

**Tamil Nadu Dr.J.Jayalalithaa Fisheries University**

**Annual Action Plan 2018-19**

**ICAR-Krishi Vigyan Kendra**

Sikkal-611 108  
Nagapattinam Dt.

**ICAR-Agricultural Technology Application Research Institute**

**ZONE X, Hyderabad**

**ACTION PLAN OF KVKs IN ZONE X FOR 2018-19**

**1. General information about the Krishi Vigyan Kendra**

1.1 Name and address of KVK : ICAR-Krishi Vigyan Kendra  
with Phone, Fax and e-mail Sikkal-611 108  
Nagapattinam District  
Phone: 04365 – 246266  
E-mail: kvksikkal@tnau.ac.in  
Website : [www.kvknagapattinam.com](http://www.kvknagapattinam.com)

1.2 Name and address of host : Tamil Nadu Fisheries University  
organization Nagapattinam-611 001  
Phone: 04365- 240088  
Fax: 91-4365-240088  
Email: vc@tnfu.ac.in

1.3 Year of sanction : 2004

1.4 Website address of KVK [www.kvknagapattinam.com](http://www.kvknagapattinam.com) 01.03.2018

## 2. Details of staff as on date (10.04.2018)

Sl. No.	Sanctioned post	Name of the incumbent	Discipline	Existing Pay band	Grade Pay	Date of joining	Permanent / Temporary
2.1	Programme Coordinator( i/c)	Dr. R.Santhakumar	Fisheries Extension	37000-67000+10000	10000	01.04.2018	Permanent
2.2	Subject Matter Specialist	Vacant					
2.3	Subject Matter Specialist	Vacant					
2.4	Subject Matter Specialist	Vacant					
2.5	Subject Matter Specialist	Vacant					
2.6	Subject Matter Specialist	Vacant					
2.7	Subject Matter Specialist	Vacant					
2.8	Programme Assistant (Tech)	Mr.V. Gnanabharathi	Agriculture	35900-113500	-	05.06.2007	Permanent
2.9	Programme Assistant (Comp)	Vacant					
2.10	Farm Manager	Mr.R. Vedharethinam	Agronomy	35900-113500	-	04.06.2007	Permanent
2.11	Accountant/ Superintendent	Vacant	-				
2.12	Stenographer	Vacant	-				
2.13	Driver 1	Vacant	-				
2.14	Driver 2	Vacant	-				
2.15	Supporting staff 1	Th. A. Ravi	-	12000 (Fixed)	--	01.12.2011	Temporary
2.16	Supporting staff 2	Mr. K. Krishnasamy	-	12000 (Fixed)	--	01.12.2011	Temporary

### 3. Details of SAC meeting conducted during 2017-18: Nil

Last Date : 23.09.2016  
Tentative date of SAC meeting proposed during 2018-19 : August 2018

#### Action Taken Report on Recommendations of the Sixth SAC Meeting held on 23.09.2016 at KVK, Sikkal.

Sl. No.	Major recommendations	Status of action taken in brief
1.	More number of demonstrations and trainings on water management need to be conducted	<ul style="list-style-type: none"><li>• Off campus training on Water management was conducted at Periyakuththagai on 25.1.2017 for 41 farmers</li><li>• On campus training on water management in agricultural crops on 17.03.2017 for 30 farmers.</li><li>• Demonstration on mobile sprinkler and boom sprayer on 17.03.2017.</li><li>• Demonstration on mobile sprinkler and boom sprayer on 19.07.2017.</li></ul>
2.	Demonstrations and trainings on Bee Keeping have to be conducted	Training and demonstration was conducted on Honey bee rearing technologies on 19.08.2017 at Kollidam block for 42 nos. of farmers and 08.11.2017 at Ilaiyamathukoodam, Sirkazhi block for 36 nos. of farmers
3.	Issue training certificates to trainees for the trainings conducted by KVK	<ul style="list-style-type: none"><li>• Certificates issued to 58 trainees during the On campus training on "Operation and maintenance of agricultural machines" held on 20.10.016.</li><li>• Issued certificates to the Anganwadi workers participated in KVK training on 29.11.2016 Nutritional importance and health aspects training</li><li>• 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</li></ul>

		<p>Technology Week</p> <ul style="list-style-type: none"> <li>• Certificates provided to the farmers who attended vocational training “Rearing of milch animals and fodder cultivation technology” on 23 &amp; 24<sup>th</sup> March 2017.</li> <li>• This will be followed in all the trainings conducted at KVK</li> </ul>
4.	More number of trainings on Post Harvest Technology need to be given	<ul style="list-style-type: none"> <li>• Conducted training on Preservation technology and value addition in tomato Farmers &amp; Self Help Group for 39 on 01.09.2016 at KVK, Sikkal.</li> <li>• 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.</li> <li>• Post harvest technology, value addition and marketing for Extension Functionaries (14 Nos.), Dept. of Agricultural Marketing on 21.11.2016 at KVK, Sikkal.</li> <li>• 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.</li> <li>• Conducted training on value addition in fish and prawn SHG members on 10.01.2017 at KVK, Sikkal for 22 SHG members.</li> <li>• Conducted training on Value addition in rice, pulses, fruits and vegetables ATMA farmers of on 21.02.2017 at Vedaranyam block for 40 members.</li> <li>• Post harvest technology and value addition in pulses Keelaiyur block farmers on 23.02.2017 at Thirukuvalai for 100 farmers.</li> <li>• Conducted pulses and value addition training to Sirkali block farmers on 02.03.2017 at Sirkali, Neduvasal and Kokkur.</li> </ul>

		<ul style="list-style-type: none"> <li>• Conducted On campus training on Value addition from millets on 19.07.2017(31 farmers).</li> <li>• Off campus training on Value addition in Moringa on 07.09.2017 at Mannambandhal for 26 no. of farmers.</li> <li>• Off campus training on value addition on 27.09.2017 at Kuruchi for 24 no. of farmers.</li> </ul>
5.	Involve relevant line departments, banks in trainings to explain the Government schemes to the participants	<ul style="list-style-type: none"> <li>• 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</li> <li>• 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.</li> <li>• 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.</li> <li>• In the New India Manthan Programme, the governments scheme was explained to the 438 no of participants on 29.08.2017 at District Collectorate.</li> </ul>
6.	Create awareness on ICT in Agriculture to the participants of training programmes	Created awareness on ICT in Agriculture to the 2453 Nos. of participants in 47 trainings conducted by KVK, Sikkal
7.	Conduct training programmes involving youth and conduct follow up study	<ul style="list-style-type: none"> <li>• Rearing of milch Animal technologies for Rural Youth on 23, 24.03.2017 at KVK,Sikkal.</li> <li>• Training on Honey bee rearing at Panagattangudi, Sirkazhi</li> </ul>

		<p>block on 19.08.2017 for 42 Nos. of rural youth.</p> <ul style="list-style-type: none"> <li>• Off campus training on Value addition in Moringa on 07.09.2017 at Mannambandhal for 26 farmers</li> <li>• Off campus training on value addition on 27.09.2017 at Kuruchi for 24 farmers</li> </ul>
8.	Form whatsapp group for farmers of Nagapattinam district	Whats app 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	<ul style="list-style-type: none"> <li>• 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, SMS(Agrl.Entomology) and Dr.M. Tamil Selvan, SMS (Horticulture) of KVK, Sikkal, Dr. Agila Devi, Assistant Professor(Plant Pathology) and Dr.K.Vanitha, Assistant Professor (Crop Physiology) of TRRI, Aduthurai and Mr.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.</li> <li>• Report on field diagnostic visit was sent to the Director of Planning and Monitoring to publish in the TNAU Newsletter.</li> <li>• Demonstration on management of <i>Phomopsis</i> blight in Brinjal is being conducted at 10 farmers holdings at Keelaiyur and Thalainayar block under FLD 2017-18.</li> <li>• On 05.10.2017, diagnostic field visit were carried out and relevant Management practices were suggested to the farmers.</li> </ul>

10.	More number of trainings for value addition in fish has to be conducted	<ul style="list-style-type: none"> <li>• 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.</li> <li>• Conducted training on value addition in fish and prawn SHG members on 26.12.2016 at KVK, Sikkal for 82 SHG members.</li> <li>• Conducted training on value addition in fish and prawn SHG members on 10.01.2017 at KVK, Sikkal for 22 SHG members.</li> <li>• Conducted training on value addition in fish and prawn SHG members on 30.03.2017 at KVK, Sikkal for 23 SHG members.</li> <li>• Conducted On campus training on Value addition from millets on 19.07.2017(31 farmers).</li> </ul>
11.	Propose OFT / FLD in sugarcane and cotton	Demonstration of IPM strategies for the management of sugarcane root grub is proposed under FLD- 2017-18.
12.	Promote <i>Bixa</i> and <i>Dalbergia sissoo</i> in Nagapattinam district in consultation with the Forest Scientists of FC & RI, MTP.	<i>Dalbergia sissoo</i> tree seedling planted at KVK farm on 24.01.2017 and same was vitiated due to seasonal and climatic factors
13.	Display machineries and tools related to sowing to harvest in rice at KVK, Sikkal	Posters on machineries related to rice cultivation from sowing to harvest was completed and the same was displayed in the Exhibitio hall.
14.	Develop suitable Agro Forestry model for Nagapattinam district at KVK, Sikkal	Agro forestry model was developed at KVK, Sikkal as demonstration unit to the farmers of Nagapattinam district with cultivation of Malaivembu in 10 cents.
15.	Open sales counter in front of KVK	Purchase of open sales counter was completed.
16.	Include awareness on food safety and quality testing in home science training	<ul style="list-style-type: none"> <li>• Awareness on food safety and quality testing is insisted in the home science training are as follows.</li> <li>• Conducted training on Preservation technology and value addition in tomato Farmers &amp; Self Help Group for 39 on 01.09.2016 at KVK, Sikkal.</li> </ul>



		<ul style="list-style-type: none"> <li>• 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.</li> <li>• Post harvest technology, value addition and marketing for Extension Functionaries (14 Nos.), Dept. of Agricultural Marketing on 21.11.2016 at KVK, Sikkal. <ul style="list-style-type: none"> <li>• 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.</li> </ul> </li> <li>• Conducted training on value addition in fish and prawn SHG members on 10.01.2017 at KVK, Sikkal for 22 SHG members.</li> <li>• Conducted training on Value addition in rice, pulses, fruits and vegetables ATMA farmers of on 21.02.2017 at Vedaranyam block for 40 members.</li> <li>• Post harvest technology and value addition in pulses Keelaiyur block farmers on 23.02.2017 at Thirukuvalai for 100 farmers. <ul style="list-style-type: none"> <li>• Conducted pulses and value addition training to Sirkali block farmers on 02.03.2017 at Sirkali, Neduvasal and Kokkur.</li> <li>• Conducted On campus training on Value addition from millets on 19.07.2017(31 farmers).</li> <li>• Off campus training on Value addition in Moringa on 07.09.2017 at Mannambandhal for 26 farmers.</li> <li>• Off campus training on value addition on 27.09.2017 at Kuruchi for 24 farmers</li> </ul> </li> </ul>
17.	Develop High density planting of mango in KVK, Sikkal	Area for mango planting has been identified at KVK, Sikkal.
18.	Training on Fishery technology to be given	Conducted On campus training on Rearing of Gift Tilapia fish culture in Farm pond on 03.01.2017 by involving TNFU, Nagapattinam.
19.	Steps to be taken to renovate the farmers hostel	Renovation works were completed

#### 4. Capacity Building of KVK Staff

##### 4.1. Plan of Human Resource Development of KVK personnel during 2018-19

S. No	New Areas of Training	Institution proposed to attend	Justification
1	Professional skills for trainers of extension institutes of Agriculture	MANAGE, Hyderabad	To improve the professional skills for transfer of technologies
2	IFS under Rice based cropping system – Wet land	CRRI, Cutack	To improve the professional skills for transfer of technologies for IFS under wetland ecosystem
3	<ul style="list-style-type: none"> <li>• Recent advances in biopesticides</li> <li>• Eco friendly pest management</li> </ul>	NCIPM, New Delhi	To popularize the eco friendly pest management techniques at farmers level
4	Advances in vegetable cultivation	IIHR, Bengaluru, IARI, New Delhi	To know about the recent technologies in vegetable cultivation
5	Advances in Horticultural technologies	IIHR, Bangalore	To know about the recent technologies in Horticulture
6	<ul style="list-style-type: none"> <li>• Competency Skills Enhancement for Extension Professionals</li> <li>• Developing winning research proposals in agricultural research</li> </ul>	NAARM, Hyderabad	<ul style="list-style-type: none"> <li>• To develop competency skills for transfer of technologies</li> <li>• To improve the skills for writing proposals in agriculture</li> </ul>
7	Food processing industry application techniques	IICPT, Thanjavur	To develop the food processing technologies in Fruits ,cereals ,millets and vegetables
8	Professional skills for trainers of extension institutes of Agriculture	MANAGE, Hyderabad	To improve the professional skills for transfer of technologies
9	Value addition in marketing of fishery products	CIFT, Kochi, CMFRI, Kochi and CIFA, Bhubaneswar	To develop the value addition related to fish products, Mariculture and Fresh water aqua culture
10	Management of saline and Sodic soils	Central Soil Salinity Research Institute, Karnal	Salt affected areas of Nagapattinam district was 13,500 ha. Hence, management on salt affected areas is needed

#### 4.2. Cross-learning across KVKs during 2018-19

S. No	Name of the KVK proposed		Specific learning areas
1	Within ring	KVK, Tiruvarur	Training/Exposure Visit/Demonstration – IFS under rice based cropping system
		KVK, Trichy	Field Visit/ Demonstartions - SSI Technologies
		KVK, Karaikal	Training/Exposure Visit/Demonstration - Aquaculture
2	Within zone	KVK, Cuddalore	<ul style="list-style-type: none"> <li>• Exposure Visit Demonstartions – Mechanization in sugarcane</li> <li>• Exposure Visit - High Density Planting in Cashew and Mango</li> </ul>
		KVK Vamban	Exposure Visit Demonstartions – System of Pulse Intensification
		KVK, Namakkal	Exposure Visit/Training - Poultry and Animal Husbandry
3	Outside zone	KVK, Thumkur, Kannur	Exposure visit/ Training/Demonstration – Farm mechanization

#### 5. Proposed cluster of KVKs (3 to 5 neighboring KVKs) to be formed for sharing knowledge/expertise, resources and activities during 2018-19

S.No.	Name of the KVKs included in the cluster	What do you intend to share with Cluster KVKs	What do you expect from Cluster KVKs
5.1	KVK, Tiruvarur	IFS and Nutritional Roof top garden	Demo units
5.2	KVK, Karaikal	Aquaculture and ornamental fish culture	Demo units
5.3	KVK, Namakkal	Integrated Farming System and Goat farming	Demo units on Goat, Poultry and Fishery

## 6. Operational areas details proposed during 2018-19

S.No.	Major crops & enterprises being practiced in cluster villages	Prioritized problems in these crops/ enterprise	Extent of area (ha/No.) affected by the problem in the district	Names of Cluster Villages identified for intervention	Proposed Intervention (OFT, FLD, Training, extension activity etc.)*
1	Rice, Pulses and Tree crops	<ul style="list-style-type: none"> <li>• Yield reduction due to saline problem</li> <li>• (EC - more than 2 dS/m)</li> <li>• Use of Saline water for irrigation</li> </ul>	Rice-13500 ha, Animals population of District – 7,17,600 (cow, goat and sheep)	Marachery (Thalainayar)	<p>OFT. Assessment of Gift Tilapia culture in farm ponds.</p> <p>OFT . Assessment of Comparative Production performance of Native chicken.</p> <p>OFT. Role of mineral mixture and Ovsynch protocol in fertility management.</p> <p>FLD. Demonstration of Saline tolerant rice varieties for Nagapattinam District.</p> <p>FLD. Demonstration of Saline tolerant rice varieties for Nagapattinam District.</p> <p>FLD . Demonstration of Eco friendly pest and disease management in Thaladi (Rabi) paddy.</p> <p>FLD. Demonstration of Feed based fish culture in farm ponds.</p> <p>FLD. Demonstration of</p>

					Scientific Rearing of Japanese Quail
2	Rice and Pulses	<ul style="list-style-type: none"> <li>• Lack of eco friendly IPDM practices for rice</li> <li>• Non adoption of traditional rice varieties.</li> <li>• High demand for organically grown traditional rice variety.</li> <li>• Unaware of Gift Tilapia fish culture.</li> <li>• Low milk yield for local breed.</li> </ul>	<p>Rice-1,20,000 ha,</p> <p>Pulses area-92017 ha,</p> <p>Animals population – 7,17,600 (cow, goat and sheep)</p>	Sangamangalam (Nagapattinam)	<p>OFT. Assessment of Gift Tilapia culture in farm ponds.</p> <p>OFT. Assessment of Comparative Production performance of Native chicken.</p> <p>OFT. Role of mineral mixture and Ovsynch protocol in fertility management.</p> <p>FLD . Demonstration of Traditional rice variety with Eco friendly management.</p> <p>FLD . Demonstration of Eco friendly pest and disease management in Thaladi (Rabi) paddy.</p> <p>FLD . Demonstration of ICM in Black gram VBN 8 in Nagapattinam Dt.</p> <p>FLD. Demonstration of Pulse Seeder in Nagapattinam district.</p> <p>FLD. Demonstration of Scientific Rearing of Japanese Quail.</p> <p>FLD. Demonstration of Azolla cultivation and Feeding to dairy cows</p>

3	Vegetables, Coconut, Ground Nut and Flowers	<ul style="list-style-type: none"> <li>• Salinity problem in rice araea.</li> <li>• Lack of knowledge on improved vegetable cultivation.</li> <li>• Yield reduction due to existing local variety</li> <li>• Yield reduction due to Pest problem in vegetables.</li> </ul>	Rice-13500 ha Vegetables-506 ha Area under groundnut-2,642 ha	Vellappallam (Thalainayar), Pushbavanam	<p>OFT . Assessment of drought tolerant groundnut varieties under rainfed condition.</p> <p>OFT. Assessment of Dolichos Bean varieties (Bush Type) suitable for Nagapattinam district.</p> <p>OFT. Assessment of suitable tomato hybrids for Preparation of Value added products.</p> <p>FLD . Demonstration of Saline tolerant rice varieties for Nagapattinam District.</p> <p>FLD. Demonstration of Grafted Brinjal Technology in Nagapattinam District.</p> <p>FLD. Demonstration of IPDM strategies for mango fruit flies.</p> <p>FLD. Demonstration of Tractor Drawn Planter cum Herbicide Applicator for Groundnut cultivation.</p> <p>FLD. Demonstration of vegetable transplanter.</p> <p>FLD. Demonstration of Azolla cultivation and Feeding to dairy cows.</p>
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4	Rice, Pulses, Cotton, Sugarcane, vegetables and forestry	<ul style="list-style-type: none"> <li>• Non availability of YMV resistant black gram varieties in rice fallow condition.</li> <li>• Non adoption of traditional rice varieties</li> <li>• High demand for organically grown traditional rice variety.</li> <li>• Unawareness of grafted brinjal</li> </ul>	Rice-1,60,440 ha, Black gram- 4000 ha Cotton- 2,000 ha , Vegetables-506 ha, Millets area- 50 ha.	Rathanallur (Sirkazhi)	OFT-Assessment of suitable alternate crop for Rice in Kuruvai (Kharif) season. FLD. Demonstration on Eco friendly IPM strategies for major pests in cotton. FLD. Demonstration of Cumbu variety (CO 10) and its value addition. FLD. Demonstration of Grafted Brinjal Technology.
5	Rice, Pulses, cotton, Vegetable, Fisheries, goat and poultry	<ul style="list-style-type: none"> <li>• Incidence of drought.</li> <li>• Low yield of existing ground nut variety under rainfed condition (900 kg/ha). Non adoption of traditional rice varieties</li> <li>• High demand for organically grown traditional rice variety.</li> <li>• Lack of eco friendly IPDM fro cotton</li> </ul>	Rice-13500 ha Black gram area- 4000 ha. Cotton- 2,000 ha	Agarakadambanur (Kilvelur)	OFT. Assessment of Gift Tilapia culture in farm ponds. FLD. Demonstration of Traditional rice variety with Eco friendly management. FLD. Demonstration of Eco friendly pest and disease management in Thaladi (Rabi) paddy. FLD . Demonstration of ICM in Black gram VBN 8 in Nagapattinam Dt. FLD . Demonstration on Eco friendly IPM strategies for major pests in cotton. FLD. Demonstration of Pulse Seeder in Nagapattinam district . FLD. Demonstration of Feed

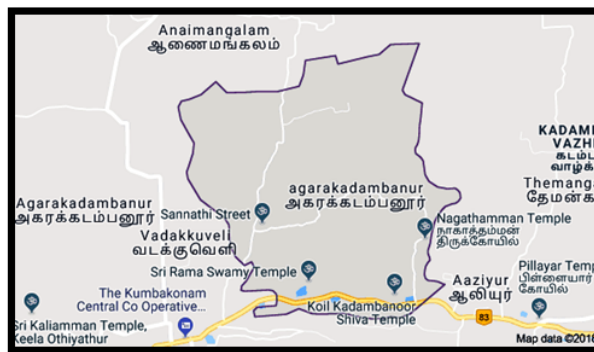
					based fish culture in farm ponds
6	Vegetables, Ground nut Mango and Coconut	<ul style="list-style-type: none"> <li>• Higher incidence of Phomopsis blight</li> <li>• Unaware of scientific management practices</li> <li>• Unaware of grafted brinjal and low yield in existing variety.</li> <li>• Mango yield loss up to 50%</li> </ul>	Vegetables-506 ha  Area under groundnut-2,642 ha,  Mango-1700 ha	Kovilpathu	<p>OFT. Assessment of Dolichos Bean varieties (Bush Type) suitable for Nagapattinam district.</p> <p>OFT . Assessment of suitable tomato hybrids for preparation of Value added products.</p> <p>FLD. Demonstration of Grafted Brinjal Technology in Nagapattinam District.</p> <p>FLD. Demonstration of IPDM strategies for Mango fruit flies.</p> <p>FLD. Demonstration of Tractor Drawn Planter cum Herbicide Applicator for Groundnut cultivation.</p> <p>FLD. Demonstration of vegetable transplanter.</p>
7	Vegetables, Ground nut Mango, Coconut and Flowers	<ul style="list-style-type: none"> <li>• Yield loss (20%) due to budworm damage</li> <li>• Poor flower quality leads to less market preference</li> </ul>	Vegetable-506 ha,  Area under groundnut-2,642 ha  Mango-1700	Puthupalli	<p>OFT. Assessment of drought tolerant groundnut varieties under rainfed condition.</p> <p>OFT. Assessment of Dolichos Bean varieties (Bush Type) suitable for Nagapattinam district .</p> <p>OFT . Assessment of suitable</p>



			ha		<p>tomato hybrids for Preparation of Value added products.</p> <p>FLD. Demonstration of Grafted Brinjal Technology in Nagapattinam District .</p> <p>FLD . Demonstration of IPDM strategies for mango fruit flies.</p> <p>FLD. Demonstration of Tractor Drawn Planter cum Herbicide Applicator for Groundnut cultivation.</p> <p>FLD. Demonstration of vegetable transplanter .</p> <p>FLD. Entrepreneurship development through value addition in fish and Prawn.</p>
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### Village to be Adopted: Agarakadambanur (Kilvelur Block)

Agarakadambanur is a large village located in Kilvelur Block of Nagapattinam district, Tamil Nadu with total **862 families** residing. The Agarakadambanur village has population of **3288** of which 1636 are males while 1652 are females as per Population Census 2011. In Agarakadambanur village population of children with age 0-6 is 333 which makes up 10.13 % of total population of village.



**Total Agriculture land: 383 ha**

**Major Crops/Enterprises:** Rice, Pulses, Vegetables, Fishery, Goat farming and Poultry.

Particulars	Total	Male	Female
Total No. of Houses	862	-	-
Total population	3288	1636	1652
Child (0-6)	333	174	159
Schedule Caste	1,904	944	960
Literacy (%)	81.35	88.10	74.75
Total Workers	1,710	994	716
Main Worker	1,650	1650	-
Marginal Worker	60	29	31
Cultivators	64	55	9
Agriculture Labourer	1,267	636	631
Household Industries	30	21	9
Other Workers	289	253	36

## 7. Technology Assessment during 2018-19

S. No.	Crop/ enterprise	Prioritized problem	Title of intervention	Technology options	Source of Technology	Name of critical input	Qty per trial	Cost per trial (Rs.)	No. of trials	Total cost for the intervention (Rs.)	Parameters to be studied	Team members		
7.1	Oil seed/ Groundnut	Low yield of existing ground nut variety under rainfed condition	Assessment of drought tolerant groundnut varieties under rainfed condition	TO 1- Farmer's practice					24 kg	2400	5	24000	No. of pods/plant, Yield, BC ratio	-
				TO 2 – CO 6	TNAU - 2010 )	CO 6 Seeds (kernal) @120 Kg/ha								
				TO3- Dharani (TCGS 1043)	ANGRAU (RARS, Tirupathi) -2012	Dharani - Seeds (kernal) @120 Kg/ha								
<b>Total</b>							<b>4800</b>	<b>5</b>	<b>24000</b>					

S. No.	Crop	Prioritized problem	Title of intervention	Technology options	Source of Technology	Name of critical input	Qty / trial	Cost per trial	No. of trials	Total cost for the intervention (Rs.)	Parameters to be studied	Team members
7.2	Vegetables/ Dolichos bean.	Higher cost of construction of bower for the cultivation of pandal type.  Unawareness on cultivating bush type varieties.	Assessment of Dolichos Bean varieties (Bush Type) suitable for Nagapattinam district	TO1 – Famers Practice	-	-	-		5	9000	No. of pods per plant.  Yield.  Economics	-
				TO2- COGB-14	TNAU- 2007	COGB-14 Seeds @ 25 kg/ha Seed treatment with Rhizobium @ 600 g/ha Soil application of Rhizobium @ 2 kg/ha	2.5 kg	750				
							1 kg	100				
							2 kg	200				
			TO3 -Arka Jay	IIHR- 2007	Arka Jay seeds @ 25 kg/ha	2.5 kg	750					
<b>Total</b>								<b>1800</b>	<b>5</b>	<b>9000</b>		

S. No.	Crop/enterprise	Prioritized problem	Title of intervention	Technology options	Source of Technology	Name of critical input	Qty per trial	Cost per trial (Rs.)	No. of trials	Total cost for the intervention (Rs.)	Parameters to be studied	Team members	
7.3	Vegetable/Tomato hybrids	Low yield of pulp content in existing variety Lack of technical knowledge in preparation of tomato products	Assessment of suitable pest tolerant tomato hybrids for Nagapattinam Dt.	TO1: Farmers Practice						5	5750	No. of fruits/plant. Fruit weight Yield (Q/ha). Economics.	-
				TO2: COTH 3	TNAU (2013)	Seed 100-150g/ha	15 gm	500					
						<i>Trichoderma viride</i> (4g/kg of seed)	1 kg	150					
				TO3- Arka Rakshak-	IIHR, Bangalore (2012)	Seed 100-150g/ha	15 gm	500					
<b>Total</b>								<b>1150</b>	<b>5</b>	<b>5750</b>			

S. No.	Crop/enterprise	Prioritized problem	Title of intervention	Technology options	Source of Technology	Name of critical input	Qty per trial	Cost per trial (Rs.)	No. of trials	Total cost for the intervention (Rs.)	Parameters to be studied	Team members
7.4	Fisherie	Short	Assessment	TO 1- Farmer's practice					3	49,500	Survival rates of	-

	s	duration of water availability.  Lack of awareness about Gift tilapia culture	of Gift Tilapia culture in farm ponds	TO 2- Gift Tilapia	TNFU	Tilapia seeds: 1500 Nos. @ Rs.5/ seed  Feeds : 250kg @ Rs. 36/kg	1500 nos.	7500			fishes.  Body weight of fishes.  Yield.  Economics.		
	<b>Total</b>								<b>16500</b>	<b>3</b>	<b>49,500</b>		

7.5	Lives tock / Poultry	Low weight gain of bird.  Lack of awareness of Desi Bird rearing.  Low income of rural youth entrepreneurs	Assessment of production performance of different poultry breeds under backyard system.	TO1- Farmers Practice (Native chicken)					3	43200	Mortality.  Egg production.  Adult weight.  Economics	-
				TO2- Srinidhi	Directorate of Poultry Research , Hyderabad.	Day old chicks (60 nos.	60 nos.	3600				
						Vaccine:		200				
						Feed (60X4kgX Rs.30)		7200				
TO3 - Gramapriya		Feeder & Drinker		400								
				Brooder		3000						
				<b>Total</b>			<b>14,400</b>	<b>3</b>	<b>43200</b>			

7.6	Live stock/ Cattle	Low fertility rate of cows.  Un awareness of TANUVAS mineral mixture and Ovsynch protocol	Role of mineral mixture and Ovsynch protocol in fertility management	TO1- TEN cows will be supplemented with TANUVAS Mineral mixture alone			30 cows	28500	Morphology of genital organs.  Duration and intensity of heat signs.  Conception rate.  Milk Yield.  Infections on the genital tract.	-	
				TO2- TEN cows will be supplemented with TANUVAS Mineral Mixture + Ovsynch protocol will be adopted.	Deworming of 30 dairy animals @ Rs.100.	50					
						Hormones (GnRH & PGF <sub>2</sub> α)					150
											Mineral Mixture – 2 kg X 30 X Rs.55.
				TO3 - Ovsynch protocol alone will be adopted.	AI Straws  Cotton , Syringes and Gloves,etc.	200					
<b>Total</b>	<b>950</b>	<b>30 cows</b>	<b>28500</b>								

**8. Technology Refinement during 2018-19: NIL**

## 9. Frontline Demonstrations during 2018-19

S. No	Category	Crop/ enterprise	Prioritized problem	Technology to be demonstrated	Hybrid or Variety	Name of the Hybrid or Var.	Source of Technology	Name of critical input	Qty per Demo	Cost per Demo (Rs.)	No. of Demo	Total cost for the Demo (Rs.)	Parameters to be studied	Team members
9.1	Cereals	Rice	Non adoption of traditional rice varieties.  High demand for organically grown traditional rice variety	Demonstration of Traditional rice variety with Eco friendly management	Variety	Jeeragasamba/ Mapillaisamba	-	GM-Sesbania rostrata seeds @ 50 kg/ha	20 kg	1500	10	35000	Productive tillers/ m <sup>2</sup> .  Yield.  Economics	-
								Jeeraga samba seed @ 40 kg/ha	16 kg	450				
								Mapillai samba seed @ 40 kg/ha	16 kg	450				
								<i>Pseudomonas</i>	5 kg	500				
								Pheromone trap @12 Nos/ha	5 nos.	500				
								Azophos @ 20 gram/kg of seed	1 kg	100				
<b>Total</b>									<b>3500</b>	<b>10</b>	<b>35000</b>			



S. No	Category	Crop/enterprise	Prioritized problem	Technology to be demonstrated	Hybrid or Variety	Name of the Hybrid or Var.	Source of Technology	Name of critical input	Qty per Demo	Cost per Demo (Rs.)	No. of Demo	Total cost for the Demo (Rs.)	Parameters to be studied	Team members
9.2	Cereals	Rice	Yield reduction due to saline problem.  Use of Saline water for irrigation	Demonstration of Saline tolerant rice varieties for Nagapattinam District	Variety	CSR 36	CSSRI, Karnal	Seeds @ 40 kg /ha	16 kg	960	10	10600	EC, pH and initial and post harvest soil.  Plant height (cm).  No. of panicles/m <sup>2</sup>  Yield (Q/ha).  Economics	-
								<i>Pseudomonas</i> @ 2.5 kg/ha	Each 1 kg	100				
<b>Total</b>										<b>1060</b>	<b>10</b>	<b>10600</b>		

S. No	Category	Crop/enterprise	Prioritized problem	Technology to be demonstrated	Hybrid or Variety	Name of the Hybrid or Var.	Source of Technology	Name of critical input	Qty per Demo	Cost per Demo (Rs.)	No. of Demo	Total cost for the Demo (Rs.)	Parameters to be studied	Team members
9.3	Cereals	Rice	Reduction in natural enemies due to Indiscriminate use of pesticides.  Lack of knowledge on	Demonstration of Eco friendly pest and disease management in Thaladi (Rabi) paddy	Variety	CR 1009/BPT 5204	TNAU 2012	<i>T. japonicum</i>	4 cc	300	10	30000	<ul style="list-style-type: none"> <li>• P:D ratio (Pest and Defenders)</li> <li>• Pest Infestation Percentage</li> <li>• Types and number of</li> </ul>	SMS (Ento) SMS (Horti)
								<i>T. chilonis</i>	6 cc	400				
								Border crop seeds	100 g each	500				
								<i>P. fluorescens</i>	5 kg	500				
								<i>L. lecanii</i>	2 kg	300				
<i>B. bassiana</i>	2 kg	300												

			eco friendly pest and disease management strategies.					<i>Azadiractin</i> 10000 ppm	500 ml	200			natural enemies	
								Pheromone traps and lures	5 nos	500			<ul style="list-style-type: none"> <li>Yield (Kg/Ha)</li> <li>Economics</li> </ul>	
<b>Total</b>										<b>3000</b>	<b>10</b>	<b>30000</b>		

S. No	Category	Crop/ enterprise	Prioritized problem	Technology to be demonstrated	Hybrid or Variety	Name of the Hybrid or Var.	Source of Technology	Name of critical input	Qty per Demo	Cost per Demo (Rs.)	No. of Demo	Total cost for the Demo (Rs.)	Parameters to be studied	Team members
9.4	Pulses	Black Gram	Low due to existing local variety.  Unawareness of new variety	Demonstration of ICM in Black gram VBN 8 in Nagapattinam dt.	Variety	VBN 8	TNAU 2016	Black gram seeds	10 kg	1500	10	20800	No of plants/m <sup>2</sup>  No of pods/plant . Yield  Economics.	-
								<i>Pseudomonas</i>	1 kg	100				
								<i>T. viride</i>	1 kg	100				
								Yellow sticky trap	2 kg	400				
<b>Total</b>										<b>2080</b>	<b>10</b>	<b>20800</b>		
9.5	Cash crops/ Fibre Crops	Cotton	Severe incidence of boll worms and sucking pests. Poor crop establishment.  yield reduction up to 25%	Demonstration on Eco friendly IPM strategies for major pests in cotton	Hybrid	Bt cotton RCH 2	TNAU, 2012 and CICR, 2014	Azadiractin 0.3%	1 lit.	600	10	13500	<ul style="list-style-type: none"> <li>% pest reduction (Boll worms &amp; sucking pest)</li> <li>Yield (Kg/Ha)</li> <li>Economics</li> </ul>	-
								Yellow sticky trap	5 nos	150				
								<i>Lecanicillium leccanii</i>	2 kg	200				
								<i>T. chilonis</i>	6 cc	400				
<b>Total</b>										<b>1350</b>	<b>10</b>	<b>13500</b>		

S. No.	Category	Crop/enterprise	Prioritized problem	Technology to be demonstrated	Specify Hybrid or Variety	Name of the Hybrid or Var.	Source of Technology	Name of critical input	Qty per Demo	Cost per Demo (Rs.)	No. of Demo	Total cost for the Demo (Rs.)	Parameters to be studied	Team members
9.6	Fruits	Mango	Indiscriminate use of chemical pesticides.  Unaware of IPDM practices. Yield loss was recorded up to 35%.	Demonstration of IPDM strategies for Mango fruit flies	Variety	-	TNAU 2012 and IIHR 2014	Methyl eugenol traps at 90 day from the date of flowering	6 Nos.	1200	10	18000	Pest & disease infestation.  Yield.  Economics	-
								Azadirachtin 0.3%	1 Lit	600				
<b>Total</b>									<b>1800</b>	<b>10</b>	<b>18000</b>			

S. No.	Category	Crop/enterprise	Prioritized problem	Technology to be demonstrated	Specify Hybrid or Variety	Name of the Hybrid or Var.	Source of Technology	Name of critical input	Qty per Demo	Cost per Demo (Rs.)	No. of Demo	Total cost for the Demo (Rs.)	Parameters to be studied	Team members
9.7	Farm Mechanization	Groundnut	Labour shortage.  Improper plant population.	Demonstration of Tractor Drawn Planter cum Herbicide Applicator for	Variety	-	TNAU 2009	Hiring charges for planter cum herbicide applicator @ Rs.1000/demo	-	1000	10	15000	Plant population /m <sup>2</sup>  Nos. Pods/plant	-

			More labour cost.	Groundnut cultivation				PE herbicide Pendimethalin 1250 ml/ha	500 ml	500			s Yield. Economics	
<b>Total</b>										<b>1500</b>	<b>10</b>	<b>15000</b>		

S. No.	Category	Crop/enterprise	Prioritized problem	Technology to be demonstrated	Specify Hybrid or Variety	Name of the Hybrid or Var.	Source of Technology	Name of critical input	Qty per Demo	Cost per Demo (Rs.)	No. of Demo	Total cost for Demo	Parameters to be studied	Team members
9.8	Farm Mechanization	Pulses	Labour shortage. Improper plant population. More labour cost High input cost.	Demonstration of Pulse Seeder in Nagapattinam district		-	TNAU 2015	Hiring charges for pulse seeder	-	1200	10	12000	Plant population/m <sup>2</sup> . No. Pods/plant. Yield. Economics.	-
<b>Total</b>										<b>1200</b>	<b>10</b>	<b>12000</b>		

S. No.	Category	Crop/enterprise	Prioritized problem	Technology to be demonstrated	Specify Hybrid or Variety	Name of the Hybrid or Var.	Source of Technology	Name of critical input	Qty per Demo	Cost per Demo (Rs.)	No. of Demo	Total cost for the Demo (Rs.)	Parameters to be studied	Team members
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9.9	Fisheries	Composite fish culture	Short duration of water availability.  Very low yields due to non-application of quality fish feeds.  Lack of awareness about feed based fish culture.	Demonstration of Feed based fish culture in farm ponds	-	-	TNFU	Commercial fish pellets with protein content in the range of 20-24% @ 300kg/farmer @ Rs.36/kg	300 kg	10800	4	43,200	Growth and survival.  Water and soil quality parameters  Yield/Unit area.  Economic	-
<b>Total</b>										<b>10800</b>	<b>4</b>	<b>43200</b>		

S. No.	Category	Crop/enterprise	Prioritized problem	Technology to be demonstrated	Specify Hybrid or Variety	Name of the Hybrid or Var.	Source of Technology	Name of critical input	Qty per Demo	Cost per Demo (Rs.)	No. of Demo	Total cost for the Demo (Rs.)	Parameters to be studied	Team members
9.10	Livestock	Poultry	Lack of awareness of Quail culture.  Low income of the rural women.	Demonstration of Scientific Rearing of Japanese Quail under EDP	Japanese Quail Nandhanam breed-III	-	TANUV AS-2004	Purchase of Nandhanam chicks 500x7= 3500/-  Cage for Quail 4000x 5 = 20000/-	500 nos  1 no	700  4000	<b>5</b>	<b>37500</b>	Growth parameters of quail.  Yield.  Economics	-

								Feed 60kg xRs.30 = 9000/-	60 kg	1800				
								Brooding- 5 nos. = 5000/-	1 no	1000				
<b>Total</b>									<b>7500</b>	<b>5</b>	<b>37500</b>			

S. No.	Category	Crop/enterprise	Prioritized problem	Technology to be demonstrated	Specify Hybrid or Variety	Name of the Hybrid or Var.	Source of Technology	Name of critical input	Qty per Demo	Cost per Demo (Rs.)	No. of Demo	Total cost for the Demo (Rs.)	Parameters to be studied	Team members
9.11	Millets	Pearl millet/Cumbu-Value addition	Lack of awareness of new drought tolerant Cumbu variety.  Lack of knowledge in value addition	Demonstration of Cumbu variety (CO 10) and its value addition	Pearl millet CO 10	-	TNAU 2016	Cumbu variety CO 10 seeds @ 5 kg/ha	2 kg	300	<b>4</b>	<b>10000</b>	Plant height (cm) Length of ear head/plant.  No. of grains/ear head.  Yield (Q/ha) Economics.	-
								Azospirillum @1 kg/ha	800 gm	100				
								Phosphobacteria @1 kg/ha	800 gm	100				
								Millet micronutrient mixture @ 5 kg/ha-3 kg/demo	2 kg	500				

								Raw materials for value addition	-	1500			Consumer acceptance	
									<b>Total</b>	<b>2500</b>	<b>4</b>	<b>10000</b>		

**Special Programme: Entrepreneurship development through value addition  
In Mango (EDP mode) 2018-19**

Number of Demo : 1 group  
Area : Puthupalli, Nagapattinam District  
Crop :Mango

**Prioritized problem**

- Lack of knowledge on processing and preservation technology
- Low price during peak season (Rs 2/ Kg)

**Technology to be demonstrated**

- Product development
- Formation of SHGs
- Production ,Packaging & labelling
- License and Marketing

**Products**

- Mango pulp
- Mango squash
- Mango candy
- Jam
- Mango thokku
- Mango pickle

**Critical inputs**

Raw materials for demonstration	10,000
Mango pulper- 1 No	15,000
Sealing machine	5000
Technical Bulletin	5000
Packaging and labeling	5000
<b>Total</b>	<b>Rs 40,000</b>

**Parameters to be recorded**

- Consumer acceptance (value added products)
- Shelf life.
- Economics



## Farmer's Field School (FFS) planned - 2018-19

Thematic area	: Brinjal
Title of the FFS	: Integrated Crop Management in Brinjal
Budget proposed in Rs	: 30,000
Season and Period	: June to December 2018
Periodicity of the session	: 14 weekly classes
Name of the village	: Vellapallam (Thalainayar Block)
Number of participants	: 30
Name of the Facilitators	: KVK staff & Agricultural Department Officials
Area of the FFS field	: Integrated crop Management in Brinjal
Name of the collaborator	: Th. K. Senthilkumar

### Major problems in the FFS village relevant to the crop/enterprise:

- Lack of knowledge in ICM
- Poor practices of INM
- Non adoption of IPDM practices

### Objectives of the FFS

- To create awareness on ICM in Brinjal
- To reduce the cost of cultivation.
- To enhance the yield

### Lecture Schedule

1. Importance of soil sampling and soil sampling methods
2. Season, Varieties and Seed treatment
3. Nursery Management and pro tray nursery technology
4. Land preparation (Ploughing, levelling, Ridges and furrows formation)
5. Brinjal Grafting Technology
6. Irrigation Management in Brinjal
7. Integrated Nutrient Management and Foliar Spraying of nutrients
8. Importance and use of Plant Growth Regulators
9. Adoption of Eco friendly management methods
10. Integrated Pest Management methods
11. Integrated Disease Management methods
12. Post harvest technology and Value addition
13. Marketing and Storage
14. Field Day

### Budget breakup for FFS

S. No.	Particulars	Amount (Rs.)
1	Pro tray seedlings (50 Nos. x Rs 70)	3,500

2	IIHR Vegetable Special (30 Kg x Rs.180)	4,800
3	Training Kit (Yellow sticky traps, Pheromone traps, Solar light trap)	4,500
4	Refreshment classes (14x30x30)	12,600
5	Training manual @ Rs 120/farmer for 30 farmers (30x120)	3,600
6	Field day	1,000
	<b>Total</b>	<b>30,000</b>

**Special Programme- Integrated Farming System:**

Sl. No	Components	Nos.	Amount (Rs.)
1	Tellicherry goat	3 Nos	15000
2	Silpaulin vermi bag	3 Nos	9,000
3	Namakkal 1 chicks	300 Nos	6,000
4	Japanese Quail	300 Nos	2100
5	Fish Composite Carp @ Rs.5/No.	1500 Nos	7500
6	Fodder Sorghum CoFS 31 @ Rs 5 Kg /ha	6 Kg	3000
	<b>Total</b>		<b>42,600</b>

**10. Training for Farmers/ Farm Women during 2018-19**

S. No.	Thematic area	Crop /Enterprise	Major problem	Training Course Title**	No. of Courses	Expected No. of participants	Names of the team members involved
1	Seed Production	Rice	<ul style="list-style-type: none"> <li>• Non availability of alternate rice variety to BPT 5204</li> <li>• Lack of supply of newly released seed</li> </ul>	Seed production of rice variety	1	40	

2	ICM	Rice	<ul style="list-style-type: none"> <li>• Incidence of pests &amp; disease in BPT 5204</li> <li>• Need for alternate high yielding variety</li> </ul>	ICM and IPDM in rice	1	40	
3	Integrated Nutrient Management	Rice	<ul style="list-style-type: none"> <li>• Non availability of traditional rice variety</li> <li>• Lack of knowledge in Organic farming</li> </ul>	Organic farming technologies	1	40	
4	Varietal introduction	Black gram	<ul style="list-style-type: none"> <li>• Low yield of existing varieties</li> <li>• Higher incidence of YMV and leaf crinkle diseases</li> <li>• Non adoption of INM and IPM</li> </ul>	ICM in TNAU Blackgram variety VBN 8	1	40	

5	Bio input	Vermi compost	Lack of entrepreneur activity among rural youth	Vermicompost Production technology	1	40	
6	Soil Health and Fertility	-	Lack of knowledge on soil testing	Importance of Soil sampling	1	40	
7	Fodder Production	Fodder	Non utilization of Coconut inter space and non-availability of shade tolerant fodder crop under coconut garden	Fodder Cultivation Technology	1	40	
8	Varietal introduction	Chicks	Low weight gain of existing variety Unaware of new varieties Low income	Rearing technology in desi birds with varietal introduction	1	40	
9	Management practices	Goat	Poor management of goats lead to low weight gain	Management practices in goat rearing	1	40	
10	Fishery	Fish	Unaware of scientific fish culture practices and Low weight gain in existing fish culture.	Feed management in fish culture in farm pond	1	40	
11	Group approach	SHGs	Unaware of marketing Licensing and labeling for food products	Marketing strategies Licensing	1	40	

				and labeling for food products to SHGs			
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12	Group approach	SHGs	Unaware of marketing methods and Licensing and labeling for food products	Marketing strategies to SHGs & Licensing and labeling for food products to SHGs	1	40	
13	Management practices	Milch animals	Poor management of milch animals lead to low milk yield	Management practices in milch animals	1	40	
14	Farm Mechanization	Coconut	Labour scarcity	Coconut tree climber	1	40	
15	Farm Mechanization	Vegetable	Labour scarcity	Vegetable transplanter	1	40	
16	Straw baler	Paddy	Labour scarcity	Straw baler	1	40	
17	Vegetable cultivation	Vegetables	Un awareness of latest cultivation technology	Hi-Tech technologies in vegetable cultivation	1	40	
18	Coir pith Composting	Composted Coir pith	Lack of knowledge on composting technology	Training and demonstration on Composted Coir pith Production	1	40	
19	Pandal Vegetable cultivation	Pandal Vegetables	Lack of knowledge on Pandal cultivation	Technologies for cultivating Vegetable in Pandal systems	1	40	
20	Crop regulation in Mango	Mango	Lack of knowledge on pruning techniques in mango	Training on Pruning Techniques for the rejuvenation of mango orchards	1	40	
21	Pest and disease management	Rice	Pest and diseases	Eco friendly pest and disease	1	40	

	ent			management in Kuruvai rice			
22	Pest and disease management	Rice	Pest and diseases	Eco friendly pest and disease management in Samba Thaladi rice	1	40	
23	Pest and disease management	Sugarcane	Pest and diseases	IPDM in sugarcane	1	40	
24	Pest and disease management	Brinjal	Pest and diseases	IPDM in Brinjal	1	40	
25	Pest and disease management	Coconut	Pest and diseases	IPDM in coconut	1	40	
26	Pest and disease management	Rice	Pest and diseases	ICM in organic rice cultivation	1	40	
27	Millets post harvest technology and value addition	Millets	Lack of technical knowledge in millet based health products	Post harvest management and value addition in millets	1	40	
28	Millets post harvest technology and value addition	Millets (cumbu)	Unaware of millet based products and Lack of technical knowledge in millet based health products	Value addition in cumbu	1	40	

29	Value addition	Fish and Prawn	Lack of awareness on Value addition in fish and prawn	Value addition in rice	1	40	
30	Value addition in Mango	Pulses	Uncertainty of pulses marketing value.	Post harvest management and value addition in pulses	1	40	

			Non availability of machineries for post-harvest processing in small scale. Lack of knowledge on processing technology				
					<b>30</b>	<b>1200</b>	

### 11. Training for Rural Youth during 2018-19

S.No.	Thematic area	Crop / Enterprise	Major problem	Training Course Title**	No. of Courses	Expected No. of participants	Team members involved
1	Entrepreneurship development	Agri business	Lack of entrepreneur activity among rural youth	Methods of increasing value to the produce and marketing strategies	1	30	-
2	Soil Health and Fertility	-	Non availability of Organic inputs	Vermicomposting technologies	1	30	
3	Vegetable cultivation	Brinjal	Unawareness of latest grafting technology	Training and demonstration on Brinjal grafting technology	1	30	
4	Nursery raising in Vegetables	Vegetables	Unawareness of latest nursery cultivation technology	Pro tray nursery technology in vegetable crops	1	30	
5	Protected Vegetable cultivation	Vegetables	Unawareness of latest protected cultivation of vegetables technology	Protected Cultivation technology in Vegetable crops for off season	1	30	
6	Entrepreneurship development	Value addition	Lack of awareness on preservation techniques of	• Preservation technology and value addition in tomato	1	30	

	t		fruits & vegetables Lack of awareness on processing and value addition of mango	•Value addition in mango			
7	Entrepreneurship development	Greens (Moringa)	Lack of knowledge on preparation of iron rich convenience foods	•Value addition in m Mango. •Value addition in Fish and Prawn	2	60	

### 12 Trainings for Extension Personnel during 2018-19

S.No.	Thematic area	Training Course Title**	No. of Courses	Expected No. of participants	Names of the team members
1	Integrated Nutrient Management	Demo on Traditional rice variety	1	35	
2	Integrated Nutrient Management	Integrated crop management for Rice and Pulses	1	35	
3	Varietal Introduction	Introduction of new varieties and management practices to the officials of Dept. of Agriculture	1	35	
4	Horticultural crops	Recent technologies in cultivating horticultural Crops	1	35	
5	Pest and disease management	Eco friendly pest and disease management in Samba Thaladi rice	1	35	
6	ICT	Invigorating Extension through ICT Tools	1	35	

### 13. Vocational trainings during 2018-19

Sl.No.	Thematic area and the Crop/Enterprise	Training title*	No. of programmes and Duration (days)	Type of Clientele	Expected No. of participants	Sponsoring agency if any	Names of the team members involved
1	Production of Inputs at Site	Bio fertilizers production technology	1	SHG, Youth	30	-	

2	Animal Husbandry	Desi birds rearing technology	1	SHGs, Rural youth and farmers	30	-	
3	Post harvest Technologies	Value addition in Fish and Prawn	1	SHG, Youth	30	-	
4	Farm Mechanization	Repair, maintenance and safety precautions of plant protection equipments	1	SHG, Youth	30	-	
5	Horticulture	Training and demonstration on Mango grafting techniques	1	SHGs, Rural youth and farmers	30	-	
6	Post Harvest Technologies	Processing and value addition in amla	2	SHGs, Rural youth, farm women	30	-	

#### 14. Sponsored trainings during 2018-19

S.No.	Thematic area and the Crop/Enterprise	Training title*	No. of programmes and Duration (days)	Type of Clientele	Expected No. of participants	Sponsoring agency	Names of the team members involved
1	Resource Conservation Technologies	Farm waste management	1	SHGs and Youth	50	ATMA	-
2	Integrated Farming System	Integrated Farming System	1	SHG & Farmers	50	NABARD / ATMA	-
3	Roof top Garden	Training on Establishment and Maintenance	1	Rural Youth/Farm women	50	Paid Training	-



		ce of Roof Top Garden					
4	Fruits	Preservation technology and value addition in mango and banana	1	SHG & Farm women	50	NABARD	

### 16. Extension programmes during 2018-19

Sl.No.	Extension programme	No. of programmes or activities	Expected No. of participants	Names of the team members involved
16.1	Advisory Services	250	1000	P C, SMSs and PAs
16.2	Diagnostic visits	150	350	
16.3	Field Day	15	450	
16.4	Group discussions	20	200	
16.5	Film Show	50	1000	
16.6	Self -help groups	7	140	
16.7	Kisan Mela	2	600	
16.8	Exhibition	4	600	
16.9	Scientists' visit to farmers field	150	300	
16.10	Plant/Soil health/Animal health camps	2	100	
16.11	Farm Science Club	3	75	
16.12	Ex-trainees Sammelan	-	-	
16.13	Farmers' seminar/workshop	2	200	
16.14	Method Demonstrations	30	450	
16.15	Celebration of important days	5	250	
16.16	Special day celebration	2	100	
16.17	Exposure visits	3	75	
16.18	Technology week	1	500	
16.19	Farm innovators meet	1	50	
16.20	Awareness programs	3	300	
	<b>Total</b>	<b>700</b>	<b>6740</b>	

## 17. Activities proposed as Knowledge and Resource Centre during 2018-19

### 17.1 Technological knowledge

Sl.No.	Category	Details of technologies	Area (ha)/ Number	Names of the team members involved
17.1.1	Technology Park/ Crop cafeteria	Latest released varieties	Each 0.2 ha	---
17.1.2	Demonstration Units	Pro tray nursery unit	1 No.	
		Coconut nursery unit	1 No.	
		Bio pesticides production unit	1 No.	
		Vermi compost	1 No.	
		Azolla demo unit	1 No.	
		IFS	2 No.	
		Coirpith compost unit	1 No.	
		Tree seedlings production	1 No.	
		Roof Top garden	1 No.	
17.1.3	Lab Analytical services	pH, EC, OC, N, P and K analysis	500 water and 500 soil samples	P.A. (Tech)

### 17.2 Technological Products to be produced:

Proposed activities	Expected output	Anticipated income (Rs.)
Rice- TFL seeds- TKM 13, TRY3, ADT50, ADT 51, CO50, CO 52, ADT43. Pulses- BG ADT 3, VBN6, VBN 8, GG CO8, ADT3, ADT 6	300 qtl 100 qtl	7,00,000
Planting materials	Coconut seedlings- 2000 Nos.	60,000
	Vegetable seedlings - 400 Nos and Grafted 500 nos	50,000
	Teak & Vengai-3000 Nos	30,000
	Fodder slips -5000 nos.	5000
Bio-products	Pseudomonas – 2 ton	2,00,000
	Vermicompost-10 ton	1,00,000
	Azolla- 1 ton	5,000
	Cocopeat- 5 ton	30,000

### 17.3.1 Technology backstopping to line departments

Sl. No	Category	Technological capsules / Number	Names of the team members involved
1	Agriculture	INM for rice, pulses, groundnut, sugarcane, cotton, vegetables and fruits	-
2	Horticulture	Hi tech technologies for higher production in vegetables and fruits	-
3	Agricultural Engineering	Mechanization in rice cultivation, groundnut, Coconut tree climber, Operation and maintenance of transplanters, vegetable transplanter, spading machine and sprayers	-
4	Agricultural marketing	Strengthening of group approach like SHGs, FPOs, Farmers club etc.,	-
5	Forestry	Production of quality tree seedlings suitable for Nagappatinam district	-
6	Agriculture	IPDM for rice, pulses, groundnut, sugarcane, cotton, vegetables and fruits	-
7	Agriculture, Agricultural marketing	Post harvest technologies and value addition of rice, pulses, groundnut, sugarcane, cotton, vegetables and fruits	-
8	Agriculture	District Agricultural Plan	-
9	Agriculture and allied departments	Resource person for trainings conducted by different departments	-
10	Kisan Mobile Advisory Services	240 (4100 farmers)	-

### 18. Additional Activities Planned during 2018-19: Nil

#### 19. Revolving Fund:

##### 19.1 Financial status

Opening balance as on 01.04.2016 (Rs. in Lakh)	Receipts during 2017-18 (Rs. in Lakh)	Expenditure incurred during 2017-18 (Rs. in Lakh)	Closing balance as on 31.03.2018 (Rs. in Lakh)
1,86,636	5,64,051	-	3,45,387.08

##### 19.2 Plan of activities under Revolving Fund

Proposed activities	Expected output	Anticipated income (Rs.)	Names of the team members involved
Rice-TFL seeds- TKM 13, CR1009 , Sub-1, CSR 36, CO51, ADT 45	300 qtl	7,00,000	-
Pulses- BG ADT 3,	100 qtl		

VBN8, GG CO8			
Planting materials	Coconut seedlings-2000 Nos.	60,000	--
	Vegetable seedlings – (400 Protray) Grafting materials-500 Nos	50,000	-
	Tree seedlings-3000 Nos	30,000	-
	Fodder slips-10000 Nos	5000	-
Bio-products	<i>Pseudomonas</i> – 2 ton	2,00,000	-
	Vermicompost-10 ton	1,00,000	-
	Azolla- 1 ton	5,000	-
	Cocopeat – 5 ton	30,000	-

## 20. Activities of soil, water and plant testing laboratory during 2018-19

Sl.No.	Type	No. of samples to be analyzed	Names of the team members involved
20.1	Soil	500	P.A. (Technical)
20.2	Water	500	

## 21. E-linkage during 2018-19

S. No	Nature of activities	Status	Remarks if any
21.1	Title of the technology module to be prepared	District agricultural inventory	-
21.2	Creation and maintenance of relevant database system for KVK	Farmers database	Being updated
21.3	Creation of web-site	Already created.( <a href="http://www.kvknagapattinam.com">www.kvknagapattinam.com</a> )	Being updated at weekly intervals
21.4	Creation of KVK Face book	Already created.( <a href="http://kvknagapattinam.com">kvknagapattinam.com</a> )	Being updated at weekly intervals
21.5	Kisan Mobile Advisory Service	Registration Completed in the farmers portal	Advisory Service are being sent to the beneficiaries

## 22. Activities planned under Rainwater Harvesting Scheme: NIL

## 23. Innovative Farmer's Meet

Sl.No.	Particulars	Details
23.1	Are you planning for conducting Farm Innovators meet in your district?	Yes

23.2	If Yes likely month of the meet	September 2018
23.3	Brief action plan in this regard	<p>The innovative farmers from various crops/enterprise in the district will be called at KVK and make them to demo their products and get the feedback from the innovative farmers and share their experience with other farmers and capacity building through their innovation in the field of agriculture and horticulture.</p> <p>1.Name of the Innovator:  2.Experience (in years) agriculture:  3.Name of the Innovation:  4.Cost of the innovation:  5.Crops/Enterprise is being used:  6. Horizontal spread of the innovation in the district will be collected and displayed in the KVK premises for further spread and encourage them to adopt the innovation in agriculture.</p>

#### **Farm Land Utilization Details:**

<b>S. No</b>	<b>Particulars</b>	<b>Details</b>
01	Total land available with the KVK in ha	22.67 ha
02	Total Wetland available with the KVK in ha	22.20 ha
03	Total Garden land available with the KVK in ha	0.47 ha
04	Total Dryland available with the KVK in ha	-
05	Total Cropped Area in ha	16.12 ha
06	Total Non Cropped Area in ha	6.55 ha
07	Crops planned to be cultivated in KVK campus during June to September 2017	Rice - 1.3 ha Green Manure - 9.4 ha
08	Crops planned cultivated in KVK campus during October to February 2017-18	Rice - 12.0 ha Tree sps - 2.3 ha
09	Crops planned to be cultivated in KVK campus during March to May 2017 (Please furnish area in ha for each crop in brackets after indicating the name of the crop)	Pulses - 11.5 ha Veg. /Gingelly - 0.8 ha Tree sps - 2.3 ha
10	Area under buildings in ha	2.40 ha
11	Area under Demonstration units in ha	3.60 ha

#### **Cropping Programme for the year 2018-19**

<b>Field No.</b>	<b>Area (ac)</b>	<b>June-Aug</b>	<b>Sept-Jan</b>	<b>Feb- May</b>
A block- West	3.25	Tree sps	Tree sps	Tree sps
A block- East	4.13	Rice	Rice	Pulses

B block-West	3.92	Tree sps	Tree sps	Tree sps
B block-East	6.33	Green Manure	Rice	Pulses
C block-East	5.9	Green Manure	Rice	Pulses
D block- West	2.75	Tree sps	Tree sps	Tree sps
D block- East	4.47	Green Manure	Rice	Pulses
E block- West	3.52	Tree sps	Tree sps	Tree sps
E block- East	2.78	Rice	Rice	Pulses
F block- East	1.12	Green Manure	Rice	Pulses
F block- West	2.25	Tree sps	Tree sps	Tree sps
<b>Total</b>	<b>40.28</b>	<b>40.28</b>	<b>40.28</b>	<b>40.28</b>

**Area under cultivation – 40.28 acre (16.12 ha)**

**Cropping intensity** for the year **2018-2019** =  $120.84/40.28 \times 100 = 300 \%$

**24. Budget - Details of budget utilization (2017-18) up to February 2018**

SL. NO.	PARTICULARS	ACTUAL EXPENDITURE FROM APR'17 TO JAN'18	ANTICIPATED EXPENDITURE FROM FEB'18 TO MAR'18	TOTAL R.E (2017-18) (2 + 3)
		2	3	4
A.	RECURRING CONTIGENCIES:			
1	Pay & Allowances	6706998	537757	7244755
2	Travelling Allowances	1,23,565	51,435	1,75,000
3	Contingencies			
a	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter			
b	POL, repair of vehicles, tractor and equipments	3,95,455	79,545	4,75,000
c	Meals/refreshment for trainees (@ Rs.150/day/trainee	45063	24,937	70,000
d	Training material (need based materials and equipments for conducting the training)			
e	Frontline demonstration			
f	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)			
g	Integrated Farming System (IFS)			
h	Training of extension functionaries			
i	Extension Activities			
j	Farmers' Field School			
k	EDP / Innovative activities			
l	Soil & Water Testing & Issue of Soil Health Cards	4,09,553	1,99,995	6,09,548

m	Display Boards			
n	Maintenance of building			
o	Library (Purchase of Journal, Periodicals, News Paper & Magazines)			
	<b>TOTAL (A)</b>	7635521	868732	8504303

## 25. Budget - Details of budget Estimate (2018-19) based on proposed action plan

S.No.		Budget Estimate
A	Pay & Allowances	13000000
B	Travelling Allowances	350000
C	Contingencies	0
a)	Stationary, telephone, postage and other expenditure on office running, publication of Newsletter	600000
b)	POL, repair of vehicles, tractor and equipments	
c)	Meals / refreshment for trainees Rs 150/day/trainee	304500
d)	Training Materials	50000
e)	Front Line Demonstration	308600
f)	On Farm Testing	199200
g)	IFS	42600
h)	Training to extension functionaries	0
i).	Maintenance of building	50000
j)	Extension activities	50000
k)	Farmers Field School	30000
l)	EDP	40000
m)	Display Boards	10000
n)	Maintenance of Demo units	300000
o)	Library	10000
<b>B</b>	<b>Non-Recurring Contingencies</b>	0
<b>1</b>	<b>Equipment and Furniture</b>	0
a)	Generator	200000
c	Equipment	100000
<b>2</b>	<b>Works</b>	0
a)	Fencing work	2000000



b)	Bore well – 2 Nos.	600000
<b>3</b>	<b>Library (Purchase of assets like books and journals back volume)</b>	0
4.	Vehicle (4 wheeler) – 1 No.	0
5	Tractor Trailer	300000
	<b>Grand Total</b>	<b>1,88,44,900</b>

## 26. Summary of OFT and FLDs proposed for the year 2018-19

### A. On Farm Testing (OFT)

Sl. No	Technology to be Assessed	No. of Trial	Area(ha)	Budget (Rs)	Likely start month	Likely end month
1	Assessment of drought tolerant groundnut varieties under rainfed condition	5	2	24000	Nov 17	Mar 18
2	Assessment of Dolichos Bean varieties (Bush Type) suitable for Nagapattinam district	5	1	9000	Nov 17	March 19
3	Assessment of suitable pest and disease tolerant tomato hybrids for Nagapattinam Dt.	5	1	5750	Nov 18	March 19
4	Assessment of Gift Tilapia culture in farm ponds	3	-	49500	Nov 18	Feb 19
5	Assessment of Production performance of different chicks under back yard system	3	-	43200	-	-
6	Role of mineral mixture and Ovsynch protocol in fertility management	30 Cows	-	28500	-	-
<b>Total</b>		<b>21</b>	<b>4</b>	<b>1,59,950</b>		

**(B) Frontline Demonstration (FLD)**

No	Title	No of Demo	Area(ha)	Budget (Rs)	Likely start month	Likely end month
1	Demonstration of Traditional rice variety with Eco friendly management	10	4	35000	Aug-18	Jan-19
2	Demonstration of Saline Tolerant Rice variety for Nagapattinam Dt.	10	4	10600	Sep 18	Jan-18
3	Demonstration of Eco friendly pest and disease management in Thaladi (Rabi) paddy	10	4	30000	Sep 18	Jan-18
4	Demonstration of ICM in Black gram VBN 8 in Nagapattinam Dt.	10	4	20800	June 18	Aug 18
5	Demonstration on Eco friendly IPM strategies for major pests in cotton	10	4	13500	Jan19	April-19
6	Demonstration of IPDM strategies for mango fruit flies	10	2	18000	Jan 19	June 19
7	Demonstration of Tractor Drawn Planter cum Herbicide Applicator for Groundnut cultivation	10	4	15000	Nov 18	Mar 19
8	Demonstration of pulse seeder in Nagapattinam District	10	4	12000	Dec 18	March 19
9	Demonstration of Feed based fish culture in farm ponds	4	-	43200	Nov 18	Feb 19
10	Demonstration of Scientific Rearing of Japanese Quail under EDP	5	-	37500	-	-
11	Demonstration of Cumbu variety (CO 10) and its value addition	4	1.6	10000	May 18	Aug 18
	<b>Total</b>	<b>93</b>	<b>31.6</b>	<b>2,45,600</b>		

**Abstract**

Sl.No.	Type	Particulars	Number	Amount (Rs.)
A	OFTs	On Farm Testings	6	<b>1,59,950</b>
B	FLDs	Frontline Demonstrations	11	<b>2,45,600</b>
<b>Grand Total</b>			<b>17</b>	

### Targets of mandated activities for the Year 2018-19

S. No.	Activities	Target (Number)
1	<b>On- farm trials</b>	
a	No. of technologies	6
b	No of Trials	21
2	<b>Frontline Demonstrations</b>	
a	No. of technologies	11
b	No. of Demonstrations	93
3	<b>Training of Farmers</b>	
a	No. of Courses	30
b	No of Participants	1200
4	<b>Training of Rural Youth</b>	
a	No of Courses	8
b	No of Participants	240
5	<b>Training of Extension Personnel</b>	
a	No of Courses	6
b	No of Participants	210
6	<b>Vocational Training</b>	
a	No of Courses	6
b	No of Participants	180
7	<b>Sponsored Training</b>	
a	No of Courses	4
b	No of Participants	200
8	<b>Paid Training</b>	
a	No of Courses	-
b	No of Participants	-
9	<b>Extension activities</b>	
a	No of Programs	700
b	No of Participants	6740
10	<b>Technology Products : Seed – (Kg)</b>	40000
11	<b>Technology Products: Planting material – (Nos.)</b>	15900
12	<b>Technology Products : Bio-products-Kg</b>	18000
13	Technology Products : Live-stock strains(Animals) - (Nos.)	-
14	Technology Products : Live-stock strains (Poultry) - (Nos.)	-
15	Technology Products : Live-stock strains (Fish fingerlings) - (Nos.)	-
16	<b>Kisan Mobile Advisory (KMAS)</b>	
a	No of Messages	48
b	No of farmers/message	3845
17	<b>Soil and Water Testing Laboratory (SWTL)</b>	
	Soil sample-Nos.	500
	Water sample-Nos.	500
18	Expected Closing Balance of Revolving Fund on 31.3.2018 (Rs.)	3,45,387.08

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