



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
Technology Assessed			
Crops	2	2	8
Total	2	2	8
Technology Refined	: NIL		
Grand Total	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

Name of KVK	Message Type	Type of Messages						Total
		Crop	Live stock	Weather	Marketing	Awareness	Other enterprise	
Naga pattinam	Text only	7	-	-	-	7	2	16
	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 Tamil Nadu Dr.J.Jayalalitha Fisheries University, Sikkal-611108 Nagapattinam Dt.	04365 -246266	kvksikkal@tnau.ac.in	www.kvknagapattinam.com

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	vc@tnfu.ac.in	www.tnfu.ac.in

Fisheries University Nagapattinam – 611 001	04365- 240088			
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1.3. Name of the Programme Coordinator with phone & mobile No

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

1.4. Year of sanction: 2004

1.5. Staff Position (as 31st March 2017)

Sl. 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	Agri. 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**

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			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.

List of Participants of 6th SAC

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

	10.	R. Vidhyalakshmi Scientist, IICPT, Thanjavur
	11.	Dr. S. Natarajan Principal Scientist, IARI-RBGRC, Aduthurai
	12.	E.B. Maniraj District Project Manager, Puthuvazhvu Project, Nagapattinam
	13.	K. Muniyappan Assistant Project Officer, Mahalir Thittam Nagapattinam
	14.	M. Sivakumar Assistant Director of Fisheries, Nagapattinam
	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. Gopinath Forest Range Officer, Nagapattinam
Non official 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

Action taken on 6th SAC recommendation:

Sl. No.	6 th SAC Recommendations	Proposed by	Action Taken
1.	More number of demonstrations and	Dr. Chandre Gowda Principal Scientist,	• Off campus training on Water management 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 value addition technology to SHG members(40 nos) on 04.01.2018 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 harvest 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. • Horticultural department 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 brinjal. 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 training Sirkali block farmers on 02.03.2017 at Sirkali Neduvasal and Kokkur. • Post harvest management and value addition technology to SHG members(40 nos) on 04.01.2018 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 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 situation	Characteristics
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

Crop	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)

Sl.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	Thrust Area
1.	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

OFT				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

Training				Extension Programmes			
3				4			
Number of Courses		Number of Participants		Number of Programmes		Number of participants	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
67	40	3715	1736	716	855	8245	5836

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

Livestock, poultry strains 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	Crop	Name of the technology assessed	No. of trials	No. of farmers
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:

TO1	Farmers Practice : Rice (ADT 43)
TO2	Sesame TMV7 (TNAU 2012)
TO3	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.	<i>T.viride</i> @ 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)	5	4.50	20805	1:1.46	-
<i>Technology 2(Mention details)</i> Gingelly TMV 8 (TNAU 2012)		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.

7. Critical inputs given: (along with quantity as well as value)

Name of the critical input	Quantity	Value (Rs.)
TRY 3	15 kg	1000
Kuzhiztichan	15 kg	1000
Kothamalli samba	15 kg	1000
Glucometer with strips	1 No.	4400
Proximate analysis		2700
	Total	10100

8. Results:

Performance of the technology

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

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/ Enterprise	Thematic Area*	Technology 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)

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Source of funds	Area (ha)		No. of farmers/ demonstration			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

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Cereal (Paddy)	Kharif	Irrigated	Clay soil	L	M	H	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

Sl.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

[illegible]

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Cereal (Paddy)	Rabi	Irrigated	Clay soil	L	M	H	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

Sl.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.	Crop	Them atic area	Technology Demonstr ated	Seaso n and year	Source of funds	Area (ha)		No. of farmers/ demonstration			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

Crop	Season	Farming situation (RF/Irrigate d)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Paddy	Rabi	Irrigated	Clay loam	L	M	H	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

Sl.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

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Source of funds	Area (ha)		No. of farmers/ demonstration		
						Proposed	Actual	SC/ST	Others	Total
1	Paddy	IPDM	Demonstration of Traditional rice variety with Eco friendly management	October - January	ICAR	4	4	4	6	10

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Paddy	Rabi	Irrigated	Clay loam	L	M	H	Pulse	04.10.2017	27.2.2018	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**

Sl. No.	Crop	Them atic area	Technology Demonstrated	Season and year	Source of funds	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
						Proposed	Actual	SC/ST	Others	Total	
1.	Sugarcane	IPM	Demonstration of IPM strategies for management of sugarcane root grub	June-March	ICAR	10	4	4	6	10	Nil

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Sugarcane	Rabi	Irrigated	Sandy loam	L	M	H	Rice	05.06.2017	20.04.2018	1628.3	-

Technical Feedback on the demonstrated technologies

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

Farmers' reactions on specific technologies

S. No	Feed Back
1	The <i>Beauveria brongniartii</i> 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	Crop	Thematic area	Technology Demonstrated	Season and year	Source of funds	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					ICAR	Proposed	Actual	SC/ST	Others	T	
1	Brinjal	IDM	Demonstration of IDM strategies for <i>Phomopsis</i> blight management in brinjal	Jun - Sep		10	4	4	6	10	Nil

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Vegetable/Brinjal	Kharif	Irrigated	Sandy loam	L	M	H	Brinjal	25.06.17	30.08.17 commencing	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

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**

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Source of funds	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					ICAR	Proposed	Actual	SC/ST	Others	Total	
1.	Jasmine	ICM	ICM in Jasmine	Jan - Mar		10	4	4	6	10	Nil

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

Crop	Thematic Area	technology demonstrated	Name of the Variety/ Hybrid		No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
			Domo	Check			Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
							High	Low	Average										
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 Area	Technology demonstrated	Name of the Variety/ Hybrid		No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
			Domo	Check			Domo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
							High	Low	Average										
Cereals																			
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

Commercial crops

Crop	Thematic Area	Technology demonstrated	Name of the Variety/ Hybrid		No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
			Domo	Check			Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
							High	Low	Average										
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
Vegetables																			
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 demonstrated	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		Economics of demonstration (Rs.) or Rs./unit				Economics of check (Rs.) or Rs./unit			
				Demo	Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Mushroom	Nil															
Apiculture	Nil															
Maize Sheller	Nil															
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															

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 CFLD/ATMA/NABARD/other ICAR institutes etc

Crop	Source of fund	Thematic Area	Technology demonstrated	Name of the Variety/ Hybrid		No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
				Demo	Check			Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
								High	Low	Average										
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/-

Parameters			Name of parameter				Unit		
1. Primary parameter			Products				Kg/day		
2. Secondary parameter1			Shelf life				In days		
3. Secondary parameter2			Consumer preference (Organoleptic score)				-		
Particulars	Area/ Unit Size	Primary Parameter (Nos. only)	Unit	Secondary Parameter1 (Nos. only)	Unit	Secondary Parameter2 (Nos. only)	Unit	Gross Cost	Gross Return
Farmers' Practice	-								
Recommended practice	-	50	Kg/day	120	In Days	9	-	23000	41500

Crop	Name of the technology demonstrated	Variety	Hybrid	Farming situation	No. of Demo.	Area (ha)	Income per month (Rs.)				% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
							Demo			Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
							H	L	A										
Others – Special Programme on value addition in pulses	EDP on value addition in pulses	-	-	-	3 vocational training (70 participants)	-	44500	38500	41500	-		23000	41500	18500	1.85	-	-	-	-

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
BCR	1.85	-

Note:

Group members involved	: 25 women
Prepared pulse based products	: Adai, idli podi, paruppu podi, sprouted pulses pakoda mix, vadai mix and saiva erral kari
Net Return (Rs.)	: 18500/- per month

4. Training Programmes

Farmers' Training including sponsored training programmes (on campus)

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		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 (off campus)

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		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 area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		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 Machinery 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
Others (Safety use of pesticides)	1	98	36	134	-	-	-	98	36	132
Total	4	155	47	202	22	-	-	188	54	240
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	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) : Nil

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops	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 Courses	No. of Participants								
		General			SC/ST			Grand Total		
		M	F	T	M	F	T	M	F	T
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

Sponsored training programmes

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		M	F	T	M	F	T	M	F	T
Crop production and management										
Increasing production and productivity of crops	2	-	162	162	38	-	38	38	162	200
Total	2	-	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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		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	Crop		Livestock		Weather		Marketing		Awareness		Other enterprise		Total	
	No of messages	No of farmers	No of messages	No of farmers	No of messages	No of farmers	No of messages	No of farmers	No of messages	No of farmers	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	26343	-	-	-	-	-	-	7	19547	2	7438	16	53328
Total farmers Benefitted	-	26343	-	-	-	-	-	-	-	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	Type of messages													
Messages	Crop		Livestock		Weather		Marketing		Awareness		Other enterprise		Total	
	No of messages	No of farmers	No of messages	No of farmers	No of messages	No of farmers	No of messages	No of farmers	No of messages	No of farmers	No of messages	No of farmers	No of messages	No of farmers
Text only			-	-	-	-	-	-	7	630	2	180	249	1050
Voice only	240	240	-	-	-	-	-	-	-	-	-	-	-	-
Total	240	240	-	-	-	-	-	-	7	630	2	180	249	1050

Messages														
Total farmers Benefitted	-	240	-	-	-	-	-	-	-	630	-	180	-	1050

6. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS: Nil

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

Production of seeds by the KVKs

Crop	Name of the crop	Name of the variety /hybrid	Quantity of seed produced (q)	Value (Rs)	Seed supplied to farmers		Supplied to other agencies (q)
					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

Crop	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
				kg	No of farmers	
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

Official 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 official 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

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 cacao</i> L.).	Journal of Plantation Crops. 45(3):155-161

Other publications

S.no	Item	Year	Authors	Title	Publisher
1	Books	2017	ப. காமராஜ்., ஜெ. செல்வி., மு. அழகர்., வீ. ஞானபாரதி மற்றும் ரெ. வேதரெத்தினம்.	நெல் பயிரிடுதல் மற்றும் மதிப்புக் கூட்டுதல் தொழில்நுட்பங்கள்.	KVK, Sikkal
		2017	Kamaraj.P., M.Alagar, A.Anuratha and R.Vedharethinam	. நெல் சாகுபடியில் இயந்திரமயமாக்கல் (உழவர் வயல்வெளி பள்ளி).	KVK, Sikkal
2		2017	முனைவர் ப. காமராஜ்., முனைவர் மு. அழகர்., முனைவர் ஜெ. செல்வி., திரு. வீ. ஞானபாரதி மற்றும் திரு. ரெ. வேதரெத்தினம்.	நிலக்கடலைபயிரிடுதல் மற்றும் பயறுவகைப்பயிர்களில் மதிப்புக்கூட்டுதல் தொழில்நுட்பங்கள்.	KVK, Sikkal
		2017	ஜெ. செல்வி., ப. காமராஜ் மற்றும் மு. அழகர்	சிறுதானிய பயிர்களின் சாகுபடி மற்றும் மதிப்புக்கூட்டுதல் தொழில்நுட்பங்கள்.	KVK, Sikkal
		2017	அழகர், மு., ப. காமராஜ் மற்றும் ஜெ. செல்வி.	நெற்பயிரில் பயிர் பாதுகாப்பு தொழில்நுட்பங்கள்.	
2	Book chapters / manuals	-	-	-	-

3	Training manuals	2017	முனைவர் ப. காமராஜ்., முனைவர் மு. அழகர்.,	நெற்பயிரில் பயிர் பாதுகாப்பு தொழில்நுட்பங்கள்.	KVK, Sikkal
4	Conference, proceeding papers, popular articles, Bulletins, Short communications	2017	Dr.M.Alagar, SMS(Ento.)	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 during 12.08.2017 and 13.08.2017
		2017	Dr.M.Alagar	கத்திரியில் பழு வகை பூச்சிகளை கட்டுப்படுத்த ஒரு ஒருங்கிணைந்த மேளாண்மை முறைகள் பற்றிய ஒப்பீட்டு ஆய்வு . 2017.	
		2017	Dr.J.Selvi	உடல் ஆரோக்கியத்திற்கான மதிப்பூட்டப்பட்ட சக்தி வாய்ந்த கொய்யா-எலுமிச்சை- இஞ்சி தயார்நிலை பானம்	
		2017	Alagar, M And S. Keshava Bhat.	Comparison of biology of tea mosquito bug, <i>Helopeltis bradyi</i> Waterhouse(Hemiptera: Miridae) on different phenological stages of cocoa (<i>Theobroma cacao</i> L.).	Journal of Plantation Crops. 2017, 45(3):155-161
		2017	முனைவர்கள் மு. அழகர்., ம. தமிழ்ச்செல்வன்., ரா.ரவி., ப. காமராஜ்., செ. திலகம்., ஜெ. செல்வி மற்றும் அ. அனுராதா.	நெற்பயிரில் இயற்கை முறையில் பூச்சி மற்றும் நோய்களை கட்டுப்படுத்தும் முறைகள். மலரும் வேளாண்மை. மலர்-16, கணி- 8. பக்கம் - 6-9.	Published in the Malarum Velaanmai, July 2017
		2017	முனைவர்கள் ப. காமராஜ்., மு. அழகர் மற்றும் ஜெ. செல்வி.	நிலக்கடலை சாகுபடியில் கருவிகள். பச்சை பூமி. காடு-7, மரம் - 4. பக்கம் - 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	முனைவர் ஜெ. செல்வி. முனைவர் ப. காமராஜ் முனைவர் மு. அழகர்	மீன் மற்றும் இறாலிலிருந்து மதிப்பூக்கட்டப்பட்ட பொருட்கள் தயாரித்தல் தொழில்நுட்பங்கள். மலர்-16, கணி- 9. பக்கம் - 22-24 .	Published in the Malarum Velaanmai, 2017
		2017	முனைவர் மு. அழகர் முனைவர் ப. காமராஜ்	மழை வெள்ளத்தினால் பாதிக்கப்பட்ட	Published in KVK, Sikkal, 4/2017

			முனைவர் ஜெ. செல்வி	நெற்பயிர்களை பாதுகாக்க தொழில் நுட்பங்கள்.	
		2017	முனைவர் மு. அழகர் முனைவர் ப. காமராஜ் முனைவர் ஜெ. செல்வி	நெற்பயிரில் ஒருங்கிணைந்த பயிர் பாதுகாப்பு தொழில்நுட்பங்கள்.	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	அழகர்ஜி முஜி பஜி காமராஜ் மற்றும் ஜெ. செல்வி.	கத்திரியில் ஒருங்கிணைந்த பயிர் பாதுகாப்பு தொழில் நுட்பங்கள்.	
		2017	அழகர்ஜி முஜி பஜி காமராஜ் மற்றும் ஜெ. செல்வி.	நெற்பயிரில் யேற்கை முறையில் பூச்சி மற்றும் னொநாய்களை கட்டுப்படுத்தும் தொழில் நுட்பங்கள்.	
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.A.Lagar, 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 at TNAU, Coimbatore	25.09.2017 to 28.10.2017	TNAU, 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 INFATES 2018	09.03.2018 & 10.03.2018	TNAU, Coimbatore
16	Dr. M. Alagar, SMS (Agrl. Entomology)	International conference on INFATES 2018	09.03.2018 & 10.03.2018	TNAU, Coimbatore
17	Dr. J. Selvi , SMS (Home Science)	International conference on INFATES 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 Awareness programme on Protection of Plant Varieties and Farmers Rights Act 2001	17.03.2018	District Collectorate, Nagapattinam.

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

Awareness campaign

: Nil

13. Awards/rewards by KVK and staff

Recognitions & Awards/Special attainments and Achievements of Practical Importance			
Recognitions & Awards (Team Award/individual)			
Item of Recognition	Year	Awarding Organization National / International / Professional; Society	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

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		
				Male	Female	Total
Rice	Farm Machinery	FFS on Mechanized Rice cultivation	Samba	27	3	30

Details of farming situation

Crop	Season	Farming situation	Soil type	Status of soil			Previous crop	Sowing	Harvesting
				N	P	K			
Rice	Samba	Irrigated	Sandy loam	L	M	H	Rice	Sep-Oct	Feb-Mar

Performance of FFS

Technology demonstrated	Variety	Demo yield (Q/Ha)			Check yield (Q/Ha)	% Increase
		L	H	A		
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.

Technology	Awareness		Adoption	
	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 net return (Rs/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 machineries of rice cultivation due labour scarcity and high cost of labour.
2.	Demonstrations	8	
3	Publications (booklet- Farm Mechanization in Rice in Tamil)	1	

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.

Sl.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:

Sl.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	The chemical fertilizers and pesticides hinder the activity of the beneficial micro organisms in the soil.

		increase the beneficial microorganisms in the field. • 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 karaikal' 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>Abutilon indicum</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.	So, the farmer activities should enhance these beneficial microorganisms, he follows organic cultivation practices.
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16. IMPACT

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

Crops	No. of OFT carried during the last five years	Cultivable Area under Crop (in Hectare)		Productivity of the Crop (Per Hectare)	
		Before Dissemination 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 Activities	No. of OFT carried during the last five years	Productivity/Yield		Change in Income due to intervention of OFT	
		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 increase milk production	1	150 liters	195 liters	2,325	3,420

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

Crops	No. of FLD carried during the last five years	Cultivable Area under Crop (in Hectare)		Productivity/Yield of the Crop (Per Hectare)	
		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 Activities					
Type of Non – Crop Activities	No. of FLD carried during the last five years	Productivity/Yield		Change in Income due to intervention of FLD	
		Before Adoption of new technology	After Adoption of new technology	Before Adoption of new technology	After Adoption of new technology
DSR under Tractor Drawn Seed drill	2	3653	4031	16088	25918
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 production	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

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.

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The following technologies were adopted in the black gram cultivation.

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- Installation of pheromone traps @ 12 nos/ha.

Economic gains:

Sl.No.	Particulars	ADT 3	VBN 6
1	No. of Pod/plant	36	65
2	Yield (q/ha)	7.0	20.0
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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.

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 CIKS	need based technical guidance
TANUVAS, K VK-Thiruvarur, KVK-Karaikal	Technical consultancy and exchange of SMS during training programmes.
1.AIR (Karaikal, Trichy,), 2.Kamban TV under CSR(Reliance Foundation)	• Offering radio programmes on latest crop production technologies and periodical announcements of technologies on critical crop stage. • 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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