-	23000	41500

	Name of the	ity	id	ing tion	No of	ha)	Ind	come	per (Rs.)	month	ease	*Econo	omics of d (Rs./	emonstra 'ha)	tion	*Ec	conomics (Rs./	; of check ha)	(
Сгор	technology demonstrated	Varie	Hybr	Farmi situa	Demo.	Area ([Demo)	Check	% Incr	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
							Н	L	Α										
Others – Special Programme on value addition in pulses	EDP on value addition in pulses	-	-	-	3 vocational training (70 participan ts)	-	44500	38500	41500	-		23000	41500	18500	1.85	-	-	-	-

Data on ot	her parameters in relation to tec	hnology demonstrated									
Parameter with unit	Parameter with unit Demo Check										
BCR	BCR 1.85 -										

Note:

- Group members involved
- Prepared pulse based
- products
- Net Return (Rs.)

- : 25 women
- : Adai, idli podi, paruppu podi, sprouted pulses pakoda mix, vadai mix and saiva erral kari
- : 18500/- per month

4. Training Programmes

Thematic area	No. of			Participants thers SC/ST Grand Total									
	courses		Others			SC/ST		(Grand Tota	Ĩ			
		Male	Female	Total	Male	Female	Total	Male	Female	Total			
I Crop													
Production													
Integrated Crop													
Management	2	2	44	46	-	6	6	28	24	52			
Total	2	2	44	46	-	6	6	28	24	52			
II Soil Health													
and Fertility													
Management													
Soil fertility													
management	1	98	36	134	-	-	-	98	36	134			
Total	1	98	36	134	-	-	-	98	36	134			
III													
Home Science/													
Women													
empowerment					_								
Value addition	1	15	8	23	5	3	8	20	11	31			
Total	1	15	8	23	5	3	8	20	11	31			
IV Plant													
Protection													
Others -safety use													
of pesticides)	1	98	36	134	-	-	-	98	36	134			
Total	1	98	36	134	-	-	-	98	36	134			
V Capacity													
Building and													
Group													
Dynamics													
Entrepreneurial													
development of													
farmers/youths	2	16	48	64	-	-	-	16	48	64			
Total	2	16	48	64	-	-	-	16	48	64			
GRAND TOTAL	7	229	172	401	5	9	14	260	155	415			

Farmers' Training including sponsored training programmes (on campus)

Farmers' Training including sponsored training programmes (off campus)

Thematic	No. of				F	Participant	s			
area	cours		Others			SC/ST			Grand Tot	al
	es	Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop										
Production										
Weed										
Management	1	8	20	28	4	26	30	12	46	58
Integrated										
Crop										
Management	1	20	-	20	7	-	7	27	-	27
Others (Agri.										
Education										
day)	1	45	55	100	-	-	-	45	55	100
Total	3	73	75	148	11	26	37	84	111	185
II Horticulture										
a)Vegetable Crops										
Production of										
low value	1	7	17	24	-	-	-	7	17	24

Thematic	No. of	Participants										
area	cours		Others			SC/ST			Grand Tota	al		
	es	Male	Female	Total	Male	Female	Total	Male	Female	Total		
and high												
volume crops												
Total (a)	1	7	17	24	-	-	-	7	17	24		
III Home												
Science/												
empowerment												
Value addition	3	27	44	71	6	6	12	33	50	83		
Total	3	27	44	71	6	6	12	33	50	83		
IV AgrL.												
Engineering												
Farm												
Machinary and												
its												
maintenance	1	25	-	25	6	-	6	25	6	31		
Total	1	25	-	25	6	-	6	25	6	31		
V Plant												
Protection												
Integrated												
Pest												
Management	2	41	11	52	11	-	11	52	11	63		
Integrated												
Disease												
Management	1	16	-	16	11	-	-	38	7	45		
Total	3	57	11	68	22	-	11	90	17	108		
VI												
Production of												
Inputs at site												
Apiculture	2	37	13	50	6	25	31	43	38	81		
Total	2	37	13	50	6	25	31	43	38	81		
GRAND												
TOTAL	13	226	160	386	51	57	97	282	230	512		

Farmers' Training including sponsored training programmes – CONSOLIDATED (On + Off campus)

Thematic area	No. of		Participants											
	course		Others			SC/ST			Grand Tot	al				
	S	Male	Female	Total	Male	Female	Total	Male	Female	Total				
I Crop														
Production	1	8	20	28	4	26	30	12	46	58				
Integrated Crop														
Management	2	58	-	58	14	-	14	72	-	72				
Others (Agri.														
Education														
day)	1	45	55	100	-	-	-	45	55	100				
Total	4	111	75	186	18	26	44	129	101	230				
II														
Horticulture														
a) Vegetable														
Crops														
Production of														
low value and														
high volume														
crops	1	7	17	24	-	-	-	7	17	24				
Total (a)	1	7	17	24	-	-	-	7	17	24				
III														
Soil Health														

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Thematic area	No. of	Participants Others SC/ST Grand Total											
	course	se Others Male Female Total				SC/ST			Grand Tot	al			
	S	Male	Female	Total	Male	Female	Total	Male	Female	Total			
and Fertility													
Management													
Soil fertility													
management	1	98	36	134	-	-	-	98	36	134			
Total	1	98	36	134	-	-	-	98	36	134			
IV AgrL.													
Engineering													
Farm Machinary													
and its													
maintenance	1	25	-	25	6	-	6	25	6	31			
Total	1	25	-	25	6	-	6	25	6	31			
V Plant													
Protection													
Integrated Pest	-												
Management	2	41	11	52	11	-	11	52	11	63			
Integrated													
Disease		10		10				20	_	45			
Management	1	16	-	16	11	-	-	38	/	45			
Others (Safety													
use of	1	00	26	124				00	26	122			
Tetal	1	98 1EE	30	134	-	-	-	98	30	132			
10Ldi	4	122	47	202		-	-	100	54	240			
of Inputs at													
or inputs at													
Aniculturo	2	27	12	50	6	25	21	12	20	01			
Total	<u> </u>	37	12	50	a	2J 25	21	42 42	20	01 Q1			
GPAND	۲	57	13	50	0	25	51	тэ	50	01			
TOTAL	20	455	332	787	56	66	11	542	385	927			

Training for Rural Youths including sponsored training programmes (On campus): Nil

Training for Rural Youth including sponsored training programmes (Off campus) : Nil

Training for Rural Youths including sponsored training programmes – CONSOLIDATED (On + Off campus) : $\ensuremath{\mathsf{Nil}}$

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

Area of training	No. of			N	lo. of	Partici	pants			
	Courses		General			SC/ST		G	rand To	tal
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops	11	264	66	330	-	-	-	264	66	330
Capacity building for ICT application	1	82	17	99	-	-	-	82	17	99
TOTAL	12	346	83	429	-	-	-	346	83	429

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

Nil

Training programmes for Extension Personnel including sponsored training programmes – CONSOLIDATED (On + Off campus)

Area of training	No. of			No.	of F	Parti	icipa	ints		
	Courses	G	ienera	al	S	C/S	Т	Gra	nd To	tal
		Μ	F	Т	Μ	F	Т	Μ	F	Т
Productivity enhancement in field crops	11	264	66	330	-	-	-	264	66	330
Capacity building for ICT application	1	82	17	99	-	-	-	82	17	99
TOTAL	12	346	83	429	•	I	-	346	83	429

Sponsored training programmes

Area of training				No	o. of	Par	ticipa	nts		
Area of training	courses		Gener	al	S	C/S	Т	Gr	and To	otal
		М	F	Т	м	F	Т	М	F	Т
Crop production and management										
Increasing production and productivity of crops	2	-	162	162	38	-	38	38	162	200
Total	2	I	162	162	38	-	38	38	162	200
GRAND TOTAL	2	-	162	162	38	-	38	38	162	200

Name of sponsoring agencies involved: NADP

Details of vocational training programmes carried out by KVKs for rural youth

	No. of				No. of	Participa	ints			
Area of training	Courses		General			SC/ST		G	irand To	tal
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Post harvest technology and value addition										
Value addition	6	58	100	158	13	9	22	71	109	180
Total	6	58	100	158	13	9	22	71	109	180
Grand Total	6	58	100	158	13	9	22	71	109	180

5. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services	628	659	233	892
Diagnostic visits	-	-	-	-
Field Day	5	63	14	77
Group discussions	-	-	-	-
Kisan Ghosthi	-	-	-	-
Film Show	5	833	65	898
Self -help groups	-	-	-	-
Kisan Mela	4	899	40	939
Exhibition	4	899	40	939
Scientists' visit to farmers field	63	265	23	288
Plant/animal health camps	-	-	-	-
Farm Science Club	-	-	-	-
Ex-trainees Sammelan	-	-	-	-
Farmers' seminar/workshop	-	-	-	-
Method Demonstrations	27	997	132	1129
Celebration of important days	6	400	12	512

Special day celebration	-	-	-	-
Exposure visits	3	164	-	164
Others (Guest lecture)	4	98	-	98
Total	749	5277	559	5836

Details of other extension programmes

Particulars	Number
Electronic Media (CD./DVD)	1
Extension Literature	11
News paper coverage	78
Popular articles	-
Radio Talks	13
TV Talks	1
Animal health amps (Number of animals treated)	-
Others- NEWS letter- quarterly	3(100 each)
Total	106

Messages sent

MOBILE ADVISORY SERVICES THROUGH MKISAN PORTAL

(While filling mobile advisory data, only fill numbers under 'Type of messages'. Please don't add any text) No of registered farmers:

Types of		Type of messages												
Messages	С	rop	Livest	ock	Weat	ther	Marke	eting	Awa	areness	Ot ent	ther terpris e	Т	otal
	No of messages	No of farmers	No of messages	No of farmers										
Text only	7	26343	-	-	-	-	-	-	7	19547	2	7438	16	53328
Total Messages	7	2634 3	-	-	-	-	-	-	7	19547	2	7438	16	53328
Total farmers Benefitte d	-	2634 3	-	-	-	-	-	-	-	19547	-	7438	-	53328

MOBILE ADVISORY SERVICES THROUGH OTHERS

(While filling mobile advisory data, only fill numbers under 'Type of messages'. Please don't add any text) No of registered farmers:

Types of						Т	ype of	messa	ages					
Messages	Cr	ор	Lives	tock	Weat	ther	Marke	eting	Aware	eness	Otl ente	ner erpris e	Тс	otal
	No of messages	No of farmers	No of messages	No of farmers										
Text only			-	-	-	-	-	-	7	630	2	180	249	1050
Voice only	240	240	-	-	-	-	-	-	-	-	I	-	I	-
Total	240	240	-	-	-	-	-	-	7	630	2	180	249	1050

Messages														
Total farmers														
Benefitted	-	240	-	-	-	-	-	-	-	630	-	180	-	1050
6. DETAILS	OF TEC	CHNOL	OGY W	EEK C	ELEBR	ATIO	Nil: Nil							

7. PRODUCTION OF SEED/PLANTING MATERIAL AND BIO-PRODUCTS

Production of seeds by the KVKs

Сгор	Name of the crop	Name of the variety /hybrid	Quantity of seed produce d (q)	Value (Rs)	Seed sup farm	Seed supplied to farmers	
					Quantity (q)	No of farmers	
Cereals	Rice	TKM 13	114.62	348660	114.62	130	-
	Rice	ADT 45	3.67	9542	3.67	7	-
	Banyard Millet	CO 2	0.315	1890	0.315	4	-
Pulses	Black gram	VBN 6	0.50	7500	-	-	-
Vegetables	Seed pocket	Assorted	75 pockets	3750	75 pockets	64	-
Total	-	-	118.655	371342	118.655	205	-

Production of planting materials by the KVKs

Сгор	Name of the crop	Name of the variety / hybrid	Number	Value (Rs.)	Planting material supplied to farmers		Supplied to other agencies (No)
					No	No of farmers	
Plantation	Coconut Seedling	ECT	654	32700	654	80	
Fodder crop saplings	Cumbu Napier	CO3	4985	4755	4985	66	-
Forest Species	Teak seedling	-	885	8850	885	39	-
	Casuarina seedlings	-	1124	615	1124	12	-
	Vengai	-	632	6320	632	20	-
	Eucalyptus	-	25	50	25	2	-
	Malai vembu	MTP 1	3	30	3	1	-
Total	-	-	8308	53320	8308	220	-

Production of Bio-Products

Bio Products	Name of the bio- product	Quantity Kg	Value (Rs.)	Supplied to farmers		Supplied to other agencies
				kg	No of farmers	kg
Bio Fertilisers	Azolla	9	90	9	6	-
Bio-pesticide	-	-	-	-	-	-
Bio-fungicide	Pseudomonas	1048.5	104850	1048.5	318	-
Bio Agents	-	-	-	-	-	-
Others	Vermicompost	2576	25760	2576	120	-

	Coirpith compost	4309	25902	4309	89	-
	Coconut tonic	86 litres	6585	86 litres	60	-
Total		7942.5	163187	7942.5	593	-

Production of livestock materials : Nil

8. DETAILS OF SOIL, WATER AND PLANT ANALYSIS

Samples	No. of Samples	No. of Farmers	No. of Villages	Amount realized (Rs.)
Soil	137	137	137	13700
Water	73	72	72	3650
Total	210	209	209	17350

9. SCIENTIFIC ADVISORY COMMITTEE

Date of SAC meeting	Number of members attended
23.09.2016	32 Nos.

Proceedings of 6th SAC

Sixth Scientific Advisory Committee meeting was conducted on 23.09.2016 at KVK, Sikkal, Nagapattinam. The meeting was started with prayer. The member secretary of SAC and Programme Coordinator of KVK Dr. A. Anuratha welcome the participants. The meeting was conducted under the chairmanship of the Director of Extension Education Dr. H. Phillip, TNAU, Coimbatore. The Programme Coordinator of KVK, Sikkal Dr. A. Anuratha presented the fifth SAC meeting recommendations and Action taken. The Subject Matter Specialist of KVK presented last year individual activities like OFTs, FLDs and Extension activities (2015-16). The participants from different departments including ATARI Principal Scientist Dr. M. J. Chandre Gowda shared their comments and suggestions.

List of Participants

Officia	al Members
1.	Dr. H. Philip, DEE, TNAU, Coimbatore
2.	Dr. M.J. Chandre Gowda, Principal Scientist, ATARI, Bangaluru
3.	Dr. M. Nagoor Meeran, DEE, TNFU, Nagapattinam
4.	Dr. A. Anuratha, Programme Coordinator, KVK, Sikkal
5.	K. Vijaya Kumar, Deputy Director of Agriculture (GOI), Nagapattinam
6.	Dr. A. Sivaramakrishnan, RJDAH, Nagapattinam
7.	V. G. Sankaran, LDM, IOB, Nagapattinam
8.	D. Ganesh, AGM, NABARD, Nagapattinam
9.	M. Seyalarasan, Lead Bank Officer, IOB, Nagapattinam
10.	R. Vidhyalakshmi, Scientist, IICPT, Thanjavur
11.	Dr. S. Natarajan, Principal Scientist, IARI-RBGRC, Aduthurai
12.	E.B. Manira, Project Manager, Puthuvazhvu Project, Nagapattinam
13.	K. Muniyappan, Project Officer, Mahalir Thittam, Nagapattinam
14.	M. Sivakumar, Assistant Director of Fisheries, Nagapattinam
15.	Dr. P. Chokalingam, Veterinary Surgeon, Cattle Breeding Development, Nagapattinam
16.	Dr. M.Vinothini, Assistant Professor, VUTRC, Nagapattinam
17.	Dr. R. Divya, Horticulture Officer, Kelaiyur block, Nagapattinam
18.	M. Jayameena, District Social Welfare Officer, Nagapattinam
19.	V.Kamaraj, Junior Engineer, Dept. of Agricultural Engineering, Nagapattinam
20.	A.Venkatesan, Assistant Engineer, District Industries Centre
	Nagapattinam
21.	D. Kumaresan, Bedroc, Kadampadi, Nagapattinam
22.	S. Sivaprakasam, EA, Doordharsan,
	Sikkal, Nagapattinam

23.	D. Senthil kumar, Programme Executive
	All India Radio, Karaikal
24.	R. Senthilkumaran, All India Radio, Karaikal
25	V. Gopinath, Forest Range Officer, Nagapattinam
Non of	fficial Members (Farmers)
1.	G. Jeevanandham, S/o. N. Ganapathy, Nangudi village, Kilvelur
2.	T. Prabhakaran, S/o. Thangarasu , Orkudi, Kilvelur
3.	R. Kasthuri, Sirkali, Nagapattinam
4.	Jacintha Joseph, Velankanni
Other	Farmers
1.	Joe Velu, Velankanni
2.	M. Pappaiyan, Karapidagai village, Nagapattinam
3.	V.Dhanabalan, Othiyathur, Kilvelur, Nagapattinam

10. PUBLICATIONS

Publications in journals

I UDI	cations in journais			
S. No	Authors	Year	Title	Journal
1	Dr.M.Alagar, SMS(Entomology.)	2017	Banana cultivation	National Banana Festival souvenir
	Dr.P.Kamraj, PC	2017	Direct sowing machineries in paddy	Agricultural Science Research in Tamil.
	Dr.J.Selvi, SMS Dr.P.Kamaraj, PC Dr.M.Alagar, SMS	2017	Tender coconut a natural boon	Published in the Patchai Boomi , Vol-7(No:7),Pg.No:24-25.
	Alagar, M And S. Keshava Bhat.	2017	Comparison of biology of tea mosquito bug, <i>Helopeltis bradyi</i> Waterhouse (Hemiptera:Miridae) on different phenological stages of cocoa (<i>Theobroma</i> <i>cacao</i> L.).	Journal of Plantation Crops. 45(3):155-161

Other publications

S.no	Item	Year	Authors Title		Publisher
1	Books	2017	g. fhkuh\$;./ b\$. bry;tp./ K. mHfh;;./ tP. "hdghujp kw;Wk; bu. ntjbuj;jpdk;.	bey; gaphpLjy; kw;Wk; kjpg;g[f; Tl;Ljy; bjhHpy;El;g';fs;.	KVK, Sikkal
		2017	Kamaraj.P., M.Alagar, A.Anuratha and R.Vedharethinam	. bey; rhFgoapy; ,ae;jpukakhf;fy; (cHth; tay;btsp gs;sp).	KVK, Sikkal
2		2017	Kidth; g. fhkuh\$;./ Kidth; K. mHfh;;./ Kidth; b\$. bry;tp./ jpU. tP. "hdghujp kw;Wk; jpU. bu. ntjbuj;jpdk;.	epyf;fliygaphpLjy; kw;Wk; gaWtifg;gaph;fspy; kjpg;g[f;Tl;Ljy; bjhHpy;El;g';fs;.	KVK, Sikkal
		2017	b\$. bry;tp/ g. fhkuh\$; kw;Wk; K. mHfh;	rpWjhdpa gaph;fspd; rhFgo kw;Wk; kjpg;g[f;Tl;Ljy; bjhHpy;El;g';fs;.	KVK, Sikkal
		2017	mHfh;/ K ./ g. fhkuh\$; kw;Wk; b\$. bry;tp.	bew;gaphpy; gaph; ghJfhg;g[bjhHpy;El;g';fs;.	
2	Book chapters / manuals	-	-	-	-

3	Training manuals	2017	Kidth; g. fhkuh\$;./ Kidth; K. mHfh;;./	bew;gaphpy; gaph; ghJfhg;g[KVK, Sikkal
4	Conference, proceeding papers, popular articles, Bulletins, Short communications	2017	Dr.M.Alagar, SMS(Ento.)	bjhHpy;El;g';fs;. A success banana cultivation	Published in the National Banana Festival souvenir
		2017	Dr.P.Kamaraj	Direct sowing machineries in paddy in Agricultural Science Research in Tamil.	Presented in the National Tamil Conference held at TNAU, Coimbatore
		2017	Dr.M.Alagar	fj;jupapy; g[G tif g{r;rpfis fl;Lg;gLj;j xU xU';fpize;j nkshz;ik Kiwfs; gw;wpa xg;gPl;L Ma;t[. 2017.	during 12.08.2017 and 13.08.2017
		2017	Dr.J.Selvi	cly; Mnuhf;fpaj;jpw;fhd kjpg;g{l;lg;gl;l rf;jp tha;e;j bfha;ah- vYkpr;ir- ,";rp jahh;epiy ghdk;	
		2017	Alagar, M And S. Keshava Bhat.	Comparison of biology of tea mosquito bug, <i>Helopeltis</i> <i>brady</i> Waterhouse(Hemiptera:Miridae) on different phenological stages of cocoa (<i>Theobroma cacao</i>	Journal of Plantation Crops. 2017, 45(3):155-161
		2017	Kidth;fs; K. mHfh;./ k. jkpH;r;bry;td;./ uh.utp./ g. fhkuh\$;./ br. jpyfk;./ b\$. bry;tp kw;Wk; m. mDuhjh.	bew;gaphpy; ,aw;if Kiwapy; g{r;rp kw;Wk; neha;fis fl;Lg;gLj;Jk; Kiwfs;. kyUk; ntshz;ik. kyh;- 16/ fdp- 8. gf;fk; - 6- 9.	Published in the Malarum Velaanmai, July 2017
		2017	Kidth;fs; g. fhkuh\$;./ K. mHfh; kw;Wk; b\$. bry;tp.	epyf;fliy rhFgoapy; fUtpfs; gr;ir g{kp. fhL-7/ kuk; - 4. gf;fk; - 47-49.	Published in the Pachai Poomi, Kanchipuram Dt. July 2017
		2017	Dr.P.Kamaraj and Dr. M.ALagar	Pest and Disease management technology in Samba/Thaladi rice crop	Published in Dinakaran on 17.12.2017
		2017	Kidth; b\$. bry;tp. Kidth; g. fhkuh\$; Kidth; K. mHfh;	kPd; kw;Wk; ,whypypUe;J kjpg;gg[f;Tl;lg;gl;l bghUl;fs; jahhpj;jy; bjhHpy;El;g';fs;. kyh;-16/ fdp- 9. gf;fk; - 22-24.	Published in the Malarum Velaanmai, 2017
		2017	Kidth; K. mHfh; Kidth; g. fhkuh\$; Kidth: b\$. brv:tp	kiH bts;sj;jpdhy; ghjpf;fg;gl;l bew:gaph:fis	Published in KVK, Sikkal, 4/2017

				ghJfhf;f bjhHpy; El;g';fs.;	
		2017	Kidth; K. mHfh; Kidth; g. fhkuh\$; Kidth; b\$. bry;tp	bew;gaphpy; xU';fpize;j gpah;ghJfhg;g[bjhHpy;El;g';fs;.	Published in KVK, Sikkal,5/2017
		2017	All Staff	Leaflet on Soil Sampling	Distributed to the farmers in the World Soil Day programme on 05.12.2017
5	Technical bulletin/ Folders	2017	mHfu;, K, g, fhkuh\$; kw;Wk; b\$. bry;tp.	fj;jupapy; xUA;fpize;j gapu; ghJfhg;g[bjhHpy; El;gA;fs;.	
		2017	mHfu;, K, g, fhkuh\$; kw;Wk; b\$. bry;tp.	bew;gapupy; naw;if Kiwapy; g{r;rp kw;Wk; Beha;fis fl;Lg;gLj;Jk; bjhHpy; El;gA;fs;.	
6	Reports	2017	All Staff	Annual Report 2016- 17, Action plan report 2017-18, Best KVK award report 2017, Ranking Questionnaire Report 2017	Published in KVK, Sikkal,
7	others		-	-	-

Newsletter/Magazine

Name of News letter/Magazine	Frequency	No. of Copies printed for distribution
3 Nos	Quarterly	100 each

2. Training/workshops/seminars etc details attended by KVK staff

S. No	Name of the staff	Title	Duration	Organized by
1	Dr.M.ALagar, SMS(Agri. Ento)	Annual review Workshop	04.05.2017 to 06.05.2017	Central Coastal Agricultural Research Institute (CCARI), Goa
2	Dr. P. Kamaraj, PC,	National Banana Festival	21.7.2017 to 23.7.2017	AC& RI, Madurai
3	Dr. P. Kamaraj, PC, Dr. M. Alagar, SMS (Ento.) Dr. J. Selvi, SMS (Home Science)	Third National Conference on Agricultural Tamil	12.7.2017 & 13.08.2017	TNAU, Coimbatore
4	Dr. J. Selvi, SMS (Home Science)	National Seminar on Food Safety and Quality – Farm to Fork	22.08.2017	HSC&RI, TNAU, Madurai
5	Dr. P. Kamaraj, PC,	Attended International Symposium on Sugarcane	18.09.2017 to 20.09.2017	TNAU, Coimbatore
6	Dr. M. Alagar, SMS (Ento.)	Attended biogas training programme	25.09.2017 to	TNAU,

		at TNAU, Coimbatore	28.10.2017	Coimbatore
7	Mr.V.Gnanabharathi	Training on Video conferencing methods under NADP	04.10.2017	TNAU, Coimbatore
8	Dr. P. Kamaraj, P C	Workshop on Vigilance Awareness Week.	01.11.2017	TNAU, Coimbatore
9	Dr. P. Kamaraj, PC	National seminar on Perspective of Agricultural Engineering in Nation Building	22.12.2017	AEC& RI, Trichy
10	Dr. M. Alagar, SMS (Agrl. Ento.)	State level meeting on Kisan Call Centre	21.01.2018	TNAU, Coimbatore
11	Mr.V.Gnanabharathi	Invigorating Extension through ICT Tools	05.02.2018	TNAU, Coimbatore
12 Dr. M. Alagar, SMS (Agrl. Ento.)		International conference on Bio control and Insect Pest Management	28.01.2018 to 01.02.2018	AC& RI, Killikulam
13	Dr. M. Alagar, SMS (Ento)	National workshop on Entomology	13.02.2018	AC&RI, Madurai
14	Dr. M. Alagar SMS (Agrl. Entomology)	Preparation of SREP- ATMA meeting at Kodaikanal	21.02.2018 to 23.02.2018	
15 Dr. P. Kamaraj, Programme Coordinator		International conference on INFTES 2018	09.03.2018 & 10.03.2018	TNAU, Coimbatore
16 Dr. M. Alagar, SMS (Agrl. Entomology)		International conference on INFTES 2018	09.03.2018 & 10.03.2018	TNAU, Coimbatore
17	Dr. J. Selvi , SMS (Home Science)	International conference on INFTES 2018	09.03.2018 & 10.03.2018	TNAU, Coimbatore
18	Dr. P. Kamaraj, PC	National Conference on KVKs	16.03.2018 & 17.03.2018	IARI, New Delhi
19	Dr. M. Alagar, SMS(Ento), Dr. J. Selvi, SMS(H.Sc), Mr.V.Gnanabharathi, P.A.(Tech.), Mr.R.Vedharethinam, Farm Manager	District Level Seminar on Awarness programme on Protection of Plan Varieties and Farmers Rights Act 2001	17.03.2018	District Collectorate, Nagapattina m.

11. DETAILS ON RAIN WATER HARVESTING STRUCTURE AND MICRO-IRRIGATION SYSTEM : Nil

12. INTERVENTIONS ON DISASTER MANAGEMENT/UNSEASONAL RAINFALL/HAILSTORM/COLD WAVES etc: Nil

Major area coverage under alternate crops/varieties :	Nil
Farmers-scientists interaction on livestock management :	Nil
Animal health camps organised	: Nil
Seed distribution in drought hit states	: Nil
Large scale adoption of resource conservation technologies	: Nil

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Awareness campaign : Nil
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Recognitions &Awards/Special attainments and	Recognitions &Awards/Special attainments and Achievements of Practical Importance					
Recognitions & Awards (Team Award/individua						
Item of Recognition	Individual/ collaborative					
Best Presentation Award –Dr.M.Alagar, SMS(Agri. Ento)	2017	Annual Rivew Workshop at Central Coastal Agricultural Research Institute (CCARI), Goa	Individual			
Best Teacher Award –Dr.P.kamaraj, PC	2017	PARY Foundation, Chennai	Individual			
Krishi Shree Award–Dr.P.kamaraj, PC	2017	Malarum Velanami, Journal	Individual			
Krishi Shree Award- Dr. M. Alagar, Ph.D.,	2017	Malarum Velanami, Journal	Individual			
Krishi Shree Award- Dr. J. Selvi, Ph.D.,	2017	Malarum Velanami, Journal	Individual			

13. Awards/rewards by KVK and staff

14. Details of sponsored projects/programmes implemented by KVK

S.No	Title of the programme / project	Sponsoring agency	Objectives	Duration	Amount (Rs)
1	New India Manthan Programm	ICAR	Awareness creation on New India Manthan	One Day	80000
2	PPV and FR act 2001	ICAR	Awareness creation PPV and FR act 2001	One Day	80000

15. Success stories

Farmers Field School (FFS) on Mechanized Rice Cultivation:

Mechanized rice cultivation in Tamil Nadu is becoming need of the hour due to escalating wages of farm labour and their scarcity, particularly during the peak transplanting and harvesting period. Rice cultivation needs machinery and equipment to perform several tedious operations like levelling, puddling, transplanting, harvesting and bundling of paddy straw. Use of improved rice machinery is necessary in modern rice cultivation as it results in improved efficiency of operation besides saving the labour and time. In order to advocate the use of machineries from sowing to bundling of paddy straw, FFS on '**Mechanized Rice Cultivation** was conducted at Melapoothanur village of Thirumarugal Block with 30 farmers who were really wanted to reduce cost of cultivation with help of mechanization in rice cultivation.

Fourteen lectures were conducted during the crop period such as land leveling, bund trimming and plastering, puddling, nursery management, mechanical seeding, mat/ tray nursery preparation, transplanter, Integrated Nutrient Management, foliar spraying of nutrients, weeders, Integrated Pest and Disease Management, spraying of plant protection chemicals, combine harvester, and Straw baler were taught to them with machinery demonstrations and skill oriented classes. During the last class, the experiences and benefits of FFS were shared by the FFS farmers. Thirty farmers of Melapoothanur village participated and acquired the information of mechanized rice cultivation.

Crop	Thematic area	Technology demonstrated	Season	No. of farmers		rs
				Male	Female	Total
Rice	Farm Machinery	FFS on Mechanized Rice cultivation	Samba	27	3	30

Details of farming situation

Crop	Season	Farming	Soil type	Status of soil		Previous	Sowing	Harvesting	
		situation		Ν	Ρ	K	crop		
Rice	Samba	Irrigated	Sandy loam	L	М	Н	Rice	Sep-Oct	Feb-Mar

Performance of FFS

		Demo	yield (Q/Ha)	Check	%
Technology demonstrated	Variety		Н	Α	yield	Increas
					(Q/Ha)	е
Mechanized Rice Cultivation	Rice TKM 13	38.4	40.2	42.0	38.3	13.0

Impact of Mechanized Rice Cultivation Technological impact

Thirty farmers were thoroughly understood the technological know -how and field level adoption.

Tashnalagu	Awar	eness	Adoption		
rechnology	No.	%	No.	%	
Laser Guided Leveller	30	100	20	67	
Puddling (Power Tiller/Tractor)	30	100	30	100	
Nursery management	30	100	30	100	
Mechanical seeding /transplanting	30	100	15	50	
Integrated Nutrient Management	30	100	21	70	
Foliar spraying of nutrients	30	100	23	76	
Cono weeder & Power weeder	30	100	23	76	
Integrated pest and disease management	30	100	21	70	
Spraying of plant protection chemicals	30	100	30	100	
Combine harvester	30	100	30	100	
Straw baler	30	100	10	33	
Average	30	100	23	77	

It could be observed from the table that the knowledge on mechanized rice cultivation was 100 per cent through the FFS programme and average of 77 per cent of farmers have adopted machineries in rice cultivation. Low adoption of transplanter and straw baler due to non availability of machines and small land holding of farmers.

Economic Impact

Average cost of cultivation (Rs/ha)		Average gross return (Rs/ha)		Average r (Rs	net return /ha)	Benefit Cost ratio	
Demo	Check	Demo	Check	Demo	Check	Demo	Check
34200	39300	60300	57450	26100	18150	1.8	1.5

Extension and training activities

S. No.	Activity	No. of activities	Remarks		
1.	Farmers training	6	Farmers are quite responsive to appropriate		
2.	Demonstrations	8	machineries of rice cultivation due labour scarcit		
3	Publications (booklet- Farm	1	and high cost of labour.		
	Mechanization in Rice in Tamil)				

Technical feedback on the demonstrated technologies

Farmers reaction

- Adopting recommended spacing with mechanical transplanting reduces pests and diseases damage.
- Complete rice mechanization will reduce cost of cultivation and saving of labour cost.
- Timely completion of rice cultivating operations with machineries will reduce mental agony of farmers.
- Significant yield increase was observed in mechanized rice cultivation compared to conventional cultivation

Success Story of Seed Production of rice variety TKM 13 Back Ground:

Newly released rice variety TKM 13 (TNAU, 2014) was demonstrated in 20 progressive farmers' field for seed production during Rabi season in all parts of Nagapattinam District.

During the demonstration programme, it was found that TKM 13 produces an average seed yield of 4000 Kg/ha with the 385 productive tillers/m². It was also observed that TKM 13 had the character of moderately resistant to leaf folder, stem borer, green leaf hopper, blast, rice tungro disease, brown spot, sheath rot and resistance to disease and lodging. Moreover this variety has high milling yield and head rice yield which is also suitable for cooking meals, idly and dosa. It has high linear elongation ratio with superior cooking and organoleptic (bio chemical property responsible for very good taste of cooked rice) characters.

TKM 13 rice variety is a good alternate to BPT 5204 with superior characters like early vigor, sprout and grow fast in field condition. It is highly responsive to fertilizers and manures application enhancing plant potential to give more yield. It can be cultivated successfully in delta and other irrigated lands. It does not lodge during heavy rain because of strong tiller base. It has the duration of 128 to 132 days.

Among the ten demonstrations, Mr.G.Jeevanantham S/o Th.Ganapathi has done best seed cultivation practices in the rice variety TKM - 13. He is 53 years old progressive farmer and his qualification is HSC.

Intervention Process:

KVK, Sikkal approached Mr.G.Jeevanantham for demonstrating seed production in TKM 13. He got technologies related seed production Rice TKM 13 which will be replicated in his farmers .

Intervention Technology:

He adopted the following recent technologies in cultivation of rice variety TKM 13:

- Seed treatment with Pseudomonas (10 g/kg of seed) and Trichoderma viride (4 g/kg),
- Seed treatment with Azospirillum @ 600g/Kg of seed
- > Transplanting of 25days old seedlings
- > Drenching the seedlings with *Pseudomonas fluorescens* @ 10 g per litre of water
- Application of Pseudomonas fluorescens @ 1 Kg/acre,
- > Application of balanced fertilizer application in basal and top dressing.
- > Application of Gypsum @ 500 kg at the time of last ploughing.
- Application of Zinc Sulphate @ 0.5% +0.2% urea at 15 days interval.

Keeping of light traps (12 Nos./ha) and Yellow sticky traps (12 Nos./ha) to control insects in his field which are of eco-friendly in nature.

Neem Seed Kernel Extract (NSKE) @ 0.5% or Imidacloprid @ 0.5ml/litre of water based on the need to control sucking pests.

Impact on Horizontal spread:

Since, he is a progressive farmer in Kilvelur block of Nagapattinam district; Nagapattinam farmers can make a visit to his farm by the adoption of latest technologies for rice cultivation and seed production of TKM 13. So far, nearly 50 farmers from nearby areas visited his field and gained knowledge from him.

Impact on Economic Gains:

He earned Rs.80000/- as a gross return from one hectare of land by cultivating seed production of TKM 13 in 128 days by investing Rs.37000/- during the year 2016.

SI.No.	Particulars	BPT 5204	TKM 13
1.	Yield (kg/ha)	3350	4000
2.	Cost of cultivation (Rs./ha)	37000	37000
3.	% of Dead Hearts (SP I)	5.6	4.6
4.	% of White Ears (SP II)	2.4	1.1
5.	% of Leaf Damage (SP III)	10.6	7.7
6.	Gross income (Rs./ha)	67000	80000
8.	BC Ratio	1.8	2.2

Impact on Employment Generation:

He provided regular employment for 2 persons. He also generated employment opportunity for minimum 10 persons during season at least for 30 days.

Success story on Black Gram VBN 6 variety makes a farmer to uplift the farm income- 2017-18:

Background

Mr.G.Jeevanantam S/O. Ganapathy, was successfully cultivating Black gram VBN 6 during summer and Kharif season. In his field, Cluster Front line demonstration was conducted on Rabi pulses using Black Gram VBN 6 variety during 2015-16 and training on Integrated Crop Management technologies for pulses crop was conducted.

Intervention process

He approached KVK, Sikkal for getting guidance for the intensive cultivation of all crop especially like rice, pulses and vegetable. Moreover, he got some useful information related to cultivation of irrigated pulses. He was actively involved in taking up this cluster FLD demonstration on Rabi pulses.

Intervention Technology

He gathered knowledge on seed treatment with bio fertilizers, Nutrient management and application of TNAU Pulse Wonder during peak flowering stage through the trainings.

The following technologies were adopted in the black gram cultivation.

- Seed treatment with Imidacloprid 5ml/kg of seed.
- Seed treatment with Rizhobium 250 gm and Trichoderma viredi 4 gm/kg of seeds.
- Basal application of fertilizers Urea 15 kg, DAP 25 kg and MOP 15 kg/acre before sowing.
- Foliar spraying of TNAU pulse wonder @5 kg/ha.
- Installation of pheromone traps @ 12 nos/ha.

Economic gains:

SI.No.	Particulars	ADT 3	VBN 6
1	No. of Pod/plant	36	65
2	Yield (q/ha)	7.0	20.0
3	Gross Return (Rs./ha)	70,000	2,00,000
4	Net Return (Rs./ha)	50,000	1,37,500

Impact on Horizontal spread

Through the sale VBN 6 as seeds more than 100 farmers were benefitted and provided seed to Department of Agriculture for double the income. Exposure visit was arranged among the farmers to visit his field to popularizing this success for large scale adoption.

Impact on Employment Generation

He generated regular employment for 10 persons.

Large scale adoption:

Black gram variety VBN 6 was popularized through cluster FLD on Rabi pulses among the farmers of Nagapattinam district during 2015-16 and 2016-17. Now the variety black gram VBN 6 is cultivated in large scale area more than 15000 hectares over 43030 hectares of Black gram.

15. B. Give details of innovative methodology or innovative technology of Transfer of Technology developed and used during the year:

-Nil-

15. C. 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. N o	Crop / Enterprise	ITK Practiced	Purpose of ITK
1	Rice	• Treated the seeds with <i>Pseudomonas</i> @10g/kg of seeds by soaking in the water over night. For increasing the beneficial organisms in the field and he used ' Amirtha Karaisal' (5 kg cow dung + 5 liters cow urine + 500 gram jiggery). It was mixed well and kept it over night then poured in the irrigation canal and main field; this will increase the beneficial microorganisms in the field.	The chemical fertilizers and pesticides hinder the activity of the beneficial micro organisms in the soil. So, the farmer

 Fish Amino Acid @ 300 ml mixed in 10 liters of water (1kg of fish waste or fish and 1 kg of Jaggery, both was added in container, without adding water and mixed well, closed and the container was kept in shade for 30 to 40 days then it was filtered well). It was given good result. Panchakavya 300 ml mixed with 10 litres of water and sprayed in the field at 20 and 40 DAT. If crop growth is stunted, he sprayed 500 ml concentrated 'Themor karaisal' mixed with 10 litres of water (5 litres of butter milk + 5 litres of coconut milk + 5 litres of tender coconut water and kept in shade for 7 days). Pest management he used herbal repellents (2 kg of Nochi, <i>Abutilan indicam</i>, Calotropis, Arali, Aravarai loaves) which will not oat by cattle, shoon, and goats 	activities should enhance these beneficial microorganisms, he follows organic cultivation practices.
 Nochi, <i>Abutilan indicam</i>, Calotropis, Arali, Aravarai leaves) which will not eat by cattle, sheep and goats. The leaves were chopped in to small pieces and soaked into 10 litres of cow urine and kept for 25 days. 	

<u> 16. IMPACT</u>

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

	No. of	Cultivable Are	a under Crop (in	Productivity o	f the Crop (Per
Crops	OFT carried during the last five years	Before Disseminatio n of technology	After Dissemination of technology	Before Adoption of new technology	After Adoption of new technology
Rice	7	144055	164436	3653	3850
Black gram	3	31391	43030	563	750
Green Gram	1	23999	44299	580	725
Sugarcane	1	2685	2712	55000	68000
Ground Nut	1	1913	2673	2800	2900
Cotton	2	321	2633	205	230
Coconut	2	3401	4001	25200 Nuts	26900 Nuts
Vegetables (Brinjal)	1	537	603	18560	19450
Mango	1	1845	3160	6835	12000
Type of Non – Crop	No. of OFT carried	Productivity/Yield		Change in I inter of	ncome due to vention OFT
Activities	during the last five years	Before Adoption of new technology	After Adoption of new technology	Before Adoption of new technology	After Adoption of new technology
Farm machinery	1	3653	3800	16088	25918
Animal feed to	1	150 liters	195 liters	2,325	3,420
increase milk					
production					

Impact of FLD carried out by the KVK in the district.

	No. of	Cultivable Are He	a under Crop (in ectare)	Productivity/Yield of the Crop (Per Hectare)		
Crops	during the last five years	Before Dissemination of technology	After Dissemination of technology	Before Adoption of new technology	After Adoption of new technology	
Rice	24	144055	164436	3653	4031	
Black gram	7	31391	43030	563	870	
Green Gram	2	23999	44299	580	875	
Sugarcane	1	2685	2712	55000	75000	
Ground Nut	3	1913	2673	2800	3000	
Cotton	1	321	2633	205	250	
Coconut	3	3401	4001	25200 Nuts	28000 Nuts	
Vegetables	14	537	603	18560	21600	
Mango	2	1845	3160	6835	16000	
Maize	3	27	50	5520	6000	
	•	Non-Crop Act	ivities			
Type of Non – Crop	No. of FLD carried	Product	ivity/Yield	Change in Income due to intervention of FLD		
Activities	during the last five years	Before Adoption of new technology	After Adoption of new technology	Before Adoption of new technology	After Adoption of new technology	
DSR under Tractor	2	3653	4031	16088	25918	
Drawn Seed drill						
Integrated Farming System	2	-	-	1,25,000	2,79,000	
Fisheries	2	613 gm(wt gain)	948 gm (wt gain)	25,289	29,565	
Animal feed supplements to increase milk	2	150 liters	195 liters	2,325	3,420	

16.B. Cases of large scale adoption :

Large Scale adoption of Black Gram VBN 6 variety uplift the farm income

Background

Mr.G.Jeevanantam S/O. Ganapathy, was successfully cultivating Black gram VBN 6 during summer and Kharif season. In his field, Cluster Front line demonstration was conducted on Rabi pulses using Black Gram VBN 6 variety during 2015-16 and training on Integrated Crop Management technologies for pulses crop was conducted.

Intervention process

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Economic gains:

SI.No.	Particulars	ADT 3	VBN 6
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Impact on Horizontal spread

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Impact on Employment Generation

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Large scale adoption:

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16.C. Details of impact analysis of KVK activities carried out during the reporting period: NIL

17. LINKAGES

17.A. Functional linkage with different organizations

Name of organization	Nature of linkage				
State dept. of Agriculture	Jointly organized training, extension programmes				
	 Giving technical support and infrastructural support during monthly zonal workshop. 				
	Jointly organized field diagnostic survey for pest and disease management				
	SSS programme				
	• Flood / Drought assessment				
	Yield performance assessment				
	 Organizing drought mitigation programme 				
Dept. of Horticulture	Jointly organized training programmes				
	• Offering need based technical guidance to the				
	extension functionaries.				
	• Field diagnostic visit				
	• Flood / Drought assessment				
	Yield performance assessment				
	• Third party Inspection on Drip irrigation unit at farmers field				
NABARD	Organizing Farm Science Club and exposure visits.				
Local NGOs like MSSRF,	Organizing on/off campus training Programmes and exposure visits, offering				

SWEET, DHANYA, CCD, and	need based technical guidance			
CIKS				
TANUVAS, K VK-Thiruvarur,	Technical consultancy and exchange of SMS during training programmes.			
KVK-Karaikal				
1.AIR (Karaikal, Trichy,),	• Offering radio programmes on latest crop production technologies and			
2.Kamban TV under CSR(periodical announcements of technologies on critical crop stage.			
Reliance Foundation) • Offering Live TV programme on latest crop production technologies				
District Collectorate.	Farmers grievance day meeting, Organizing need based training programme and			
	promoting agricultural entrepreneurship, PMFBY programmes.			

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

Name of the scheme	Date/ Month of initiation	Funding agency	Amount (Rs.)
	Nil		

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